

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Academic Administrative Plan 2021-22


Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Wadala (E)
Mumbai - 400 037.



Consolidated Academic Administration Plan for the Course
USIT602 Security in Computing, USIT6P2 Security in Computing Practical –
Sem.VI –
B.Sc. (Information Technology)– 2021-2022 – Even Semester
Ms. Prachi Mahajan, Ms. Spruha More

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Importance of security in all aspects related to computing, such as Network, Operating System, and Storage.
Affective	What do you want students to think / care about?	The need for Authorization, Authentication, and various Encryption/Decryption techniques.
Behavioural	What do you want students to be able to do?	Apply the various techniques learnt to protect and secure their Data, OS, Network and Storage.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Understand the basic design principles of security and know various security models.	Unit 1
CO2	Realise application of Symmetric Key Cryptography, Storage and Database Security	Unit 2
CO3	Learn to design Secure Networks using the connecting devices.	Unit 3
CO4	Analyse the need of Intrusion Detection and Prevention Systems, Operating System Security Models.	Unit 4
CO5	Evaluate feasibility of Virtualization and Cloud Computing for different types of data and Designing Secure Web Applications.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												

CO 4											
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1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		√					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT602	Security in Computing	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USIT602	Security in Computing	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	75	100 (Scaled to 10)	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div B	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div C	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div D	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div E	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A	Tuesday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div B	Tuesday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div C	Tuesday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div D	Tuesday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div E	Tuesday	3:00 pm to 4:00 pm	Reading Room/ MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module (No of Lect)	% Weightage in University Question Papers
1	Information Security Overview, Threats, Types of Attacks, Secure Design Principles.	05	20
2	Authentication and Authorization, Encryption, Storage Security and Database Security.	10	20
3	Secure Network Design, Network Design Security, Firewalls, Wireless Network Security.	07	20
4	Intrusion Detection and Prevention Systems, Voice over IP, OS Security Models	10	20
5	Virtual Machines and Cloud Computing, Secure Application Design, Physical Security	08	20
*Lecture Count modified as per suggestions by Mentor Total		40 lectures X 60 Minutes	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	I	Operating Systems	Virtual Machines
2	III	Computer Networks	Network Devices, Types of Networks, Wired and Wireless Networks.
3	III	Database Management Systems	Concepts of Database, Database Backup and Recovery, Auditing and Monitoring.

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	T.Y.B. Sc.IT	Project
2	M.ScIT Sem I	Cloud Computing

3	M.ScIT Sem III	Security Breaches and Countermeasures
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2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Storage Security (Unit I) – Organisations use algorithm 'Crypto Shredding'
2	Database Security (Unit I) – Organisations use Authentication, Authorisation, Auditing, ACL, Monitoring
3	Firewall Design (Unit III) – CCNA Firewall includes SDM Demo
4	Wireless Intrusion Detection and Prevention (Unit III) – Car thefts, Fire Alarms, Surveillance Systems

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Apr 2022	Apr 2021	Apr 2020	Apr 2019
Course Passing % – Average of 5 Divisions	100	100	100	91.17
Marks Obtained by Course Topper (marks/100)			--	--

Year	Division A		Division B		Division C		Division D		Division E	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Apr 2021	PM, SM	100 (Div 1)	PM, SM	100 (Div 2)	PM, SM	100 (Div 3)				
Apr 2020	GS	100	PMM	100	GS	100	PMM	100	GS	100
Apr 2019	GS	90.38	PMM	92.86	GS	90.74	PMM	91.04	GS	90.74

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Public Key Infrastructure	I	Compare and Contrast of different techniques
Risk Remediation	II	Breakdown techniques in categories, remember important points for each

4 All the Learning Resources – Books and E-Resources

4.a List of Textbooks (T – Symbol for Textbooks) to be Referred by Students

Sr. No	Textbook Titles	Author/s	Publisher	Edition	Module Nos.
1	The Complete Reference: Information Security	Mark Rhodes-Ousley	McGraw Hill	2 nd	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
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1	Essential Cybersecurity Science	Josiah Dykstra	O'Reilly	5 th	1-5
2	Principles of Computer Security: CompTIA Security+ and Beyond	Wm.Arthur Conklin, Greg White	McGraw Hill	2 nd	1-5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The Complete Reference: Information Security	Mark Rhodes-Ousley	McGraw Hill	2 nd	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	International Journal of Information Security https://www.springer.com/journal/10207	Info Security Magazine https://www.infosecurity-magazine.com/	1-5
	Journal of Cryptology https://www.springer.com/journal/145	Cyber Security Magazine https://cybersecurity-magazine.com/	1-5
3	Journal of Information Security and Applications https://www.journals.elsevier.com/journal-of-information-security-and-applications	CISO MAG https://cisomag.eccouncil.org/	1-5
4	International Journal of Innovative Research and Advanced Studies www.ijiras.com	SECURITY https://www.securitymagazine.com/	1-5

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√	√	√	√		√	Y		Ref 1:The Complete Reference: Information Security Pg 3-93
2	√	√	√	√		√	Y		Ref 1:The Complete Reference: Information Security Pg 167-274
3	√	√	√	√		√	Y		Ref 1:The Complete Reference: Information Security Pg 300-396
4	√	√	√	√		√	Y		Ref 1:The Complete Reference: Information Security Pg 399-475
5	√	√	√	√		√	Y		Ref 1:The Complete Reference: Information Security Pg 575-797

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	MIT 6.858 Computer Systems Security, Fall 2014 - MIT Open Courseware https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-858-computer-systems-security-fall-2014/	1-5
2	Systems and Usable Security https://onlinecourses.nptel.ac.in/noc22_cs36/preview	1-5
3	Introduction to Information Security https://nptel.ac.in/courses/106/106/106106129/	1-5

4.g

Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Introduction to Cybersecurity https://www.netacad.com/courses/cybersecurity/introduction-cybersecurity	CISCO	15 hours	Badge on successful completion of course
2	Systems and Usable Security https://onlinecourses.nptel.ac.in/noc22_cs36/preview	NPTEL	04 Weeks	Yes, on successful result in proctored exam
3	Intro to Malware Analysis and Reverse Engineering https://www.cybrary.it/course/malware-analysis/	CYBRARY	09 Hours	Yes, on successful completion of course
4	Penetration Testing and Ethical Hacking www.cybrary.it/course/ethical-hacking/	CYBRARY	07 Hours	Yes, on successful completion of course

4.h

Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Certified Ethical Hacker v10 (CEH)	Mr Sarang Nagmote IIM Calcutta Alumni & info Security Leader	50 hrs	Y

4.i

Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	-	-

5.

Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	06/12/2021		14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Subject Introduction, Information Security Overview: The Importance of Information Protection, The Evolution of Information Security	Poll, Quiz	Powerpoint, Video Clip	1	Ref 1/ Chp1 / 3-8
	2		Security Methodology, How to Build a Security Program, The Impossible Job	Viva, Quiz	Powerpoint	2	Chp1/11-18
	Self Study		The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls			Self Study	Chap 1 / 19-23
	3		Risk Analysis: Threat Definition, Types of Attacks	Quiz	Powerpoint	3	Chp2 / 25- 39
2	4		Types of Attacks	Match Card	Powerpoint, Video Clip	4	Chp2 /40-51
	Self Study		Risk Analysis	Quiz		Self Study	Chp2 /51
	5		Secure Design Principles: The CIA Triad and Other Models, Defence Models, Zones of Trust	Student Presentation on current security attacks	Powerpoint	5	Chap 4 / 85 -93
	6	2	Authentication, Authorization: Authentication	Quiz	Powerpoint	6	Chap 7 /175-182
3	7		Authorization	Fill in the blanks	Powerpoint	7	Chap 7 /182-186
	Self Study		Encryption: A Brief History of Encryption	Time to climb		Self Study	Chap 10 / 241-243
	8		Symmetric-Key Cryptography Public Key Cryptography Public Key Infrastructure	Match the type of security with scenario	Powerpoint, Video Clip	8	Chap 10 /243-245 Chap 10 /245-246 Chap 10 /247-249
	9		Storage Security: Evolution Modern Storage Security	Quiz	Powerpoint	9	Chap 11 / 253 -254 Chap 11 /255-261
4	10		Risk Remediation	Poll, Viva	Powerpoint	10	Chap 11 /261-270
	Self Study		Best Practices	Match Card		Self Study	Chap 11 /270-271
	11		Database Security: General Database Security Concepts, Understanding Database Security Layers	Viva on video shown	Powerpoint, Video Clip	11	Chap 12 / 273-275 Chap 12 /275-278
	12		Understanding Database-Level Security Levels	Fill in the blanks	Powerpoint	12	Chap 12 /278 -284

5	13		Using Application Security	Quiz	Powerpoint	13	Chap 12 /285-288
	14		Database Backup and Recovery Keeping Your Servers Up to Date Database Auditing and Monitoring	Flipped Classroom	Powerpoint	14	Chap 12 /289-292 Chap 12 /292-294
	15		Revision	MOOC Submission (Cisco)	Powerpoint	15	
6	16	3	Secure Network Design: Introduction to Secure Network Design Performance Availability	Quiz	Powerpoint	16	Chap 13 / 300-302 Chap 13/303-305 Chap 13/306-307
	17		Security	Quiz		17	Chap 13/308-317
	Self Study		Network Device Security: Switch and Router Basics	Fill in the Blanks		Self Study	Chap 14 / 321-329
	18		Network Hardening	Match Card activity on self study topic	Powerpoint	18	Chap 14 /330-340
7	19		Firewalls: Overview, The Evolution of Firewalls Core Firewall Functions Additional Firewall Capabilities Firewall Design	Viva on video clips shown	Powerpoint, 2 Video clips (Evolution, HoneyPot)	19	Chap 15 / 343-347 Chap 15 /347-349 Chap 15 /350-351 Chap 15 /351-353
	20		Wireless Network Security: Radio Frequency Security Basics	Quiz	Powerpoint	20	Chap 17 / 372-383
	21		Data-Link Layer Wireless Security Features, Flaws, and Threats Wireless Vulnerabilities and Mitigations	Quiz	Powerpoint	21	Chap 17 /383-387 Chap 17 /387-390
8	22		Wireless Network Hardening Practices and Recommendations Wireless Intrusion Detection and Prevention	Review of Research Paper	Powerpoint	22	Chap 17 /390-393 Chap 17 /393-396
	Self Study		Wireless Network Positioning and Secure Gateways	Time to climb		Self Study	Chap 17 /396
	23	4	Intrusion Detection and Prevention Systems: IDS Concepts IDS Types and Detection Models	Viva on video shown	Powerpoint, Video clip on IDS	23	Chap 18 / 399-406 Chap 18 / 406-408
	24		Detection Models	Match Card	Powerpoint	24	Chap 18 / 409-413
9	25		IDS Features IDS Deployment Considerations	Fill in the blanks	Powerpoint	25	Chap 18 / 413-418 Chap 18 / 418-420
	26		Security Information and Event Management (SIEM)	Poll, Viva	Powerpoint	26	Chap 18 / 420-425
	27		Voice over IP (VoIP) and PBX Security: Background	Viva on video shown	Powerpoint, Video clip	27	

			VoIP Components				Chap 19 / 428-430 Chap 19 / 430-436
10	28		VoIP Vulnerabilities and Countermeasures	Poll, Viva		28	Chap 19 / 436-445
	29		VoIP Vulnerabilities and Countermeasures		Powerpoint	29	Chap 19 / 446-455
	30		PBX, TEM: Telecom Expense Management	Quiz	Powerpoint	30	Chap 19 / 456-458
11	31		Operating System Security Models: Operating System Models	Match the model	Powerpoint	31	Chap 20 / 463-467 Chap 20 / 467-471
	32		Classic Security Models Reference Monitor Trustworthy Computing International Standards for Operating System Security	Quiz	Powerpoint	32	Chap 20 / 471-473 Chap 20 / 473-475
	33	5	Virtual Machines and Cloud Computing: Virtual Machines Cloud Computing	Assignment 1 on Unit 4	Powerpoint	33	Chap 24 / 575-577 Chap 20 / 578-585
12	34		Cloud Computing	Quiz	Powerpoint	34	Chap 20 / 586-594
	35		Secure Application Design: Secure Development Lifecycle Application Security Practices	Match the practices	Powerpoint	35	Chap 26 / 611-613 Chap 26 / 613-615
	36		Web Application Security	Quiz	Powerpoint	36	Chap 26 / 615-625
13	37		Client Application Security	Quiz	Powerpoint	37	Chap 26 / 625-629
	38		Remote Administration Security	Poll, Viva	Powerpoint	38	Chap 26 / 629-632
	39		Physical Security: Physical Vulnerability Assessment Choosing Site Location for Security	Take Home Test on Unit 5	Powerpoint	39	Chap 34 / 790-791 Chap 34 / 791-794
14	40		Securing Assets: Locks and Entry Controls Physical Intrusion Detection	Poll	Powerpoint	40	Chap 34 / 794-796 Chap 34 / 796-797

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) Specify	Other (2) Specify	Total
75% Attendance Active Participation – (20 * 5 = 100 marks scaled to 10 marks)	1	-	Practical Submission(100 marks scaled to 20 marks), Practical Assessment #1(20 marks scaled to 10 marks), Final Practical Exam (Mini Project/Poster Presentation + Viva) – 20 marks		-	IA 1 (MCQ) – 30 Marks IA 2 (MCQ) – 30 Marks Together scaled to 15 Marks		75

			Total 20+10+20 = 50 marks		
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7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Intrusion Detection and Prevention Systems, Operating System Security Models	4	11 th week	11 th week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2 nd	✓			1	✓	✓		✓	✓

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 th Week	1, 2	1, 2	MCQs Unit 1 – 15 Marks Unit 2 – 15 Marks	IA is a Head of passing *
2 nd IA Test	10 th Week	3, 4	3, 4	MCQs Unit 3 – 15 Marks Unit 4 – 15 Marks	
Pop Quiz	9 th Week	3	3	MCQs	-
Open Book Test	-	-	-	-	-
Take Home Test	13 th Week	5	5	Descriptive	-

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2	Design Topology	Designing Topology, Network Addressing	2	4
2	2	Configure Routers	Creating Virtual Networks	2	4

3	1	Configure AAA Authentication	Using Router Console	1	4
4	3	Configure IP ACLs to Mitigate Attacks and IPV6 ACLs	Mitigate Attacks	3	4
5	3	Configuring a Zone-Based Policy Firewall	Enable IOS IPS	3	4
6	4	Configure IOS Intrusion Prevention System (IPS) Using the CLI	IOS Intrusion	4	4
7	5	Configure and Verify a Site-to-Site IPsec VPN Using CLI	IPsec VPN Using CLI	5	4
8	3	Configuring ASA Basic Settings and Firewall Using CLI	DHCP, Static NAT	3	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1-2	Encryption and Decryption Problem (Transposition problem)	Various Encryption Techniques	2	4

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1-2	Symmetric and Asymmetric key Cryptography	Symmetric and Asymmetric Cryptography	2	4

10 Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	-
3	Test and Assessments	Class Tests – (other than IA)	
4		Mini Projects	-
5		Pop Quiz	-
6		Mobile App Based Quiz	-
7		Open Book Test	
8		Take Home Test	Yes (on unit 5)

9	Collaborative and Group Activity	Poster Presentation	Yes (as part of Practical Assessment – Various types of security and their specific applications)
10		Minute Papers	-
11		Students Seminar	Yes (Presentation on current security threats/attacks of 21-22 - Unit 1)
12		Students Debates	-
13		Panel Discussion / Mock GD	-
14		Mock Interview	-
		Research Paper Review	Yes (on Unit 3)
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes (MOOC Submission for Unit 2 – Cisco Netacad)
16		Value Added Courses	Yes
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Prachi Mahajan
Faculty 1 Name (Sign.)

Ms. Spruha More
Faculty 2 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)


Principal
VIDYALANKAR EDUCATIONAL TRUST
INFORMATION TECHNOLOGY
Kalyanapur, Mumbai
Educational Campus, Mumbai (E)
Mumbai - 400 037



Version 2021-22

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Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To gain knowledge about geographic information systems. To understand the techniques and method used in implementing PGIS based Applications.
Affective	What do you want students to think / care about?	To compare vector and raster data, the different types of Projection and Interpolation Techniques. To identify the benefits and shortcomings of PGIS.
Behavioural	What do you want students to be able to do?	To create GIS layers of maps from scratch. To develop a strategy to implement an effective GIS.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Understanding the Real world and its representation of it using GIS.	Unit 1
CO2	Understanding and managing data and Processing Systems.	Unit 2
CO3	Analyzing Spatial Referencing and Positioning	Unit 3
CO4	Analyzing Spatial Data	Unit 4
CO5	Implementing Maps	Unit 5
CO6	Constructing and Analysing maps based on particular area.	Unit 1, 2, 3, 4, 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

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CO 2												
CO 3												
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CO 5												

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CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT604	PGIS	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USIT604	PGIS	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	75	10	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div B	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div C	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div D	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div E	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A	Thursday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div B	Thursday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div C	Thursday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div D	Thursday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div E	Thursday	3:00 pm to 4:00 pm	Reading Room/ MS Teams
Div F	-	-	-

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	A Gentle Introduction to GIS, Geographic Information and Spatial Database	9	20
2	Data Management and Processing Systems	4	20
3	Spatial referencing and Positioning Data Entry and Preparation	13	20
4	Spatial Data Analysis	8	20
5	Data Visualization	6	20
* Insert rows for more modules in the Course Total		40 lectures X 60 Minutes	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	3	DBMS	Normalization, SQL queries
2	4	Computer Graphics and Animation	Raster data, Vector data
3	2	Object Oriented Programming	Basic concepts

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	B.Sc IT Sem 6	Project Implementation
2	M Sc IT, Sem 4	PSIT403b - Remote Sensing, PSIT4P4 - Project Implementation

2.d**Real Life Application Mapping – Mention Application from Very Common Day to Day Life**

No.	Real Life Application Mapping with the Course
1	GPS application in mobile phones.
2	OLA and UBER Apps
3	Google Maps and Google Earth
4	Satellite for Disaster Management
5	Smart City Planning
6	Urban Planning
7	Transportation Planning
8	Disaster Risk and Management
9	Agricultural Value Chain
10	Natural Resource Management

3.**Past Results – Division-Wise and Topic-Wise Result Based Analysis**

Details	Target - Apr 2022	Apr 2021	Apr 2020	Apr 2019
Course Passing % – Average of 3 Divisions	100	100	100	92.02%
Marks Obtained by Course Topper (mark/100)	100	100	100	90

Year	Division A		Division B		Division C		Division D		Division E	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Apr 2021	PSM, UMS	100 (Div 1)	PSM, UMS	100 (Div 2)	PSM, UMS	100 (Div 3)				
Apr 2020	SM	100	PSM	100	UMS	100	PSM	100	SM	100
Apr 2019	SM	96.15	PSM	91.07	UMS	90.74	PSM	89.55	SM	92.59

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Satellite based positioning	3	Video based teaching may help to overcome
Analysing Spatial data and error propagation	4	Need some more practical example, Course from ESRI

4**All the Learning Resources – Books and E-Resources****4.a****List of Text Books (T – Symbol for Text Books) to be Referred by Students**

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Geographic Information Systems	Chang Kang-tsung (Karl),	McGrawHill	4th Edition	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Principles of Geographic Information Systems- An Introductory Text Book	Editors: Otto Huisman and Rolf A.	The International Institute of Geoinformation Science and Earth Observation	Fourth	1-5
2	Principles of Geographic Information Systems	P.A Burrough and R.A.McDonnell	Oxford University Press	Third	1-5
3	Fundamentals of Spatial Information Systems,	R.Laurini and D. Thompson,	Academic Press		3, 4
4	Fundamentals of Geographic Information Systems	Michael N.Demers	Wiley Publications	Fourth	1
6	GIS Fundamentals: A First Text on Geographic Information Systems	Paul Bolsatd	XanEdu Publishing Inc	5th Edition	1, 3

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Principles of Geographic Information Systems- An Introductory Text Book	Editors: Otto Huisman and Rolf A.	The International Institute of Geoinformation Science and Earth Observation	Fourth	1, 2, 3, 4, 5
2	Essays on Geography and GIS http://www.esri.com/~media/Files/Pdfs/library/bestpractices/essays-on-geography-gis-vol7.pdf		ESRI	Vol. 7	1, 2
3	The GIS Primar : An introduction to Geographic Information System	David J			1, 3
4	Digital Content	Pushpa M, Ujwala S	live.vsit.edu.in		1 - 5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Journal of GIS: http://technical.cloud-journals.com/index.php/IJARSG/index	Data Engineering: https://www.esri.com/en-us/arcgis/products/spatial-analytics-data-science/capabilities/data-engineering	Unit 2
2	Journal of GIS and Remote Sensing: http://www.aboutgis.com/gis-and-remote-sensing-journal-list-with-impact-factors/	Spatial Data Analysis: https://www.esri.com/en-us/arcgis/products/spatial-analytics-data-science/capabilities/spatial-analysis	Unit 4
3	Journal of Geographic Systems: https://link.springer.com/journal/10109	Data Visualization: https://www.esri.com/en-us/arcgis/	Unit 5

		products/spatial-analytics-data-science/capabilities/visualization-exploration	
4	Transactions in GIS: https://link.springer.com/journal/10109	Geospatialworld: https://www.geospatialworld.net/magazine	Unit 3, 4
5	Geographical Analysis: https://onlinelibrary.wiley.com/journal/15384632#pane-01cbe741-499a-4611-874e-1061f1f4679e01	GIS Tutorial: https://ocw.mit.edu/resources/res-str-001-geographic-information-system-gis-tutorial	Units 1, 3, 4

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓	✓	✓	✓	✓	✓	Principles of Geographic Information Systems- An Introductory Text Book ,chapter1, 2 pg no 25-134	
2	✓	✓	✓		✓		✓	Principles of Geographic Information Systems- An Introductory Text Book, chapter 3 pg no 135-188	
3	✓	✓	✓	✓			✓	Principles of Geographic Information Systems- An Introductory Text Book , chapter 4 ,5 pg no 189-341	
4		✓	✓	✓			✓	Principles of Geographic Information Systems- An Introductory Text Book, chapter 6 pg no 342-439	
5		✓	✓				✓	Principles of Geographic Information Systems- An Introductory Text Book, chapter 7pg no 440-498	

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Introduction to GIS: https://www.youtube.com/watch?v=ISiBu_4i-8l&list=PL9P1J9q3_9fOP3VGEENDHltx-E0XNZugJ	Unit 1
2	Geographic Information: https://www.youtube.com/watch?v=jfD5fytQ11k&index=2&list=PL9P1J9q3_9fOP3VGEENDHltx-E0XNZugJ	Unit 1
3	Spatial Referencing and Positioning: https://www.youtube.com/watch?v=OQq0VG3lars&index=5&list=PL9P1J9q3_9fOP3VGEENDHltx-E0XNZugJ	Unit 3
4	Spatial Database: https://www.youtube.com/watch?v=6JAoYI-lfkQ&list=PL9P1J9q3_9fOP3VGEENDHltx-E0XNZugJ&index=6	Unit 1
5	Data Visualization: https://www.youtube.com/watch?v=LoOTAwwRpSo&index=11&list=PL9P1J9q3_9fOP3VGEENDHltx-E0XNZugJ	Unit 5

6	Data Management: https://www.youtube.com/watch?v=Pbe8CxVDoeQ&list=PL9P1J9q3_9fOP3VGEENdHltx-E0XNZugJ&index=14	Unit 2
7	Data Management: https://www.youtube.com/watch?v=nYJo1d-SWas&index=15&list=PL9P1J9q3_9fOP3VGEENdHltx-E0XNZugJ	Unit 2
8	Geographic Information Systems: http://www.ncgia.ucsb.edu/giscc/	Unit1,2,3,4,5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Geographic Information Systems	Spoken Tutorials, IITB	1 week	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	ISRO Course	ISRO	7 days	Y
2	Basics of Map Projections https://www.esri.in/training/main/e-learning-courses/list-of-courses	ESRI	1 month	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	Video Recordings

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	06/12/2021	31/03/2022	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Books/ Chapter No. / Page Nos./ Web Site
1	1	1	A Gentle Introduction to GIS: The nature of GIS: Some fundamental observations, Defining GIS	Quiz, Poll	Power point, Video Clip	1	Reference 1/1/25
	2	1	GISystems, GIScience and	Quiz, Poll,	Power point,	2	Reference

			GI Applications, Spatial data and Geoinformation		Video Clip		1/1/43
	3	1	The real world and representations of it: Models and modelling	Quiz, Poll	Power point, Video Clip	3	Reference 1/1/49
2	4	1	Maps, Databases,	Quiz, Poll, Drawing maps on paper	Power point, Show Maps used in various application	4	Reference 1/1/51
	Self-study	1	Spatial databases and spatial analysis	Quiz	Video		Reference 1/1/55
	5	1	Geographic Information and Spatial Database Models and Representations of the real world, Geographic Phenomena: Defining geographic phenomena,	Match Card, Poll	Power point, Video Clip	5	Reference 1/2/63
	6	1	Types of geographic phenomena, Geographic fields, types of geographic phenomena, Geographic fields,	Quiz, Poll	Power point, Video Clip	6	Reference 1/2/69
3	7	1	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations,	Flash Card, Poll,	Power point, Video Clip	7	Reference 1/2/85
	8	1	Vector representations, Topology and Spatial relationships , Scale and Resolution ,	Gravity Game on quizlet,	Power point, Video Clip	8	Reference 1/2/91
	Self-study	1	Representation of Geographic fields, Representation of Geographic objects,	Match card	Power point,		Reference 1/2/124
	9	1	Organizing and Managing Spatial Data, The Temporal Dimension	Assignment 1 – 20 Marks	Power point, Video Clip	9	Reference 1/2/126
4	10	2	Data Management and Processing Systems, Hardware and Software Trends, Geographic Information Systems: GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)	Poll,	Flipped Classroom, Power point, Video Clip	10	Reference 1/3/142
	11	2	Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.	Match Card, Poll	Power point, Video Clip	11	Reference 1/3/148
	Self-study	2	Database management Systems: Reasons for using a DBMS, Alternatives for data management,	Graded Questions	Power point, Video Clip		Reference 1/3/158
	Self-study	2	The relational data model,	Graded Questions	Power point, Video Clip		Reference 1/3/179
	12	2	Querying the relational database.	Quiz, Poll,	Flipped Classroom, Power point	12	Reference 1/3/158
5	13	2	GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.	THT - 20 Marks	Power point	13	Reference 1/3/179
	14	3	Spatial Referencing and Positioning, Spatial Referencing: Reference surfaces for mapping, Coordinate Systems,	Gravity Game on quizlet	Power point, Video Clip	14	Reference 1/4/192
	15	3	Map Projections, Coordinate Transformations,	Vlabs	Power point, Video Clip	15	Reference 1/4/217

			https://demonstrations.wolfram.com/ProjectingACircleOnASphereToAnEnclosingCylinder/				
6	16	3	Satellite-based Positioning: Absolute positioning,	Poll,	Power point, Video Clip	16	Reference 1/4/236
	Self-study	3	Errors in absolute positioning,	Quiz	Power point, Video Clip		Reference 1/4/246
	17	3	Relative positioning, Network positioning	Poll	Power point, Video Clip	17	Reference 1/4/254
	18	3	Code versus phase measurements, Positioning technology	Pop Quiz, Poll	Power point	18	Reference 1/4/257
7	19	3	Data Entry and Preparation Spatial Data Input: Direct spatial data capture,	Match Card, Poll	Power point	19	Reference 1/5/272
	20	3	Indirect spatial data capture, Obtaining spatial data elsewhere	Poll	Power point, Video Clip	20	Reference 1/4/274
	21	3	Data Quality: Accuracy and Positioning,	Flash Card, Poll	Power point, Video Clip	21	Reference 1/4/285
8	22	3	Positional accuracy, Attribute accuracy	Gravity Game on quizle	Power point, Video Clip	22	Reference 1/4/287
	23	3	Temporal accuracy, Lineage, Completeness, Logical consistency	Poll, Gamification using nearpod	Power point, Video Clip	23	Reference 1/4/300
	24	3	Data Preparation: Data checks and repairs,	Poll, Viva	Power point, Video Clip	24	Reference 1/5/305
9	25	3	Combining data from multiple sources	Poll, Gamification using spin wheel	Power point, Video Clip, Simulation	25	Reference 1/5/312
	Self-study	3	Point Data Transformation: Interpolating discrete data,	Poll	Power point,		Reference 1/5/320
	26	3	Interpolating continuous data	Vlabs Assignment - 20 Marks	Power point,	26	Reference 1/5/325
	27	4	Spatial Data Analysis, Classification of analytical GIS Capabilities Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification	Quiz, Poll,	Power point, Video Clip	27	Reference 1/6/342
10	28	4	Overlay functions: Vector overlay operators, Raster overlay operators	Poll,	Power point, Video Clip	28	Reference 1/6/377
	29	4	Neighbourhood functions: Proximity computations, Computation of diffusion	Quiz, Poll	Power point, Video Clip	29	Reference 1/6/395
	30	4	Flow computation, Raster based surface analysis	Quiz, Poll, Drawing maps on paper,	Power point, Video Clip	30	Reference 1/6/403
11	31	4	Analysis: Network analysis, interpolation,	Match Card, Poll	Power point, Simulation	31	Reference 1/6/415
	Self-	4	terrain modelling	Quiz	Power point,		Reference

	study						1/6/415
	32	4	GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances	Quiz, Poll	Power point, Video Clip	32	Reference 1/6/424
	33	4	Error Propagation in spatial data processing	Flash Card, Poll,	Power point, Video Clip	33	Reference 1/6/429
	Self-study	4	How Errors propagate	Quiz	Power point,		Reference 1/6/429
12	34	4	Quantifying error propagation	Video preparation on Map creation – 20 Marks	Power point	34	Reference 1/6/434
	35	5	Data Visualization, GIS and Maps, The Visualization Process, Visualization Strategies: Present or explore	Quiz, Poll,	Power point, Video Clip, Simulation	35	Reference 1/7/414
	36	5	The cartographic toolbox: What kind of data do I have? How can I map my data?	Quiz, Poll,	Power point, Video Clip	36	Reference 1/7/463
	37	5	How to map? How to map qualitative data,	Poll,	Power point, Video Clip, Simulation	37	Reference 1/7/466
	38	5	How to map quantitative data,	Poll,	Power point, Video Clip, Simulation	38	Reference 1/7/470
13	Self-study	5	How to map the terrain elevation,	Match card	Power point,		Reference 1/7/477
	Self-study	5	How to map time series	Quiz	Power point,		Reference 1/7/485
	39	5	Map Cosmetics,	Match Card, Poll	Power point, Video Clip, Simulation	39	Reference 1/7/485
14	40	5	Map Dissemination, Revision	MOOCs Course (Certification) – 20 Marks	Power point, Video Clip	40	Reference 1/7/487

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	1	-	Practical Submission (100 Marks) scaled to 20 Marks, Pract Assessment #1 – (20 Marks) scaled to 10 Marks, Final Pract Exam (Mini-Project presentation + Viva) – 20 Marks		-	IA 1 (MCQ) - 30 Marks, IA 2 (MCQ) – 30 Marks Scaled to 15 Marks	-	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Computer representation of geographic information	1	3 rd week	3 rd week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓		2	2

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 th week	1, 2	1,2	Q1 – 10 Marks Q2 – 10 Marks	No IA Re-test
2 nd IA Test	10 th Week	3, 4	3, 4		IA is a Head of passing *
Pop Quiz	9 th Week	3	3	MS Teams	-
Open Book Test	-	-	-	-	-
Take Home Test	5 th week	2	2	MS Teams	-
Class tests / prelims	-	-	-	-	-
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Familiarizing Quantum GIS: Installation of QGIS, datasets for both Vector and Raster data, Maps.	Installation of QGIS	C01	4
2	1	Creating and Managing Vector Data: Adding vector layers, setting properties, formatting, calculating line lengths and statistics	Vector Data	C01	4
3	3	Making a Map, Working with Attributes, Importing Spreadsheets or CSV files Using Plugins, Searching and Downloading OpenStreetMap Data	Making a Map with Attributes	C03	4
4	4	Working with attributes, terrain Data	terrain Data	C04	4
5	4	Working with Projections and WMS Data	WMS Data	C04	4
6	3	Georeferencing Topo Sheets and Scanned Maps Georeferencing Aerial Imagery Digitizing Map Data	Georeferencing Topo Sheets	C03	4
7	5	Validating Map data	Validating Map	C05	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	3	Create a map of your own residential area 1. Add 5 Area (id, name) 2. Add 5 Garden (id, name) 3. Add 3 Highways (id, name) 4. Add 3 railway track (id, name, line) 5. Add 6 Railway stations(id, name, line) 6. Add 5 Restaurants (id, name) [At least 3 inside garden]	Map Creation	CO3, CO6	4
2	4	Perform the following queries on above layers 1. Add a new column Garden area and calculate the area of each garden and show the largest garden. 2. Show all the railway tracks that intersect with Highways. 3. Find all the restaurants inside a garden. 4. Find all the railway tracks that do not intersects with highway	Data Analysis	CO4	4
3	3	Create a Map using above layers Perform the following tasks	Map Creation	CO3, CO6	4

		1. Add a North Pointer 2. Add Legend and Scale 3. Add a suitable title with proper formatting. 4. Use a symbol indicating Metro station for one of the railway station.			
--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	3	Create a map of railway route of CST to Panvel including the buildings adjacent to rails. Use google maps to find the layers. There should be minimum five layers. Create dataset for any two layers of the above.	Map creation and Analysis	CO3, CO4	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes, IITB or Heremaps
2		Industrial Visit	GIS Centre of Somaiya College
3	Test and Assessments	Class Tests – (other than IA)	-
4		Mini Projects	Yes
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	-
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	-
11		Students Seminar	-
12		Students Debates	-
13		Panel Discussion / Mock GD	-
14		Mock Interview	-
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	-
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Ujwala Sav

(Sign.)

Ms. Pushpa Mahapatro

(Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



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The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text-books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	Watch former lectures captured in LMS at VSIT
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To gain knowledge about the basics of service management and understand the processes and functions involved in service management.
Affective	What do you want students to think / care about?	How service management can be applied to various types of businesses to meet their requirements and support business activities as mentioned under ITIL
Behavioural	What do you want students to be able to do?	To implement various ideas of how I.T. infrastructure can be setup using ITSM taking guidelines from ITSM and COBIT

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To learn the basics of ITSM, Life Cycle of ITSM and Principles of Service Strategy	Unit 1
CO2	To understand fundamentals of service design, principles, processes, and challenges faced during service design	Unit 2
CO3	To learn and understand fundamentals of service transition, principles, processes, and challenges faced during service transition	Unit 3
CO4	To learn fundamentals of service operations, principles, processes, and challenges faced during service operation	Unit 4
CO5	To gain knowledge about principles, process of Continual Service Improvement and implementation of Continual Service Improvement	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												

CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT606	I.T. Service Management	75	50		2	2		4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USIT606	I.T. Service Management	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	75	10	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3	1.50	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Div B	3	1.50	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Div C	3	1.50	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Div D	3	1.50	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Div E	3	1.50	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Course Academic Administration Plan – USIT606 I.T. Service Management – Semester VI - B.Sc. (I.T.)

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Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A	Wednesday	03:00 p.m. to 04:00 p.m.	Reading Room / MS Teams
Div B	Wednesday	03:00 p.m. to 04:00 p.m.	Reading Room / MS Teams
Div C	Wednesday	03:00 p.m. to 04:00 p.m.	Reading Room / MS Teams
Div D	Wednesday	03:00 p.m. to 04:00 p.m.	Reading Room / MS Teams
Div E	Wednesday	03:00 p.m. to 04:00 p.m.	Reading Room / MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	IT Service Management, Service Strategy	10 L x 60 min = 10 hours	20
2	Service Design Principles, Service Design Processes	07 L x 60 min = 07 hours	20
3	Service Transition, Service Transition Principles, Service Transition Processes	08 L x 60 min = 08 hours	20
4	Service Operation, Service Operation Principles, Service Operation Processes	08 L x 60 min = 08 hours	20
5	Continual Service Improvement (CSI) Principles, CSI Process, Implementing CSI	07 L x 60 min = 07 hours	20
Total		40 hours	100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	B.Sc. I.T. Sem IV	Software Engineering	SDLC, Change Management
2	B.Sc. I.T. Sem V	Software Project Management	Change Management

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	M.Sc. Sem III	Data Center Technologies (Cloud Track)
2	M.Sc. Sem III	Security Measures and Countermeasures (Security Track)
3	M.Sc. Sem IV	Server Virtualization on VMWare Platform (Cloud Track)
4	M.Sc. Sem IV	Information Security Auditing (Security Track)

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Railway Kiosk
2	Airport Kiosk
3	Service Desk
4	Help Desk
5	Contact Centre / Service Centre

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis - N/A

Details	Target - Apr 2022	Apr 2021	Apr 2020	Apr 2019
Course Passing % – Average of 5 Divisions	100	100	100	98.23
Marks Obtained by Course Topper (mark/100)	98	98	95	90

Year	Division A		Division B		Division C		Division D/E	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Apr 2021	MC, BS	100 (Div 1)	MC, BS	100 (Div 2)	MC, BS	100 (Div 3)		
Apr 2020	N.A.	N.A.	BS	100	SC	100	BS	100
Apr 2019	BS	100	SC	94.64	BS	94.44	SC	96.30

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Tools to support CSI	V	Demonstrate the tools used to support CSI activities

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text-Book Titles	Author/s	Publisher	Edition	Module Nos.
1	ITIL v3 Foundation Complete Certification Kit				1, 2, 3, 4, 5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	ITIL v3 Service Strategy		OGC/TSO		1
2	ITIL v3 Service Transition		OGC/TSO		3
3	ITIL v3 Service Operation		OGC/TSO		4
4	ITIL Continual Service Improvement		TSO		5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	ITIL v3 Foundation Complete Certification Kit				1, 2, 3, 4, 5
2	ITIL v3 Service Strategy		OGC/TSO		1
3	ITIL v3 Service Transition		OGC/TSO		3
4	ITIL v3 Service Operation		OGC/TSO		4
5	ITIL Continual Service Improvement		TSO		5

4.d Web Links and Names of Magazines, Journals, E-journals – [VSIT is member of IIT Bombay Library]

Refer online journals subscribed in VSIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.sciencedirect.com/science/article/pii/S0268401213000078 - Implementing IT Service Management: A systematic literature review	https://www.cio.com/article/3228122/what-is-itsm-managing-it-to-serve-business-needs.html - What is ITSM?	1
2	https://www.sciencedirect.com/science/article/abs/pii/S0920548914000786 - Integrating IT service management requirements into the organizational management system	https://fedtechmagazine.com/article/2011/02/itil-ideal - The ITIL Ideal	2
3	https://www.sciencedirect.com/science/article/pii/S0167923614001766 - Decision-making in IT service management: a simulation based approach	https://www.atlassian.com/itsm/service-request-management/help-desk-vs-service-desk-vs-itsm - Service Desk v/s Help Desk	4

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √							Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N		
	Text	Reference	E-Book		Regular	E-Journal				
1	√	√	√	√		√	√		ITIL v3 Foundation Complete Certification Kit ITIL v3 Service Strategy Magazine – What is ITSM? Journal - Implementing IT Service Management: A systematic literature review	
2	√		√				√		ITIL v3 Foundation Complete Certification Kit Magazine - The ITIL Ideal Journal - Integrating IT service management requirements into the organizational management system	
3	√	√	√	√		√	√		ITIL v3 Foundation Complete Certification Kit ITIL v3 Service Transition	

4	√	√	√			√	ITIL v3 Foundation Complete Certification Kit ITIL v3 Service Operation Magazine - The Smart Service Desk Journal - Decision-making in IT service management: a simulation-based approach
5	√	√	√	√		√	ITIL v3 Foundation Complete Certification Kit ITIL Continual Service Improvement

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VSIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Introduction to Service Management (ITIL Training Video) https://www.youtube.com/watch?v=kOwVBm0wv9o	1
2	ITIL, ITSM (Playlist having 39 videos) https://www.youtube.com/watch?v=tQgXWsrtekk&list=PLQHsFjo7oXTVeF5wK1MFwGpcD11bAh7Ru	1-5
3	ITIL Foundation Tutorial https://www.youtube.com/watch?v=HEW74OEzAew	1
4	ITIL Service Design (Playlist having 16 videos) https://www.youtube.com/watch?v=Tbw5z5c-WdA&list=PLP8nt959Gr8Mo0TiKiVFFzknWFe1xxhSO	2
5	ITIL Service Transition (Playlist having 3 videos) https://www.youtube.com/watch?v=Ajl-WaOCOi4&list=PLuV0DHP-AL4H2Idy_09OsA4GNMOo_BP3I	3
6	ITIL Service Operation (Playlist having 9 videos) https://www.youtube.com/watch?v=9Ci0wOafaCM&list=PLuV0DHP-AL4FOFOZAluzMw7f1KYURmE_U	4
7	ITIL Continual Service Improvement (Playlist having 4 videos) https://www.youtube.com/watch?v=NgxqkOe9gE8&list=PLuV0DHP-AL4GX5MyjULgo29VkhUe-AeEg	5
8	ITIL 4 Tutorial for Beginners https://www.youtube.com/watch?v=nRsVb1j9jyo	1
9	ITIL Training Videos https://www.youtube.com/playlist?list=PLEiEAq2VkuUJLGGKcQrKdlaJ0o2xgeQdoa	1-5
10	ITIL Foundation Training (Playlist having 31 videos) https://www.youtube.com/watch?v=g_dVms32mCE&list=PLuV0DHP-AL4G82dDZECHNVanWIAxMAORk	1-5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	ITIL Foundation Course https://www.cybrary.it/course/itil/	Cybrary – Daniel Reilly	4 hours	Y
2	ITIL 4 Foundation https://simplilearn.com/it-service-management/itil-foundation-training/	Simplilearn	16 hours	Y

4.h Recommended Value-Added Courses (VAC) – N.A.

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
-				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	Videos



5.

Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	06/12/2021	02/04/2022	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	ITSM Subject Induction and Syllabus Introduction, The service Life Cycle	Ice-breaker activity	PPT		ITIL v3 Service Strategy Chapter 1, Page 5
	2	1	What is service management? What are services? Business Process, Principles of Service management: Specialisation and Coordination, The agency principle, Encapsulation, Principles of systems		PPT, Video Clip		ITIL v3 Service Strategy Chapter 2, Page 15
	3	1	Service Strategy Principles: Value creation, Service Assets	Flashcard Quiz	PPT, Video Clip		ITIL v3 Service Strategy Chapter 3, Page 31
2	4	1	Service Provider Service Structures, Service Strategy Fundamentals		PPT, Video Clip		ITIL v3 Service Strategy Chapter 3 Page 41
	5	1	Service Strategy: Define the market, Develop the offerings,		PPT, Video Clip		ITIL v3 Service Strategy Chapter 4, Page 65
	6	1	Develop Strategic Assets, Prepare for execution		PPT, Video Clip		ITIL v3 Service Strategy Chapter 4, Page 78
3	7	1	Challenges, Critical Success factors and risks: Complexity, Coordination and Control, Preserving value	Doodling	PPT, Video Clip		ITIL v3 Service Strategy Chapter 9, Page 193
	8	1	Effectiveness in measurement, Risk	Assignment 1 on module 1	PPT		ITIL v3 Service Strategy Chapter 9, Page 197
	9	2	Service Design: Fundamentals, Service Design Principles: Goals, Balanced Design		PPT, Video Clip		ITIL v3 Service Design Chapter 2, Page 13
4	10	2	Identifying Service requirements, Identifying and documenting business requirements and drivers		PPT, Video Clip		ITIL v3 Service Design Chapter 3, Page 27
	11	2	Design activities, Design aspects, Subsequent design activities, Design constraints	Quiz	PPT, Video Clip		ITIL v3 Service Design Chapter 3 Page 29
	12	2	Service oriented architecture, Business Service Management, Service Design Models		PPT, Video Clip		ITIL v3 Service Design Chapter 3, Page 48
5	13	2	Service Design Processes: Service Catalogue Management, Service Level Management	Mind map	PPT, Video Clip		ITIL v3 Service Design Chapter 4, Page 59

	14	2	Capacity Management, Availability Management		PPT, Video Clip	ITIL v3 Service Design Chapter 4, Page 79
	15	2	IT Service Continuity Management, Information Security Management, Supplier Management	Poll	PPT, Video Clip	ITIL v3 Service Design Chapter 4, Page 125
6	16	2	Challenges, Critical Success factors and risks: Challenges, Risks, Viva/ Students' Activity on module 2	Mind map on Module 2	PPT	ITIL v3 Service Design Chapter 9, Page 219
	17	3	Service Transition: Fundamentals, Service Transition Principles: Principles Supporting Service Transition, Policies for Service Transition		PPT, Video Clip	ITIL v3 Service Transition Chapter 2, Page 16
	18	3	Service Transition Processes: Transition planning and support		PPT, Video Clip	ITIL v3 Service Transition Chapter 4, Page 35
7	19	3	Change Management	Student PPT, Viva	Flipped Classroom	ITIL v3 Service Transition Chapter 4, Page 42
	20	3	Service Asset Configuration Management		PPT, Video Clip	ITIL v3 Service Transition Chapter 4, Page 65
	21	3	Service and Deployment Management		PPT, Video Clip	ITIL v3 Service Transition Chapter 4, Page 84
8	22	3	Service Validation and Testing	Minute Paper	Flipped Classroom	ITIL v3 Service Transition Chapter 4, Page 115
	23	3	Evaluation, Knowledge Management		PPT, Video Clip	ITIL v3 Service Transition Chapter 4, Page 138
	24	3	Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks, Service Transition under difficult Conditions, Viva/ Students' Activity on module 3	Pop Quiz on module 3	PPT	ITIL v3 Service Transition Chapter 9, Page 205
9	25	4	Service Operation: Fundamentals, Service Operation Principles: Functions, groups, Teams, departments and division		PPT, Video Clip	ITIL v3 Service Operation Chapter 2, Page 13
	26	4	Achieving balance in service operations, Providing service		PPT, Video Clip	ITIL v3 Service Operation Chapter 3, Page 20
	27	4	Operation staff involvement in service design and service transition, Operational Health, Communication, Documentation	PBL	PPT, Video Clip	ITIL v3 Service Operation Chapter 3, Page 28
10	28	4	Service Operation Processes: Event Management	Case Study	PPT, Video Clip	ITIL v3 Service Operation Chapter 4, Page 35
	29	4	Incident Management, Problem Management		PPT, Video Clip	ITIL v3 Service Operation Chapter 4, Page 46
	30	4	Request fulfilment, Access Management		PPT, Video Clip	ITIL v3 Service Operation Chapter 4, Page 56

11	31	4	Operational activities of processes covered in other lifecycle phases		PPT, Video Clip		ITIL v3 Service Operation Chapter 4, Page 72
	32	4	Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks, Viva/Students' Activity on module 4	THT Activity on module 4	PPT		ITIL v3 Service Operation Chapter 9, Page 171
	33	5	Continual Service Improvement (CSI) Principles: CSI Approach, CSI and organizational change, Ownership, CSI register		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 3, Page 27
12	34	5	External and Internal drivers, Service level management, Knowledge management		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 3, Page 28
	35	5	The Deming cycle, Service Measurement, IT governance, CSI Process: The seven-step improvement process		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 3, Page 29
	36	5	CSI Methods and Techniques: Methods and techniques, Assessments, benchmarking, Service Measurement, Metrics, Return on Investment	Quiz, Interview	PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 5, Page 95
13	37	5	Service reporting, CSI and other service management processes, Organising for CSI: Organisational development, Functions, roles		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 4, Page 65
	38	5	Customer Engagement, Responsibility model - RACI, Competence and training		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 6, Page 129
	39	5	Technology considerations: Tools to support CSI activities, Implementing CSI: Critical Considerations for implementing CSI, The start		PPT, Video Clip		ITIL v3 Continual Service Improvement Chapter 7, Page 145
14	40	5	Governance, CSI and organisational change, Communication Strategy and Plan, Viva/Students' Activity on module 5	Mobile App Based Quiz on module 5	PPT		ITIL v3 Continual Service Improvement Chapter 8, Page 156

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) Specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	1	-	Practical Submission (100 Marks) scaled to 20 Marks Pract Assessment #1 – 10 Marks Final Pract Exam (Mini-Project presentation + Viva) – 20 Marks		-	IA 1 (MCQ) - 30 Marks, IA 2 (MCQ) – 30 Marks Scaled to 15 Marks	-	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Service Strategy & Service Design	CO 1	3 rd week	3 rd week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	5	√			1 & 2	1	1	1	4	1

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	6 th week	1 & 2	CO 1, 2	30 MCQ's – 01 marks each	No IA Re-test
2 nd IA Test	12 th week	3 & 4	CO 3, 4	30 MCQ's – 01 marks each	IA is a Head of passing *
Pop Quiz	8 th week	3	CO 3	25 MCQ's – 01 marks each	
Open Book Test	-	-	-	-	-
Take Home Test	11 th week	4	CO 4	25 MCQ's – 01 marks each	-
Mobile Based App Quiz	14 th week	1	CO 1	10 MCQ's – 01 marks each	
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Introduction to Mobile Application Development using MIT AppInventor	Creating a Project, Designer View and Blocks View, Introducing Palette Components like User Interface, Layout,		4

			Animation and other components, and Methods for execution		
2		Drawing Canvas Application	Understand how canvas application can be made		4
3		Sharing App	Create components for sharing images, videos, and files with other applications		4
4		Accelerometer Sensor	Create an app that shares images using accelerometer		4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Chatting App	Create an application for chatting using cloud database		4
2		Pedometer Sensor	Create a step counting app		4

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Voice-based Search App	Use AI and speech recognition for giving voice-based commands		4
2		Tinkercad Arduino, Thingspeak and MIT App Inventor	Understand how embedded systems, cloud and mobile application interact with each other		4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	√ (Consultant or CA with experience in ISO or Risk Assessment Auditing)
2		Industrial Visit	-
3	Test and Assessments	Class Tests – (other than IA)	-
4		Mini Projects	√
5		Pop Quiz	√
6		Mobile App Based Quiz	√
7		Open Book Test	-
8		Take Home Test	√
9	Collaborative and Group Activity	Poster Presentation	-
10		Minute Papers	√
11		Students Seminar	√
12		Students Debates	-

13		Panel Discussion / Mock GD	-
14		Mock Interview	-
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	-
16		Value Added Courses	-
17		Lecture Capture Usage	√

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)
Ms. Mithila Chavan

Faculty 2 Name (Sign.)
Mr. Bhavesh Shah

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Understand methodology that uses hidden patterns in the data to develop a model that provides increased insight.
Affective	What do you want students to think / care about?	Knowing which attributes have the strongest impact on the model also provides insight into what actions can be taken to reduce the chance of churn.
Behavioural	What do you want students to be able to do?	Students will be able to do predictions based on the given data.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To learn active forms of support for decision making, based on the systematic adoption of mathematical models	Unit 1
CO2	Understand the phases of a data mining process and their objectives and the activities of data preparation	Unit 2
CO3	To understand classification methods like classification trees, Bayesian methods, etc.	Unit 3
CO4	To know applications of data mining to relational marketing, models for salesforce planning, supply chain optimization and analytical methods for performance assessment.	Unit 4
CO5	To know what knowledge management is and how IT helps in building knowledge management.	Unit 5
CO6	To know the basics of expert systems and its applications	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S											
CO 2	M	S										
CO 3			S	M								
CO 4				S								
CO 5	S	M										

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1	S			
CO 2		S		
CO 3		S		
CO 4			S	
CO 5			S	

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT603	BI	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
USIT603	BI	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	75	10	50		150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3.00	1.50	1.50	NA	NA	N.A.	N.A.	N.A.	N.A.
Div B	3.00	1.50	NA	NA	NA	N.A.	N.A.	N.A.	N.A.
Div C	3.00	1.50	NA	NA	NA	N.A.	N.A.	N.A.	N.A.

Div D	3.00	1.50	NA	NA	NA	N.A.	N.A.	N.A.	N.A.
Div E	3.00	1.50	NA	NA	NA	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A	Wednesday	3:00 p.m. – 4:00 p.m.	Reading Room/ MS Teams
Div B	Wednesday	3:00 p.m. – 4:00 p.m.	Reading Room/ MS Teams
Div C	Wednesday	3:00 p.m. – 4:00 p.m.	Reading Room/ MS Teams
Div D	Wednesday	3:00 p.m. – 4:00 p.m.	Reading Room/ MS Teams
Div E	Wednesday	3:00 p.m. – 4:00 p.m.	Reading Room/ MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Business intelligence & Decision support systems	07 + 01	20
2	Mathematical models for decision making, Data mining, Data preparation	08	20
3	Classification & Clustering	13	20
4	Business intelligence applications, Marketing models, Logistic and production models, Data envelopment analysis	05	20
5	Knowledge Management, Artificial Intelligence and Expert Systems	06	20
* Insert rows for more modules in the Course Total		40 lectures X 60 Minutes	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	1	Discrete Mathematics	Binary Trees, Graphs
2	3	Data Structures	Arrays, List, String, Tree, Graphs
3	4	COST	ALL
4	5	Artificial Intelligence	ALL

2.c Relevance to Future Courses

No.	Semester	Name of the Course
-----	----------	--------------------

1	MSc IT Sem I	Data Science
2	MSc IT Sem II	Big Data Analytics

2.d

Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Software Applications used in Banks
2	Using BI in Sales industry, like Flipkart or Amazon etc.
3	Using BI in Business Decision Making like Performance Management etc
4	Using BI in Reporting of staffing, expenses, sales etc
5	BI using a range of data analytical tools to manage the data and represent in visualization tools
6	Business Decision Making/Aviation Industry/ E-commerce, etc.

3.

Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Apr 2022	Apr 2021	Apr 2020	Apr 2019
Course Passing % – Average of 3 Divisions	100	100	100	92.58
Marks Obtained by Course Topper (mark/100)	100	100	100	76 / 100

Year	Division A / 1		Division B / 2		Division C / 3		Division D		Division E	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Apr 2021	HT / SS	100	HT / SS	100	HT / SS	100	NA	NA	NA	NA
Apr 2020	HT	100	SS	100	HT	100	SS	100	HT	100
Apr 2019	HT	94.53	SS	91.07	HT	92.59	SS	94.03	HT	90.74

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Classification	III	Practice more problems
Clustering	III	Practice more problems

4

All the Learning Resources – Books and E-Resources

4.a

List of Textbooks (T – Symbol for Text Books) to be Referred by Students

Sr. No	Textbook Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Intelligence: Data Mining and Optimization for Decision Making	Carlo Verzellis	Wiley	First	1-4
2	Decision support and Business Intelligence Systems	Efraim Turban, Ramesh Sharda, Dursun Delen	Pearson	Ninth	5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Fundamental of Business Intelligence	Grossmann W, Rinderle-Ma	Springer	First	ALL
2					

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author /s	Publisher	Edition	Module Nos.
1	https://radacad.com/online-book-power-bi-from-rookie-to-rockstar	Reza Rad	RADACAD	3	1-5
2	Artificial Intelligence by Example: Develop machine intelligence from scratch	Denis Rothman	Packt	1	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	International Journal of Business Intelligence and Data Mining https://www.inderscience.com/jhome.php?jcode=ijbidm	Name – Data Mining Link - http://analytics-magazine.org/data-mining/	1-5
2	Name – Principles of data mining Link - https://link.springer.com/article/10.2165/00002018-200730070-00010	Name – Mining Magazine Link - https://www.miningmagazine.com/innovation/news/1257536/mining	1-5

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√						Y		Business Intelligence: Data Mining and Optimization for Decision Making, Chapter 1 and 2 , Pg No 3 – Pg No 43
2	√		√				Y		Business Intelligence: Data Mining and Optimization for Decision Making, Chapter 4, 5 and 6, Pg No 65 – Pg No 111
3	√						Y		Business Intelligence: Data Mining and Optimization for Decision Making, Chapter 10 and 12 , Pg

									No 221 – Pg No 275 and Pg No 293 – Pg No 315
4	√							Y	Business Intelligence: Data Mining and Optimization for Decision Making, Chapter 13,14 and 15,, Pg No 319 – Pg No 397
5	√							Y	Decision support and Business Intelligence Systems, Chapter 11 and 12, Pg No 471 – Pg No 506 and Pg No 532 – Pg No 568

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in)	1-5
2	https://www.youtube.com/watch?v=U-hUnxuw7w&list=PLPN-43XehstOe0CxcXaYeLTFpgD2iIuP	1 and 2
3	https://www.youtube.com/watch?v=aiq1dqwmdZU	1
4	https://nptel.ac.in/courses/110106050/	1 and 2
5	https://nptel.ac.in/courses/110107095/	3

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.upgrad.com/blog/business-analytics-free-online-course/	By Upgrade	12 weeks	Y
2	https://www.udemy.com/course/training-in-r-for-business-analytics-a-beginners-guide/	By Analytics17, Udemy	4 weeks	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	-	-	-	-
2	-	-	-	-

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	√	Videos, Merit Batch Questions, Remedial Batch Questions

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	06/12/2021	31/03/2022	12

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Subject Induction	Student discussion	PPT	1	
	2	1	Effective and timely decisions, Data, information and knowledge	Quiz	PPT, Video Lecture	2	Chapter 1/Pg No 3-7/ BI
	3	1	The role of mathematical models, Business intelligence architectures	Diagram	PPT, Group Discussion	3	Chapter 1/Pg No 8-17/ BI
	SS	1	Ethics and business intelligence (SS)	THT	PPT		Chapter 1/Pg No 17-18/ BI
2	4	1	Cycle of a business intelligence analysis, Enabling factors in business intelligence projects, Development of a business intelligence system	Diagram, One-line Questions	PPT	4	Chapter 1/Pg No 8-17/ BI
	5	1	Definition of system, Representation of the decision-making process, Decision making process	Diagram	PPT, Video Lecture	5	Chapter 2/Pg No 21-34/ BI
	6	1	Types of Decision, Approaches to the decision-making process, Evolution of information systems	Features	PPT	6	Chapter 2/Pg No 35-36/ BI
3	7	1	Definition of decision support system,	Define terms	PPT	7	Chapter 2/Pg No 36-40/ BI
	8	1	Development of a decision support system	Diagram	PPT, Group Discussion	8	Chapter 2/Pg No 36-40/ BI
	9	2	Structure of mathematical models, Development of a model	Poll	PPT	9	Chapter 4/Pg No 65-67/ BI
	SS	2	Data mining, classical statistics and OLAP, Applications of data mining		PPT, Flipped Classroom		Chapter 5/Pg No 77-84/ BI
4	10	2	Classes of models	Fill in the blanks	PPT	10	Chapter 4/Pg No 67-75/ BI
	11	2	Representation of input data, Data mining process	Problem Solving	PPT	11	Chapter 5/Pg No 77-84/ BI

	12	2	Analysis methodologies	Poll	PPT	12	Chapter 5/Pg No 90-94/ BI
5	13	2	Data validation, Incomplete data	Quiz	PPT, Video Lecture	13	Chapter 6/Pg No 100-111/ BI
	14	2	Data transformation, Feature extraction	Problem Solving	PPT	14	Chapter 6/Pg No 95-99/ BI
	15	2	Data reduction	Problem Solving	PPT	15	Chapter 6/Pg No 99-100/ BI
6	16	2	Principal Component Analysis, Data Discretization	Problem Solving	PPT, Case Study Problems	16	Chapter 6/Pg No 104-111/ BI
	17	3	Classification problems, Taxonomy of classification models	Viva	PPT	17	Chapter 10 / Pg No 221-226/ BI
	18	3	Evaluation of classification models	Quiz	PPT, Real life examples discussion	18	Chapter 10 / Pg No 226-236/ BI
7	19	3	Classification trees	Case Study Submission	PPT, Case study	19	Chapter 6/Pg No 236-251/ BI
	20	3	Bayesian methods	Quiz	PPT, Real time case	20	Chapter 10 / Pg No 251-257/ BI
	21	3	Logistic regression	Viva	PPT, Real time case	21	Chapter 10 / Pg No 257-258/ BI
8	22	3	Neural networks	Viva	PPT, Real time case	22	Chapter 10 / Pg No 259-262/ BI
	23	3	Multi-layer Feed Forward NN	Viva	PPT, Real time case	23	Chapter 10 / Pg No 259-262/ BI
	24	3	Support vector machines	Problem Solving	PPT Real time case	24	Chapter 10 / Pg No 262-275/ BI
9	25	3	Clustering methods, Taxonomy of clustering methods	Quiz	PPT	25	Chapter 12/ Pg No 293-302/ BI
	26	3	Partition methods	Differentiation	PPT	26	Chapter 12/ Pg No 302-307/ BI

	27	3	Hierarchical methods	Viva	PPT Real time case	27	Chapter 12/ Pg No 307-312/ BI
10	28	3	Evaluation of clustering models	Comparative study	PPT	28	Chapter 12/ Pg No 312-315/ BI
	29	4	Relational marketing	Case Study Submission	PPT, Case study	29	Chapter 13/ Pg No 320-327/ BI
	30	4	An environment for relational marketing analysis, Lifetime value, Effect of latency in predictive models, Web mining	Quiz	PPT	30	Chapter 13/ Pg No 327-338/ BI
11	31	4	Salesforce management		PPT, Real time case	31	Chapter 13/ Pg No 338-360/ BI
	32	4	Supply chain optimization	Viva	PPT	32	Chapter 14/ Pg No 362-363/ BI
	33	4	Optimization models for logistics planning		PPT	33	Chapter 14/ Pg No 364-369/ BI
12	34	4	Revenue management systems, Data envelopment analysis	Case study Submission	PPT, Real time case	34	Chapter 14/ Pg No 370-376/ BI
	SS	4	Efficiency measures	MCQ	PPT		Chapter 15/ Pg No 386-386/ B
	SS	4	Efficient frontier		PPT		Chapter 15/ Pg No 386-386/ BI
	SS	4	The CCR model, Identification of good operating practices	Assignment	PPT, Video Lecture		Chapter 15/ Pg No 386-389/ BI
	35	5	Introduction to Knowledge Management		PPT	35	Chapter 11/ Pg No 474-481/DS & BI
	36	5	Organizational Learning and Transformation		PPT	36	Chapter 11/ Pg No 474-481/DS & BI
13	37	5	Knowledge Management Activities, Approaches to Knowledge Management	Differentiate	PPT, Video Lecture	37	Chapter 11/ Pg No 481-484/DS & BI

	38	5	Information Technology (IT) In Knowledge Management		PPT	38	Chapter 11/ Pg No 485-493/DS & BI
	39	5	Knowledge Management Systems Implementation, Roles of People in Knowledge Management	Viva	PPT	39	Chapter 11/ Pg No 485-497/DS & BI
	SS	5	Concepts and Definitions of Artificial Intelligence		PPT, Group Discussion		Chapter 11/ Pg No 498-509/DS & BI
14	SS	5	Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems	Advantages of Expert Systems	PPT		Chapter 11/ Pg No 498-535/DS & BI
	SS	5	Applications of Expert Systems, Structure of Expert Systems	Applications of ES	PPT		Chapter 12/ Pg No 532-535/DS & BI
	40	5	Knowledge Engineering, Development of Expert Systems	Diagram	PPT	40	Chapter 12/ Pg No 537-545/DS & BI

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	1	-	Practical Submission (100 Marks) scaled to 20 Marks, Practical Assessment #1 – (20 Marks) scaled to 10 Marks, Final Practical Exam (Mini-Project presentation + Viva) – 20 Marks		-	IA 1 (MCQ) - 30 Marks, IA 2 (MCQ) – 30 Marks Scaled to 15 Marks	-	75

7.

Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
----------------	--------------------------------------	--------	----------------------------------	--------------------

1	Mathematical models for decision making, Data mining, Data preparation	2	4th Week	5th Week
2	Business intelligence applications, Marketing models, Logistic and production models, Data envelopment analysis	4	10th Week	11th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Textbook	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	4	✓			2	✓			3	1
2	10	✓			4	✓			3	1

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	8 th week	1,2	1,2	Q1 – 10 Marks Q2 – 10 Marks	No IA Re-test IA is a Head of passing *
2 nd IA Test	-10 th Week	3,4	3,4		
Pop Quiz	3 rd Week	3	1,4	MS Teams	-
Open Book Test	9 th Week	-	3	-	-
Take Home Test	12 th Week	2	5	MS Teams	-
Class tests / prelims					-

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Import the legacy data from different sources such as (Excel, SqlServer, Oracle etc.) and load in the target system. (You can download sample database such as Adventureworks, Northwind, foodmart et	Data Collection	C01	4

2	1	Perform Data Wrangling	Data Preparation	C01	4
3	2	Principal Component Analysis	Data Preparation	C02	4
4	2	Visualizations	Data Visualizations	C02	4
5	3	In Microsoft Excel create the Pivot table and Pivot Chart.	Data Analysis	C03	4
6	3	Apply what – if Analysis for data visualization. Design and generate necessary reports based on the data	Data Prediction	C03	4
7	4	Perform the data classification using classification algorithm	Data Classification	C04	4
8	4	Perform the data clustering using clustering algorithm.	Data Grouping	C04	4
9	4	Perform the Linear regression on the given data	Prediction & Forecasting	C04	4
10	4	Perform the logistic regression on the given data	Classification and Prediction	C04	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Different case studies given to students to perform Principal Component Analysis	Data Preparation	CO2	4
2	2	Different case studies given to students to perform Visualization	Data Visualization	CO2	4

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
-	-	-	-	-	-

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	-
3		Class Tests – (other than IA)	Yes

4	Test and Assessments	Mini Projects	-
5		Pop Quiz	Yes
6		Mobile App Based Quiz	-
7		Open Book Test	Yes
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	-
11		Students Seminar	-
12		Students Debates	-
13		Panel Discussion / Mock GD	-
14		Mock Interview	-
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	Yes
17		Lecture Capture Usage	-

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Sanjeela S

Mr. Hrishikesh T

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Consolidated Academic Administration Plan for the Course
USIT503 Advanced Web Programming – Sem. V –
B.Sc. (Information Technology)– 2021-2022 – Odd Semester
Ms. Ketaki Ghawali, Dr.Sarika Chouhan

Version 2021-4

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To know C# language basics & .NET frame work fundamentals & develop web applications using ASP.NET.
Affective	What do you want students to think / care about?	To understand webform fundamentals & development of ASP.NET applications using styles , themes, ADO.NET ,XML & AJAX.
Behavioural	What do you want students to be able to do?	To develop data driven web applications.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To create console applications using the basic concepts, expressions, various conditional statements and loops of C#.	Unit 1
CO2	To use and implement ASP.NET Form Fundamentals to design webforms.	Unit 2
CO3	To learn and implement the concepts of exception handling & State management.	Unit 3
CO4	To implement database drivers, and design web applications using ADO.NET.	Unit 4
CO5	To develop web applications using XML & AJAX.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												

CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		√					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT503	Advanced Mobile Programming	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
USIT503	Advanced Web Programming	20	20	Scaled to 15+10 Class Participation	75	25	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	1.5	--	--	--	--	--	--	--
B	3	1.5	--	--	--	--	--	--	--
C	3	1.5	--	--	--	--	--	--	--
D	3	1.5	--	--	--	--	--	--	--
E	3	1.5	--	--	--	--	--	--	--

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Wednesday	03:00 -4:00	MS Teams
B	Wednesday	03:00 -4:00	MS Teams
C	Wednesday	03:00 -4:00	MS Teams
D	Wednesday	03:00 -4:00	MS Teams
E	Wednesday	03:00 -4:00	MS Teams

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introducing .NET , C# Languages ,Types ,Objects & Name spaces	08	20
2	Webform Fundamentals & various Webform Controls	10	20
3	Error handling ,Logging & tracing state management ,Style themes & Master pages	08	20
4	ADO.NET Fundamentals ,Data Binding	08	20
5	XML , Security Fundamentals , ASP.NET AJAX	06	20
<i>* Insert rows for more modules in the Course</i>		Total	100
		40 lectures x 60 minutes	

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	II	Web Programming	Web Server, HTML tags
2	II	OOP with C++	Classes and Objects
3	III	DBMS	Insert, update, delete, select queries
4	IV	Core Java	Looping and Conditional Statements

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	V & VI	Project

2	M.Sc – Sem II	Microservice Architecture
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2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Shopping Portal
2	College Websites
3	Student Admission Websites
4	StackOverflow
5	GoDaddy.com
6	Marketwatch.com

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Dec 2020	Dec 2019	Dec 2018
Course Passing % – Average of 5 Divisions	100%	100%	88.04%	86.9%
Marks Obtained by Course Topper (mark/100)	100	100	81	88

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	KAG/SC	100%	KAG/SC	100%	KAG/SC	100%
Dec 2019	SC	94.55%	KAG	89.83%	SC	82.54%
Dec 2018	SC	87.30%	KAG	77.19%	SC	92.72%
Year	Division D		Division E			
	Initials of Teacher	% Result	Initials of Teacher	% Result		
Dec 2020	KAG/SC	100%	KAG/SC	100%		
Dec 2019	KAG	88.52%	KAG	85.71%		
Dec 2018	KAG	85.24%	KAG	90%		

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
ADO.NET	4	Give more problem statements to solve



4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Beginning with ASP.NET 4.5 in C#	Mathew MacDonald	APress	2012	1.2.3.4.5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	C# 2015	Murach	Murach	Third	3,4
2	Murach's ASP .NET 4.6	Anne Boehm	SPD	Sixth	5
3	ASP.NET 4.0 Programming	J.Ranjilal	Tata Mcgrow	2011	4
4	Programming ASP .NET	D.Esopite	Preamtech	2011	3
5	Beginning Visual C#	K.Watson	Wrox	2011	1

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Beginning with ASP.NET 4.5 in C#	Mathew MacDonald	APress	2012	1.2.3.4.5
2	C# 2015	Murach	Murach	Third	3,4
3	Murach's ASP .NET 4.6	Anne Boehm	SPD	Sixth	5
4	ASP.NET 4.0 Programming	J.Ranjilal	Tata Mcgrow	2011	4
5	Programming ASP .NET	D.Esopite	Preamtech	2011	3
6	Beginning Visual C#	K.Watson	Wrox	2011	1

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	.Net Developer's Journal – dotnet.sys-con.com	Visual Studio Magazine - visualstudiomagazine.com	II, III, IV
2	Live Journal - aspdotnet.livejournal.com	MSDN Magazine - msdn.microsoft.com	III, IV ,V
3	Rock Paper Web Technical Journal by AccuTech International - rockpaperweb.com/category/asp.net	Web Development Tutorials - dotnetcurry.com	II, V

4.e

Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√	√	√				√		Beginning ASP.NET 4.5 in c# Beginning Visual C# -Chp 1 to 10
2	√	√	√				√		Beginning ASP.NET 4.5 in C# - 4,5,6,9 Murach Chapter 4 to 6 -10,11,13
3	√	√	√				√		Beginning ASP.Net4.5 in C# -7, 8 ,12 Murach -5 ,8, 9,11
4	√	√	√				√		Beginning ASP.Net4.5 in C# - 14,15,16 Murach -14,15
5	√	√	√				√		Beginning ASP.Net4.5 in C# - 18, 19 ,25 Murach -21 ,18

4.f

Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	VREFER	1-5
2	www.w3schools.com/cs/index.php	1-5
3	www.asp.net-tutorials.com	1-5
4	www.msd.microsoft.com	1-5
5	www.tutorialspoint.com/asp.net/index.htm	1-5
6	www.mva.microsoft.com	1-5
7	Insert Update Delete and View With Sql Server Database https://www.youtube.com/watch?v=CtDE9gTwmyo	4
8	Master Pages https://www.youtube.com/watch?v=lzlwDPC7pk	3

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	mva.microsoft.com/en-us/training-courses/asp-net.core-beginner	Microsoft virtual academy	3hrs	Y
2	https://www.udemy.com/course/csharp-tutorial-for-beginners/	Udemy	6hrs	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
-	-	-	-	-

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	√	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	21/06/2021		14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Induction Introducing .NET: The .NET Framework, C#, VB, and the .NET Languages	Quiz, Poll	Powerpoint, Video clip		Ch1
	2	1	The Common Language Runtime, The .NET Class Library, The C# Language: C# Language Basics, Variables, Variable Operations	Quiz	Powerpoint, Simulation		Ch2

	3	1	Object-Based Manipulation, Methods Types, Objects, and Namespaces: The Basics About Classes	Quiz, Video Lesson	Powerpoint, Simulation		Ch2, 3
2	4	1	Building a Basic Class, Value Types and Reference Types	Fill in the blanks, Quiz	Powerpoint, Simulation		Ch3
	5	1	Understanding Namespaces and Assemblies	Quiz	Powerpoint, Simulation		Ch3
	6	1	Advanced Class Programming.	Quiz	Powerpoint, Simulation		Ch3
	Self – Study		Data Types, Conditional Logic, Loops				
3	7	1	Advanced Class Programming.	THT, Unit Test	Powerpoint, Simulation		Ch3
	8	1	Viva/ Students’ Activity on Unit 1	Viva			
	9	2	Web Form Fundamentals: Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application	Quiz	Powerpoint, Simulation		Ch4, Ch5
4	10	2	Introducing Server Controls, Using the Page Class,	Quiz	Powerpoint, Simulation		Ch5
	11	2	Using Application Events,	Quiz	Powerpoint, Simulation		Ch5
	12	2	Form Controls: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls	Quiz	Powerpoint, Simulation		Ch6
5	13	2	Web Control Events and AutoPostBack, Validation, Understanding Validation	Quiz	Powerpoint, Simulation		Ch6
	14	2	Using the Validation Controls, Rich Controls, The Calendar, The AdRotator,	Quiz	Powerpoint, Simulation		Ch9,10

	15	2	Pages with Multiple Views, User Controls and Graphics,	Quiz, Poll	Powerpoint, Simulation		Ch10
6	16	2	User Controls, Dynamic Graphics, The Chart Control	Quiz, Video Lesson	Powerpoint, Simulation		Ch11
	17	2	Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control,	Quiz, Poll	Powerpoint, Simulation		Ch13
	18	2	The TreeView Control, The Menu Control. Viva/ Students' Activity on Unit 2	Unit Test2	Powerpoint, Simulation		Ch13
	Self – Study		Writing Code, Using the Code-Behind Class, Configuring an ASP.NET Application.				Ch5
7	19	3	Error Handling, Logging, and Tracing: Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions	Fill in the blanks	Powerpoint, Simulation		Ch7
	20	3	Using Page Tracing State Management: Understanding the Problem of State, Using View State	Quiz	Powerpoint, Simulation		Ch7, 8
	21	3	Transferring Information Between Pages, Using Cookies	Quiz, OBT	Powerpoint, Simulation		Ch8
8	22	3	Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options	Quiz	Powerpoint, Simulation		Ch8
	23	3	Styles, Themes, and Master Pages: Themes, Master Page Basics	Quiz	Powerpoint, Simulation, Flipped Classroom		Ch12
	24	3	Avoiding Common Errors,	Quiz	Powerpoint, Simulation		Ch7
9	25	3	Advanced Master Pages	Quiz	Powerpoint, Simulation		Ch12
	26	3	Viva/ Students' Activity on Unit 3	Unit Test 3	Powerpoint		

	Self – Study		Stylesheets and its types				Ch12
	27	4	ADO.NET Fundamentals: Configuring Your Database, Understanding the Data Provider Model,	Quiz	Powerpoint, Simulation		Ch14
	28	4	Using Direct Data Access, Using Disconnected Data Access.	Puzzle	Powerpoint, Simulation		Ch14
10	29	4	Data Binding: Introducing Data Binding, Using Single-Value Data Binding,	Identify Errors	Powerpoint, Simulation		Ch15
	30	4	Using Repeated-Value Data Binding,	Quiz, Poll	Powerpoint, Simulation		Ch15
	31	4	Working with Data Source Controls,	Quiz	Powerpoint, Simulation		Ch15
11	32	4	The Data Controls: The GridView, Formatting the GridView, Selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView	Identify the output	Powerpoint, Simulation		Ch16
	33	4	Using GridView Templates,	Quiz	Powerpoint, Simulation		Ch16
	34	4	DetailsView, FormView, Viva/ Students' Activity on Unit 4	Unit Test 4	Powerpoint, Simulation		Ch16
12	Self – Study		Understanding SQL Basics, Understanding Databases				Ch 14
	35	5	XML: XML Explained, The XML Classes, XML Validation	Quiz	Powerpoint, Simulation		Ch18
	36	5	XML Display and Transforms	Quiz	Powerpoint, Simulation		Ch18
13	37	5	Security Fundamentals: Authentication and Authorization, Forms Authentication,	Spin the wheel	Powerpoint, Simulation		Ch19

	38	5	Windows Authentication. ASP.NET AJAX: Understanding Ajax, Using Partial Refreshes,	Find the Errors	Powerpoint, Simulation		Ch19, 25
	39	5	Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	Quiz	Powerpoint, Simulation		Ch25
14	40	5	Viva/ Students' Activity on Unit 5	Unit Test 5			
	Self – Study		Understanding Security Requirements, Using Progress Notification				Ch25

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active participation – 10 marks	1	-	Practical Submission (100 Marks) scaled to 20 Marks, Practical Assessment #1 – 10 Marks, Final Practical Exam (Case Study Presentation + Viva) – 20 Marks		-	IA 1 (Descriptive) – 20 Marks, IA 2(MCQ + Viva) – 20 Marks Scaled to 15 Marks	-	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Introduction to .NET, C# Language, Types, Objects, Namespaces	CO 1	Week 2	Week 3
2	Web Form Fundamentals & Various Web Form Controls	CO 2	Week 4	Week 5
3	Error Handling, Logging & Tracing, State Management, Styles, Themes & Master Pages	CO 3	Week 6	Week 7

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓	✓		1	1	6	1	✓	✓
2	5	✓	✓		2	1			✓	✓
3	8	✓			3	1	2,5	2	✓	

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	8 th Week	1,2	1,2	IA 1 (Descriptive 20M) (Scaled to 7.5)	No IA Re-test
2 nd IA Test	12 th Week	3,4	3,4	IA 2 (MCQ 20M) (Scaled to 7.5)	IA is a Head of passing *
Pop Quiz					
Open Book Test	7 th week	3	3	2 questions – 10 marks	
Take Home Test	3 rd week	1	1	10 MCQ's – 01 marks each	
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester



9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Basic C# Programs	Basic	CO1	4
2	1	Looping statements, static functions	Basic	CO1	4
3	1	Implementation of constructors and properties	OOP	CO1	4
4	1	Implementing interfaces, delegates and events	OOP, Event Handling	CO1	4
5	2	ASP.NET Server Controls, Calendar Control	Web Controls	CO2	4
6	2	AdRotator Control, User Controls, State Management	Web server Controls, User Controls, State Management	CO2, CO3	4
7	4	Working with database	ADO.NET	CO4	4
8	5	Working with AJAX & XML	AJAX/XML	CO5	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2	Write a program to create & use DLL to convert a given string to upper case & lower case	DLL, namespaces	CO2	4

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	2,3,4	Develop a website to implement any real time scenario	Web Form Controls, Navigation Controls, Validation Controls, master page, ADO.NET	2,3,4	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Guest lecture on Building Microservices with ASP.NET Core
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes, Unit Test after every Unit
4		Mini Projects	Yes, Week 12, All Modules
5		Pop Quiz	
6		Mobile App Based Quiz	
7		Open Book Test	Yes, Week 10, Module 4
8		Take Home Test	Yes, Week 12, Module 5
9	Collaborative and Group Activity	Poster Presentation	Yes, Week 4, Modules 1-3
10		Minute Papers	Yes
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes, Module 1
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)

Dr Sarika Chouhan

Faculty 2 Name (Sign.)

Ms. Ketaki Ghawali

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	Watch former lectures captured in LMS at VSIT
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Python can be used to develop prototypes quickly because it is easy to work. Students can gain knowledge about Python programming syntax and semantics to write programs and use concepts such as IPython architecture for Python. Make use of data Science Tools and plot data using appropriate Python visualization libraries
Affective	What do you want students to think / care about?	Understand the fundamentals of Procedural Oriented and object-oriented programming in python. Its different features like Simplicity, understand its Huge Community, Libraries and Frameworks.
Behavioural	What do you want students to be able to do?	Build small applications that have front end as Python and backend as MySQL, Use of Packages and Frameworks. Students can use Python to build productivity tools, games as it is easy to use, powerful, versatile, making it a great choice for beginners.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To develop small applications using basic concepts, values & expressions, various control & conditional statements and Looping.	Unit 1
CO2	To use and implement built-in functions and User defined Functions along with different sting methods.	Unit 2
CO3	To use new datatypes such as Lists and dictionaries, Implement use of regular expression, use of date and time module	Unit 3
CO4	To become Proficient in using IPython architecture for Data Science Applications	Unit 4
CO5	To gain Knowledge about use of various data science tools such as data manipulation with Pandas and data visualization with Matplotlib	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		√					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS102	Introduction to Programming	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
USDS102	Introduction to Programming	30	30	Scaled to 15 + 10 class participation	75	25	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
FYDS	4.00	2.00	2.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Course Academic Administration Plan – USIT301 Python Programming – Semester III- B.Sc. (Information Technology) Page | 2

Daxelke
Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Institute of Technology
Educational Campus, Vazele (E)
Kumbhar - 400007



Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
FYDS	Tuesday	3:00 pm to 4:00 pm	Reading Room

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Python Language	9	20
2	Functions , Operators, Arrays, Strings	13	20
3	Lists , Tuples and Dictionaries , Regular Expressions, Date and Time module	9	20
4	Ipython, Introduction to NumPy	8	20
5	Data Manipulation with Pandas, Visualization with Matplotlib	9	20
* Insert rows for more modules in the Course		Total	48
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
	NA	NA	NA

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	Sem II	R Programming
2	Sem III	Data Structures and Algorithms using Python
3	Sem III	Data Warehousing and Mining
4	Sem IV	Big Data
5	Sem V	Machine Learning
6	Sem VI	Business Forecasting

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
-----	-----------------------------------------------

1	Youtube video sharing service is largely written in Python.
2	Google makes extensive use of Python in its search engines.
3	Dropbox storage service codes both its server and desktop client service mostly in Python.
4	Bit Torrent peer to peer file sharing system started with Python Program.
5	NASA use Python for scientific Programming tasks
6	Netflix and yelp both uses Python in their software infrastructures

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – Dec 2022	Dec 2021	Dec 2020	Dec 2019	Dec 2018	Dec 2017
Course Passing % – Average of 3 Divisions	95 %	100%	NA	NA	NA	NA
Marks Obtained by Course Topper (Marks/100)	80	90	NA	NA	NA	NA

Year	Division A		Division B		Division C		Division D		Division E		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2021	RP	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Regular Expression	3	More Practice with Examples

4 All the Learning Resources – Books and E-Resources

4.a List of Textbooks (T – Symbol for Textbooks) to be Referred by Students

Sr. No	Textbook Titles	Author/s	Publisher	Edition	Module Nos.
	NA	NA	NA	NA	NA

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Programming through Python	M. T. Savaliya, R.K Maurya, G.M Magar	Staredu Solutions	1	1,2,3
2	Python Data Science Handbook	Jake VanderPlas	O'Reilly Media	1	4,5

3	Let Us Python	Y. Kanetkar,	BPB	1	1,2,3
4	Programming in Python 3	Mark Summerfield	Pearson Education	2	1,2
5	Learning Python	Lutz M	O'Reilly Shroff	5	1,2,3
6	Beginning Python	Magnus Lie Hetland	Apress	2	1,2,3
7	Star Python	Star Certification	Star Certification	1	-

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Think Python	Allen Downey.	O'Reilly	1st	1
2	An Introduction to Computer Science using Python 3	Jason Montojo, Jennifer Campbell, Paul Gries	SPD	1st	2
3	Python GUI Programming Cookbook	Burkhard A. Meier	Packt	3rd	5
4	Python Cookbook	Alex Martelli	O'Reilly	2nd	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	RaspyLab: A Low-Cost Remote Laboratory to Learn Programming and Physical Computing Through Python and Raspberry Pi https://ieeexplore.ieee.org/document/9755990	Code Magazines- https://www.codemag.com/Magazine/ByCategory/Python	1
2	Python Testing with pytest: Fixtures and Coverage - https://www.linuxjournal.com/content/python-testing-pytest-fixtures-and-coverage	Python Weekly- http://www.pythonweekly.com/	2
3	Python Standards- https://docs.python.org/3/library/	The MagPi- https://www.raspberrypi.org/magpi/best-reads-python-programming/	3
4	NDLI- http://ndli.iitkgp.ac.in/document/OEYweXpIRmIkYURkM3JkbUdtKy9UWHZrazNPQ1I5bE1hZ2VFb0ZsenNpd2RvVys5NUowVDA5ZXRQkVjK2YxdnNSczBmUUU4OW1aMjlyNHg2b	Easier python paths with pathlib	4,5

FRrbkE9PQ	https://www.linuxjournal.com/content/easier-python-paths-pathlib
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4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e., Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		√	√		√		Y		Let us Python chap 1 pg 1- 7, chap 2 pg 9-15, chap 5 pg 55-65, chap 7 pg 81-88,
2		√	√	√			Y		Let us Python chap 3 pg 17- 37, chap 4 pg 39-52, chap 13 pg 157-173
3		√	√	√	√		Y		Let us Python chap 8 pg 91- 105, chap 9 pg 109-119, chap 11 pg 131-141
4		√					Y		Python Data Science Handbook chap 1 pg 1- 31, chap 2 pg 33-96
5		√			√		Y		Python Data Science Handbook chap 3 pg 97- 215, chap 4 pg 217-330

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	V-Refer	1-5
2	www.python.org	2
3	www.learnpython.com	3
4	https://Python-course.eu	5
5	https://developers.google.com/edu/python/	1-4
6	https://realpython.com/python	5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Spoken Tutorial – Python	IIT, Bombay	25 Hrs.	Y
2	The Joy of Computing using Python By Prof. Sudarshan Iyengar, Prof. Yayati Gupta https://onlinecourses.nptel.ac.in/noc21_cs75/preview	IIT Ropar	12 weeks	Y

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4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Data Science with Python	ExcelR	45 hrs	y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

From (date/month/year)			To (date/month/year)			Total Number of Weeks	
June 2022			Sep 2022			12 weeks	
Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Subject Induction Introduction to Python Language: Overview, Features of Python, Execution of a Python Program, Innards of Python,	Quiz	Power Point, Video clips	1	Ref 1/1/3
1	2	1	Frozen Binaries, Python Interpreter, Comparison of Python with C and Java, Installing Python, Writing & Executing, IDLE		Power Point	2	Ref 1/4/3
1	3	1	Data Types, Variables And Other Basic Elements: Comments, Docstrings, Data types- Numeric,	Poll	Power Point	3	Ref 3/19/3

	SS	1	Compound, Boolean, Dictionary, Sets, Mapping, Basic Elements of Python, Variables		Power Point	SS	Ref 3/19/3
1	4	1	Input and Output Operations: Input Function, Output Statements, Command Line Arguments	Puzzle game	Power Point Video clips	4	Ref 7/81/3
2	5	1	Control Statements: Control Statements- Loop Statement		Power Point	5	Ref 6/69/3
2	6	1	The else Suite,	Finding the syntax game	Power Point	6	Ref 5/55/3
2	7	1	break Statement, continue Statement, pass statement,	Predicting the output	Power Point	7	Ref 6/73/3
	SS	1	Assert Statement, return Statement		Power Point	SS	Ref 6/74/3
2	8	1	Viva/ Students' Activity on Unit I		Written Assignment 1	8	
3	9	1	Viva/ Students' Activity on Unit I		Written Assignment 1	9	
3	10	2	Functions: Defining & Calling a Function, Returning Results, Returning Multiple Values		Power Point,	10	Ref 13 /157/3
3	11	2	Built-in Functions, Parameters and Arguments,		Power Point, Video clips	11	Ref 13 /160/3
3	12	2	Recursive Functions,	PBL	Power Point,	12	Ref 13 /167/3
	SS	2	Anonymous or Lambda Functions		Power Point	SS	Ref 13 /173/3
4	13	2	Operators: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators	Crossword	Power Point, Video clips	13	Ref 3/20/3
4	14	2	Logical operators, Bitwise operators, Membership operators, Identity operators		Power Point	14	Ref 3/30/3

4	15	2	Precedence of Operators, Associativity of Operators	Viva	Power Point	15	Ref 3/40/3
4	16	2	Arrays: Creating Arrays, Indexing and Slicing, Basic Array Operations,		Power Point, Flipped classroom	16	Ref 3/45/3
5	17	2	Arrays Processing, Mathematical Operations on Array, Aliasing Arrays	Viva	Power Point	17	Ref 3/45/3
5	18	2	Slicing and Indexing in NumPy Arrays, Basic Slicing. Advanced Indexing. Dimensions of Arrays, Attributes of an Array	PBL	Power Point	18	Ref 3/45/3
5	19	2	Strings: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing & Slicing, Repeating & Concatenation of Strings, Checking Membership, Comparing Strings,	POP Quiz	Power Point	19	Ref 4/39/3
5	20	2	Removing Spaces, Finding Substrings, Counting Substrings, Strings are Immutable, Splitting and Joining Strings, Changing Case, Checking Starting and Ending of a String,	Spin the Wheel game	Power Point, Video clips	20	Ref 4/39/3
	SS	2	Sorting & Searching in the Strings, Formatting the Strings, Working with Characters		Power Point	SS	Ref 4/39/3
6	21	2	Viva/ Students' Activity on Unit II		Written Assignment 2	21	
6	22	2	Viva/ Students' Activity on Unit II		Written Assignment 2	22	
6	23	3	Lists and Tuples: Lists, List Functions and Methods, List Operations, Tuples	Pop Quiz	Power Point	23	Ref 8/91/3
6	24	3	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods		Power Point, Video clips	24	Ref 11/131/3

7	25	3	Using for Loop with Dictionaries, Operations on Dictionaries, Ordered Dictionaries	Viva	Power Point	25	Ref 11/131/3
7	26	3	Regular Expressions: What is a Regular Expression? Sequence Characters in Regular Expressions, Quantifiers in Regular Expressions, Special Characters in Regular Expressions,	v-lab	Power Point, https://python-iitk.vlabs.ac.in/	26	Ref 11/131/3
7	27	3	Using Regular Expression on Files, Retrieving Information from an HTML File		Power Point,	27	Ref 11/131/3
7	28	3	Date and Time in Python: Date and Time, Date and Time Now, Combining Date and Time,		Power Point	28	Ref 11/131/3
8	29	3	Formatting Dates and Times, Finding Durations using "timedelta",	Pop Quiz	Power Point	29	Ref 11/131/3
	SS	3	Comparing Two Dates, Sorting Dates, Stopping Execution Temporarily,		Power Point,	SS	Ref 11/131/3
	SS	3	Knowing the Time taken by a Program, Working with Calendar Module		Power Point,	SS	Ref 11/131/3
8	30	3	Viva/ Students' Activity on Unit III		Quiz	30	
8	31	3	Viva/ Students' Activity on Unit III		Quiz	31	
8	32	4	IPython: Beyond Normal Python, Help and Documentation in IPython,		Power Point	32	Ref1/1/2
9	33	4	Keyboard Shortcuts in the IPython Shell, IPython Magic Commands,	Spin the wheel game	Power Point Video Clips,	33	Ref1/8/2
9	34	4	Input and Output History, IPython and Shell Commands, Errors and Debugging, Profiling and Timing Code		Power Point,	34	Ref 1/13/2

9	35	4	Introduction to NumPy: Understanding Data Types in Python, The Basics of NumPy Arrays,		Power Point,	35	Ref 2/33/2
9	36	4	Computation on NumPy Arrays: Universal Functions, Aggregations: Min, Max, and Everything In Between	Testing the logic of the student through decode game	Power Point	36	Ref 2/50/2
	SS	4	Computation on Arrays: Broadcasting, Comparisons,		Power Point, Video clip	SS	Ref 2/63/2
	SS	4	Masks, and Boolean Logic, Fancy Indexing,		Power Point	SS	Ref 2/70/2
10	37	4	Sorting Arrays, Structured Data: NumPy's Structured Arrays		Power Point	37	Ref 2/85/2
10	38	4	Viva/ Students' Activity on Unit IV	OBT		38	
10	39	4	Viva/ Students' Activity on Unit IV	OBT		39	
10	40	5	Data Manipulation with Pandas: Introducing Pandas Objects, Data Indexing and Selection,		Power Point, Video clip	40	Ref 3/97/2
11	41	5	Operating on Data in Pandas, Handling Missing Data, Hierarchical Indexing	PBL	Power Point,	41	Ref 3/115/2
11	42	5	Combining Datasets: Concat and Append, Combining Datasets: Merge and Join, Aggregation and Grouping, Pivot Tables,		Power Point,	42	Ref 3/141/2
	SS	5	Vectorized String Operations,		Power Point	SS	Ref 3/178/2
11	43	5	Working with Time Series. High-Performance Pandas: eval() and query()		Power Point	43	Ref 3/188/2
11	44	5	Visualization with Matplotlib: Simple Line Plots, Simple Scatter	THA	Power Point,	44	Ref 4/217/2

			Plots, Visualizing Errors, Density and Contour Plots, Histograms, Binnings, and Density				
12	45	5	Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Customizing Ticks, Customizing Matplotlib:		Power Point,	45	Ref 4/249/2
12	46	5	Configurations and Stylesheets, Three-Dimensional Plotting in Matplotlib, Geographic Data with Basemap,	Mini Project	Power Point, Video clip	46	Ref 4/282/2
	SS	5	Visualization with Seaborn		Power Point	SS	Ref 4/311/2
12	47	5	Viva/ Students' Activity on Unit V	Group Presentation		47	
12	48	5	Viva/ Students' Activity on Unit V	Group Presentation		48	

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	2	-	40 +5 Viva	5		IA 1 (Descriptive) - 30 Marks, IA 2 (MCQ) – 30 Marks Scaled to 15 Marks	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Conditional and control Statements	1	Week 3	Week 4
2	Operators, Strings, Functions	2	Week 6	Week 7

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓	✓		1	1	R1& R3	-	4	4
2	6	✓	✓		2	1	R1& R3	-	4	4

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 th week	1-2	1-2	Q1-15 Marks Q2-15 Marks	No IA Re-test
2 nd IA Test	12 th week	3,5	3,5		IA is a Head of passing *
POP Quiz	4 th week	2	2		
Open Book Test	12 th week	4	4	4 questions -20 Marks	

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Introduction to Python Language a. Write a Python program to explore various data types including numeric types, Boolean types and compound types. b. Write a Python program to perform Input and Output Operations. c. Write a Python program to demonstrate looping in python and use of break statement and continue statement	Input/Output Loops	1	4
2	2	Functions a. Write a Python program to define and use functions b. Write a Python program to demonstrate the use of Built-in Functions. c. Write a Python Program to implement Lambda Functions.	Functions	2	4
3	2,3	Arrays and String	Arrays, data types, strings		4

		a. Write a Python Program to implement arrays for storing homogeneous data items. Apply indexing and slicing operations to access elements of array. b. Write a Python Program to demonstrate operations and properties of string data types. c. Write a Python Program implement and demonstrate the use of Membership operators and Identity operators d. Write a Python Program to implement Numpy for handling multidimensional arrays.		2, 3	
4	3	List and Tuples a. Write a Python Program to create list, apply various functions to it. b. Write a Python Program to demonstrate concept of aliasing and cloning. c. Write a Python Program to implement tuples for storing data. Verify the immutability property on tuples.	List, Tuples	3	4
5	3	Dictionaries and Sets a. Write a Python Program to implement Dictionary and operations on dictionaries b. Write a Python Program to create sets and various operations on it.	Dictionary	3	4
6	3	Regular Expressions a. Write a Python Program for implementing various methods for searching and replacing operations. b. Write a Python Program for Retrieving Information from an HTML File	Regular Expressions	3	4
7	3	Date and Time a. Write a Python Program to compare dates and implement calendar module	Date and Time	3	4
8	4	Using IPython a. Using IPython and Jupyter notebook b. Debugging errors in IPython.	IPython	4	4
9	4	Using the NumPy Package a. Programs using NumPy Package and different functions available in it.	NumPy	4	4
10	5	Using the pandas package a. Programs using Pandas Package and different functions available in it.	pandas	5	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	3	A) Write a Python script to sort (ascending and descending) a dictionary by value. A) Write a program that takes two lists and returns True if they have at least one common member.	List, Dictionary	3	4

9.c**Practical Activities – PBL Experiments**

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
9	5	Case Study On Finding Number of days in a Month	Loops, data types	C03	4

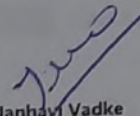


10. Beyond Syllabus Activities for Gap Mitigation

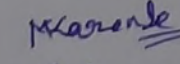
No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	-
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	Yes
5		Pop Quiz	Yes
6		Mobile App Based Quiz	-
7		Open Book Test	Yes
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	-
10		Minute Papers	-
11		Students Seminar	-
12		Students Debates	-
13		Panel Discussion / Mock GD	Yes
14	Co-curricular Courses	Mock Interview	-
15		MOOC-NPTEL/Coursera Videos	-
16		Value Added Courses	Yes
17		Lecture Capture Usage	-

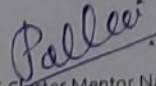
* Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.

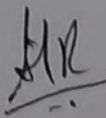
Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)


Janhavi Vadke

Faculty 1 Name (Sign.)


Milind Karand
External Industry Mentor (Sign.)


Dr. Pallavi Tawde
VSIT Cluster Mentor Name (Sign.)
Course Academic Administration Plan – USIT301 Python Programming – Semester III- B.Sc. (Information Technology) Page 15


Asst. Prof. Asit Rampurawala
Head of Dept. (Sign.)
P a g e 15

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To understand the imperative implementation of algorithm and use concepts such as variables, conditional and iterative statements, execution of functions and convert algorithms into programs.
Affective	What do you want students to think / care about?	To understand the fundamentals of C language, including array, pointers, functions, structures and unions.
Behavioural	What do you want students to be able to do?	To use programming concepts and choose among alternative ways to express the programming knowledge.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand the logic building by using pseudo code, algorithm and flowchart	1
CO2	To learn and demonstrate the use different Operators, Expressions, Data Input and output functions in C programming.	2
CO3	To apply conditional, looping statement and functions in various problems.	3

CO4	To understand how to use Arrays and different storage classes	4
CO5	To demonstrate the concept of pointers and implement various real-life applications by using structure and union	5
CO6	To develop confidence for self-education and skills required for computer language.	1-5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT101	Imperative Programming	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
USIT101	Imperative Programming	20	20	Scaled to 15 +10 class participation	75	25	50		150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--
B	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--
C	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--
D	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--
E	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--
F	3.00	1.5	1.5	N.A.	N.A.	--	--	--	--

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Monday	3.00 pm – 4.00 pm	MS Teams
B	Monday	3.00 pm – 4.00 pm	MS Teams
C	Monday	3.00 pm – 4.00 pm	MS Teams
D	Monday	3.00 pm – 4.00 pm	MS Teams
E	Monday	3.00 pm – 4.00 pm	MS Teams
F	Monday	3.00 pm – 4.00 pm	MS Teams

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Programming languages, Fundamentals of C.	08	20
2	Operators and Expressions, Data Input and output	06	20
3	Conditional Statements and Loops, Functions	08	20
4	Program structure, Preprocessor, Arrays	08	20
5	Pointers , Structures and Unions:	10	20
* Insert rows for more modules in the Course Total		40	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	HSC	Mathematics and Statistics, I.T.	Mathematics and Logic

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	II	Object Oriented Programming, Web Programming
2	III	Python Programming
3	IV	Core Java
4	V	Advanced Web Programming, Enterprise java, Project
5	VI	Project



2.d**Real Life Application Mapping – Mention Application from Very Common Day to Day Life**

No.	Real Life Application Mapping with the Course
1	Embedded c app
2	Management Information System
3	Customer Management System
4	Computational Platforms
5	GUI based applications
6	Games Application
7	System software Development like operating system and Compiler.

3.**Past Results – Division-Wise and Topic-Wise Result Based Analysis**

Details	Target - Dec 2021	Dec 2020	Dec 2019	Dec 2018	Dec 2017	Dec 2016
Course Passing % – Average of 6 Divisions	100%	98.29	92.88	94%	83.28%	80%
Marks Obtained by Course Topper (mark/100)	100	100	100	95	94	98

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	AAJ, ACJ	96.61	AAJ, ACJ	96.55	AAJ, ACJ	98.33
Dec 2019	ACJ	94.33	AAJ	93.22	ACJ	96.43
Dec 2018	NDP	98.14	NDP	93.44	ACJ	89.28
Dec 2017	SBB	93.33	ACJ	85.19	ACJ	80.65
Dec 2016	NDP	88.14	SBB	91.07	BVK	81.03
Year	Division D		Division E		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	AAJ, ACJ	100	AAJ, ACJ	-	AAJ, ACJ	100
Dec 2019	AAJ	91.23	ACJ	86.96	AR	94.87
Dec 2018	ACJ	89.83	SK	96.29	SK	100
Dec 2017	ACJ	79.03	VPD	81.82	VPD	77.78
Dec 2016	ACJ	70.91	SBB	66.13	MS	86.67

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Arrays	IV	More Programs to be solved using the concept of arrays
Pointers	V	Animated Videos to be used as teaching aids
Structure and Union	V	Real time Entity should be explained and converted into Structure and Union

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Programming with C	Byron Gottfried	Tata McGRAW-Hill	2nd	Unit I to V

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Programming Logic and Design	Joyce Farell	Cengage Learning	8th	Unit I
2	“C” Programming”	Brian W. Kernighan and Denis M. Ritchie.	PHI	2nd	Unit II to V
3	Let us C	Yashwant P. Kanetkar,	BPB publication	Let us C	Unit II to V
4	C for beginners	Madhusudan Mothe	X-Team Series	1st	Unit II and III
5	21st Century C	Ben Klemens	OReilly	1st	Unit IV and V

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Programming with C http://bit.ly/programming_with_C	Byron Gottfried	Tata McGRAW-Hill	2nd	Unit I to V
2	Programming in Ansi C http://bit.ly/Prog_C_Balgurusamy	Balgurusamy	Tata McGRAW-Hill	3rd	Unit I to V
3	Programming Logic and Design	Joyce Farell	Cengage Learning	8th	Unit I

4.d**Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]**

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	STMJournal – stmjournals.com	Codemag.com/magazines	Unit II to V
2	C Language Translation – jcit.iecc.com	The magpi - https://www.raspberrypi.org/magpi/issues/essentials-c-v1/	Unit II to V

4.e**Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details**

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		√	√				√		Programming Logic and Design (Chapter -1 and 2)
2	√	√	√	√			√		Programming with C (Chapter – 3 and 4)
3	√	√	√	√			√		Programming with C (Chapter – 6 and 7)
4	√	√	√	√			√		Programming with C (Chapter – 8 and 9)
5	√	√	√	√			√		Programming with C (Chapter – 10 and 11)

4.f**Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos**

Students can view lectures by VIT professors, captured through LMS ‘Lecture Capture’ in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content will be made available on V refer.	1-5
2	www.cprogramming.com	2-5
3	www.c-language.com	2-5
4	https://learn-c.org/	2-5

5	http://en.cppreference.com/w/c	2-5
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4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	www.spokentutorial.org	IIT, Bombay	20 Lectures	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Embedded C	VSIT	1 week	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In Process	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Videos E books Practice quiz

5. Consolidated Course Lesson Plan

		From (date/month/year)	To (date/month/year)	Total Number of Weeks			
Semester Duration		July 2021	Oct 2021	13			
Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site

					Discussion, any other)		
1	1	1	Induction- Subject Introduction, Types of Programming languages,	Poll	Power Point		4b(1) Ch-1
	2	1	History, Features , Simple program logic,	Quiz, Poll	Power Point, Video clip		4b(1) Ch-1
	3	1	pseudo code statements	Quiz	Power Point, Group Discussion		4b(1) Ch-1
2	4	1	flowchart symbols and drawing flowchart	Student has to draw flowcharts on different problems	Power Point		4b(1) Ch-1
	SS	1	Applications of imperative Programming	-	-		4b(1) Ch-1
	5	1	sentinel value to end a program , programming and user environments	Poll, Viva	Power Point		4a Ch-2
	6	1	Fundamentals: Structure of a program. Compilation and Execution of a Program Character Set, identifiers, and keywords	Poll, Viva	Power Point		4a Ch-2
3	7	1	data types, constants, variables ,arrays, declarations, expressions, statements, Variable definition,	puzzle	Power Point		4a Ch-2
	8	1	Symbolic Constant (BSA- Open Book Test)	Unit Test	Power Point		4a Ch-2
	9	2	Operators and Expressions: Arithmetic operators, unary operators, Relational Operator, the conditional operator	Quiz	Power Point, Code block		4a (Ch-3)

4	10	2	Logical Operator, the conditional operator	class test	Power Point		4a (Ch-3)
	SS	2	Assignment Operator				4a (Ch-3)
	11	2	Data Input and output: Single character input and output, entering input data,	Quiz	Power Point, Code block		4a (Ch-3)
	12	2	scanf function, printf function	Viva	Flipped Classroom		4a (Ch-3)
5	13	2	Library Functions, Gets and puts function (BSA -Class test),	-	Power Point		4a (Ch-3)
	14	2	Difference between various input and output functions	Unit test	Power Point		4a (Ch-3)
	15	3	UNIT III: Conditional Statements and Loops: Decision Making Within a Program, Conditions, Relational Operators	-	Power Point,		4a (Ch-7)
	16	3	Logical Connectives If Statement, If-Else Statement, Switch statement	THT	Power Point, Code block		4a (Ch-7)
6	17	3	Loops: while Loop, Do While	Spin the wheel Game	Power Point		4a (Ch-7)
	SS	3	Difference between conditional and looping statement	-	-		4a (Ch-7)
	18	3	Functions: Overview, defining a function, accessing a function.	Quiz	Power Point		4a (Ch-7)
7	19	3	Passing arguments to a function, specifying argument data types, function prototypes	POP Quiz	Power Point, Code Block		4a (Ch-7)

	20	3	Functions: Overview, defining a function, accessing a function.	-	Power Point	-	4a (Ch-7)
	SS	3	Passing arguments to a function, specifying argument data types, function prototypes	-	-		4a (Ch-7)
	21	3	standard library of c functions , prototype of a function: function parameter list, return type, function call, block structure	Think Pair and Share	Power Point/ Open Book questions will be posted on the assignment section.		4a (Ch-7)
8	22	3	Call by value and call by reference(BSA-Test)	Unit test	Power Point		4a (Ch-7)
	SS	3	Difference between library and user defined functions				4a (Ch-7)
	23	4	Program structure: Storage classes, automatic variables	Quiz	Power Point		4a (Ch-8)
	24	4	External variables, Static variables	Spin the wheel	Power Point, Code block		4a (Ch-8)
9	25	4	Pre-processor: Features, #define ,#include	Quiz	Power Point, Code Block		4a (Ch-8)
	SS	4	Use of pre-processor directives and symbolic constant	-	-		4a (Ch-8)
	26	4	Macros	Viva	Power Point, Code Block		4a (Ch-8)
	SS	4	Application of Macros	-	-		
	27	4	Arrays: Definition, processing	Open Book Test	Power Point		4a (Ch-9)

10	28	4	Passing arrays to functions,	Quiz	Power Point		4a (Ch-9)
	29	4	multidimensional arrays (BSA- poster Presentation)	-	Code Block		4a (Ch-9)
	30	4	Strings and functions	Unit Test	Power Point		4a (Ch-9)
11	31	5	Pointers: Fundamentals, declarations	Viva	Power Point		4a (Ch-10)
	32	5	Pointer type Declaration, Pointer Assignment	(BSA- Mini Project)-	Power Point		4a (Ch-10)
	33	5	Pointer Initialization , Pointer Arithmetic	-	Power Point		4a (Ch-10)
12	34	5	Functions and Pointers	Quiz Viva	Power Point, Code Block		4a (Ch-10)
	35	5	Arrays And Pointers , Pointer Arrays,	Mobile App Based Quiz	Power Point		4a (Ch-10)
	SS	5	Passing values to arrays	-	-		4a (Ch-10)
	36	5	Passing functions to other functions	Quiz	Power Point		4a (Ch-10)
13	37	5	Structures and Unions: Structure Variables	Viva	Power Point		4a (Ch-10)
	38	5	Initialization, Structure Assignment	poll	Power Point		4a (Ch-10)
	39	5	Structures and Functions , Structures and Arrays: Arrays of Structures,	Viva	Power Point		4a (Ch-10)

			Structures Containing Arrays				
40	5		Union, structure and pointers (BSA- Take Home Test)	Unit test	Power Point		4a (Ch-11)
SS	5		Nested Structure	-	-		4a (Ch-11)

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% attendance, Active Participation-10 Marks	1		Practical Submission (100 Marks) Scaled to 20 Marks, Practical Assessment #1-10 Marks, Final Practical Exam (Case study presentation +Viva)- 20 Marks		-	IA 1(Descriptive)-20 MARKs, IA 2 (MCQs+Viva)-20 Marks Scaled to 15 Marks	-	75

7.

Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Introduction to Programming languages, Fundamentals of C.	CO1	3 rd Week	4 th Week

2	Operators and Expressions, Data Input and output	CO2	5 th Week	6 th Week
3	Debugging Errors	C04,C05	10 th Week	11 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	√			1	4a(1)	4b(1)		✓	✓
2	5	√	√		2	4a(1)	4b(3)		✓	✓
3	10	√	√		3,4	4a(1)	4b(3)		✓	✓

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	6th Week	1,2		Q1- Answer in one sentence Q2 –Answer in brief 15 Marks	
2 nd IA Test	12th Week	1,2		Q1 – MCQ – 15 Marks	
Pop Quiz	7 th Week	Unit 3			
Open Book Test	13 th week	Unit 4			
Take Home Test	5 th ,12 th week	Unit 3,5			
Class tests / prelims	After Each Unit	1,2,3,4,5			
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments



Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2	Basic Programs	Input/Output Statements	C01,C06	4
2	2	Programs on variables	Declaration & Initialization of Variables	C01,C02,C06	4
3	3	Conditional statements and loops(basic)	Use of Conditional & looping statements	CO3,CO6	4
4	3	Conditional statements and loops(advanced)	Use of Conditional & looping statements	CO3,CO6	4
5	3	Programs on patterns	Use of Nested Loops	CO3,CO6	4
6	3	Functions	Working of user defined Function	CO3,CO6	4
7	3	Recursive functions	Recursive Function	CO3,CO6	4
8	4	Arrays	Storing and Retrieving Multiple Homogeneous data	CO4,CO6	4
9	5	Pointers	Variable addressing & Pointer Arithmetic	CO5,CO6	4
10	5	Structures and Unions	Storing & Accessing Heterogeneous data	CO5,CO6	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	<i>Concepts to be highlighted</i>	CO Map	Audit / Quality Rate (0 to 4)
3	2	Use of Library Functions	Use of different library functions	C03,C06	4

8	4	Demonstrate the concepts of Storage Classes	Scope of variables	CO4,CO6	4
---	---	---------------------------------------------	--------------------	---------	---

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
9	5	Build Console Application for various Operations	Structure, Arrays & Functions	C03,C04,C05,C06	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	√
4		Mini Projects	√
5		Pop Quiz	√
6		Mobile App Based Quiz	√
7		Open Book Test	√
8		Take Home Test	√
9	Collaborative and Group Activity	Poster Presentation	√
10		Minute Papers	√
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	√
16		Value Added Courses	√
17		Lecture Capture Usage	√

* Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.

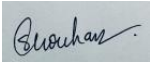
Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Mr. Asif Rampurawala
Faculty 1 Name (Sign.)

Ms. Janhavi Vadke
Faculty 2 Name (Sign.)

Ms. Akshatha Jain
Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)



Dr. Pallavi Tawade
VSIT Cluster Mentor Name (Sign.)

External Academic Mentor (Sign.)

Head of Dept. (Sign.)



Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vazelekar
Educational Campus, Vazelekar (E)
Mumbai - 400 027



Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Concepts related to Trigonometry and graphical concepts of various functions.
Affective	What do you want students to think / care about?	Methods to be applied for determining trigonometric values of multiple angles and operation of angles.
Behavioural	What do you want students to be able to do?	Understand the concepts of various conic sections and there parametric equations

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Apply the knowledge of numbers, graph and functions in real life.	Unit 1-5
CO2	Apply trigonometry in modelling real life problems	Unit 2
CO3	Use analytic trigonometry and inverse circular functions to solve variety of problems.	Unit 2 and 3
CO4	Apply complex numbers theory to different domains, use vectors and matrices to solve real life problems.	Unit 4
CO5	Identify different types of conics from equations, understand sequences and series and basics of limits and derivatives.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS105	Precalculus	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme								
		Theory Marks IA Test				End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Total of IA1 and IA2	Active Participation					
USDS105	Precalculus	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	10	75	25	50		150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	4	N.A.	N.A.	N.A.	N.A.	1.5	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A		3:00 pm – 4:00 pm	MS Teams/ X-019

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Fundamental; Function; Polynomial and Rational Functions	8hrs	20
2	Exponential and Logarithmic Functions; Trigonometric Functions: Unit Circle and Right Angle Approach	8hrs	20
3	Analytic Trigonometry; Sinusoidal and Inverse trigonometric functions	8hrs	20
4	Polar Coordinates; Vector in Two and Three dimensions; System of equations and inequalities	10hrs	20
5	Conic sections; Sequence and Series; Limits: A Preview of Calculus	6hrs	20
* Insert rows for more modules in the Course		Total	48 hrs
			100%

2.b Prerequisite Courses

Sr. No.	Semester	Name of the Course	Topic/s
1	X, XI, XII	Mathematics	Functions; Trigonometric functions

2.c Relevance to Future Courses

Sr. No.	Semester	Name of the Course
1	II	Calculus
1	IV	Numerical Methods
2	V	Artificial Intelligence
3	VI	Machine Learning

2.d**Real Life Application Mapping – Mention Application from Very Common Day to Day Life**

Sr. No.	Real Life Application Mapping with the Course
1	Wireless communication
2	Function analysis
3	Antenna Design

3.**Past Results – Division-Wise and Topic-Wise Result Based Analysis**

Details	Target -Dec 2021
Course Passing % – Average of 6 Divisions	97%
Marks Obtained by Course Topper (marks/100)	96

Division A		
Year	Initials of Teacher	% Result
Dec 2021		

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future

4**All the Learning Resources – Books and E-Resources****4.a****List of Text Books (T – Symbol for Text Books) to be Referred by Students**

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Precalculus–Mathematics for Calculus	James Stewart, Lothar Redlin, Saleem Watson	Cengage Learning	7 th	1-5
2	Precalculus	David H. Collingwood, K. David Prince, Matthew M. Conroy	Free Software Foundation	--	3

4.b**List of Reference Books (R – Symbol for Reference Books) to be Referred by Students**

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Precalculus	David H. Collingwood, K. David Prince, Matthew M. Conroy	Free Software Foundation	6 th	1-5
2	Precalculus Demystified	Rhonda Huettenmueller	Tata McGraw Hill	5 th	1-5

4.c List of E – Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Precalculus: An investigation of functions http://www.opentextbookstore.com/precabc/1.4/Precalc.pdf	David Lippman	--	5	1, 2, 3
2	Precalculus https://assets.openstax.org/oscms-prodcms/media/documents/Precalculus-OP_9wwF7YT.pdf	Jay Abramson	Openstax	-	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://files.eric.ed.gov/fulltext/EJ1126695.pdf Success in Introductory Calculus: The Role of High School and Precalculus Preparation	https://www.yumpu.com/en/document/read/18863465/9precalculus-review Pre-calculus Review	1-5
2	https://www.rroij.com/open-access/a-brief-note-on-precaculus-and-its-function.pdf A Brief Note on Precalculus and its Function	https://www.yumpu.com/en/document/read/50825842/precaculus-willoughby-eastlake-city-schools Pre-calculus	1-5
3	https://www.maa.org/sites/default/files/pdf/pubs/books/members/NTE92.pdf Addressing Challenges to the Precalculus to Calculus II Sequence through Case Studies	https://www.yumpu.com/en/document/read/65255188/math911-manual-2021 Algebra 911 Topics	1-2

4.e Module Best Available in – Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - ✓						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓		✓					✓	Precalculus–Mathematics for Calculus□(Chapter 1, 2 and 3)
2	✓		✓					✓	Precalculus–Mathematics for Calculus□(Chapter 4, 5 and 6)
3	✓		✓					✓	Precalculus–Mathematics for Calculus (Chapter 7) Precalculus (Chapter 19 and 20)
4	✓		✓					✓	Precalculus–Mathematics for Calculus□(Chapter 8, 9 and 10)
5	✓		✓					✓	Precalculus–Mathematics for Calculus□(Chapter 11, 12 and 13)

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Real Numbers (https://www.youtube.com/watch?v=3YwrcJxEbZw)	1
2	Exponents and Radicals (https://www.youtube.com/watch?v=klTJ6qH7jS0)	1
3	Mathematical Modelling and Simulation (https://www.youtube.com/watch?v=df5EK1P6Ph0)	1
4	Logarithmic functions (https://www.youtube.com/watch?v=4UNkQcBrLaQ)	2
5	Trigonometric introduction (https://www.youtube.com/watch?v=T9lt6MZKLck)	2
6	Trigonometric identities (https://www.youtube.com/watch?v=T7D1W1oD8wo)	3
7	Trigonometric Angle Operations (https://www.youtube.com/watch?v=H8o206G870s)	3
8	Conic Sections (https://www.youtube.com/watch?v=XLdIYhVwV0w)	5
9	Limits (https://www.youtube.com/watch?v=riXcZT2ICjA)	5

4.g

Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://alison.com/course/ap-calculus-ab-introduction-to-limits-and-derivatives Limits and Derivative	Alison Course	3-4 days	Y
2	https://alison.com/course/clep-pre-calculus-trigonometry CLEP Pre-calculus: Trigonometry	Alison Course	3-4 days	Y
3	https://alison.com/course/clep-pre-calculus-algebraic-basics CLEP Pre-Calculus: Algebraic Basics	Alison Course	3-4 days	Y

4.h

Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	--	--	--	--

4.i

Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	In Progress		--	Practice Questions

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration			14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1		Induction and Introduction	Poll	Power-Point		
	2	1	Modelling with Equations	Viva	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 44-57)
	3	1	Lines	Poll	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 105-117)
2	Self Study	1	Real Numbers, Exponents and Radicals				Precalculus– Mathematics for Calculus (Pg. 2-23)
	4	1	Combining Functions	Viva, THT	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 190-198)
	5	1	One-to-One Functions and Their Inverses	Viva, THT	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 199-206)
	6	1	Polynomial Functions	Viva, THT	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 232-245)
3	7	1	Synthetic Division	Viva, THT	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 246-252)
	8	1	Revision and Class Test	Quiz	Power-Point, Microsoft Forms		
	Self Study	2	Trigonometric Functions of Real Numbers				Precalculus– Mathematics for Calculus (Pg. 377-385)
	9	2	The Unit Circle	Viva, THT	Power-Point, Droid		Precalculus– Mathematics for Calculus (Pg. 370-376)

4	10	2	Trigonometry of Right Triangles	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 443-450)
	11	2	Trigonometric Functions of Angles	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 451-461)
	12	2	Inverse Trigonometric Functions and Right Triangles	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 462-468)
5	13	2	Exponential and Logarithmic Equations	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 331-339)
	14	2	Logarithmic Functions, Laws of Logarithms	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 315-330)
	15	2	Exponential Functions, The Natural Exponential Function	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 302-314)
6	16	2	Revision and Class Test	Quiz	Power-Point, Microsoft Forms	
	17	3	Addition Formulas	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 500-506)
	18	3	Subtraction Formulas	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 500-506)
7	19	3	Double-Angle, Half-Angle	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 507-516)
	20	3	Product-Sum Formulas	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 507-516)
	21	3	Basic Trigonometric Equations	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 517-523)
8	22	3	Revision	Viva, THT	Power-Point, Droid	
	23	3	Class Test	Quiz	Power-Point, Microsoft Forms	
	24	4	Polar Coordinates	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 542-554)
9	25	4	Polar Form of Complex Numbers,	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 555-563)
	26	4	De Moivre's Theorem	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 555-563)
	27	4	Plane Curves and Parametric Equations	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 564-571)
10	28	4	Vectors in Two Dimensions, The Dot Product	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 580-596)

	29	4	Three-Dimensional Coordinate Geometry	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 597-609)
	30	4	The Cross Product	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 610-615)
11	31	4	Equations of Lines and Planes	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 616-619)
	32	4	Matrices and Systems of Linear Equations	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 649-671)
	33	4	Inverses of Matrices and Matrix Equations	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 672-681)
12	34	4	Revision and Class Test	Quiz	Power-Point, Microsoft Forms	
	35	5	Parabolas, Ellipses, Hyperbolas	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 724-749)
	36	5	Polar Equations of Conics	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 765-771)
13	37	5	Arithmetic and Geometric Sequences	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 794-807)
	38	5	Finding Limits Numerically	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 840-855)
	39	5	Tangent Lines and Derivatives	Viva, THT	Power-Point, Droid	Precalculus– Mathematics for Calculus (Pg. 856-864)
14	40	5	Revision and Class Test	Quiz	Power-Point, Microsoft Forms	

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
Active Participation (10)	5 Assignments	-	Practical Submission (100 Scaled down to 20) Practical Assessment – 20 Final Practical/ Tutorial Exam – 20 marks		5 Test on Each Unit	20(IA)	N.A	30

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Mathematical Modelling	1	3 rd Week	4 th Week

2	Trigonometric Identities	2 and 3	7 th Week	8 th Week
3	Vectors and Matrices	4	8 th Week	9 th Week
4	Conic Section	5	11 th Week	12 th Week
5	Limits	5	12 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1	✓	✓			✓
2	7			✓	2 and 3	✓	✓			✓
3	8	✓			4	✓	✓			✓
4	11	✓			5	✓	✓			✓
5	12	✓		✓	5			Allison Course		

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	6 th Week	1,2	1,2,3	IA 1 (MCQ) 30 Marks(Scaled to 7.5)	No IA Re-test
2 nd IA Test	12 th Week	4,5	1,4,5	IA 2(MCQ) 30 marks(Scaled to 7.5)	IA is a Head of passing *
Pop Quiz	2 nd Week	1	1	N.A	N.A
Open Book Quiz	5 th Week	2	2	Quiz (MCQ)	N.A
Take Home Test	After every Lecture	1 to 5	1 to 5	N.A	N.A
Practical's/ Prelims					
Class Test/ Prelims	Week 3, 5, 7, 10 & 12	1 to 5	1 to 5		
Any Other Test/ Exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					


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 Educational Campus, Wazirpur (E)
 Mumbai - 400 027.



10. Beyond Syllabus Activities for Gap Mitigation

Sr. No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Bridge Course on 'Mathematics in Data Science'
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Module 1, 2, 3, 4, 5
4		Mini Projects	
5		Pop Quiz	
6		Mobile App Based Quiz	Module 1
7		Open Book Test	Module 2
8		Take Home Test	Module 1, 2, 3, 4, 5
9	Collaborative and Group Activity	Poster Presentation	✓ (Study of Triangles using Trigonometry)
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	✓
16		Value Added Courses	
17		Lecture Capture Usage	✓

* Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1: Mr. Prabal Deep Das


External Industry Mentor:



External Academic Mentor

VSIT Cluster Mentor Name: Mr. Umesh Koyande

Head of Dept. (Sign.)


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Version 2021-22

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	<ul style="list-style-type: none"> Different number systems and formulae in Boolean Algebra. Difference between Combinational and sequential circuits
Affective	What do you want students to think / care about?	<ul style="list-style-type: none"> Application of Digital Electronics in real life technologies or devices. Finding simplest solution to the given problem statement.
Behavioural	What do you want students to be able to do?	<ul style="list-style-type: none"> Do conversions from a number system to other number systems. Also design combinational and sequential circuits.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students will have a thorough understanding of the fundamental concepts and techniques used in digital electronics	Unit 1
CO2	Students will be able to understand and examine the structure of various number systems and its application in digital design.	Unit 1, Unit 2
CO3	Students will be able to identify basic requirements for a design application and formulate most suitable solution	Unit 3
CO4	Students will be able to understand, analyse and design various combinational and sequential circuits	Unit 3, Unit 4
CO5	Students can identify and prevent various hazards and timing problems in a design.	Unit 4, Unit 5
CO 6	Students will develop skill to build and troubleshoot digital circuits	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT102	Digital Electronics	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
USIT102	Digital Electronics	20	20	Scaled to 15 + 10 Class Participation	75	25	-	-	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
B	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
C	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
E	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
F	3	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
All	Friday	3:00 pm – 4:00 pm	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Number Systems, Codes	12	20
2	Boolean Algebra Karnaugh Maps	09	20
3	Combinational Circuits	08	20
4	Sequential Circuits, Flip Flops	06	20
5	Counters and Shift Registers	05	20
Total		40 Hrs	100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	SYJC	Physics	Logic gates and basic Electronics

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	BSc IT Sem II	Microprocessor Architecture
2	BSc IT Sem IV	Introduction to Embedded Systems
3	BSc IT Sem V	Internet of Things
4	MSc IT Sem IV	Advanced IoT

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Display of digital watch
2	Count-down timer at traffic signals
3	Laptops, TV, smart phones
4	Washing machines or the anti-braking system in cars have digital components.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Dec 2020	Nov 2019	Nov 2018
Course Passing % – Average of 3 Divisions	100	98.88	97.73	97.10
Marks Obtained by Course Topper (mark/100)	100	100	98	95

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	AKS/LAM	100	AKS/LAM	96.55	AKS/LAM	98.33
Oct 2019	AKS	96.15	LAM	100	LAM	100
Nov 2018	AKS	98.11	KYD	78.68	LAM	91.37

Year	Division D		Division E		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	AKS/LAM	100	AKS/LAM	NA	AKS/LAM	100
Oct 2019	LAM	96.49	LAM	93.48	AKS	100
Nov 2018	LAM	85.00	AKS	96.22	AKS	97.22

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Bushing concept in Counters	5	Question answer format notes were prepared
-	-	-

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Digital Electronics and Logic Design	N.G. PALAN	Technova	First	1-5
2					

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Modern Digital Electronics	R. P. JAIN	McGraw Hill	Fourth	1-5
2	Digital Principles and Applications	MALVINO & LEACH	McGraw Hill		1-5
3	Digital Electronics: Principles, Devices and Applications	Anil K. Maini	Wiley		1-5

4.c

List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Digital Electronics	Prof. Smith			1-5
2	Digital Electronics	William Kleitz	Prentice Hall	7	1-5

4.d

Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://openlibrary.org/subjects/digital_electronics (Openlibrary)	https://www.electronicsforu.com/ (Electronics For You)	1-5
2	http://ecc.journalspub.info/index.php?journal=IJDE (Journalpub)	https://www.elektor.com/ (Elektor)	1-5
3	https://ieeexplore.ieee.org/document/34118?s (IEEE)	https://www.siliconchip.com.au/ (Indiamags)	1-5
4	https://link.springer.com/chapter/10.1007/978-3-642-27452-7_70 (Springer)	https://www.newelectronics.co.uk/digital-magazine/ (New Electronics)	
5	https://www.indiamags.com/international-journal-of-digital-electronics (Indiamags)	https://www.edn.com/ (EDN)	

4.e

Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓	✓			✓	✓	N G Palan: Chapter 1, 2 Page 1.3 to Page 2.72	
2		✓	✓			✓	✓	N G Palan: Chapter 3, 4 Page 3.3 to Page 4.75	
3		✓	✓			✓	✓	N G Palan: Chapter 5, 6 Page 5.2 to Page 6.42	
4		✓	✓			✓	✓	N G Palan: Chapter 7, 8 Page 7.2 to Page 8.34	
5		✓	✓			✓	✓	N G Palan: Chapter 9, 10 Page 9.2 to Page 10.25	

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VSIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	College Note - VREFER	1 to 5
2	Number Systems, codes, circuits - https://www.tutorialspoint.com/digital_circuits/index.htm	1 to 5
3	Number System Conversion - https://www.youtube.com/watch?v=MPMX7TKcGis	1
4	Logic Gates - https://www.youtube.com/watch?v=AT_GjUjNFpo	2
5	Half Adder - https://www.youtube.com/watch?v=Pzdlj_61WPI	3
6	Multiplexer - https://www.youtube.com/watch?v=dCUpm2mJ4m0	4
7	Registers and Counters - https://www.youtube.com/watch?v=8JMfp-y335s	5
8	Combinational circuits - https://www.electronics-tutorials.ws/	1 to 5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.classcentral.com/course/swayam-introductory-concepts-of-digital-computing-45159	Consortium for Educational Communication	12 Weeks (From 11 th July 2021)	Y
2	https://www.classcentral.com/course/swayam-digital-electronic-circuits-12953	IIT Kharagpur	12 Weeks (From 25 th July 2021)	Y

4.h Recommended Value-Added Courses (VAC)



Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Arduino	VSIT	32 Hrs	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	✓ (Videos)

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration			14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction: Analog System, Digital System, Introduction to number system	Poll	Power point, Video Clip		N. G. Palan Pg 1.3 – 1.7
	2	1	Conversion (binary, octal and hexadecimal)	Viva	Power point, Group Discussion		N. G. Palan Pg 1.8 – 1.15
	3	1	Conversion (binary and decimal)	Quiz	Power point, Flipped Classroom		N. G. Palan Pg 1.16–1.24
2	4	1	Conversion (decimal, octal and hexadecimal)	Viva	Power point, Flipped Classroom		N. G. Palan Pg 1.25–1.37
	5	1	Weighted codes (BCD) Non-weighted codes (Excess-3, Gray code)	Quiz	Power point, Video Clip		N. G. Palan Pg 1.48–1.53
	Self Study	1	ASCII code, Hollerith code, Morse Code	THT	-		N. G. Palan Pg 1.54–1.63
	6	1	Binary Arithmetic: Binary addition and subtraction,	Poll	Power point, Group Discussion		N. G. Palan Pg 2.2–2.22
3	7	1	Negative number representation	Viva	Power point		N. G. Palan Pg 2.23–2.34
	8	1	Subtraction using 1's complement	Quiz	Power point, Flipped Classroom		N. G. Palan Pg 2.34
	9	1	Subtraction using 2's complement	THT	Power point, Flipped Classroom		N. G. Palan Pg 2.35
4	10	1	Binary multiplication	THT	Power point, Flipped Classroom		N. G. Palan Pg 2.36–2.42

	11	1	Binary division	Viva	Power point	N. G. Palan Pg 2.42–2.50
	12	1	Arithmetic in octal numbers– Unit Test MCQ	Poll	Power point, Flipped Classroom	N. G. Palan Pg 2.50–2.59
	Self Study	1	Arithmetic in hexadecimal numbers	THT	-	N. G. Palan Pg 2.60–2.63
5	13	2	Boolean Algebra and Logic gates: Introduction to logic, Boolean theorems and Boolean laws	Quiz	Power point, Flipped Classroom	N. G. Palan Pg 3.3–3.16
	14	2	Demorgan's Theorems	Viva	Power point	N. G. Palan Pg 3.18–3.23
	15	2	Reduction of logic expression by Boolean algebra	Quiz	Power point, Flipped Classroom	N. G. Palan Pg 3.37–3.50
6	16	2	Universal logic gates, Implementation of other gates using universal gates	OBT	Power point	N. G. Palan Pg 3.51–3.54
	17	2	Deriving Boolean expressions from given circuits, Exclusive OR & NOR gates	Quiz	Power point, Flipped Classroom	N. G. Palan Pg 4.2–4.5
	18	2	Minterm, Maxterm and Karnaugh Maps: Minterms and SOP	Viva	Power point	N. G. Palan Pg 4.5–4.8
	Self Study	2	Maxterms and POS	THT	-	N. G. Palan Pg 4.9–4.13
7	19	2	Making K-map Grouping in K-map	Poll	Power point, Group Discussion	N. G. Palan Pg 4.14–4.38
	20	2	3, 4 variable K-map	Viva	Power point, Group Discussion	N. G. Palan Pg 4.54–4.56
	21	2	Obtain K-map from Boolean expression – Unit test on K-map simplification	THT	Power point, Group Discussion	N. G. Palan Pg 4.57–4.60
8	22	3	Minimize Boolean expression using K-map	Viva	Power point, Group Discussion	N. G. Palan Pg 5.2–5.10
	23	3	Combinational Logic Circuits: Introduction,	Quiz	Power point, Group Discussion	N. G. Palan Pg 5.11–5.20
	Self Study	3	Multi-input, Multi-output combinational circuits	THT	-	N. G. Palan Pg 5.21–5.33
	24	3	Code converters design and implementations	Viva	Power point, Flipped classroom	N. G. Palan Pg 5.34–5.50
9	25	3	Arithmetic Circuits: Half Adder, Half Subtractor designing	Poll	Power point, Flipped classroom	N. G. Palan Pg 6.2–6.9
	26	3	Designing of Full Adder	Poll	Power point, Flipped classroom	N. G. Palan Pg 6.10–6.12
	27	3	Designing of Full Subtractor	OBT	Power point, Flipped classroom	N. G. Palan Pg 6.15–6.20
10	28	3	BCD Adder	Viva	Power point, Group Discussion	N. G. Palan Pg 6.22–6.25

	Self Study	3	Comparator	THT	-		N. G. Palan Pg 6.26–6.30
	29	3	Multiplier – Unit test Identify the digital circuit	Viva	Power point, Group Discussion		N. G. Palan Pg 6.34–6.36
	30	4	Multiplexer	Quiz	Power point, Video clip		N. G. Palan Pg 7.2–7.10
11	31	4	Demultiplexer	Viva	Power point, Video clip		N. G. Palan Pg 7.2–7.20
	32	4	Decoder, Encoder	Quiz	Power point, Group Discussion		N. G. Palan Pg 7.27–7.30
	33	4	SR Flip Flop, D Flip Flop	Viva	Power point, Group Discussion		N. G. Palan Pg 8.2–8.12
12	34	4	JK Flip Flop	Viva	Power point, Group Discussion		N. G. Palan Pg 8.12–8.18
	Self Study	4	T- flip flop	THT	-		N. G. Palan Pg 8.19–8.25
	35	4	FF Conversions	OBT	Power point, Group Discussion		N. G. Palan Pg 8.25–8.31
	36	4	Asynchronous counter, Terms related to counters	Viva	Power point, Group Discussion		N. G. Palan Pg 9.2–9.10
	37	4	Synchronous counter – Unit test on FF conversions	Viva	Power point, Group Discussion		N. G. Palan Pg 9.10–9.17
	38	5	Type T design, Odd modulo counter	OBT	Power point, Group Discussion		N. G. Palan Pg 9.18–9.38
	39	5	Shift Registers: Introduction	Quiz	Power point, Group Discussion		N. G. Palan Pg 9.38–9.54
	Self Study	5	Difference between Counters and registers.	THT	-		N. G. Palan Pg 9.54–9.60
	40	5	Shift Left and Shift Right registers - Unit test on Identifying Counter	OBT	Power point, Group Discussion		N. G. Palan Pg 10.2–10.7

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) Specify	Total
75% Attendance, Active Participation (10)			Practical Submission 100 marks scaled to 20 marks + Practical assessment #1 = 10 marks + Final Practical exam (miniproject+viva)=20marks		IA1 (Descriptive)= 20 marks + IA1 (Descriptive)= 20 marks Scaled to 15			75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Number system and K-map	CO1, CO2	3 rd Week	5 th Week
2	Designing of combinational circuits	CO 3	8 th Week	9 th Week
3	Counters and Shift Registers	CO 5	11 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		TextBook	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓	✓		1	1	1, 2	✓	✓	✓
3	8	✓			3	1	1, 3	✓	✓	✓
5	11	✓			5	1	1, 4	✓	✓	✓

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Textbook, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	Week 6	1 and 2	1, 2, 3	IA 1 (Descriptive) 20 marks (scaled to 7.5)	No IA Re-test IA is a Head of passing *
2 nd IA Test	Week 12	3 & 4	3, 4, 5	IA 2 (MCQ + Viva) 20 marks (scaled to 7.5)	
Pop Quiz	Week 9	3	4	10 MCQ's – 01 marks each	
Open Book Test	Week 10, 12	4 & 5	5, 6	4 questions – 20 marks	
Take Home Test	Week 1, 7, 12	All	1, 2, 3, 4, 5, 6	4 questions – 20 marks	
Any other test/exams	Week 10, 13	2, 3 & 4	3, 4, 5	Diagrams and truth table designing	
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments



Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2	Introduction to simulators, Breadboard, and digital electronics components	Connections and electronics	CO1	4
2	2	Study of Logic gates and their ICs	Logic operations	CO1 CO2	4
3	2	De Morgan's Theorems	Boolean Algebra	CO2 CO3	4
4	1, 2	Design basic and derived gates using universal gates	Boolean Algebra, Circuit Designing	CO2 CO3	4
5	2	Implement Code converters	Code conversion	CO3	4
6	1, 3	Half Adder and Full Adder	Binary arithmetic, Circuit Designing	CO3 CO4	4
7	1, 3	Half Subtractor and Full Subtractor	Binary arithmetic, Circuit Designing	CO3 CO4	4
8	3	Multiplexer and Demultiplexer	Truth tables, Circuit Designing	CO4 CO5	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	4	Implement the given expression using 1:4 demultiplexer.	Multiplexer, Demultiplexer	3, 4	4

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	3, 4	Implement full adder using 8:1 multiplexer.	Adder, Multiplexer	4, 5	4

10. Beyond Syllabus Activities for Gap Mitigation



No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Guest lecture on “Digital Counters”
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Diagrams and truth table designing
4		Mini Projects	-
5		Pop Quiz	Week 9 - Module 3(Multiple choice questions)
6		Mobile App Based Quiz	
7		Open Book Test	Module 3, 4, 5
8		Take Home Test	All units
9	Collaborative and Group Activity	Poster Presentation	Poster making competition
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	Arduino
17		Lecture Capture Usage	Yes
18		Bridge Course	A 6-hr Bridge Course in Number System and K-Map

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Amraja Shivkar

Mr. Laxmikant Manchekar

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



Mr. Umesh Koyande
VSIT Cluster Mentor Name (Sign.)

Mr. Umesh Koyande
Head of Dept. (Sign.)



Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Fundamental concepts of logical operations and their applications in computer science.
Affective	What do you want students to think / care about?	Students should think logically while writing more abstract coding for real time applications.
Behavioural	What do you want students to be able to do?	It will help students to solve any complex algorithm by using graph theory and will be able to convert any statement in terms of mathematical expression.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Able to use logically valid forms of argument, convert formal to informal statement and vice-versa by avoid common logical errors.	1
CO2	Able to use both direct and indirect arguments to derive new results from the given set of logical identities and those which are already known to be true.	2
CO3	Able to develop recursive thinking which is used in the analysis of algorithms for proving any type of given sequences and series.	3
CO4	Able to apply principles and concepts of graph theory in practical situations so that any complex algorithm can be solved in a more efficient manner.	4
CO5	Able to understand the laws concerning the measurement of random or chance events and also various counting methods.	5

1.c**Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d**Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)**

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e**Teaching and Examination Scheme (As specified by the University) for the Course**

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USIT104	Discrete Mathematics	75	50	-	2	2	-	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USIT104	Discrete Mathematics	20	20	Scaled to 15 + 10 Class Participation	75	25	-	-	150

1.f**Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course**

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	1.5	1.5	--	--	NA	--	--	--
B	3	1.5	1.5	--	--	NA	--	--	--

C	3	1.5	1.5	--	--	NA	--	--	--
D	3	1.5	1.5	--	--	NA	--	--	--
E	3	1.5	1.5	--	--	NA	--	--	--
F	3	1.5	1.5	--	--	NA	--	--	--

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
All Divisions	Thursday	3.00 pm to 4.00 pm	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction, Set Theory and Logic of Compound statements	12 hrs	20
2	Quantified statements and Elementary Number Theory and methods of proof.	8 hrs	20
3	Sequences, Mathematical induction and Recursion	6 hrs	20
4	Relations, Graphs and Trees	8 hrs	20
5	Counting and Probability	6 hrs	20
* Insert rows for more modules in the Course		Total	40hrs
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	SYJC	Mathematics & Statistics	Set theory, logic, probability, relations, functions etc



2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	2	Numerical and Statistical Methods
2	4	Computer Oriented Statistical Techniques
3	5	Artificial Intelligence
4	MSc.IT Part-1	Data Science

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Used in enhancing the algorithm using logical operations.
2	Used in Discrete Signal Processing using the concept of set theory.
3	Logistic systems uses discrete mathematics for organizing the flow of information goods and services
4	Graph theory is used in cyber security to identify the hacked or criminal servers

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Dec 2020	Dec 2019	Dec 2018
Course Passing % – Average of 3 Divisions	100%	97.38	96	86
Marks Obtained by Course Topper (mark/100)	100	100	93	94

Year	Division A		Division B		Division C		Division D		Division E		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	PDD/MGJ	100	PDD/MGJ	96.55	PDD/MGJ	98.33	PDD/MGJ	93.22	PDD/MGJ	-	PDD/MGJ	100
Dec 2019	PDD	94	TS	97	TS	98	TS	96	TS	96	PDD	95
Dec 2018	SJD	89	PDD	82	PDD	79	SJD	77	PDD	83	SJD	95
Dec 2017	AMV	96	AMV	86	AMV	77	SJD	76	SJD	85	SJD	88
Dec 2016	ZK	72	ZK	70	ZK	71	SJD	72	SJD	70	SJD	95

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Difference between Permutation and Combination	2	Extra problems for practice should be given
Strong mathematical induction	3	Extra problems for practice should be given

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Discrete Mathematics with Applications	Sussana S. Epp	Cengage Learning	4 th	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Discrete Mathematics, Schaum's Outlines Series	Seymour Lipschutz, Marc Lipson	Tata McGraw Hill	-	1-5
2	Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata McGraw Hill	-	1-5
3	Discrete mathematical structures	B Kolman RC Busby, S Ross	PHI	-	1-5
4	Discrete structures	Liu	Tata McGraw Hill	-	1-5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	http://discrete.openmathbooks.org/pdfs/dmoi-tablet.pdf	Oscar Levin	-	3rd	1,3,4,5
2	https://www.cs.yale.edu/homes/aspnes/classes/202/notes.pdf	James Aspnes	-	-	2-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Science Direct Journal on DM: https://www.sciencedirect.com/journal/discrete-mathematics	Elements of Discrete Mathematics: https://www.people.vcu.edu/~rhammack/Discrete/index.html	1-5
2	IJOART: http://www.ijoart.org/docs/Set-theory-is-the-ultimate-branch-of-Mathematics.pdf	Stanford Encyclopedia of Philosophy: https://plato.stanford.edu/entries/set-theory/	1
3	The Average Covering Number of a Graph: https://downloads.hindawi.com/journals/jam/2013/849817.pdf	Graph Theory with applications https://www.zib.de/groetschel/teaching/WS1314/BondyMurtyGTWA.pdf	4
4	IJIRES Volume 1, Issue 3, ISSN (Online): 2349–5219 https://www.ijires.org/administrator/components/com_jresearch/files/publications/IJIRES_86_Final.pdf	Nrich by University of Cambridge https://nrich.maths.org/4718	3
5	Theory of Probability (Unit 5) https://ieeexplore.ieee.org/document/6430479	Probability and statistics, by Prof. Theodore M. Porter, https://www.britannica.com/science/probability	5

4.e

Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓						✓		Sussanna (chapter 2, 6)
2	✓						✓		Sussanna (chapter 3, 4)
3	✓	✓					✓		Sussanna (chapter 5, 7)
4	✓		✓				✓		Oscar Levin (Chapter 4) Sussanna (chapter 8, 10)
5	✓	✓					✓		Sussanna (chapter 9)

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VSIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (https://drive.google.com/drive/folders/1j2GfB03R8gzNs6lt0aW3MGty10d8RPIM)	1-5
2	Online Notes and PPTs (http://www.nptel.ac.in/courses/111106086/)	1-3
3	Checking validity of Argument https://www.youtube.com/watch?v=AJe3ATDFjQ	2
4	Proof by Contraposition https://www.youtube.com/watch?v=X-hJ7krLBn0	2
5	Proof by Contradiction https://www.youtube.com/watch?v=sRDwsfNDXak&t=17s	2
6	Russell Paradox https://www.youtube.com/watch?v=xauCQpnbNAM	1
7	Halting Problem https://www.youtube.com/watch?v=t37GQgUPa6k	1
8	Bayes' Theorem https://www.youtube.com/watch?v=HZGCoVF3YvM	5
9	Kruskal's Algorithm https://www.youtube.com/watch?v=huQojf2tevl	4
10	Prim's Algorithm https://www.youtube.com/watch?v=huQojf2tevl	4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Spoken Tutorial on Scilab	IIT Bombay	1 Week	Y
2	https://www.udemy.com/course/discrete-math/	Grant Hall	7 weeks	Y
3	https://onlinecourses.nptel.ac.in/noc21_cs80/preview	Prof. Sudarshan Iyengar, Prof. Neeldhara (NPTEL)	12 weeks	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1.	Master Discrete Math, the backbone of Mathematics and Computer Science https://www.udemy.com/course/discrete-math/	Miran Fattah	106 Lectures	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	/ /2021	/ /2021	14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered.	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	-	Introduction of Discrete Mathematics	Poll	Power-point		Sussana (Chp-3.1)
	2	1	Statements and Sentence	Quiz, Viva	Power-point, Droid		Sussana (Chp-2.1)
	3	1	Logical Operators	Viva, Poll	Power-point, Droid		Sussana (Chp-2.1)

2	4	1	Logical Equivalence	Viva	Power-point, Droid	Sussana (Chp-2.1)
	5	1	Conditional Statements	Viva, THT	Power-point, Droid	Sussana (Chp-2.2)
	6	1	Valid and Invalid Arguments	Viva, THT	Power-point, Droid	Sussana (Chp-2.3)
3	7	1	Valid and Invalid Arguments	Quiz	Power-point, Droid	Sussana (Chp-2.3)
	8	2	Predicates and Quantified Statements	Viva, THT	Power-point, Droid	Sussana (Chp-3.1, 3.2)
	9	2	Statement with Multiple Quantifiers	Viva, Video	Power-point, Droid	Sussana (Chp-3 3)
4	10	2	Arguments with Quantified Statements	THT	Power-point, Droid	Sussana (Chp-3.4)
	11	2	Direct and Indirect Proofs (Rational Number)	Viva	Power-point, Droid	Sussana (Chp-4.2)
	12	2	Direct and Indirect Proofs (Divisibility)	Viva	Flipped classroom	- Sussana (Chp-4.3)
5	13	2	Direct and Indirect Proofs (Quotient Remainder Theorem)	Viva	Flipped classroom	- Sussana (Chp-4.4)
	14	2	Direct and Indirect Proofs (Floor and Ceiling)	Viva, THT	Flipped classroom	Sussana (Chp-4.5)
	Self-Study	2	Indirect Arguments (Contradiction)	THT		Sussana (Chp-4.6)
	Self-Study	2	Indirect Arguments (Contraposition)	THT		Sussana (Chp-4.6)
	15	2	Activity on Module 2			
6	16	1	Set Theory (Set operations)	Poll	Power-point, Droid	Sussana (Chp-6.1)

	17	1	Power Sets	Video	Power-point, Droid	Sussana (Chp-6.2)
	18	1	Properties of Sets	Viva	Power-point, Droid	Sussana (Chp-6.2)
7	19	1	Boolean Algebra (Set Identities)	Quiz	Power-point, Droid	Sussana (Chp-6.3)
	Self- Study	1	Russel Paradox	THT		Sussana (Chp-6.4)
	Self- Study	1	Halting Problem	THT		Sussana (Chp-6.4)
	20	1	Activity on Unit 1			
	21	5	Multiplication Rule	Viva	Power-point, Droid	Sussana (Chp-9.1)
8	22	5	Possibility Trees	Viva, poll	Power-point, Droid	Sussana (Chp-9.2)
	Self- Study	5	Permutation and Combination	THT		Sussana (Chp-9.5)
	23	5	Pigeon-hole Principle	Viva	Power-point, Droid	Sussana (Chp-9.4)
	24	5	Combination with r-repetition	Quiz	Power-point, Droid	Sussana (Chp-9.6)
9	25	5	Conditional Probability	Viva	Power-point, Droid	Sussana (Chp-9.9)
	Self- Study	5	Bayes' Theorem	THT		Sussana (Chp-9.9)
	26	5	Activity on Unit 5			
	27	3	Functions- Definition and Introduction	Video	Power-point, Droid	Sussana (Chp-7.1)

10	28	3	One-One, Onto and Inverse Function	Poll	Power-point, Droid	Sussana (Chp-7.2)
	Self-Study	3	Composite Function	THT		Sussana (Chp-7.3)
	29	4	Relations on Sets	Viva	Power-point, Droid	Sussana (Chp-8.1)
	30	4	Reflexivity, Symmetry Relations	Viva	Power-point, Droid	Sussana (Chp-8.2)
11	31	4	Transitivity, Equivalence Relations	Quiz	Power-point, Droid	Sussana (Chp-8.3)
	32	4	Graph Theory- Definitions and Basic Properties	Video	Power-point, Droid	Sussana (Chp-10.1, 10.2)
	33	4	Matrix Representations of Graphs	Viva	Power-point, Droid	Sussana (Chp-10.3)
12	34	4	Isomorphism's of Graphs	Viva	Power-point, Droid	Sussana (Chp-10.4)
	35	4	Euler's and Hamiltonian Graph	Quiz	Power-point, Droid	Sussana (Chp-10.5)
	Self-Study	4	Spanning trees	THT		Sussana (Chp-10.7)
	Self-Study	4	Shortest paths	THT		Sussana (Chp-10.7)
	36	4	Activity/ Viva on Unit 4			
13	37	3	Sequences	Poll, viva	Power-point, Droid	Sussana (Chp-5.1)
	38	3	Sequences	Video	Power-point, Droid	Sussana (Chp-5.1)

	39	3	Mathematical Induction I	THT	Power-point, Droid	Sussana (Chp-5.2, 5.3)
14	40	3	Activity on Unit 3			

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	1	-	Practical Submission (100 Marks) scaled to 20 Marks, Practical Assessment #1 – 10 Marks, Final Practical Exam (Case Study presentation + Viva) – 20 Marks			IA 1 (Descriptive) - 20 Marks, IA 2 (MCQ + Viva) – 20 Marks	Scaled to 15 Marks	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Set Theory and Logic of Compound statements	1, 2	7 th week	8 th week
2	Counting and Probability	5	9 th week	10 th week
3	Relations, Graphs and Trees	3, 4	13 th week	14 th week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	7	✓			1,2	✓	✓		✓	
2	9			✓	5	✓	✓		✓	✓
3	13	✓			3,4	✓	✓		✓	✓

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	Week 6	1,2		IA 1 (Descriptive)- 20 Marks (Scaled to 7.5)	No IA Re-test
2 nd IA Test	Week 12	NA		IA 2 (20 MCQs + Viva)- 20 Marks (Scaled to 7.5)	IA is a Head of passing *
Pop Quiz	Week 5	2			
Open Book Test	Week 9	5			
Take Home Test	Week 12	4			

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Set Theory	Use in Discrete Signal Analysis	1	
2	2	Functions and Algorithms	Mathematical operations and evaluation of polynomials	2	
3	5	Counting	Find possible number of ways a new object can be developed from an existing one.	5	
4	5	Probability Theory	Calculation of the possibility for the occurrence of any particular event.	5	
5	2	Properties of integers	Use of prime numbers and divisibility property in cryptography.	2	
6	2	Algebraic Systems	Difference between LCM and GCD	2	
7	--	Matrices and Vectors	Way to store multiple data of similar type in one shell	--	

			and operating each data simultaneously. Understand the direction or the orientation sample.		
8	4	Graph Theory	Understand complex network diagrammatically and find the shortest path.	4	
9	3	Recurrence relations	Understanding the method to call a function within a function.	3	

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Bridge Course on 'Basics of Discrete Mathematics'
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	
4		Mini Projects	
5		Pop Quiz	5 th week on module 2(Multiple choice questions)
6		Mobile App Based Quiz	
7		Open Book Test	9 th week(module 5)
8		Take Home Test	12 th week(module 4)
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	Seminar on Self Study topics
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Scilab Spoken Tutorial course by IIT Bombay
16		Value Added Courses	
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1: Mr. Prabal Deep Das

Faculty 2: Ms. Maitreyi Joglekar

External Industry Mentor (Sign.)



External Academic Mentor (Sign.)

VISIT Cluster Mentor Name: Mr. Umesh koyande

Head of Dept. (Sign.)



The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Concepts related to Integration, Differentiation and the differences between them.
Affective	What do you want students to think / care about?	Methods to be applied for finding area, volume or slope of any function
Behavioural	What do you want students to be able to do?	Use Integral and derivatives as a mathematical tool for analysing any functions created during case studies due to regressions or similar statistics.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Quickly find the derivative of a function.	Unit 1, 3 and 5
CO2	Perform integration of any functions.	Unit 2, 3 and 4
CO3	Apply the knowledge of derivatives and integration to different domains and obtain the results.	Unit 3
CO4	Apply the knowledge of multiple integrals and polar coordinates to solve real life problems with ease.	Unit 4
CO5	Use partial derivatives and differential equations to solve variety of problems.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS205	Calculus	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme								
		Theory Marks IA Test				End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Total of IA1 and IA2	Active Participation					
USDS205	Calculus	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	10	75	25	50		150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3	N.A.	N.A.	N.A.	N.A.	1.5	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A		3:00 pm – 4:00 pm	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Continuity and Derivatives; Differentiation rules:	8hrs	20
2	Integrals	8hrs	20
3	Applications of differentiation and integration	8hrs	20
4	Parametric Equations and Polar Coordinates; Multiple Integrals	8hrs	20
5	Partial Derivatives and Differential Equations	8hrs	20
* Insert rows for more modules in the Course		Total	40 hrs
			100%

2.b Prerequisite Courses

Sr. No.	Semester	Name of the Course	Topic/s
1	XII	Mathematics	Integration, Differentiation, Application of Integrals and derivatives

2.c Relevance to Future Courses

Sr. No.	Semester	Name of the Course
1	B.Sc. DS Sem IV	Numerical Methods
2	B.Sc. DS Sem V	Artificial Intelligence
3	B.Sc. DS Sem VI	Machine Learning

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

Sr. No.	Real Life Application Mapping with the Course
1	Wireless communication (Mobile, Wi-Fi)
2	Function analysis

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target -May 2022
Course Passing % – Average of 6 Divisions	95%
Marks Obtained by Course Topper (marks/100)	90

Division A		
Year	Initials of Teacher	% Result
May 2022	PD	--

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
--	--	--

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus–Early Transcendentals	James Stewart	Thompson	6 th	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus–Early Transcendentals	James Stewart	Thompson	6 th	1-5
2	Calculus and Analytical Geometry	George B. Thomas Jr., Ross L. Finney Maurice D. Weir	Addision Wesley Publishing Company	--	1-5
3	Schaum’s 3000 Solved Problems in Calculus	Elliot Mendelson	Tata McGraw Hill	--	1-5
4	The Advanced Calculus Problem Solver	Staff of Research & Education Association	Research & Education Association	--	1-5
5	Calculus Made easy	Silvanus P. Thompson, Martin Gardner	Palgrave	--	1-5

4.c List of E – Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus for Engineering Mathematics https://drive.google.com/file/d/0B2D2VI5_6vK1TORUZ_S1Kd0Jya3c/view?resourcekey=0-FFOf1_BfAG6rMtgV30rBgw	--	Handwritten Notes	-	1, 2, 4, 5
2	Calculus https://ocw.mit.edu/ans7870/resources/Strang/Edited/Calculus/Calculus.pdf	Gilbert Strong	MIT, Massachusetts	-	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.researchgate.net/publication/281611978_Using_Technology_in_Learning_Integral_Calculus Using Technology in Learning Integral Calculus	https://www.tandfonline.com/doi/abs/10.1080/0025570X.1999.11996728 Mathematics Magazine	1-5
2	https://www.researchgate.net/publication/299746102_Early_Basic_Foundations_of_Modern_Integral_Calculus Early Basic Foundations of Modern Integral Calculus	https://calteches.library.caltech.edu/4007/1/Calculus.pdf A Visual Approach to Calculus Problems	4
3	https://www.technoarete.org/common_abstract/pdf/IJSEM/v4/i11/Ext_80165.pdf Applications of Integral Calculus in Engineering	https://ieeexplore.ieee.org/document/8158638 Differential Calculus: Concepts and Notation	2-3

4.e Module Best Available in – Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - ✓						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 1, 2 and 3)
2	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 5 and 7)
3	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 4 and 6)
4	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 10 and 14)
5	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 8 and 13)

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Limits (https://www.youtube.com/watch?v=q76Yl4sQm_g)	Pre-requisite
2	Differentiation (https://www.youtube.com/watch?v=URvh5GOgzQ0)	1
3	Function and Continuity (https://www.youtube.com/watch?v=OO4ng1vn-Qw)	1
4	Integration (https://www.youtube.com/watch?v=XN7zbKXXaDk)	2
5	Application of derivatives (https://www.youtube.com/watch?v=WdU5Q3KoCZc&list=PLr6TOxpiWwuGexea6tmmd-oonqWyRZ3x2)	3
6	Application of integrals (https://www.youtube.com/watch?v=zW_ga4nemro)	3
7	Double Integration (https://www.youtube.com/watch?v=H7FRQj5ro50)	4
8	Triple Integration (https://www.youtube.com/watch?v=mlpQYY3uzT4)	4
9	Partial Differentiation (https://www.youtube.com/watch?v=pHVTZHOqyss)	5

4.g

Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://onlinecourses.nptel.ac.in/noc22_ma13/preview Basic Calculus	NPTEL	12 Weeks	Y (Paid)
2	https://www.edx.org/course/calculus-applied Calculus-Applied	Edx	4 – 6 hours per week	Y
3	https://www.coursera.org/learn/introduction-to-calculus?aid=true Introduction to Calculus	Coursera	5 weeks	Y

4.h

Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	--	--	--	--

4.i

Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	--	✓	--	Practice Questions

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	31/01/2022	30/04/2022	14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1		Induction and Introduction	Poll	Power-Point		
	2	1	Limits at Infinity	Viva	Power-Point, Droid		Calculus- Early Transcendental (Pg- 89)
	3	1	The Derivative as a Function	Poll	Power-Point, Droid		Calculus- Early Transcendental (Pg- 143)
2	Self Study	1	Derivatives of Polynomials and Exponential Functions				
	4	1	The Product and Quotient Rules	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 163)
	5	1	The Chain Rule	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 174)
	6	1	Related Rates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 204)
3	7	1	Class Test and Revision		Power-Point, Droid		
	8	2	The Definite Integral	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 353)
	Self Study	2	The Fundamental Theorem of Calculus				Calculus- Early Transcendental (Pg- 362)
	9	2	Indefinite Integrals	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 322)

4	10	2	The Substitution Rule	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-332)
	11	2	Integration by Parts	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-491)
	12	2	Trigonometric Integrals, Trigonometric Substitution	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-500 & 508)
5	13	2	Integration of Rational Functions by Partial Fractions	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-514)
	14	2	Improper Integrals	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-547)
	15	2	Revision		Power-Point, Droid	
6	16	3	Maximum and Minimum Values	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-266)
	17	3	Mean Value Theorem	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-302)
	18	3	, Indeterminate Forms and L'Hospital's Rule	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-219)
7	19	3	Areas between Curves	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-413)
	20	3	Arc Length	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-438)
	21	3	Area of a Surface of Revolution	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-444)
8	Self Study	3	Volumes by Cylindrical Shells			Calculus- Early Transcendental (Pg-432)
	22	3	Revision	Viva, THT	Power-Point, Droid	
	Self Study	4	Calculus with Parametric Curves			Calculus- Early Transcendental (Pg-692)
	23	4	Areas and Lengths in Polar Coordinates	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-705)
9	25	4	Conic Sections in Polar Coordinate	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-754)
	26	4	Double Integrals over Rectangles	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-1000)

	27	4	Double Integrals in Polar Coordinates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1018)
10	28	4	Triple Integrals in Cylindrical Coordinates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1048)
	29	4	Change of Variables in Multiple Integral	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1058)
	30	4	Revision	Viva, THT	Power-Point, Droid		
11	31	5	Partial Derivatives	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-906)
	32	5	The Chain Rule	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-949)
	33	5	Tangent Planes and Linear Approximations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-971)
12	34	5	Lagrange Multipliers	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-989)
	35	5	Modelling with Differential Equations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-561)
	36	5	Direction Fields and Euler's Method	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-579)
13	37	5	Separable Equations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-568)
	Self Study	5	Models for Population Growth, Linear Equations, Predator-Prey Systems.				
	38		Revision		Power-Point, Droid		
	39		Open Book Test		Quiz		
14	40		Class Assessment Test		Quiz		

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
Active Participation (10)	3 Assignments	-	Practical Submission (100 Scaled down to 20) Practical Assessment – 20 Final Practical/ Tutorial Exam – 20 marks		5 Test on Each Unit	20(IA)	N.A	30

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Differentiation	1	3 rd Week	4 th Week
2	Integration	2	6 th Week	7 th Week
3	Area of a curve	3	8 th Week	9 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1	✓	✓			✓
2	6	✓			2	✓	✓			✓
3	8	✓			5	✓	✓			✓

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	6 th Week	2,3	2,3	IA 1 (MCQ)20 Marks(Scaled to 7.5)	No IA Re-test IA is a Head of passing *
2 nd IA Test	12 th Week	4,5	4,5	IA 2(MCQ) 20 marks(Scaled to 7.5)	
Pop Quiz	14 th Week	1	1	N.A	N.A
Open Book Quiz	14 th Week	4	4	Quiz (MCQ)	N.A
Take Home Test	After every Lecture	1 to 5	1 to 5	N.A	N.A
Practical's/ Prelims					
Class Test/ Prelims	Week 3,6,8,12 & 14	1 to 5	1 to 5		
Any Other Test/ Exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					


 Principal
 VIDYALANKAR SCHOOL OF
 INFORMATION TECHNOLOGY
 Vidyalankar Marg, Wazirpur
 Educational Campus, Wazirpur (E)
 Mumbai - 400 047.



10. Beyond Syllabus Activities for Gap Mitigation

Sr. No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Module 1, 2, 3, 4, 5
4		Mini Projects	
5		Pop Quiz	
6		Mobile App Based Quiz	Module 3
7		Open Book Test	Module 4
8		Take Home Test	Module 1, 2, 3, 4, 5
9	Collaborative and Group Activity	Poster Presentation	✓
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	✓
16		Value Added Courses	
17		Lecture Capture Usage	✓

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1: Mr. Prabal Deep Das

External Industry Mentor



External Academic Mentor

VSIT Cluster Mentor Name: Mr. Umesh Koyande

Head of Dept. (Sign.)



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Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

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Cognitive	What do you want students to know?	Concepts related to Integration, Differentiation and the differences between them.
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Behavioural	What do you want students to be able to do?	Use Integral and derivatives as a mathematical tool for analysing any functions created during case studies due to regressions or similar statistics.

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CO No.	Statements	Related Module/s
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CO2	Perform integration of any functions.	Unit 2, 3 and 4
CO3	Apply the knowledge of derivatives and integration to different domains and obtain the results.	Unit 3
CO4	Apply the knowledge of multiple integrals and polar coordinates to solve real life problems with ease.	Unit 4
CO5	Use partial derivatives and differential equations to solve variety of problems.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '--': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '--':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS205	Calculus	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme								
		Theory Marks IA Test				End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Total of IA1 and IA2	Active Participation					
USDS205	Calculus	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	10	75	25	50	150	

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Div A	3	N.A.	N.A.	N.A.	N.A.	1.5	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Div A		3:00 pm – 4:00 pm	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Continuity and Derivatives; Differentiation rules:	8hrs	20
2	Integrals	8hrs	20
3	Applications of differentiation and integration	8hrs	20
4	Parametric Equations and Polar Coordinates; Multiple Integrals	8hrs	20
5	Partial Derivatives and Differential Equations	8hrs	20
* Insert rows for more modules in the Course		Total	40 hrs
			100%

2.b Prerequisite Courses

Sr. No.	Semester	Name of the Course	Topic/s
1	XII	Mathematics	Integration, Differentiation, Application of Integrals and derivatives

2.c Relevance to Future Courses

Sr. No.	Semester	Name of the Course
1	B.Sc. DS Sem IV	Numerical Methods
2	B.Sc. DS Sem V	Artificial Intelligence
3	B.Sc. DS Sem VI	Machine Learning

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

Sr. No.	Real Life Application Mapping with the Course
1	Wireless communication (Mobile, Wi-Fi)
2	Function analysis

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target -May 2022
Course Passing % – Average of 6 Divisions	95%
Marks Obtained by Course Topper (marks/100)	90

Division A		
Year	Initials of Teacher	% Result
May 2022	PD	--

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
--	--	--

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus–Early Transcendentals	James Stewart	Thompson	6 th	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus–Early Transcendentals	James Stewart	Thompson	6 th	1-5
2	Calculus and Analytical Geometry	George B. Thomas Jr., Ross L. Finney Maurice D. Weir	Addision Wesley Publishing Company	--	1-5
3	Schaum’s 3000 Solved Problems in Calculus	Elliot Mendelson	Tata McGraw Hill	--	1-5
4	The Advanced Calculus Problem Solver	Staff of Research & Education Association	Research & Education Association	--	1-5
5	Calculus Made easy	Silvanus P. Thompson, Martin Gardner	Palgrave	--	1-5

4.c List of E – Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Calculus for Engineering Mathematics https://drive.google.com/file/d/0B2D2VI5_6vK1TORUZ_S1Kd0Jya3c/view?resourcekey=0-FFOf1_BfAG6rMtgV30rBgw	--	Handwritten Notes	-	1, 2, 4, 5
2	Calculus https://ocw.mit.edu/ans7870/resources/Strang/Edited/Calculus/Calculus.pdf	Gilbert Strong	MIT, Massachusetts	-	1-5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.researchgate.net/publication/281611978_Using_Technology_in_Learning_Integral_Calculus Using Technology in Learning Integral Calculus	https://www.tandfonline.com/doi/abs/10.1080/0025570X.1999.11996728 Mathematics Magazine	1-5
2	https://www.researchgate.net/publication/299746102_Early_Basic_Foundations_of_Modern_Integral_Calculus Early Basic Foundations of Modern Integral Calculus	https://calteches.library.caltech.edu/4007/1/Calculus.pdf A Visual Approach to Calculus Problems	4
3	https://www.technoarete.org/common_abstract/pdf/IJSEM/v4/i11/Ext_80165.pdf Applications of Integral Calculus in Engineering	https://ieeexplore.ieee.org/document/8158638 Differential Calculus: Concepts and Notation	2-3

4.e Module Best Available in – Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - ✓						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 1, 2 and 3)
2	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 5 and 7)
3	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 4 and 6)
4	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 10 and 14)
5	✓		✓					✓	Calculus–Early Transcendentals (Chapter- 8 and 13)

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Limits (https://www.youtube.com/watch?v=q76Yl4sQm_g)	Pre-requisite
2	Differentiation (https://www.youtube.com/watch?v=URvh5GOgzQ0)	1
3	Function and Continuity (https://www.youtube.com/watch?v=QO4ng1vn-Qw)	1
4	Integration (https://www.youtube.com/watch?v=XN7zbKXXaDk)	2
5	Application of derivatives (https://www.youtube.com/watch?v=WdU5Q3KoCZc&list=PLr6TOxpiWwuGexea6tmmd-oonqWyRZ3x2)	3
6	Application of integrals (https://www.youtube.com/watch?v=zW_ga4nemro)	3
7	Double Integration (https://www.youtube.com/watch?v=H7FRQj5ro50)	4
8	Triple Integration (https://www.youtube.com/watch?v=mlpQYY3uzT4)	4
9	Partial Differentiation (https://www.youtube.com/watch?v=pHVTZHOqyss)	5

4.g

Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://onlinecourses.nptel.ac.in/noc22_ma13/preview Basic Calculus	NPTEL	12 Weeks	Y (Paid)
2	https://www.edx.org/course/calculus-applied Calculus-Applied	Edx	4 – 6 hours per week	Y
3	https://www.coursera.org/learn/introduction-to-calculus?aid=true Introduction to Calculus	Coursera	5 weeks	Y

4.h

Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	--	--	--	--

4.i

Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	--	✓	--	Practice Questions

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	31/01/2022	30/04/2022	14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted (Quiz, Poll, Viva, Student Presentation, THT, any other)	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1		Induction and Introduction	Poll	Power-Point		
	2	1	Limits at Infinity	Viva	Power-Point, Droid		Calculus- Early Transcendental (Pg- 89)
	3	1	The Derivative as a Function	Poll	Power-Point, Droid		Calculus- Early Transcendental (Pg- 143)
2	Self Study	1	Derivatives of Polynomials and Exponential Functions				
	4	1	The Product and Quotient Rules	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 163)
	5	1	The Chain Rule	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 174)
	6	1	Related Rates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 204)
3	7	1	Class Test and Revision		Power-Point, Droid		
	8	2	The Definite Integral	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 353)
	Self Study	2	The Fundamental Theorem of Calculus				Calculus- Early Transcendental (Pg- 362)
	9	2	Indefinite Integrals	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg- 322)

4	10	2	The Substitution Rule	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-332)
	11	2	Integration by Parts	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-491)
	12	2	Trigonometric Integrals, Trigonometric Substitution	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-500 & 508)
5	13	2	Integration of Rational Functions by Partial Fractions	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-514)
	14	2	Improper Integrals	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-547)
	15	2	Revision		Power-Point, Droid	
6	16	3	Maximum and Minimum Values	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-266)
	17	3	Mean Value Theorem	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-302)
	18	3	, Indeterminate Forms and L'Hospital's Rule	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-219)
7	19	3	Areas between Curves	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-413)
	20	3	Arc Length	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-438)
	21	3	Area of a Surface of Revolution	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-444)
8	Self Study	3	Volumes by Cylindrical Shells			Calculus- Early Transcendental (Pg-432)
	22	3	Revision	Viva, THT	Power-Point, Droid	
	Self Study	4	Calculus with Parametric Curves			Calculus- Early Transcendental (Pg-692)
	23	4	Areas and Lengths in Polar Coordinates	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-705)
	24	4	Areas and Lengths in Polar Coordinates	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-705)
9	25	4	Conic Sections in Polar Coordinate	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-754)
	26	4	Double Integrals over Rectangles	Viva, THT	Power-Point, Droid	Calculus- Early Transcendental (Pg-1000)

	27	4	Double Integrals in Polar Coordinates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1018)
10	28	4	Triple Integrals in Cylindrical Coordinates	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1048)
	29	4	Change of Variables in Multiple Integral	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-1058)
	30	4	Revision	Viva, THT	Power-Point, Droid		
11	31	5	Partial Derivatives	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-906)
	32	5	The Chain Rule	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-949)
	33	5	Tangent Planes and Linear Approximations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-971)
12	34	5	Lagrange Multipliers	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-989)
	35	5	Modelling with Differential Equations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-561)
	36	5	Direction Fields and Euler's Method	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-579)
13	37	5	Separable Equations	Viva, THT	Power-Point, Droid		Calculus- Early Transcendental (Pg-568)
	Self Study	5	Models for Population Growth, Linear Equations, Predator-Prey Systems.				
	38		Revision		Power-Point, Droid		
	39		Open Book Test		Quiz		
14	40		Class Assessment Test		Quiz		

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
Active Participation (10)	3 Assignments	-	Practical Submission (100 Scaled down to 20) Practical Assessment – 20 Final Practical/ Tutorial Exam – 20 marks		5 Test on Each Unit	20(IA)	N.A	30

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Differentiation	1	3 rd Week	4 th Week
2	Integration	2	6 th Week	7 th Week
3	Area of a curve	3	8 th Week	9 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1	✓	✓			✓
2	6	✓			2	✓	✓			✓
3	8	✓			5	✓	✓			✓

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	6 th Week	2,3	2,3	IA 1 (MCQ)20 Marks(Scaled to 7.5)	No IA Re-test
2 nd IA Test	12 th Week	4,5	4,5	IA 2(MCQ) 20 marks(Scaled to 7.5)	IA is a Head of passing *
Pop Quiz	14 th Week	1	1	N.A	N.A
Open Book Quiz	14 th Week	4	4	Quiz (MCQ)	N.A
Take Home Test	After every Lecture	1 to 5	1 to 5	N.A	N.A
Practical's/ Prelims					
Class Test/ Prelims	Week 3,6,8,12 & 14	1 to 5	1 to 5		
Any Other Test/ Exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					



10. Beyond Syllabus Activities for Gap Mitigation

Sr. No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Module 1, 2, 3, 4, 5
4		Mini Projects	
5		Pop Quiz	
6		Mobile App Based Quiz	Module 3
7		Open Book Test	Module 4
8		Take Home Test	Module 1, 2, 3, 4, 5
9	Collaborative and Group Activity	Poster Presentation	✓
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	✓
16		Value Added Courses	
17		Lecture Capture Usage	✓

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1: Mr. Prabal Deep Das

External Industry Mentor



VSIT Cluster Mentor Name: Mr. Umesh Koyande

External Academic Mentor

Head of Dept. (Sign.)



Version 2022-1

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e-books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To know about concept of the DBMS with respect to principles, design, and implementation of DBMS.
Affective	What do you want students to think / care about?	To think about the fundamentals of creation, manipulation and querying of data in databases.
Behavioural	What do you want students to be able to do?	To be able to understand the functional and data requirements of database application and should be able to perform different queries with the database to get the desired results.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand about fundamentals of database, DBMS Architecture, various types of Data Model.	Unit 1
CO2	To learn about the various concepts of Advanced Data Modelling and process of Normalization of Database tables.	Unit 2
CO3	To be able to create, manipulate, query and back up the databases with features of SQL.	Unit 3
CO4	To be able to understand the concept of database design and concepts of Advanced SQL.	Unit 4
CO5	To understand about Transaction Management Concurrency Control, Database Performance Tuning, Query Optimization, and the role of Database Administration.	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS202	Database Management	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme								
		Theory Marks IA Test				End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2	Active Participation					
USDS202	Database Management	30 (Scaled to 7.5)	30 (Scaled to 7.5)	15	10	75	25	50		150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday	3:00 pm – 4:00 pm	Reading Room/ MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction & DBMS Architecture Data Models, Entity Relationship Model	10	20
2	Advanced Data Modelling, Normalization of Database Tables:	6	20
3	Structured Query Language (SQL)	5	20
4	Advanced SQL: Database Design	7	20
5	Transaction Management and Concurrency Control: Database Performance Tuning and Query Optimization: Database Administration and Security	12	20
* Insert rows for more modules in the Course Total		40	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12 th	IT	Introduction
2	1	Web Technology	Tables, Database

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	3	Data warehousing

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Social Media sites - Social media accounts like Facebook, twitter, Pinterest and Google plus in this all the information of users is stored and how we become able to connect to other people, yes this all because DBMS.
2	Military -Military keeps records of millions of soldier's files that should be secured and safe. DBMS provides a big security assurance to the military information, so it is widely used in militaries.
3	Finance - DBMS helps in Storing sales, holding information and finance statement management
4	Telecommunications- Telecommunication company cannot even think about their business without DBMS. DBMS is must for these companies to store the call details and monthly postpaid bills
5	Human Resource Management- Human resource management department keeps records of each employee's salary, tax and work through DBMS.

3 Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target -May 2022	Apr 2021	Apr 2020	Apr 2019
Course Passing %	95	NA	NA	NA
Marks Obtained by Course Topper (mark/100)	100	NA	NA	NA

Division A		
Year	Initials of Teacher	% Result
Apr 2021	NA	NA

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Fundamentals of Database Systems	Elmsari Ramez and Navathe Shamkant B	Pearson	Sixth	1-5
2	Database System Concepts	A Silberschatz, H Korth, S Sudarshan	McGraw-Hill	Fifth	1-5
3	Database Management Systems	Raghu Ramakrishnan, Johannes Gehrke	McGraw Hill Publication		1-5
4	Murach's MySQL	Joel Murach	Murach		1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Programming with PL/SQL for Beginners	H. Dand, R. Patil and T. Sambare	X –Team	First	1-4
2	Introduction to Database System	C.J.Date	Pearson	First	1-4
3	SQL ,PL/SQL	Ivan Bayross	BPB	Fourth	5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	"Database Systems, Concepts, Design and Applications".	S.K.Singh,	Pearson Education		All
2	Database System Concepts	A Silberschatz, H Korth, S Sudarshan	McGraw-Hill	5 th Edition	All

3	"Fundamentals of Database Systems"	Elmsari, Navathe	Pearson Education (2008).	6th Edition	All
4	"The Database Systems – The Complete Book"	H G Molina,D Ullam	J. Widom Pearson		All

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	International Journal on Data Base Management Systems http://airccse.org/journal/ijdms/ijdms.html	Introduction to Databases By Dixon Kimani https://www.techopedia.com/6/28832/enterprise/databases/introduction-to-databases	1,2
2	Journal on Database Management System https://www.managementstudyguide.com/database-management-system-articles.htm	Operational Database Management Systems http://www.odbms.org/odmg-standard/reading-room/magazines/	4
3	Database journal the knowledge center for Database Professionals https://www.databasejournal.com/	MySQL, SQL Server, MS Access, Oracle, Sybase, Informix, Postgres, and other database systems https://www.w3schools.com/sql/default.asp	1-5
4	OXFORD Academic -Database The journal of Biological Databases and Curation https://academic.oup.com/DATABASE/		2

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					Y		Database System and Concepts A Silberschatz, H Korth, S Sudarshan McGraw-Hill Page No. 1 to 15 and 259 to 304 DataBase System Rob,coronel Page No. 9,13,23 to 39 and 119-149
2	✓	✓					Y		Database System and Concepts A Silberschatz, H Korth, S Sudarshan McGraw-Hill Page No. 39 to 48 and 217 to 245 DataBase System Rob,coronel Page No. 176-188
3	✓	✓					Y		Database System and Concepts A Silberschatz, H Korth, S Sudarshan McGraw-Hill Page No. 57 to 98 and 157 to 180 DataBase System Rob,coronel Page No. 210-258

4	✓	✓		✓			Y	Database System and Concepts A Silberschatz, H Korth, S Sudarshan McGraw-Hill Page No. 627to 641and661, 681 DataBase System Rob,coronel Page No. 460-475
5	✓	✓					Y	Database System and Concepts A Silberschatz, H Korth, S Sudarshan McGraw-Hill Page No. 5 157 to 180 DataBase System Rob,coronel Page No. 266-278 SQL,PL/SQL Ivan Bayross Page No 338-433

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/NPTEL Videos

No.	Websites / Links	Module Nos.
1	Data abstraction in DBMS https://www.youtube.com/watch?v=5fs1ld06B5c&t=2s	1-5
2	Basic concept of NORMALIZATION https://www.youtube.com/watch?v=oylHRgBDfNc	1-5
3	Conflict Serializability https://www.youtube.com/watch?v=zv0ba0lok1Y	1-5
4	Many to many relationships https://www.youtube.com/watch?v=onR_sLhbZ4w&list=PLxCzCOWd7aiFAN6I8CuViBuCdJgiOKT2Y&index=18	1-5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Spoken Tutorial – RDBMS	IIT, Bombay	25 Hrs.	Y
2	Database and SQL for Data Science https://www.coursera.org/learn/sql-data-science#syllabus	Coursera - IBM	4 Weeks- 14 Hours	Y
3	Introduction to Database and SQL Querying https://www.udemy.com/introduction-to-databases-and-sql-querying/	www.udemy.com	2.5 Hrs	Y
4	SQL for Data Science https://www.coursera.org/learn/sql-for-data-science#about	Coursera-University of California	4 weeks- 14 Hours	Y
5	SOLO learn-SQL https://www.sololearn.com/Course/SQL/	https://www.sololearn.com	4 Modules- 104 Quiz	Y

4.h Recommended Value-Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Applications of Database(Workshop)	Ms. Chanda Vijaykar, Accenture	3 Hrs	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	31/01/2022	/04/2022	14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	Activities to be conducted	Teaching Methodology (PPT, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./Books / Web Site
1	1	1	AAP Discussion - Induction	Poll	PPT, Video Clip	1	
	2	1	Introduction & DBMS Architecture: Why Databases? Data versus information, Introducing To Database	Viva	PPT, Video Clip	2	1/4-8/1
	3	1	Role and advantages of DBMS. Types of Databases	Quiz, Poll	PPT	3	1/17-22/1
2	4	1	Why Database design is important, Evolution of File System Data Processing	Viva	PPT	4	1/323-324/1
	5	1	Problems with File System Data Processing, Database Systems	Poll	PPT	5	1/324/1
	6	1	Data Models: Data Modelling and Data Models, The Importance of Data Models	Poll	PPT,	6	2/30-34/1
3	7	1	Data Models Basic Building	Poll	PPT	7	2/35/1

			Blocks, Business Rules				
	8	1	The Evolution Data Models, Degrees of Data Abstraction	Poll	PPT	8	2/35/4
	9	1	Entity Relationship Model: Entities, Attributes, Relationships, Connectivity and Cardinality, Existence Dependence, Relationship Strength, Weak Entitles, Relationship Participation	Poll	PPT	9	7/199-211/1
4	10	1	Relationship Degree, Recursive Relationships, Associative (Composite) Entities, Developing an ER Diagram	Viva, Class Test 1	PPT	10	7/212-219/1
	SS	1	Database Design Challenges: Conflicting Goals	Viva	Group Discussion	SS	7/220/1
	11	2	Advanced Data Modelling: The Extended Entity Relationship Model, Entity Clustering, Entity Integrity: Selecting Primary Keys,	Poll	PPT	11	8/245-255/1
	12	2	Design Cases: Learning Flexible Database Design	Quiz, PBL	PPT	12	8/248-257/1
5	13	2	Normalization of Database Tables: Database Tables and Normalization, The Need For Normalization The Normalization Process	Quiz, Poll, Viva	PPT	13	15/501-508/1
	14	2	The Normalization Process, Improving the Design,	Quiz, Poll, Viva	PPT, Video Clip	14	15/509-515/1

			Surrogate Key Considerations				
	15	2	Higher Level Normal Forms,	Pop Quiz, Poll	PPT	15	15/516-535/1
6	16	2	Normalization and Database Design	Viva, Class Test 1	PPT	16	15/518
	SS	2	Denormalization, Data-Modelling Checklist	Viva	Group Discussion	SS	15/520
	17	3	Structured Query Language (SQL): Introduction To SQL, Basic SQL Queries, SELECT Statement Options, FROM Clause Options, ORDER BY Clause Options	Poll, Class Test 2	PPT, Video Clip	17	4/87-107/1
	18	3	WHERE Clause Options, Aggregate Processing,	Pop Quiz	PPT	18	5/124-126/1
7	19	3	Subqueries, SQL Functions,	Viva	PPT	19	5/117-122/1
	20	3	Relational SET Operators, Crafting SELECT Queries	Viva, Class Test 1	PPT	20	1/2/48,51
	21	3	SQL Queries with Real Examples	PBL	PPT	21	
8	22	4	Advanced SQL: Data Definition Commands, Table Structures,	Poll	PPT	22	2/5/255
	23	4	Data Manipulation Commands, Virtual Tables: Creating a View	Viva, Class Test 3	PPT	23	2/5/256
	SS	4	Embedded SQL	Viva	Group Discussion	SS	2/5/259
	24	4	Creating Sequences, Procedural SQL	OBT	PPT	24	2/5/261
9	25	4	Database Design: The Information System, The Systems Development Life Cycle	Viva, Poll	PPT	25	2/5/265
	26	4	The Database Life Cycle,	Quiz, Poll	PPT	26	2/5/267
	27	4	Conceptual Design, DBMS	Quiz, Poll	PPT	27	2/5/268

			Software Selection				
10	28	4	Logical Design, Physical Design, Database Design Strategies	Viva, Class Test 1	PPT	28	2/5/267
	SS	4	Centralized versus Decentralized Design	Viva	Group Discussion	SS	2/5/269
	29	5	Transaction Management and Concurrency Control: What is Transaction? Concurrency Control With Locking Methods	Quiz Class Test 4	PPT	29	1/15/663
	30	5	Concurrency Control With Stamping Methods	Quiz, Poll	PPT	30	1/15/666
11	31	5	Concurrency Controls With Optimistic Methods	Quiz, Poll	PPT	31	1/12/323
	SS	5	ANSI Levels of Transaction Isolation	Viva	Group Discussion	SS	3/14/635
	32	5	Database Recovery Management	Viva	PPT, Video Clip	32	3/16/721
	33	5	Database Performance Tuning and Query Optimization: Database Performance Tuning Concepts, Query Processing	Poll	PPT	33	3/24/1029
12	34	5	Indexes and Query Optimization	Quiz	PPT	34	3/19/681
	35	5	Optimizer Choices, SQL Performance Tuning	Viva, Class Test 4	PPT	35	3/19/685
	36	5	Query Formulation, DBMS Performance Tuning	Poll, Quiz	PPT	36	3/19/700
	SS	5	Query Optimization Examples	PBL	GD	SS	3/19/687
13	37	5	Database Administration	Poll	PPT	37	

			and Security: Data as a Corporate Asset, The Need For a Database and its Role In an Organization				
	SS	5	Introduction of a Database: Special Considerations	Viva	GD	SS	3/24/842
	38	5	The Evolution of Database Administration, The Database Environment's Human Component	Poll	PPT	38	3/24/855
	39	5	Database Administration Tools, Developing a Data Administration Strategy	Poll	PPT	39	3/24/866
14	40	5	The DBAs Role In Cloud, The DBA at work: Using Oracle For Database Administration	Class Test 5	PPT	40	3/24/868

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	3	-	Practical Submission (100 Marks) scaled to 20 Marks, Pract Assessment #1 – (20 Marks) scaled to 10 Marks, Final Pract Exam (Mini-Project presentation + Viva) – 20 Marks			IA 1 (MCQ) – 30 Marks, IA 2 (MCQ) – 30 Marks Scaled to 15 Marks	-	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Introduction & DBMS Architecture, Data Models and ER Model	1	3 rd week	4 th week

Analysis of Assignment / Tutorial Questions and Related Resources



Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1	✓			2	1

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 th week	1,2	1,2	Q1 – 15 Marks Q2 – 15 Marks	No IA Re-test
2 nd IA Test	10 th week	3,4	3,4		IA is a Head of passing *
Pop Quiz	5 th week, 7 th week	2	2	MSTeams	
Open Book Test	9 th week	3	3	MSTeams	
Take Home Test	10 th week	4	4	MSTeams	
Class tests / prelims	3 rd and 5 th week	1,2	1,2	MSTeams	

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	For a given scenario Draw ER diagrams and convert entities and relationships to tables	ER Diagrams	1	4
2	3	Write SQL Query for given problem statement a. Viewing all Database b. Creating a Database c. Viewing All Tables in Database	Creating Databases	3	4
3	3	Perform the following operations a. Creating Tables With and Without Constraints b. Inserting and Updating and Deleting Records in a table c. Commit and Rollback	Tables and Constraints	3	4

4	3	Perform the following operations a. Altering a Table b. Dropping and Truncating and Renaming a Table c. Backing Up and Restoring a Database	Data Definition Language	3	4
5	3	Perform the following operations a. Simple Queries with Where Operators b. Where With Keywords and Logical Operators c. Simple Queries With Aggregate Functions d. Queries with Aggregate Functions (Group By and Having Clause)	Simple Queries	3	4
6	3	Perform Queries Involving a. Date Functions b. String Functions c. Math Functions	Simple Queries With Functions	3	4
7	4	Retrieving Data From Multiple Tables a. Joining Tables (Inner Joins and Outer Joins) b. Aliases For Table Names	Joins	4	4
8	4	Subqueries With IN Clause With EXISTS Clause Handling NULL	Subqueries	4	4
9	4	Views Creating Views Dropping Views Selecting From View	Views	4	4
10	4	DCL Statements Granting and Revoking Statement's	Transaction Control Language	4	4

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	3	Queries on the Banking Database	SQL	3	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes (Workshop on Applications of Database by Ms. Chanda Vijaykar, Accenture)
2		Industrial Visit	-
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	Yes
5		Pop Quiz	Yes
6		Mobile App Based Quiz	Yes
7		Open Book Test	Yes
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	-
11		Students Seminar	-
12		Students Debates	Yes
13		Panel Discussion / Mock GD	-
14		Mock Interview	-
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	-
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

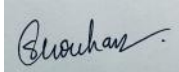
Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Aasha Chavan

Faculty Name (Sign.)



External Industry Mentor (Sign.)



External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Version 2021-22

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To gain knowledge about the various tags, developing responsive web pages.
Affective	What do you want students to think / care about?	To think about different and innovative ideas to develop a web page.
Behavioural	What do you want students to be able to do?	To implement the knowledge positively for developing online websites.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand various terminologies of Internet, simple application of HTML5	Unit 1
CO2	To design web pages using advanced HTML5	Unit 2
CO3	To implement the various properties of CSS and design a good UI.	Unit 3
CO4	To develop simple, responsive web pages using JavaScript	Unit 4
CO5	To learn how to interchange data using JSON	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category		✓					

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USDS103	Web Technology	75	50	--	2	2	--	4

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USDS103	Web Technology	30	30	Scaled to 15 + 10 Class Participation	75	25	50	-	150

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	4	2	2	--	--	--	--	--	--

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Wednesday	3:00-4:00	Staff Room

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Internet, WWW and HTML5	10	20

2	HTML5	10	20
3	CSS	08	20
4	JavaScript	12	20
5	JSON	08	20
* Insert rows for more modules in the Course		Total	48 lecture x 60 minutes
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	H.S.C	CS	ALL
2			
3			
4			

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	BScDS (sem VI)	Project Implementation

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	VSIT Website
2	Websites like Facebook, eBay use JavaScript
3	MetLife application, Forbes CMS uses JSON

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Oct 2022	Oct 2021	Oct 2020	Oct 2019
Course Passing % – Average of 5 Divisions	100%	100%	NA	NA
Marks Obtained by Course Topper (mark/100)	98	95	NA	NA

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Oct 2021	SC	100%	-	-	-	-

Oct 2020	-	-	-	-	-	-
Oct 2019	-	-	-	-	-	-

Year	Division D		Division E	
	Initials of Teacher	% Result	Initials of Teacher	% Result
Oct 2021	-	-	-	-
Oct 2020	-	-	-	-
Oct 2019	-	-	-	-

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
JavaScript Events	4	more examples should be given

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Web Programming	Sweta Chheda	Sheth		I,II,III,IV
2	Web Design The Complete Reference	Thomas Powell	Tata McGraw Hill		I,II,III
3	Head First HTML 5 programming	Eric Freeman	O'Reilly		I,II

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	HTML 5 step by step	Faithe Wempen	Microsoft Press		I, II
2	JavaScript 2.0: The Complete Reference	Thomas Powell and Fritz	Tata McGraw Hill	II	IV
3	Beginning JSON	Ben Smith	APress	1 st	V

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	http://www.ebook-daraz.com/microsoft-press-html5-step-step-faithe-wempen-ebook-free-download/	Faithe Wempen	Microsoft Press		I, II
2	https://gamerfancreations.weebly.com/.../mcgraw-hill-javascript-the-complete-reference	Thomas Powell and Fritz	Tata McGraw Hill		IV

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Journal of Web Development and Web Designing: http://matjournals.com/Journal-of-Web-Development-and-Web-Designing.html	Webgranth: http://www.webgranth.com/	All
2	International Journal of Web Engineering and Technology: https://www.inderscience.com/jhome.php?jcode=ijwet	Webdesigner Depot: https://www.webdesignerdepot.com/	All
3	Webdevelopersjournal: https://www.webdevelopersjournal.com/	Smashing Magazine — For Web Designers And Developers: https://www.smashingmagazine.com/	All
4	JSON Proceedings: https://dl.acm.org/doi/10.1145/3034786.3056120		5
5	JavaScript Journal https://ieeexplore.ieee.org/document/8291778	Javascript Magazine https://javascript-conference.com/javascript-magazine-02-2020/	4

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - v						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.) (10 books available in library)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					Y		Web Programming, Chapter 1 (T) HTML5 Step by Step, Chapter 1 – 9 (R)
2	✓	✓					Y		HTML5 Step by Step Chapter 10-15 (R), Web Programming, Chapter 3(T)
3	✓	✓	✓				Y		Web Programming, Chapter 5 (T), HTML5 Step by Step (R)
4	✓	✓					Y		Web Programming, Chapter 13 (T) JavaScript 2.0: The Complete Reference, Chapter 1-5, 11 (R)
5		✓				✓	Y		Beginning JSON (R)

4.f Web Links for Online Notes/YouTube/VSIT Digital Content /NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (v-refer)	1-5
2	Online Notes and PPTs (v-refer)	1-5
3	HTML5 and CSS Tutorial https://www.youtube.com/watch?v=5ePVoAgvU1k&list=PL411fR-	1-3

	6DnOq3BebucTNMSVDojCliv_en	
4	JavaScript https://www.youtube.com/watch?v=W6NZfCO5SIk	4
5	JSON https://www.youtube.com/watch?v=JUFdz8f-cT4	5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.mooc-list.com/course/responsive-website-basics-code-html-css-and-javascript-coursera (HTML5, CSS & JAVASCRIPT)	Coursera	4 Weeks	Y
2	https://www.edx.org/course/html5-css-fundamentals-w3cx-html5-0x-0 (HTML5, CSS)	edX	6 Weeks	Y
3	Spoken Tutorial: HTML5 & CSS	Spoken Tutorial, IIT Bombay	14 videos	Y

4.h Recommended Value-Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	My Brand, My Website	Ms. Seema Murkar, Ms. Ketaki Ghawali	30hrs	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration			12

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Activities to be conducted	Teaching Methodology (Power point, Video Clip, Simulation, Flipped Classroom, Group Discussion, any other)	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	Unit I	Internet and WWW What is Internet? Introduction to internet and its applications, telnet, FTP	Quiz	PPT, Video Clip	1	Web Programming/Ch1
	2	1	Internet service providers, domain name server, internet address, search engine, web server – apache, IIS, proxy server, HTTP protocol	Quiz	PPT	2	Web Programming/Ch1
	3	1	What Is Web Design? Defining Web Design, Web Design Themes, Learning Web Design.	Poll	PPT	3	Web Programming/Ch1
	4	1	User-Centered Design: Usability, Common User Characteristics, Memory, Response and Reaction Times, Dealing with Stimulus, Movement Capabilities,	Nearpod	PPT	4	Web Programming/Ch2
2	5	1	The User's World, General Types of Users, Web Conventions, Accessibility, Building a Usable Site			5	Web Programming/Ch2
	6	1	HTML 5 Introduction, Why HTML5? Structure of HTML file	True or False	PPT, Simulation	6	Ch 1/ HTML 5 Step by Step

	7	1	Formatting text by using tags, using lists and backgrounds		PPT	7	Ch 3/ HTML 5 Step by Step
	8	1	Creating hyperlinks and anchors		PPT, Simulation	8	Ch 5/ HTML 5 Step by Step
3	9	1	Viva/ Question Solving on Unit I		Written Assignment 1	9	
	10	1	Viva/ Question Solving on Unit I		Written Assignment 1	10	
	SS	1	Who Are Web Users?	Quiz	PPT		Ch 1/ Web Programming
	SS	1	browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla	Quiz	PPT		Ch 1/ Web Programming
	11	Unit II	creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar	Poll	PPT, Simulation	11	Ch 10/ HTML 5 Step by Step
	12	2	creating image map, redirecting to another URL,		PPT, Simulation	12	Ch 10/ HTML 5 Step by Step
4	13	2	creating division based layouts: HTML5 semantic tags, creating divisions		PPT, Simulation	13	Ch 11/ HTML 5 Step by Step
	14	2	creating HTML5 semantic layout, positioning and formatting divisions	Puzzle	PPT, Simulation	14	Ch 11/ HTML 5 Step by Step
	15	2	HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, formatting tables:		Simulation	15	Ch 12/ HTML 5 Step by Step

			applying table borders, applying background 2and foreground fills, changing cell padding, spacing and alignment				
	16	2	merging table cells, using tables for page layout, creating user forms: creating basic form, additional input types in HTML5		Simulation	16	Ch 12/ HTML 5 Step by Step
	17	2	using check boxes and option buttons, creating lists, Incorporating sound and video: audio and video in HTML5		Simulation	17	Ch 14/ HTML 5 Step by Step
5	18	2	embedding video clips, incorporating audio on web page	Time to Climb	Simulation	18	Ch 15/ HTML 5 Step by Step
	19	2	Viva/ Question Solving on Unit II		PBL	19	
	20	2	Viva/ Question Solving on Unit II		PBL	20	
	SS	2	HTML multimedia basics	WAP & submit	Video Clip		Ch 15/ HTML 5 Step by Step
	SS	2	Semantic Tags	WAP & submit	Video Clip		
	21	Unit III	Introduction to Style Sheets : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles	Match Card Activity	PPT, Video Clip	21	Ch 6/ HTML 5 Step by Step
6	22	3	Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets, Formatting Text by Using Style Sheets: Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining,		PPT, Video Clip	22	Ch 7/ HTML 5 Step by Step

	23	3	Creating Inline Spans , Adjusting Spacing Between Letters Formatting Paragraphs by Using Style Sheets: Indenting Paragraphs, Applying a Border to a Paragraph, Specifying a Border Style, Setting Border Padding, Specifying Border Width and Color	Quiz	PPT, Video Clip	23	Ch 8/ HTML 5 Step by Step
	24	3	Formatting Border Sides Individually, Setting All Border Attributes at Once, Specifying Vertical Space within a Paragraph	Discussion	Simulation	24	Ch 8/ HTML 5 Step by Step
7	25	3	Displaying Graphics: Selecting a Graphics Format, Preparing Graphics for Web Use, Inserting Graphics	Quiz	PPT	25	Ch 9/ HTML 5 Step by Step
	26	3	Arranging Elements on the Page, Controlling Image Size and Padding, Hyperlinking from Graphics, Using Thumbnail Graphics, Including Alternate Text for Graphics, Adding Figure Captions	Quiz	PPT	26	Ch 9/ HTML 5 Step by Step
	27	3	Viva/ Question Solving on Unit III	Match Card	Nearpod	27	
	28	3	Viva/ Question Solving on Unit III	Match Card	Nearpod	28	
	SS	3	Setting All Border Attributes at Once	WAP & submit	PPT		Ch 8/ HTML 5 Step by Step
	SS	3	Specifying the Horizontal Alignment of a Paragraph	WAP & submit	PPT		
8	29	Unit IV	JavaScript Objects, JavaScript Security	Match Card	PPT	29	Ch 1/ Javascript Complete Reference

	30	4	Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date	Quiz	PPT, Simulation	30	Ch 7/ Javascript Complete Reference
	31	4	Function, Number	Puzzle	PPT, Simulation	31	Ch 7/ Javascript Complete Reference
	32	4	Object, String, RegExp	Poll	Simulation	32	Ch 6,8/ Javascript Complete Reference
9	33	4	Document and its associated objects: document, document object methods, Link, Area, Anchor, Image, Layer,	Poll	Simulation	33	Ch 9,10/ Javascript Complete Reference
	34	4	Events and Event Handlers : General Information about Events, Defining Event Handlers	Quiz	PPT, Simulation	34	Ch 11/ Javascript Complete Reference
	35	4	event, onAbort, onBlur, onChange, onClick, onDbClick, onDragDrop, onError, onFocus,	Quiz	Simulation	35	Ch 11/ Javascript Complete Reference
	36	4	onKeyDown, onKeyPress, onKeyUp, onLoad,	Time To Climb	PPT, Simulation	36	Ch 11/ Javascript Complete Reference
10	37	4	onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove		Simulation	37	Ch 11/ Javascript Complete Reference
	38	4	onReset, onResize, onSelect, onSubmit, onUnload		Simulation	38	Ch 11/ Javascript Complete Reference

	SS	4	Client – side JavaScript, Server – side JavaScript	Quiz	PPT		Ch 1/ Javascript Complete Reference
	SS	4	Math	Quiz	PPT		
	39	4	Viva/ Question Solving on Unit IV	Quiz	Edureka Class Activity	39	
	40	4	Viva/ Question Solving on Unit IV	Quiz	Edureka Class Activity	40	
11	41	Unit V	JSON: Introduction, JSON Grammar	Poll	PPT, Video Clip	41	Ch 4/ Beginning JSON
	42	5	JSON Values, JSON Tokens	Poll	PPT	42	Ch 4/ Beginning JSON
	43	5	Syntax, Objects		Simulation	43	Ch 4/ Beginning JSON
	44	5	Arrays, Creating JSON,		PPT, Video Clip	44	Ch 5/ Beginning JSON
12	45	5	JSON Object, Parsing JSON, Persisting JSON		PPT, Video Clip	45	Ch 6/ Beginning JSON
	46	5	Data Interchange, JSON HTML, JSONP	Quiz	Simulation	46	Ch 7,8/ Beginning JSON
	47	5	Viva/ Question Solving on Unit V	OBT	Class notes	47	
	48	5	Viva/ Question Solving on Unit V	OBT	Class notes	48	
	SS	5	JSON vs XML	Quiz	PPT		

	SS	5	Data Types	Quiz	PPT		
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6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class Participation	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	2	-	-	-	-	IA 1 (Descriptive) - 30 Marks, IA 2 (MCQs) – 30 Marks Scaled to 15 Marks	-	75

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Applications of Internet, Links and CSS	CO1	3 rd Week	
2	PBL on Navigation Bar, Semantic tags, Forms	CO2	6 th Week	

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1	4a(1)			✓	✓
2	6	✓			2	4a(1)	4b(1)			✓

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 th Week	1,2	1,2	Q1 – 15 Marks Q2 – 15 Marks	No IA Re-test

2 nd IA Test	12 th Week	3,4	3,4		IA is a Head of passing *
Pop Quiz	8 th Week	2	2	MS - Teams	
Open Book Test	10 th Week	4	4	4 Questions – 20 Marks	
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Use of Basic Tags	Text formatting tags, navigation between pages	CO1	4
2	2	Implement navigation, list and paragraph	Navigation Bar, lists and paragraph tags	CO2	4
3	2	Implement Lists, images and semantics	Image, image map, semantic tags	CO2	4
4	2	Implement Multimedia and User controls	Audio, video, user control	CO2	4
5	3	Implement CSS with list, links and table	Applying style sheets	CO3	4
6	3	Implement CSS with font, paragraph and types	CSS properties	CO3	4
7	4	Validating User fields using javascript	DOM	CO4	4
8	4	Implement javascript events	Event Handling	CO4	4
9	5	Implementing JSON Basics	JSON	CO5	4
10	5	Working with JSON: 1. Read data from json file and convert it into a JavaScript object and display the data in web page using document object.	JSON	CO5	4

		2. Demonstrate messages formatting using JSON.			
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9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	YES
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	YES
4		Mini Projects	YES
5		Pop Quiz	YES
6		Mobile App Based Quiz	
7		Open Book Test	YES
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	YES
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	YES
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	YES
16		Value Added Courses	
17		Lecture Capture Usage	

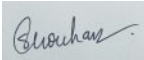
*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)

Ms. Ketaki Ghawali

External Industry Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



VIDYALANKAR SCHOOL OF INFORMATION TECHNOLOGY
TEACHING LEARNING PLAN
M.Sc. Semester II 2020-21

Subject: Microservice Architecture

Name of Faculty: Dr Sarika Chouhan

Lecture No.	Module No	Topic to be covered / BSA	Actual date of completion	Reference book
1	1	Microservices: Understanding Microservices, Adopting Microservices, The Microservices Way.	5-4-2021	Ref book 1 – chapter 1
2	1	Microservices Value Proposition: Deriving Business Value, Defining a Goal-Oriented, Layered Approach, Applying the Goal-Oriented, Layered Approach.	8-4-2021	Ref book 1 – chapter 2
3	1	Designing Microservice Systems: The Systems Approach to Microservices, A Microservices Design Process,	9-4-2021	Ref book 2 – chapter 3
4	1	Establishing a Foundation: Goals and Principles, Platforms, Culture.	12-4-2021	Ref book 2– chapter 4
5	2	Service Design: Microservice Boundaries, API design for Microservices, Data and Microservices,	15-4-2021	Ref book 1– chapter 5
6	2	Distributed Transactions and Sagas, Asynchronous Message-Passing and Microservices, Dealing with Dependencies,	16-4-2021	Ref book 1– chapter 5
7	2	System Design and Operations: Independent Deployability, More Servers, Docker and Microservices,	19-4-2021	Ref book 1– chapter 6
8	2	Role of Service Discovery, Need for an API Gateway, Monitoring and Alerting.	20-4-2021	Ref book 1– chapter 6

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9	2	Adopting Microservices in Practice: Solution Architecture Guidance, Organizational Guidance,	22-4-2021	Ref book 1–chapter 7
10	2	Culture Guidance, Tools and Process Guidance, Services Guidance.	23-4-2021	Ref book 1–chapter 7
11	3	Building Microservices with ASP.NET Core: Introduction, Installing .NET Core,	26-4-2021	Ref book 2 –chapter 1
12	3	Building a Console App, Building ASP.NET Core App.	29-4-2021	Ref book 2–chapter 1
13	3	Delivering Continuously: Introduction to Docker,	30-4-2021	Ref book 2–chapter 2
14	3	Continuous integration with Wercker,	3-5-2021	Ref book 2–chapter 2
15	3	Continuous Integration with Circle CI,	5-5-2021	Ref book 2–chapter 2
16	3	Deploying to Docker Hub.	6-5-2021	Ref book 2–chapter 2
17	3	Building Microservice with ASP.NET Core: Microservice, Team Service,	7-5-2021	Ref book 2–chapter 3
18	3	API First Development, Test First Controller	10-5-2021	Ref book 2–chapter 3
19	3	Creating a CI pipeline, Integration Testing, Running the team service Docker Image.	12-5-2021	Ref book 2–chapter 3
20	3	Backing Services: Microservices Ecosystems, The location Service, Enhancing Team Service.	13-5-2021	Ref book 2–chapter 4
21	4	Creating Data Service: Choosing a Data Store, Building a Postgres Repository,	15-5-2021	Ref book 2–chapter 5
22	4	Databases are Backing Services, Integration Testing Real Repositories, Exercise the Data Service	17-5-2021	Ref book 2–chapter 5
23	4	Event Sourcing and CQRS: Event Sourcing, CQRS pattern,	19-5-2021	Ref book 2 –chapter 6

24	4	Event Sourcing and CQRS, Running the samples.	20-5-2021	Ref book 2–chapter 6
25	4	Building an ASP.NET Core Web Application: ASP.NET Core Basics, Building Cloud-Native Web Applications.	21-5-2021	Ref book 2–chapter 7
26	4	Service Discovery: Cloud Native Factors, Netflix Eureka,	27-5-2021	Ref book 2–chapter 8
27	4	Discovering and Advertising ASP.NET Core Services. DNS and Platform Supported Discovery	28-5-2021	Ref book 2–chapter 8
28	5	Configuring Microservice Ecosystems: Using Environment Variables with Docker,	7-6-2021	Ref book 2–chapter 9
29	5	Using Spring Cloud Config Server,	10-6-2021	Ref book 2–chapter 9
30	5	Configuring Microservices with etcd,	11-6-2021	Ref book 2–chapter 9
31	5	Securing Applications and Microservices: Security in the Cloud,	14-6-2021	Ref book 2–chapter 10
32	5	Securing ASP.NET Core Web Apps,	16-6-2021	Ref book 3–chapter 10
33	5	Securing ASP.NET Core Microservices.	17-6-2021	Ref book 3–chapter 10
34	5	Building Real-Time Apps and Services: Real-Time Applications Defined,	18-6-2021	Ref book 3–chapter 11
35	5	Websockets in the Cloud	22-6-2021	Ref book 3–chapter 11
36	5	Using a Cloud Messaging Provider,	23-6-2021	Ref book 3–chapter 11
37	5	Building the Proximity Monitor.	24-6-2021	Ref book 3–chapter 11
38	5	Putting It All Together: Identifying and Fixing Anti-Patterns,	25-6-2021	Ref book 3–chapter 12
39	5	Continuing the Debate over	28-6-2021	Ref book 3–

		Composite Microservices,		chapter 12
40	5	The Future.	29-6-2021	Ref book 3– chapter 12

Reference Books:

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Microservice Architecture: <i>Aligning Principles, Practices, and Culture</i>	Irakli Nadareishvili, Ronnie Mitra, Matt McLarty, and Mike Amundsen	O'Reilly	First	2016
2.	Building Microservices with ASP.NET Core	Kevin Hoffman	O'Reilly	First	2017
3.	Building Microservices: Designing Fine-Grained Systems	Sam Newman	O'Reilly	First	
4.	Production-ready Microservices	Susan J. Fowler	O'Reilly		2016


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TEACHING LEARNING PLAN

M.Sc. Semester III 2020-21

Sub: Machine Learning - PSIT303a

Name of Faculty: Beena Kapadia

Lecture No.	Module No	Topic to be covered / BSA	Actual date of completion	Reference book / Video link
1	Unit – I - 1	Introduction: Machine learning, Examples of Machine Learning Problems,	24/8	Coursera link
2	2	Structure of Learning, learning versus Designing, Training versus Testing, Characteristics of Machine learning tasks,	25/8	Ref: 1, ch: 1
3	3	Machine learning Models: Geometric Models,	31/8	Ref: 1, ch: 1
4	4	Logical Models,	7/9	Ref: 1, ch: 1
5	5	Probabilistic Models.	8/9	Ref: 1, ch: 1
6	6	Features: Feature types,	10/9	Ref: 1, ch: 1
7	7	Feature Construction and Transformation, Feature Selection.	15/9	Ref: 1, ch: 1
8	8	revision	21/9	Ref: 1, ch: 1
9	9	Viva	22/9	Ref: 1, ch: 1
10	Unit II - 1	Classification and Regression: Classification: Binary Classification- Assessing Classification performance,	28/9	Ref: 1, ch: 2
	2	Assessing Classification performance,	29/9/2020	Ref: 1, ch: 2
11	2	Class probability Estimation Assessing class probability Estimates,	5/10/2020	Ref: 1, ch: 2
12	3	Multiclass Classification.	6/10/2020	Ref: 1, ch: 2
13	4	Regression: Assessing performance of Regression- Error measures,	7/10/2020	Ref: 1, ch: 3
14	5	Overfitting- Catalysts for Overfitting,	20/10/2020	Ref: 1, ch: 3
15	6	Case study of Polynomial Regression.	24/10/2020	Ref: 1, ch: 3

16	7	Theory of Generalization: Effective number of hypothesis,	4/11/2020	Ref: 1, ch: 3
17	8	Bounding the Growth function,	6/11/2020	Ref: 1, ch: 3
18	9	VC Dimensions,	24/10/2020	Ref: 1, ch: 3
19	10	Regularization theory	10/11/2020	Ref: 1, ch: 3
20	Unit – III – 1	Linear Models: Least Squares method,	12-11-2020	Ref: 1, ch: 7
21	2	Multivariate Linear Regression,	08 12-2020	Ref: 1, ch: 7
22	3	Regularized Regression,	10-12-2020	Ref: 1, ch: 7
23	4	Using Least Square regression for Classification.	16-12-2020	Ref: 1, ch: 7
24	5	Perceptron,	17-12-2020	Ref: 1, ch: 7
25	6	Support Vector Machines,		Ref: 1, ch: 7
26	7	Soft Margin SVM,	22-12-2020	Ref: 1, ch: 7
27	8	Obtaining probabilities from Linear classifiers,	23-12-2020	Ref: 1, ch: 7
28	9	Kernel methods for non-Linearity.	29-12-2020	Ref: 1, ch: 7
29	Unit – IV - 1	Logic Based and Algebraic Model: Distance Based Models: Neighbours and Examples,	04-01-2021	Ref: 1, ch: 6
30	2	Nearest Neighbours Classification,		Ref: 1, ch: 6
31	3	Distance based clustering-K means Algorithm,	08-01-2021	Ref: 1, ch: 6
32	4	Hierarchical clustering,		Ref: 1, ch: 6
33	5	Rule Based Models: Rule learning for subgroup discovery,	08-01-2021	Ref: 1, ch: 8
34	6	Association rule mining.	12-01-2021	Ref: 1, ch: 8
35	7	Tree Based Models: Decision Trees,	15-01-2021	Ref: 1, ch: 8
36	8	Ranking and Probability estimation Trees,	18-01-2021	Ref: 1, ch: 8
37	9	Regression trees,	19-01-2021	Ref: 1, ch: 8
38	10	Clustering Trees.	22-01-2021	Ref: 1, ch: 8
39	Unit – V - 1	Probabilistic Model: Normal Distribution and Its Geometric Interpretations,	25-01-2021	Ref: 1, ch: 9
40	2	Naïve Bayes Classifier,	26-01-2021	Ref: 1, ch: 9

41	3	Discriminative learning with Maximum likelihood,	29-01-2021	Ref: 1, ch: 9
42	4	Probabilistic Models with Hidden variables: Estimation-Maximization Methods,	01-02-2021	Ref: 1, ch: 9
43	5	Gaussian Mixtures,	02-02-2021	Ref: 1, ch: 9
44	6	and Compression based Models.	05-02-2021	Ref: 1, ch: 9
45	7	Trends In Machine Learning : Model and SymbolsBagging and Boosting,	08-02-2021	Ref: 1, ch: 9
46	8	Multitask learning,	09 -02-2021	Ref: 1, ch: 9
47	9	Online learning and Sequence Prediction,	12 -02-2021	Ref: 1, ch: 9
48	10	Data Streams and Active Learning,	15 -02-2021	Ref: 1, ch: 9
49	11	Deep Learning,	16 -02-2021	Ref: 1, ch: 10
50	12	Reinforcement Learning.	19 -02-2021	Ref: 1, ch: 11

Reference Books:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1	Machine Learning: The Art and Science of Algorithms that Make Sense of Data	Peter Flach	Cambridge University Press		2012
2	Introduction to Statistical Machine Learning with Applications in R	Hastie, Tibshirani, Friedman	Springer	2nd	2012
3	Introduction to Machine Learning	Ethem Alpaydin	PHI	2nd	2013

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TEACHING LEARNING PLAN

M.Sc. Semester I 2020-21

Subject: Cloud computing

Name of Faculty: Umesh K, Seema V

Lecture No.	Module No	Topic to be covered / BSA	Actual date of completion	Reference book / Video link
1	1	Introduction to Cloud Computing	24-12-2020	Mastering Cloud
2	1	Cloud computing reference model and Technologies	28-12-2020	Mastering Cloud
3	1	Different Cloud platform, Parallel Vs Distributed Computing	31-12-2020	Mastering Cloud
4	1	Parallel Computing	05-01-2021	Mastering Cloud
5	1	Distributed Computing	12-01-2021	Mastering Cloud
6	1	Virtualization	15-01-2021	Mastering Cloud
7	1	Virtualization	16-01-2021	Mastering Cloud
8	2	Roles, models and cloud characteristics	18-01-2021	CC Concepts, Technology & Architecture
9	2	Cloud delivery models	22-01-2021	CC Concepts, Technology & Architecture
10	2	Cloud deployment model, economics, open challenges	23-01-2021	CC Concepts, Technology & Architecture
11	2	Basic Terms of Cloud Security	25-01-2021	CC Concepts, Technology & Architecture
12	2	Amazon Web Services	29-01-2021	CC Concepts, Technology & Architecture
13	2	Demo of Amazon Web Services	30-01-2021	CC Concepts, Technology & Architecture
14	2	Google App Engine, Microsoft Azure.	04-02-2021	CC Concepts, Technology & Architecture
15	3	Automated Scaling listener, Load Balancer	05-02-2021	CC Concepts, Technology & Architecture


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16	3	SLA monitor, Pay-per-use monitor	06-02-2021	CC Concepts, Technology & Architecture
17	3	Audit monitor, fail over system, Hypervisor	11-02-2021	CC Concepts, Technology & Architecture
18	3	Resource Centre, Multidevice broker, State Management Database	12-02-2021	CC Concepts, Technology & Architecture
19	3	Remote administration system, Resource Management System	13-02-2021	CC Concepts, Technology & Architecture
20	3	SLA Management System, Billing Management System	18-02-2021	CC Concepts, Technology & Architecture
21	3	Encryption, Hashing, Digital Signature	25-02-2021	CC Concepts, Technology & Architecture
22	3	Public Key Infrastructure (PKI), Identity and Access Management (IAM)	26-02-2021	CC Concepts, Technology & Architecture
23	3	Single Sign-On (SSO), Cloud-Based Security Groups	27-02-2021	CC Concepts, Technology & Architecture
24	3	Hardened Virtual Server Images	05-03-2021	CC Concepts, Technology & Architecture
25	1	Revision of Unit 1	06-03-2021	
26	2	Revision of Unit 2	12-03-2021	
27	3	Revision of Unit 3	13-03-2021	

Reference Books:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Mastering Cloud	Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi	Elsevier	-	2013
2.	Cloud Computing Concepts, Technology & Architecture	Thomas Erl, Zaigham Mahmood, and Ricardo Puttini	Prentice Hall		2013
3.	Distributed and Cloud Computing, From Parallel Processing to the Internet of Things	Kai Hwang, Jack Dongarra, Geoffrey Fox	MK Publishers		2012

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TEACHING LEARNING PLAN


M.Sc. Semester II 2021-22

Subject: Image Processing

Name of Faculty: Seema Murkar

Course Outcome

CO No.	Statements	Related Module/s
1	To introduce the concepts of image processing and basic analytical methods to be used in image processing	1
2	To familiarize students with image enhancement and restoration techniques	2
3	To explain different image compression techniques	3
4	To introduce segmentation and morphological processing techniques.	4 & 5


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Lecture No.	Module No	Topic to be covered / BSA	Actual date of completion	University Weightage	Reference book / Video link
1.	1	Introduction: Digital Image Processing, Origins of Digital Image Processing, Applications and Examples of Digital Image Processing	31/01/2022	20%	Ref 1 / Ch1
2.	1	Fundamental Steps in Digital Image Processing, Components of an Image Processing System, Basics of image	01/02/2022		Ref 1 / Ch1
3.	1	Image Acquisition	02/02/2022		Ref 1 / Ch2
4.	1	Basic Relationships Between Pixels, Arithmetic and logical operations	08/02/2022		Ref 1 / Ch2
5.	1	Intensity Transformations and Spatial Filtering: Basics, Basic Intensity Transformation Functions	09/02/2022		Ref 1 / Ch3
6.	1	Basic Intensity Transformation Functions	11/02/2022,14/02/2022		Ref 1 / Ch3
7.	1	Histogram Processing, Fundamentals of Spatial Filtering,	15/02/2022		Ref 1 / Ch3
8.	1	Smoothing (Lowpass) Spatial Filters, Sharpening (Highpass) Spatial Filters	16/02/2022		Ref 1 / Ch3

9.	1	Highpass, Bandreject, and Bandpass Filters from Lowpass Filters	17/02/2022		Ref 1 / Ch3
10.	1	Combining Spatial Enhancement Methods, Using Fuzzy Techniques for Intensity Transformations and Spatial Filtering	18/02/2022		Ref 1 / Ch3
11.	2	Filtering in the Frequency Domain: Background, Preliminary Concepts, Sampling and the Fourier Transform of Sampled Functions, The Discrete Fourier Transform of One Variable	21/02/2022	20%	Ref 1 / Ch4
12.	2	Extensions to Functions of Two Variables, Properties of the 2-D DFT and IDFT	23/02/2022		Ref 1 / Ch4
13.	2	Basics of Filtering in the Frequency Domain, Image Smoothing Using Lowpass Frequency Domain Filters	25/02/2022		Ref 1 / Ch4
	2	Image Sharpening Using Highpass Filters, Selective Filtering, Fast Fourier Transform	28/02/2022		Ref 1 / Ch4
14.	2	Image Restoration and Reconstruction: A Model of the Image Degradation/Restoration Process, Noise Models, Restoration in the Presence of Noise Only-----Spatial Filtering	02/03/2022		Ref 1 / Ch5
15.	2	Periodic Noise Reduction Using Frequency Domain	04/03/2022		Ref 1 / Ch5

		Filtering, Linear, Position-Invariant Degradations,			
16.	2	Estimating the Degradation Function, Inverse Filtering, Minimum Mean Square Error (Wiener) Filtering,	15/03/2022		Ref 1 / Ch5
17.	2	Constrained Least Squares Filtering, Geometric Mean Filter,	16/03/2022		Ref 1 / Ch5
18.	3	Color Image Processing: Color Fundamentals, Color Models, Pseudocolor Image Processing	17/03/2022	20%	Ref 1 / Ch6
19.	3	Full-Color Image Processing, Color Transformations	22/03/2022		Ref 1 / Ch6
20.	3	Color Image Smoothing and Sharpening	22/03/2022		Ref 1 / Ch6
	3	Using Color in Image Segmentation, Noise in Color Images, Color Image Compression.	28/03/2022		Ref 1 / Ch6
21.	3	Wavelet and Other Image Transforms: Preliminaries, Matrix-based Transforms, Correlation	29/03/2022		Ref 1 / Ch7
22.	3	Basis Functions in the Time-Frequency Plane, Basis Images, Fourier-Related Transforms	30/03/2022		Ref 1 / Ch7
23.	3	Walsh-Hadamard Transforms, Slant Transform, Haar Transform, Wavelet Transforms	01/04/2022		Ref 1 / Ch7
24.	3	Image Compression: Fundamentals,	04/04/2022		Ref 1 / Ch8

		Huffman Coding, Arithmetic Coding			
25.	3	LZW Coding, Run-length Coding	05/04/2022		Ref 1 / Ch8
26.	3	Symbol-based Coding, 8 Bit-plane Coding	06/04/2022		Ref 1 / Ch8
27.	3	Block Transform Coding, Predictive Coding	11/04/2022		Ref 1 / Ch8
28.	4	Morphological Image Processing: Preliminaries, Erosion and Dilation, Opening and Closing, The Hit- or-Miss Transform	12/04/2022	20%	Ref 1 / Ch9
29.	4	Morphological Operations on Binary Images, Grayscale Morphology	13/03/2022		Ref 1 / Ch9
30.	4	Morphological Operations on Binary Images,	18/04/2022		Ref 1 / Ch9
31.	4	Grayscale Morphology	19/04/2022		Ref 1 / Ch9
32.	4	Image Segmentation I: Edge Detection, Thresholding, and Region Detection: Fundamentals, Thresholding,	19/04/2022		Ref 1 / Ch10
33.	4	Segmentation by Region Splitting and Merging, Region Segmentation Using Clustering and Superpixels	25/04/2022		Ref 1 / Ch10
34.	4	Segmentation Using Morphological Watersheds	26/04/2022		Ref 1 / Ch10
35.	5	Image Segmentation II: Active Contours: Snakes and Level Sets: Background,	27/04/2022	20%	Ref 1 / Ch11

		Image Segmentation Using Snakes			
36.	5	Segmentation Using Level Sets	28/04/2022		Ref 1 / Ch11
37.	5	Feature Extraction: Background, Boundary Pre processing	02/05/2022		Ref 1 / Ch12
38.	5	Boundary Feature Descriptors and Region Feature Descriptors	04/05/2022		Ref 1 / Ch12
39.	5	Region Feature Descriptors and Revision	05/05/2022		Ref 1 / Ch12

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:
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Reference Books:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1	Digital Image Processing	Gonzalez and Woods	Pearson/Prentice Hall	Fourth	2018
2	Fundamentals of Digital Image Processing	A K. Jain	PHI		
3	The Image Processing Handbook	J. C. Russ	CRC	Fifth	2010

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VIDYALANKAR SCHOOL OF INFORMATION TECHNOLOGY

TEACHING LEARNING PLAN

M.Sc. Semester II 2021-22

Subject: Big Data Analytics

Name of Faculty: Beena Kapadia

Course Outcome

A learner will be able to:

CO No.	Statements	Related Module/s
1	Think about solving real world problems with scientific approach.	1
2	develop analytical skills by applying scientific methods.	2
3	interpret results/solutions and identify appropriate courses of action for a given managerial situation whether a problem or an opportunity	3
4	To highlight the concepts of Language grammar and grammar representation in Computational Linguistics.	4
5	create viable solutions to decision making problems	5


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Lecture No.	Module No	Topic to be covered / BSA	Actual date of completion	University weightage	Reference book / Video link
1	I	Unit 1: Introduction to Big Data: Characteristics of Data, and Big Data Evolution of Big Data, Definition of Big Data,	1/2/2022	20%	Ref 3. Chapter 1
2		Challenges with big data, Why Big data? Data Warehouse environment, Traditional Business Intelligence versus Big Data.	2/2/2022		Ref 3. Chapter 1
3		State of Practice in Analytics, Key roles for New Big Data Ecosystems, Examples of big Data Analytics.	3/2/2022		Ref 3. Chapter 1
4		Big Data Analytics: Introduction to big data analytics, Classification of Analytics, challenges of Big Data	4/2/2022		Ref 1. Chapter 2
5		Importance of Big Data, Big Data Technologies, Data Science,	8/2/2022		Ref 1. Chapter 2
6		Responsibilities, Soft state eventual consistency, Data Analytics Life Cycle.	9/2/2022		Ref 1. Chapter 2
7		Class Test			-
8	II	Unit 2: Analytical Theory and Methods: Clustering and Associated Algorithms,	10/2/2022	20%	Ref 1. Chapter 4
9		Association Rules, Apriori Algorithm,	11/2/2022		Ref 1. Chapter 5

10		Candidate Rules, Applications of Association Rules,	15/2/2022		Ref 1. Chapter 5
11		Validation and Testing, Diagnostics, Regression,	18/2/2022		Ref 1. Chapter 5
					Ref 1. Chapter 5
					Ref 1. Chapter 6
12		Linear Regression,	22/2/2022		Ref 1. Chapter 6
13		Logistic Regression, Additional Regression Models.	23/2/2022		Ref 1. Chapter 6
					Ref 1. Chapter 6
14		Class test on unit 2	24/2/2022		-
15		MOOC registration and assignment2 viva	25/2/2022		
16	III	Unit 3: Analytical Theory and Methods:	02/3/2022 (1/3/22 was a holiday)	20%	Ref 1. Chapter 7
17		Classification,	03/3/2022		Ref 1. Chapter7
18		Decision Trees,	4/3/2022		Ref 1. Chapter7
19		Decision Trees (continued...), Naïve Bayes,	14/3/2022		Ref 1. Chapter7
20		Naive Bayes,	15/03/2022		Ref 1. Chapter7
19		Diagnostics of Classifiers, Additional Classification Methods,	21/3/2022		Ref 1. Chapter
19		Time Series Analysis,	22/3/2022		Ref 1. Chapter
		Box Jenkins methodology,			Ref 1. Chapter
20		ARIMA Model,	25/3/2022		Ref 1. Chapter
		Additional methods.			Ref 1. Chapter
21		Text Analysis, Steps, Text Analysis Example,	28/3/2022		Ref 1. Chapter
22		Collecting Raw Text, Representing Text,	03/4/2022		Ref 1. Chapter

23		Term Frequency-Inverse Document Frequency (TFIDF),	07/4/2022		Ref 1. Chapter		
24		Categorizing Documents by Topics,	08/4/2022		Ref 1. Chapter		
25		Determining Sentiments	11/4/2022		Ref 1. Chapter		
26		Activity –Take Home Test (THT) and Spoken tutorial exam	13/4/2022				
27	IV	Unit IV: Data Product, Building Data Products at Scale with Hadoop,	16/4/2022	20%	Ref 2. Chapter		
28		Data Science Pipeline and Hadoop Ecosystem,	18/4/2022		Ref 2. Chapter		
29		Operating System for Big Data, Concepts,	20/4/2022		Ref 2. Chapter		
30		Hadoop Architecture, Working with Distributed file system, Working with Distributed Computation,	23/4/2022		Ref 2. Chapter		
31		Framework for Python and Hadoop Streaming,	25/4/2022		Ref 2. Chapter		
		Hadoop Streaming,	27/4/2022		Ref 2. Chapter		
32		MapReduce with Python,	29/4/2022		Ref 2. Chapter		
		Advanced MapReduce.	2/5/2022		Ref 2. Chapter		
33		In-Memory Computing with Spark: Spark Basics,	4/5/2022		Ref 2. Chapter		
		Interactive Spark with PySpark,	6/5/2022		Ref 2. Chapter		
		Writing Spark Applications,	9/5/2022		Ref 2. Chapter		
35		open book test	11/5/2022				
36		V	Unit V: Distributed Analysis and Patterns,		13/5/2022	20%	Ref 2. Chapter
			Computing with Keys,		16/5/2022		Ref 2. Chapter
37	Design Patterns,		18/5/2022	Ref 2. Chapter			
	Last-Mile Analytics,		20/5/2022	Ref 2. Chapter			

		Data Mining and Warehousing,	23/5/2022		Ref 2. Chapter
38		Structured Data Queries with Hive,	25/5/2022		Ref 2. Chapter
		HBase,	27/5/2022		Ref 2. Chapter
39		Data Ingestion,	30/5/2022		Ref 2. Chapter
		Importing Relational data with Sqoop,	1/6/2022		Ref 2. Chapter
40		Ingesting stream data with flume.	3/6/2022		Ref 2. Chapter
		Analytics with higher level APIs,	6/6/2022		Ref 2. Chapter
41		Pig,	8/6/2022		Ref 2. Chapter
		Spark's higher level APIs.	10/6/2022		Ref 2. Chapter

Sr no	Title	Author/s	Publisher	Edition	Year
1	Data Science & Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data	David Dietrich, Barry Heller, Beibei Yang	Wiley	First	-
2	Data Analytics with Hadoop An Introduction for Data Scientists	Benjamin Bengfort and Jenny Kim	O'Reilly	-	2016
3	Big Data and Analytics	Subhashini Chellappan and Seema Acharya	Wiley	First	-
4					


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TEACHING LEARNING PLAN
M.Com Sem IV – Advance Accounting

Subject : Financial Management

Lecture no	Dates	Topics
1	21/1/2022	Unit III: Management of Working Capital Meanings, Concepts and policies of working capital, Management of working capital, Issues in working capital, Estimating working capital needs (only Theory) Operating or working capital cycle (only Theory)
2	28/1/2022	Inventory Management: Objectives and Techniques.
3	2/2/2022	Practical sums on IM
4	4/2/2022	Practical sums on IM
5	9/2/2022	Receivable Management: Objectives, Credit Policies, Credit Terms and Collection Policies.
6	11/2/2022	Practical sums on RM
7	16/2/2022	Practical Sums on RM
8	18/2/2022	Management of Cash and Marketable Securities: Motives for Holding Cash; Objectives of Cash Management; Factors Determining Cash Needs; Basic Strategies of Cash Management;
9	23/2/2022	Cash Management Techniques / Processes; Marketable Securities; and Cash Management Practices in India.
10	25/2/2022	Unit IV – Financial planning Introduction - Meaning of Budget, Essentials & Advantages of Budgeting, Types of Budgets – Sales budget, Production budget
11	2/3/2022	Sums on sales budget
12	4/3/2022	Sums on Production budget
13	9/3/2022	Types of Budgets –Material budget, Zero based and Master budget. Practical sums
14	11/3/2022	Sums on material budget, Master budget
15	16/3/2022	Types of Budgets – Cash budget, practical sums on Cash budget
16	18/3/2022	Sums on Cash budget
17	23/3/2022	Unit II - Investment Decisions: Capital Budgeting Introduction - Nature of Capital Budgeting, Purpose of Capital Budgeting Process, Types of Capital Investment, Decisions Project Cash Flows and Net profit Approval, Probability technique for measurement of cash flows

- 18 25/3/2022 Capital Budgeting Techniques, Net Return Value
- 19 30/3/2021 Sums on NPV
- 20 1/4/2022 Internal Rate of Return, Profitability Index Methods
- 21 6/4/2022 SUMS on IRR and PI
- 22 8/4/2022 Project Selection Under Capital Rationing - Problems on computation of cash flow, ranking of projects on various techniques
- 23 13/4/2022 Project Selection Under Capital Rationing - Problems on computation of cash flow, ranking of projects on various techniques
- 24 15/4/2022 Problems on selection and analysis with / without capital rationing.
- 25 20/4/2022 Comparison of IRR with Required rate of return i.e. cut off rate, IRR and mutually exclusive projects with unequal lives, multiple IRR)
- 26 22/4/2022 Sums on IRR
- 27 27/4/2022 **Unit V - Financial Policy and Corporate Strategy**
Meaning of strategic financial management and Strategic financial decision making framework, Functions of Strategic Financial Management and Financial Planning
- 28 29/4/2022 **Unit I – Types of Financing**
Introduction - Needs of Finance and Sources: Long Term, Medium Term, short term. Long Term Sources of Finance (Owners Capital / Equity Capital, Preference share capital, Retained Earnings, Debentures or Bonds, Loans from Financial Institutions / Banks)
- 29 4/5/2022 Short Term Sources of Finance - Trade Credit, Accrued Expenses and Deferred Income, Advances from Customers, Commercial Paper,
- 30 6/5/2022 Bank Advances: Loans, O/D, Clean O/Ds, Cash Credit, Advances against goods, Bills Purchased, Discounted, Advances against documents of title of goods, Advances against supply of bills.

References: Ravi Kishore – Financial management

Version 2021-

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	A thorough understanding of the principles of economics in application to individual decision makers, both consumers and firms. study demand, supply and equilibrium in goods and factor markets,
Affective	What do you want students to think / care about?	Study, how people get the things they want and need and how these things are distributed. To understand these concepts from a wide variety of angles.
Behavioural	What do you want students to be able to do?	Students should interact in markets: how your decision to pay higher-than-average rent will ultimately affect your neighbour, for example, by marginally bringing his rent up, too.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Understand how households (demand) and businesses (supply) interact in various market structures to determine price and quantity of a good produced.	I
CO2	Understand how changes in the price of a good affect total revenue and total expenditure depending on the price elasticity of demand for the good.	II
CO3	Understand the links between production costs and the economic models of supply.	III

CO4	Apply economic reasoning to individual and firm behavior in different market structures.	IV
CO5	Understand the major pricing technique in different market structures and the implications.	V

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	S	W	S	M						
CO 2	S	S	S	W	S	M						
CO 3	S	S	S	M	S	W						
CO 4	S	W	S	W	W	S						
CO 5	M	S	S	M	S	S						

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category							√

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
		3						3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and					

				IA2	Marks				
		25			75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
I	3								
II	3								

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday	2.30pm- 3.30 pm	Virtual in Teams
B	Thursday	2.30pm- 3.30 pm	Virtual in Teams
C			

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction	6	15%
2	Demand Analysis	8	20%
3	Supply and Production Decisions and Cost of Production	10	25%
4	Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	10	25%
5	Pricing Practices	6	15%
* Insert rows for more modules in the Course Total		40 hrs	100%

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2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12th	Economics	
2			
3			

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	III	Macroeconomics (Business Economics-II)
2		
3		

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Make choice between various wants with limited budget
2	How a local business decides to allocate their funds
3	Understand and analyse different market conditions

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – Dec 2021	Dec 2020	Dec 2019	Dec 2018
Course Passing % – Average of 3 Divisions	100%	100%	88.83%	86.60%
Marks Obtained by Course Topper (mark/100)	98	97	95	86

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	SGN	100%	SGN	100%	SGN	100%
Dec 2019	VF	98.5%	VF	88%	SGN	96
Dec 2018	VF	96.6%	VF	96.4%	VF	88.4%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Market Structure	IV	Ask students to practice the diagrams with logic
Pricing	V	Spend enough time to this session as it comes towards the end of the syllabus

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Managerial Economics – Analysis, Problem and Cases	Mehta, P.L.	(S. Chand & Sons, N. Delhi,		All
2	Principles of Microeconomics	H.L Ahuja	S. Chand & Sons, N. Delhi		All
3					
4					
5					
6					

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Principles of Economics	Gregory Mankiw	Thomson South western		
2	Principles of Economics	Frank Robert.H, Bernanke. Ben S.,	(Tata McGraw Hill	Ed. 3	All
3					
4					
5					
6					

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Microeconomics Theory And Applications	Ghai and Gupta	Sarup and Sons		III, IV
2					
3					
4					

4.d

Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	American Economic Journal: Microeconomics - Issues https://www.aeaweb.org/journals/mic/issues	https://www.economist.com/blogs/freeexchange/2012/10/microeconomics	
2	Studies in Microeconomics http://journals.sagepub.com/home/mic	Business Week	
3	https://www.youtube.com/playlist?list=PL8dPuuaLjXtPNZwz5_o_5uirJ8gQXnhEO		
4			
5			
6			

4.e

Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√	√					√		Principles of Economics, Gregory Mankiw
2	√	√					√		Principles of Economics, H. L Ahuja
3	√	√					√		Principles of Economics, Gregory Mankiw
4	√	√					√		Principles of Economics, H. L Ahuja
5	√	v					√		Principles of Economics, H. L Ahuja
6									
7									
8									

9									
10									

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS ‘Lecture Capture’ in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	http://nptel.ac.in/courses/109104125/	All
2	https://www.youtube.com/watch?v=1UxA6JzoT-4	Basic
3	https://www.youtube.com/playlist?list=PL8dPuuaLjXtPNZwz5_o_5uirJ8gQXnhEO	Crash Course on Economics
4		
5		

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Economic Analysis and Data Analytics Welcome (linkedin.com)	Linked In	3 Hours	Yes

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	AN INTRODUCTION TO MICROECONOMICS	Created by Vimal Kumar Indian Institute of Technology – Kanpur	30 hours	Yes

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	<input type="checkbox"/> √	<input type="checkbox"/> √	√ <input type="checkbox"/>	√ <input type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	/08/2021		

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended	
						Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Scope and Importance of Business Economics				
	2	1	basic tools- Opportunity Cost principle- Incremental and Marginal Concepts.				
	3	1	Basic economic relations - functional relations: equations- Total, Average and Marginal relations- use of Marginal analysis in decision making,				One minute Paper
2	4	1	The basics of market demand, market supply and equilibrium price-				Video Assessment Economics Media Library
	5	1	shifts in the demand and supply curves and equilibrium				IEF
	6	1	Revision				
3	7	2	Demand Function - nature of demand curve under different markets				
	8	2	Meaning, significance, types and measurement of elasticity of demand				
	9	2	(Price, income cross and promotional)-				
4	10	2	Problems				Problems Discussed by

							Students
	11	2	relationship between elasticity of demand and revenue concepts				
	12	2	Demand estimation and forecasting: Meaning and significance - methods of demand estimation :				
5	13	2	survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)				Forecasting using Excel
	14	2	Revision				
	15	3	Production function: short run analysis with Law of Variable Proportions				
6	16	3	Production function with two variable inputs- isoquants,				
	17	3	ridge lines and least cost combination of inputs-				
	18	3	Long run production function and Laws of Returns to Scale –				
7	19	3	expansion path - Economies and diseconomies of Scale.				Case Study
	20	3	Cost concepts: Accounting cost and economic cost, implicit and explicit cost, fixed and variable cost - total, average and marginal cost –				Video Assessment Economics Media Library
	21	3	Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed),				
8	22	3	LAC and Learning curve				
	23	3	Break even analysis (with business applications)				
	24	3	Break even analysis (with business applications)				
9	25	4	Short run and long run equilibrium of a competitive firm and of industry				
	26	4	monopoly - short run and long- run equilibrium of a firm under Monopoly				
	27	4	Monopolistic competition: Equilibrium of a firm under monopolistic competition,				Flash Card
10	28	4	debate over role of advertising				
	29	4	Oligopolistic markets: key attributes of oligopoly				

	30	4	Collusive and non collusive oligopoly market - Price rigidity				Video Assessment Economics Media Library
11	31	4	Cartels and price leadership models (with practical examples)				
	32	4	Diagram Practice				
	33	4	Discussion on MCQs				
12	34	4	Revision				
	35	4	Cost oriented pricing methods				
13	36	5	cost – plus (full cost) pricing, marginal cost pricing,				Let Student Talk
	37	5	Mark up pricing, discriminating pricing,				Let Student Talk
14	38	5	multiple – product pricing - transfer pricing				Let Student Talk
	39	5	MCQ				
14	40	5	Revision				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Presentation	Other (2) Specify	Total
20	20				40	20		100 (scale down to 25)

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment 1 based on Unit 1 and 2	1,2	July	
2	MCQ questions preparation	3	August	
3	Thought provoking Assignment	4	September	
4	Identify Pricing Practices of Company's	5	September	

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3rd				I, II	✓	✓		✓	
2	6th				III	✓	✓		✓	
3	8th				IV			✓		✓
4	12th				V			✓		✓
5										

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments



Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	All	Video Assessment	Supply, Demand, Market Structure, Costs	1,2,3,4,5,	
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	All	Video Assessment	Supply, Demand, Market Structure, Costs	1,2,3,4,5,	
2	II	Forecasting in Excel	Forecasting Sales	2	
3	III	Case Study	Economies of Scale	3	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report

1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	√
4		Mini Projects	
5		Pop Quiz	√
6		Mobile App Based Quiz	
7		Open Book Test	√
8		Take Home Test	√
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	√
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	√
16		Value Added Courses	
17		Lecture Capture Usage	√

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)
Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3

External Industry Mentor (Sign.)
Mentor (Sign.)

External Academic



VSIT Cluster Mentor Name (Sign.)
(Sign.)

Head of Dept.

Teaching Pedagogy

1. Economics Media Library Video Assessment
 2. MooC
 3. Quiz
 4. Assignment – 4
 5. Flash Cards
 6. Pop Quiz
 7. Case Study
 8. Whiteboard
 9. IEF
 10. Excel
 11. Let Student Talk
-



The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Watch former lectures captured in LMS at VSIT
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Students should understand the overall business environment and evaluate its various components in business decision making
Affective	What do you want students to think / care about?	The purpose of this course is to enhance their capacity to think, act and lead ethically (In business and towards society)
Behavioural	What do you want students to be able to do?	Students should be able to assess the ethical issues facing business. People and firm solve ambiguities and resolve the trade-offs embedded in ethical dilemmas

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students understand the Dynamics of Business	1
CO2	Students get knowledge about Ethics and Consumerism	2
CO3	Students understand the concept & importance of Corporate Social responsibility	3
CO4	Students get knowledge of the Global Business	4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	M	M	S	W	W	S						
CO 2	M	M	S	W	W	S						
CO 3	M	M	S	W	M	S						
CO 4	M	M	S	M	M	S						
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				

CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
6	Business Environment	75	--	--	3	-	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
6	Business Environment	20	05	25	75	--	--	--	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
B	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
C	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Monday	12.30 -1.30	MS Teams (Online)
B	Wednesday	12.30 -1.30	MS Teams (Online)
C	Friday	12.30 -1.30	MS Teams (Online)

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Business and its Environment	10	25

2	Business and Society	10	25
3	Contemporary Issues	10	25
4	International Environment	10	25
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12 th STD.	Organization of Commerce	Consumer Protection Act

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	I	MBA

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Once students start their own business in future they will have a brief insight about being a successful Entrepreneur
2	Responsibility towards community
3	Relevance to the International scenario

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target -November 2022	November 2021	November 2020	November 2019
Course Passing % – Average of 3 Divisions	100	100	100	96.46
Marks Obtained by Course Topper (mark/100)	95	94	NIL	90

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Nov 2021	AAJ / SIN	100%	AAJ / SIN / SGN	100%	AAJ / SGN	100%
Nov 2020	AAJ	100%	AAJ	100%	AAJ	100%
Nov 2019	AAJ	100%	AAJ	97.01%	KCM	95.8%
Nov 2018	SIN	82.59%	SIN	90.91	SIN	89.23%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future

Classification of Business Objectives	1	Written Assignment, Discussion and revision
KYOTO Protocol	3	Discussion and revision
Carbon Credit	3	Discussion and revision

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1.	Essential elements of Business Environment	K.Aswathapa	Himalaya		All
2.	Business Environment	Justin Paul	Tata McGraw		All
3.	Entrepreneurial Development	S.S Khanka	S Chand & Co.		2

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Environment	K. Aswathappa	Himalaya Publishing	2014	All
2	Business Environment	Agrawal Raj	Excel books		All
3	Business Environment	Kale.N.G	Vipul Prakasham		All

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Environment	Dr. Saroj Upadhyay	ASIAN View All		1-4
2	Business Environment Study Material	Dr. Thomas Paul Kattookaran			1-4
3	Business Environment Self Instruction	Jaipur National University			1-4

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Slideshare.com	The Magazine of Corporate social responsibility	All
2	www.philoophybasics.com/branch_ethics.html	Outlook India	All
3	www.wto.org/english/tratop_e/invest_info_ehtm		All

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√	√	√				√		All
2	√	√	√						All
3	√	√	√						All
4	√	√	√						All

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	http://onlinecourses.nptel.ac.in/noc17_mg03	All
2	http://www.mooc-lost.com/tags/business environment	All
3	https://www.youtube.com/watch?v=D2U5c4WvST4	1
14	https://www.youtube.com/watch?v=1jbZcug8YE0	1

1

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	http://onlinecourses.nptel.ac.in/noc17_mg03	nptel		
2.	http://www.mooc-lost.com/tags/business environment	Moocs		
3.	https://www.mooc-list.com/course/global-business-environment-evolution-and-dynamics-futurelearn	Future learn		
4.	https://www.mooc-list.com/course/understanding-modern-business-organisations-futurelearn	Future learn		
5.	https://www.mooc-list.com/course/international-business-environment-and-global-strategy-edx	edX		

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
---------	--------------------------------	----------------------------------------------	-----------------	---------------------

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	✓ <input type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration			15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1		Syllabus discussion		C01		
1	2	Unit - 1	Meaning, Definition and features of business objectives, Importance of objectives in business management (Assignment)		C01		
1	3		Classification of business objectives-economic and social objectives of business Human and national objectives of business-organic/ threefold objectives of business (OBT)		C01		
2	4		Steps in formulating business objectives, dynamics of business and its environment- Integrated approach of business environment		C01		
2	5		Business Environment, Types/ components/areas of business environment & important features (Assignment)		C01		
2	6		Environmental analysis- Meaning, Importance, Factors affecting environment analysis and Limitations		C01		
3	7		PESTLE- Meaning, Components and Steps(OBT)		C01		
3	8		Environmental scanning- Meaning, Benefits and Importance		C01		
3	9		SWOT Analysis- Meaning, Definition, Typical SWOT analysis		C01		
4	10		Objectives, steps and importance of SWOT analysis		C01		
4	11	Unit-2	Business ethics- Meaning, Definition and Features (Assignment)		CO2		

4	12		Ethical dilemma of Unethical business practices		CO2		
5	13		Corporate culture – Meaning, Features and Composition, Forms and consequences of corporate culture		CO2		
5	14		Entrepreneurship -Meaning and definition and its development , Entrepreneur & his characteristics (Assignment)		CO2		
5	15		Stages of business entrepreneurship - factors influencing entrepreneurial development		CO2		
6	16		Entrepreneurship and economic development, Introduction to MSMEs, Meaning of MSMEs and MSMED act, 2006 and its features (OBT)		CO2		
6	17		Entrepreneurship as a career option – meaning, factors and steps in developing entrepreneurial career		CO2		
6	18		Meaning and features of consumer rights- basic consumer rights		CO2		
7	19		Meaning, Definition and Features of consumerism, Objectives and Advantages of consumerism(THT), Role of consumerism, need of consumer movement in India		CO2		
7	20		Consumer education and research centre – Consumer protection Act 1986(Assignment)		CO2		
7	21	Unit-3	Corporate social responsibility- Meaning , Definition and Scope (Assignment)		CO3		
8	22		Advantage of corporate social responsibility, recent trends in CSR		CO3		
8	23		Corporate governance, meaning, definition and features (Assignment)		CO3		
8	24		Need and Importance of corporate governance, Mechanisms for Corporate Governance, Advantages of corporate governance in India		CO3		
9	25		Social responsibility of business- meaning, definition and need		CO3		
9	26		Arguments for and against SR(Debate), Areas of Social responsibility, Ecology and business- Meaning and Relationship		CO3		
9	27		Industrialisation and environmental pollution and control at business level, Government policy on environment protection Kyoto Protocol		CO3		
10	28		Carbon credit- Meaning , Definition and working of carbon credit system (THT) Present position of carbon credit trade , carbon credits of India		CO3		
10	29		Social audit- meaning, definition and features , Evolution of social audit, Benefits and limitations of Social audit		CO3		

10	30		Social audit vs commercial audit		CO3		
11	31	Unit 4	INTERNATIONAL ENVIRONMENT- Meaning and strategies		CO4		
11	32		FDI & BOP (Assignment)		CO4		
11	33		Multinational companies- meaning, definition		CO4		
12	34		Features of Multinational companies (Assignment)		CO4		
12	35		Advantages and dangers of MNC'S(OBT),		CO4		
12	36		Transnational companies- meaning and features(Assignment)		CO4		
13	37		World trade organisation- introduction and formation, Objectives		CO4		
13	38		Functions of WTO(Assignment)		CO4		
13	39		Revision, Doubt Solving		All		
14	40		Revision, Doubt Solving		All		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assign- ments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specif y	Total
						05		05

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
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1.	Explain Business Objectives & its features	1		
2.	Explain in detail Business Environment, its importance & features	1		
3.	What is Business Ethics, its features & importance	2		
4.	Who is an Entrepreneur & what are his characteristics?	2		
5.	Explain concept & importance of CSR	3		
6.	What is Corporate Governance & its advantages	3		
7.	Explain the Concept of MNC & what is its importance.	4		
8.	Write a detailed note on WTO, its objectives & functions	4		

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	1	vv		1	1	(✓)		(✓)	(✓)	
2	2	(✓)		3	1	(✓)			(✓)	
3	4	(✓)		7	2	(✓)			(✓)	
4	6	(✓)			2	(✓)			(✓)	
5 & 6	11	(✓)			3	(✓)			(✓)	
7 & 8	13	(✓)			4	(✓)			(✓)	

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
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Course Academic Administration Plan – USIT401 Core Java – Semester IV- B.Sc. (Information Technology)

Page | 9

Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vashi (E)
Educational Campus, Vashi (E)
Mumbai - 400 027.



1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2nd IA Test					IA is a Head of passing *
Pop Quiz	15 th Week	1-4			
Open Book Test	1 st , 3 rd & 7 th	1-3			
Take Home Test	8 th , 10 th & 14 th	3-4			
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

*** 9.a**

*** Practical Activities – Regular Experiments**

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			
2					

9.b

*** Practical Activities – Newly Added Experiments**

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	(1-4)	You tube videos for Revision	All	1-4	
2		https://www.udemy.com/course/lets-share-the-burden/			
3		https://www.udemy.com/course/personal_branding/			

9.c

Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
---------------	------------	------------------------------	----------------------------	--------	--------------------------

1	2	Case study on Entrepreneurs	Characteristics & Niche qualities		
2		Poster Competition	To bring out creativity		

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	(√)
4		Mini Projects	
5		Pop Quiz	(√)
6		Mobile App Based Quiz	
7		Open Book Test	(√)
8		Take Home Test	(√)
9	Collaborative and Group Activity	Poster Presentation	(√)
10		Minute Papers	
11		Students Seminar	
12		Students Debates	(√)
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	(√)
16		Value Added Courses	
17		Lecture Capture Usage	(√)

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Kavitha Mohan

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, V reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	Watch former lectures captured in LMS at VSIT
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To know the fundamentals of finance, also know about various sources and applications of finance
Affective	What do you want students to think / care about?	To think on concepts of valuation. To think about how company can use leverages to maximise returns to its shareholders
Behavioural	What do you want students to be able to do?	To solve practical problems based on Cost of Capital. To analyse the impact of various Leverages on Capital Structure of a Company

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand fundamentals of finance	Unit 1
CO2	To make students comfortable with concepts of valuation and Time Value of Money	Unit 2
CO3	To provide an insight on Leverages	Unit 3
CO4	To make them familiar with types of financing	Unit 4
CO5	To solve practical problems based on Cost of Capital	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	M	W									
CO 2	M	S	M									
CO 3	M	S	S									
CO 4	S	M	M									
CO 5	W	W	S									

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '--':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1	S	S	S	W
CO 2	S	S	S	W
CO 3	S	S	S	W
CO 4	S	S	S	W
CO 5	S	S	S	W

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
USBAF 105	Introduction to Financial Management I	75	--	--	--	--	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
USBAF 105	Introduction to Financial Management I	20	05	25	75	--	--	--	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Batch	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Batch 1	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Batch 2	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Batch	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
Batch 1	Monday	2:30p.m. to 3:30p.m	Online (MS Teams)
Batch 2	Tuesday	2:30p.m. to 3:30p.m	Online (MS Teams)

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Financial Management	6	20
2	Concepts in Valuation	10	20
3	Leverage	8	20
4	Types of Financing	6	20
5	Cost of Capital	10	20
* Insert rows for more modules in the Course Total		40 hrs	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	SSC	Mathematics	Simple Interest, Compound Interest (for Unit 2)
2	HSC	Secretarial Practice	Business Finance, Types of Finance (for Unit 1)

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	V	Financial Management II
2	VI	Financial Management III

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Applying various valuation concepts
2	Calculating present and future values for personal finance
3	Use of weighted average cost of capital of a firm

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Nov 2020	Nov 2019	Nov 2018
Course Passing % – Average of 3 Divisions	100%	100%	95.96%	94%
Marks Obtained by Course Topper (mark/75)	75	74 (Murtuza)	72(Hemang)	67(Amar)

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Nov 2020	AJP	100	AJP	100	AJP	100
Nov 2019	AJP	100	AJP	94.03	AJP	93.85
Nov 2018	AJP	95	AJP	93	AJP	94

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Annuity, WACC	2,5	More sums for practice

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Management	I.M Pandey	Vikas	11 th	1-5
2					
3					

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Fundamentals of Financial Management	D. Chandra Bose	PHI Learning Pvt. Ltd		1-5
2	Fundamentals of Financial Management	Vyuptakesh Sharma	Pearson Education		1-5
3	Financial Management: Text and Problems	M.Y. Khan and P.K. Jain	Tata McGraw Hill		1-5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Management	C.Paramasivan&T.Subramanian	New Age International Publishers	I	All
2	Financial Management	UTS Global, Bavdhan	UTS	I	All

4.d Web Links and Names of Magazines, Journals, E-journals



Refer online journals subscribed in VSIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	http://www.ebooks-for-all.com/		

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1			✓						
2		✓							
3		✓							
4			✓						
5		✓							

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VSIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VSIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in/vrefer)	1-5
2	https://youtu.be/U4LXk5IbTpI	1
3	https://youtu.be/iL7aDANL0I4	1
4	https://youtu.be/IDZbjZ5v5j8	2
5	https://youtu.be/KWQcPpJSkI0	3

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.coursera.org/learn/introduction-to-finance-the-basics	Coursera/Xi Yang/University of Illinois	19 hrs	Y
2	https://www.udemy.com/course/financial-management-for-beginner/	Udemy/Bina Nusantara University	1.5 hrs	N

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	√	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	Sept 2021	Dec 2021	13

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	BSA	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction to Subject and discussion of AAP		CO1		
	2	1	Meaning, Definition and Importance of Financial Management	CAT – One Minute Paper	CO1		
	3	1	Scope and Objectives of Financial Management		CO1		
2	4	1	Profit v/s Wealth maximisation	IEF	CO1		
	5	1	Qualities and Role of a Finance Manager	Assignment 1 Allocation	CO1		
	6	1	Revision of Unit 1	CAT – Quiz 1	CO1		

3	7	2	Introduction to Time Value of Money		CO2		
	8	2	Sums on SI and CI	Assignment 1 Submission	CO2		
	9	2	Sums on Present Value and Future Value		CO2		
4	10	2	Sums on Present Value and Future Value		CO2		
	11	2	Concept of Net Present Value	CAT – One Minute Paper	CO2		
	12	2	Sums on NPV		CO2		
5	13	2	Concept of Annuity	CAT – Pop Quiz	CO2		
	14	2	Sums on Annuity	Assignment 2 Allocation	CO2		
	15	2	Sums on Annuity	CAT – Quiz 2	CO2		
6	16	2	Doubling Period (Rule of 69 and 72)		CO2		
	17	3	Introduction to Leverages		CO3		
	18	3	Types of Leverages	Assignment 2 Submission	CO3		
7	19	3	Sums on Operating Leverage		CO3		
	20	3	Sums on Operating Leverage		CO3		
	21	3	Sums on Financial Leverage		CO3		
8	22	3	Sums on Financial Leverage		CO3		
	23	3	Sums on Combined Leverage	Assignment 3 Allocation	CO3		

	24	3	Sums on Combined Leverage	CAT – Quiz 3	CO3		
9	25	4	Introduction to Types of Financing, Need for finance	CAT – One Minute Paper	CO4		
	26	4	Sources of Finance, Equity Shares	Poster Presentation	CO4		
	27	4	Preference shares, Debentures	Assignment 3 Submission	CO4		
10	28	4	Retained Earnings, Loans from Bank		CO4		
	29	4	Loans from FI, Lease financing	CAT – Quiz 4	CO4		
	30	4	Open Book Test	OBT	CO4		
11	31	5	Intro to Cost of Capital	CAT – One Minute Paper	CO5		
	32	5	Classification of Cost	Assignment 4 Allocation	CO5		
	33	5	Cost of Debentures		CO5		
12	34	5	Cost of Debentures		CO5		
	35	5	Cost of Preference Shares	Assignment 4 Submission	CO5		
	36	5	Cost of Preference Shares		CO5		
13	37	5	Cost of Equity Shares		CO5		
	38	5	Cost of Equity Shares	Assignment 5 Allocation	CO5		
	39	5	Cost of Retained Earnings	CAT – Quiz 5	CO5		



14	40	5	Revision of Unit 5	Assignment 5 Submission	CO5		
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6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Two Unit Tests	Internal Assessment (Midterm)	Other (2) specify	Total
20	20	-	-	-	40	20	-	100

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment 1 – Fundamentals of Financial Management	CO1	2 nd week	3 rd week
2	Assignment 2 – Net Present Value	CO2	5 th week	6 th week
3	Assignment 3 – Calculation of Leverages	CO3	8 th week	9 th week
4	Assignment 4 – Long Term Sources of Finance	CO4	11 th week	12 th week
5	Assignment 5 – Cost of Debentures and Preference Shares	CO5	13 th week	14 th week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2	✓			1		✓		✓	
2	5	✓			2		✓		✓	
3	6	✓			3		✓		✓	
4	8	✓			4		✓		✓	
5	10	✓			5		✓		✓	

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
 # Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1st IA Test (Midterm Exam)	August 2021	1&2	CO1&CO2	Midterm Exam – descriptive 2 Unit Test – online MCQ	No IA Re-test IA is a Head of passing *
Unit Test	1 st Unit Test – Before Midterm 2 nd Unit Test – After Midterm				
Quiz	2 nd week,	1	CO1		
	5 th week	2	CO2		
	8 th week	3	CO3		
	10 th week	4	CO4		
	13 th week	5	CO5		
One Minute Paper	1 st week	1	CO1		
	4 th week	2	CO2		
	5 th week	3	CO3		
	8 th week	4	CO4		
	11 th week	5	CO5		
Open book Test	10 th week	4	CO4		
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					

5					
6					
7					
8					

9.b

Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c

Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1					
2					

10.

Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes (1 in each unit)
4		Mini Projects	
5		Pop Quiz	✓
6		Mobile App Based Quiz	

7		Open Book Test	✓
8		Take Home Test	✓
9	Collaborative and Group Activity	Poster Presentation	✓
10		Minute Papers	✓
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	✓
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)
Mr. Ajaykumar Poojary

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Vasala (E)
Mumbai - 400 027



The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To understand the conceptual knowledge of cost, costing and Cost accountancy. To know the different elements of cost. To get acquainted with the scope of costing
Affective	What do you want students to think / care about?	Understand the different methods to value Material, Labour and Overhead Cost
Behavioural	What do you want students to be able to do?	Ability and identify Material, Labour and Overhead Cost of any company

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To differentiate between financial and cost accounting and to identify elements of cost	Unit 1
CO2	Valuation of material cost	Unit 2
CO3	Analyse different schemes of wage payment and incentives	Unit 3
CO4	Analysis of types of overheads and its valuation	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	Moderate	Moderate	Strong	Weak	Weak	Weak						
CO 2	Moderate	Strong	Strong	Weak	Moderate	Weak						
CO 3	Moderate	Strong	Strong	Weak	Moderate	Weak						
CO 4	Moderate	Strong	Strong	Weak	Moderate	Weak						

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1	-	-	-	-
CO 2	-	-	-	-
CO 3	-	-	-	-
CO 4	-	-	-	-
CO 5	-	-	-	-

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
3.6.2	Cost Accounting - I	75	--	--	3	-	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of CEPR					
3.6.2	Cost Accounting-I	MT[1]	CT[2]	25	75	--	--	--	75

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
B	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday	4 to 5 pm	virtual classroom
B	Wednesday	4 to 5 pm	virtual classroom
C			

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Cost Accounting	10	25
2	Material Cost	10	25
3	Labours Cost	10	25
4	Overheads	10	25
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	11 th and 12 th	Basic knowledge of financial accounting and cost	

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	III, IV & V	BAF
2	I	M.Com., MMS., MBA

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Understanding cost sheet of any company
2	Valuation of Material, Labour and Overhead cost
3	Analysis and identifying types of cost

Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target Dec 2021	Dec 2020	Dec 2019	Dec 2018	Dec 2017
Course Passing % – Average of 3 Divisions	100%	100%	96.97%	92%	89.34 %
Marks Obtained by Course Topper (marks /100)	Above 95%	95	93	80	80

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	Prathma Neman	100%	Kavitha	100%	nil	nil
Dec 2019	GNS	96.97%	Varsha	92.54%	Varsha	87.67%
Dec 2018	GNS	92%	Ms. Kavitha	92%	Ms. Kavitha	92%
Dec 2017	Ms. Kavitha	100%	Ms. Kavitha	83.33%	Ms. Kavitha	84.62%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Labour Cost	3	Recitation of formulae[using music] and Solving sums with different adjustment
Overheads	4	Recitation of formulae[using music] and solving sums with different adjustments

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Cost Accounting	Ravi M. Kishore	Taxmann Ltd., New Delhi		1 to 4

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Cost Accounting	M.E.Thukaram Rao	New Age International Publishers	2012	All
2	Cost Accounting	P.C. Tulsian	S.Chand	2008	All

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author /s	Publisher	Edition	Module Nos.
1	Cost Accounting https://books.google.co.in/books/about/Cost_Accounting.html?id=oxBU6Pa3m5YC	P.K.Jain	Tata Mc GrawH ill	2000	All
2	Cost Accounting Course Material http://www.universityofcalicut.info/SDE/BComCoreCostAccounting_on09March2016.pdf	Univer sity of Calicut			1 & 3
3	https://devlibrary.in/managerial-and-cost-accounting/				All

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	International Journal of Accountancy & Finance https://www.inderscience.com/jhome.php?jcode=ijaf	The Management Accountant https://www.magzter.com/IN/THE-INSTITUTE-OF-COST-ACCOUNTANTS-OF-INDIA/The-Management-Accountant/Business/	1-4
2	Indian journal of Accounting https://indianaccounting.org/img/journals/IJA-Dec-2018.pdf	The Inst. of Cost Accountants of India https://icmai.in/icmai/news/209.php	1-4
3	Indian Journal of Accounts & Finance https://www.indianjournals.com/ijor.aspx?target=ijor:mjfa&type=home		1-4
4	Journal of Cost Accounting https://www.jstage.jst.go.jp/browse/jcar		

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓	✓				Y		Cost Accounting – Thukaram
2	✓	✓					Y		Cost Accounting – Thukaram
3	✓	✓					Y		Cost Accounting _ Thukaram
4	✓	✓					Y		Cost Accounting _ Thukaram,
5									

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content [not available in V Refer]	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Course Academic Administration Plan – Cost Accounting – Semester I- BAF

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Cost Accounting https://www.udemy.com/course/costing-and-cost-accounting/	Udemy	50 hours – 55 videos	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Tally with GST	VSIT		Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	August 2021	December 2021	13

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site
1	1	1	Syllabus ,Video on costing career - https://www.youtube.com/watch?v=d9K3gp6aTp0 Unit I – Meaning & Definition of costing https://www.youtube.com/watch?v=laACWO2Z5Ak		1		
	2	1	Scope & Objectives of costing, Importance and Advantages of cost accounting Poll Questions		1		

	3	1	Difference between cost A/c & financial A/c, Limitation of financial Accounting- EFB		1		
2	4	1	Def: of Cost, Costing & Financial Accounting		1		
	5	1	Classification of Cost - Quiz https://forms.office.com/Pages/ResponsePage.aspx?id=LKs7Hkn_bE2CelAX5v2FnMuolxnJM9xIsQPzd2AOXLlUNzgxSVhLUFIZMTRVMDBSUFBQnjJIUVZDOS4u		1		
	6	1	Assignment 1 – Annual reports [classification of cost]- Demo		1		
3	7	1	Cost allocation & apportionment- https://www.youtube.com/watch?v=2fTgDRz-PdU and https://www.youtube.com/watch?v=u70oLwsPKCo&t=1s		1		
	8	1	PBL Identify the cost incurred to weave cloth, wooden table, leather products, Chocolates, Mobile phones		1		
	9	1	Coding system & good costing system https://www.youtube.com/watch?v=67j7_iXGFg0		1		
4	10	1	Limitation of financial Accounting - - Quiz		1		
	11	2	Unit II – Material Cost: Material cost concept and its types. Ted Ed Video quiz: https://ed.ted.com/on/e3SMjWw5		2		
	12	2	Material control- essentials, advantages, Objectives and Advantages of Material costing. https://www.youtube.com/watch?v=LpS2xxW5WS8 [Assignment 2]		2		
5	13	2	Documentation, Bin card		2		
	14	2	Stock levels, Minimum levels, Maximum levels, Re-order levels,		2		

			Sums Game- https://www.proprofsgames.com/ugc/crossword/material-costing/				
	15	2	Stock levels, Minimum levels, Maximum levels, Re-order levels, Sums		2		
6	16	2	Economic order Qty QUIZ https://forms.office.com/Pages/ResponsePage.aspx?id=LKs7Hkn_bE2Ce1AX5v2FnMuolxnJM9xIsQPzd2AOXL1UOUJONFhOM1RNTVIwQUJRTkdFN0Q4Q0Q4RC4u		2		
	17	2	Practical problems - Economic order Qty and Stock turnover ratio https://www.youtube.com/watch?v=qgvH2Eo6_gY		2		
	18	2	Purchase Order, Inspection, Stock Verification & Inventory Control https://www.youtube.com/watch?v=Wa83L8TvoaM		2		
7	19	2	Practical problems – Inventory valuation [FIFO] https://www.youtube.com/watch?v=qAWVVw-dC5A		2		
	20	2	Practical problems – Inventory valuation [weighted average] [take home test]		2		
	21	3	Labours Cost https://www.youtube.com/watch?v=9Uhiv7tHDGQ		3		
8	22	3	Composition of labour cost https://www.youtube.com/watch?v=01ZQJnn6ffg		3		
	23	3	Labour cost record – Poll questions and Word Art game		3		
	24	3	Overtime/idle time/Incentive Schemes - Quiz		3		

9	25	3	Practical problems - Poll questions[formula]	3		
	26	3	Practical problems	3		
	27	3	Practical problems Video quiz on Labour Turnover - https://www.youtube.com/watch?v=xIfbGGiYhaw [Assignment 3]	3		
10	28	3	Practical problems	3		
	29	3	Case study on labour Cost management https://www.jstage.jst.go.jp/browse/jcar Journal of Cost Accounting	3		
	30	3	Revision on Unit 3 [Open book test]	3		
11	31	4	Overheads Concepts https://www.youtube.com/watch?v=ZqTqErrZpIE	4		
	32	4	Classifications of overheads on different basis – Quiz	4		
	33	4	Apportionment & absorption of Overheads https://www.youtube.com/watch?v=Pd7uMZHDudE [Assignment 4]	4		
12	34	4	Practical problems – Poll questions [formula] and Word art game	4		
	35	4	Practical problems	4		
	36	4	Practical problems	4		
13	37	4	Practical problems	4		
	38	4	Practical problems	4		
	39	4	Case Study https://www.jstage.jst.go.jp/browse/jcar	4		

			Journal of Cost Accounting				
	40		Quiz (ALL UNITS FORMULA)				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specifying	Total
						05		05

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment 1 – Study of one company's cost elements from Annual report	1	2 nd week	3 rd week
2	Assignment 2 – Calculation of materials in Textile https://www.udemy.com/course/calculate-cost-of-material-and-apparel/ [1 hour course]	2	4 th week	5 th week
3	Assignment 3 – Case-study on labour cost management https://www.hzu.edu.in/uploads/Case_Studies_of_Cost_and_Works_Accounting.pdf	3	9 th week	10 th week
4	Assignment 4 – Past university question paper sums	4	11 th week	12 th week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2 nd week	✓			I			YES		YES
2	4 th week	✓			II			YES		YES
3	9 th week	✓			III			YES		YES

4	11 th week	✓			IV			YES	YES	

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	8 th week			Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2nd IA Test					IA is a Head of passing *
Pop Quiz	3 rd week	1			
Open Book Test	10 th week	3			
Take Home Test	7 th week	2			

* IA failures will have to appear for re-test in next semester

* 9.a

* Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

* 9.b

* Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					



2		NA			
---	--	----	--	--	--

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	Identify the cost incurred to weave cloth, wooden table, leather products, Chocolates, Mobile phones	Classification of cost	1	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	End of each Unit
4		Mini Projects	
5		Pop Quiz	
6		Mobile App Based Quiz	Quiz – all units
7		Open Book Test	Unit III
8		Take Home Test	UNIT II
9	Collaborative and Group Activity	Poster Presentation	Based on Assignment 1[Elements of cost in different industry]
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	https://www.udemy.com/course/costing-and-cost-accounting/ [50 hours – 55 videos , paid, certification course]
16		Value Added Courses	Tally
17		Lecture Capture Usage	

Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned. Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Prathma A Nemane

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

New teaching pedagogy – using musical notations to remember formulae



Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Complex, Wazirpur (E)
Mumbai - 400 027



The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To understand the financial services provided by various banking and non-banking financial institutions
Affective	What do you want students to think / care about?	To know about the regulatory framework in various financial markets and also understand the role of different regulatory authorities
Behavioural	What do you want students to be able to do?	To understand the process of Public Issue of securities and acquire the skills necessary to work in a financial firm.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To describe the various financial products, services, and strategies offered by the variety of financial services institutions.	Unit 1
CO2	To evaluate financial products offered by the variety of financial services institutions for suitability and appropriateness in meeting consumer needs.	Unit 2 & 3
CO3	To be able to understand the various technologies adopted in the operations of financial services	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	M	M	S	S	S	S	S	M		
CO 2	S	M	M	M	S	S	S	S	S	M		
CO 3	S	M	S	M	S	M	M	S	S	S		
CO 4	S	S	M	M	S	S	M	S	S	S		
CO 5	S	S	M	M	S	S	S	S	S	S		

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					√		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
	Innovative Financial Services	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Average of IA1 and IA2					
BAF	Innovative Financial Services	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3								
B	3								

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday	12.30 to 1.30	Online through Microsoft teams & Offline in Staffroom
B	Wednesday	12.30 to 1.30	Online through Microsoft teams & Offline in Staffroom

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Traditional Financial Services	10	25%
2	Issue Management and Securitization	10	25%
3	Financial Services and its Mechanism	10	25%
4	Consumer Finance and Credit Rating	10	25%
* Insert rows for more modules in the Course Total		40	100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12th Junior College	SYJC	Secretarial Practice

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	III SY BAF	Financial Market Operations
2	III MMS	Financial Services Management

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Awareness about various services like working of online banking services, payment mechanisms etc
2	Awareness of new type of services like factoring, forfeiting, securitization

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – May 2021	May 2020	May 2019	May 2018
Course Passing % – Average of 3 Divisions	100	100	98.23%	92.89%
Marks Obtained by Course Topper (mark/100)	95	93	88	85

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
May 2020	PAJ	100	PAJ	100		
May 2019	PAJ	99.69 %	PAJ	97.00%	MAA	98.00%
May 2018	PAJ	94%	PAJ	88.5%	PAJ	72.5%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Securitisation	2	Making them understand the topics practically and continuous revision of the topics
Factoring & forfeiting	3	

4 All the Learning Resources – Books and E-Resources**4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students**

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Management	IM Pandey	Vikas Publishing House Ltd.		All
2	Financial Services	Khan M. Y.	Mc Graw Hill Education.		All
3	Financial Services	Dr. S. Gurusamy	Vijay Nicole Imprints		All
4	Financial Market and Services	Gordon and K. Natrajan	Himalaya Publishing House		All

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial markets and Institutions	E. Gordon and K. Natarajan	Himalaya Publishing House		
2	Financial Markets, Institutions and Financial Services	Clifford Gome	PHI Learning		
3	Financial Markets and Financial Services in India	Benson Kunjukunja, S. Mohanan	New Century		
4	Financial Markets and Institutions	Anthony Saunders and Marcia Millon Cornett	Mc Graw Hil		

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Editi on	Modul e Nos.
1	https://ebookcentral.proquest.com/lib/vsitm/detail.action?docID=5138898&query=financial+markets	Francesca Taylor	Pearson Education UK		All

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Course Academic Administration Plan – Security Analysis & Portfolio Management - Semester VI- B.com. (Accounting & Finance)

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.journals.elsevier.com/journal-of-financial-markets/		All

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	√	√	√				√		
2	√	√	√				√		
3	√	√	√				√		
4	√	√	√				√		

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://www.youtube.com/watch?v=MbJLof3fyi4 (introduction to financial system)	
2	https://www.youtube.com/watch?v=28HpCMWfc7k	
3	https://www.youtube.com/watch?v=28HpCMWfc7k	

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.coursera.org/specializations/digital-transformation-financial-services	Coursera	4 weeks	Y

2	https://www.coursera.org/learn/digital-competition-financial-services?ranMID=40328&ranEAID=*GqSdLGGurk&ranSiteID=.GqSdLGGurk-hXX6rfSZXkBy5_m61tnnjg&siteID=.GqSdLGGurk-hXX6rfSZXkBy5_m61tnnjg&utm_content=10&utm_medium=partners&utm_source=linkshare&utm_campaign=*GqSdLGGurk	Coursera	4 weeks	Y
3	Stock Trading & Investing for Beginners	Udemy	9hrs	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Money & Banking	Swayam	30 days	Y
2	Business Environment	Swayam	90 Days	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	□	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	Jan 2022		

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction to Syllabus		CO1		
	2	1	a) Financial Services: Concept, Objectives/Functions		CO1		

2	3	1	Characteristics, Financial Service Market, Financial Service Market Constituents		CO1		
	4	1	Growth of Financial Services in India, Problems in Financial Services Sector		CO1		
3	5	1	Banking and Non-Banking Companies, Regulatory Framework, Factoring- Introduction		CO1		
	6	1	Forfaiting: Introduction, Types of Factoring, Theoretical Framework, Factoring Cost		CO1		
4	7	1	Advantages and Disadvantages of Factoring, Factoring in India, Factoring v/s Forfaiting		CO1		
	8	1	Working of Forfaiting, Benefits and Drawbacks of Forfaiting		CO1		
5	9	1	Revision of Unit 1		CO1		
	10	2	Issue Management and Securitization a) Issue Management and Intermediaries:		CO1		
6	11	2	Introduction, Merchant Bankers/ Lead Managers, Underwriters, Bankers to an Issue, Brokers to an Issue		CO2		
	12	2	b) Stock Broking: Introduction, Stock Brokers, SubBrokers, Foreign Brokers		CO2		
7	13	2	Trading and Clearing/Self Clearing Members, Stock Trading (Cash and Normal) Derivative Trading		CO2		
	14	2	c) Securitization: Definition, Securitization v/s Factoring, Features of Securitization		CO2		
8	15	2	Pass Through Certificates, Securitization Mechanism, Special Purpose Vehicle,		CO2		
	16	2	Securitisable Assets, Benefits of Securitization, New Guidelines on Securitization		CO2		
9	17		Revision of Unit 2		CO2		
	18	3	Financial Services and its Mechanism a) Lease and Hire-Purchase: Meaning,		CO3		
10	19	3	Types of Lease, Housing Finance Institutions in India, National Housing Bank (NHB),		CO3		

	20	3	Leasing in India, Legal Aspects of Leasing, Advantages and Disadvantages of Leasing		CO3		
11	21	3	Definition of Hire Purchase, Hire Purchase and Instalment Sale Characteristics		CO3		
	22	3	Hire Purchase and Leasing, Advantages of Hire Purchase, Problems of Hire Purchase.		CO3		
12	23	3	Market of Housing Finance, Housing Finance in India- Major Issues, Housing Finance in India		CO3		
	24	3	Growth Factors - Guidelines for Asset Liability Management System in HFC,		CO3		
13	25	3	Fair Trade Practice Code for HFC's, Housing Finance Agencies		CO3		
	26	3	c) Venture Capital: Introduction, Features of Venture Capital		CO3		
14	27	3	Types of Venture Capital & Financing Stages,		CO3		
	28	3	Disinvestment mechanisms, Venture Capital Investment process, Indian Scenario		CO3		
15	29		Revision		CO3		
	30	4	Consumer Finance and Credit Rating a) Consumer Finance: Introduction, Sources, Types of Products, ,		CO4		
16	31	4	Consumer Finance Practice in India, Mechanics of Consumer Finance, Terms, Pricing		CO4		
	32	4	Marketing and Insurance of Consumer Finance, Consumer Credit Scoring, Case for and against Consumer Finance		CO4		
	33	4	b) Plastic Money: • Growth of Plastic Money Services in India,		CO4		
	34	4	Types of Plastic Cards- Credit card Debit Card- Smart card- Add-on Cards Performance of Credit Cards and Debit Cards		CO4		
	35	4	Benefits of Credit Cards, Dangers of Debit Cards, Prevention of Frauds and Misuse, Consumer Protection		CO4		

	36	4	Indian Scenario. Smart Cards- Features, and Financial Applications		CO4		
	37	4	Credit Rating: Meaning, Origin, Types, Security Features		CO4		
	38	4	Features Advantages of Rating, Regulatory Framework, Credit Rating Agencies, Credit Rating Process		CO4		
	39	4	Credit Rating Symbols. Credit Rating Agencies in India, Limitations of Rating		CO4		
	40		Revision				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Different types of services provided by various institutions	All	2nd Week	3rd Week
2	Initial Public Offer process	2	4th Week	5th Week
3	Leasing and Hire Purchase	3	6th Week	7th Week
4	Use of Plastic Money	4	9th Week	10th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2	√			1	√				
2	4		√		2		√			
3	6				3			√		√
4	10			√	4		√		√	

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test		1 & 2	1	Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz	2 nd Week	3 & 4	2 & 3		
Open Book Test	10 th Week	1,2,3 & 4			
Take Home Test	5 th Week	2 & 4			
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments



Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	√
3	Test and Assessments	Class Tests – (other than IA)	√
4		Mini Projects	
5		Pop Quiz	√
6		Mobile App Based Quiz	√
7		Open Book Test	√
8		Take Home Test	√
9		Poster Presentation	√
10		Collaborative and Group Activity	Minute Papers
11	Students Seminar		
12	Students Debates		

13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	√
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Pooja Ashok Jogu

Faculty 1 Name (Sign.)
Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3

External Industry Mentor (Sign.)
Mentor (Sign.)

External Academic

VSIT Cluster Mentor Name (Sign.)
(Sign.)

Head of Dept.

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Educational Complex, Vasindkar (E)
Mumbai - 400 027

Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e - books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Department al Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Gain knowledge about basic Accounting Concepts, conventions & principles.
Affective	What do you want students to think / care about?	Understand double accounting system, rules of Debit & Credit
Behavioural	What do you want students to be able to do?	Writing of Journal, Ledger, and final accounts of Trading concerns

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

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CO No.	Statements	Related
--------	------------	---------

		Module/s
CO1	Understand Basic accounting Concepts & principle	Unit 1
CO2	Gain knowledge about the double entry system of accounting & rules of Debit & credit	Unit 1
CO3	Writing up of accounts of a sole trading/partnership firm up to finalization of accounts	Unit 1 & 4
CO4	Classify Income & Expenditure into Capital & Revenue	Unit 2
CO5	Value stock and Understand Hire purchase system of sales	Unit 3

1.c

Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	P O 1 0	P O 1 1	P O 1 2
CO 1	Strong	Strong	Strong	Strong								
CO 2	Strong	Strong	Moderate	Strong								
CO 3	Strong	Moderate	Strong	Strong								
CO 4	Strong	Strong	Strong	Moderate								



CO 5	Strong	Strong	Strong	Strong								
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1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BBI113	Financial Accounting I	75		--	3	--	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Total of IA1 and IA2					
BBI113	Financial Accounting I	20			75			05	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course



Divisions	Lectur	Practical (Hrs.)	Tutorial (Hrs.)
-----------	--------	------------------	-----------------

	e (Hrs.)	Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	4 0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday	12:30pm -13:30pm	X101 & Online

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper


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Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Accounting	8	25%
2	Classification of Income & Expenditure & Accounting Standards	8	25%
3	Stock Valuation & Hire Purchase	13	25%
4	Final Accounts	11	25%
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	11th & 12th Std.	Book keeping	Basic journal, ledger & Final Accounts

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	II	Financial Accounting – II
2		M.Com

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Understanding the Financial results of various companies
2	Maintaining day to day Accounts

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Dec 2020	Dec 2019	Dec 2018	Dec 2017

Course Passing % – Average of 3 Divisions	100%	100%	100%	97.26%	97.18
Marks Obtained by Course Topper (mark/100)	98	95	95	91	89

	Division A		Division B		Division C	
Year	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Dec 2020	KCM / SSB	100%				
Dec 2019	VRG	100%				


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Dec 2018	VRG	97.26				
Dec 2017	VRG	97.18				

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Rectification of Errors	2	Data Base of Entries to be rectified need to be provided

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Accountancy	T. S. Grewal	(S.Chand & Co.)		1-4

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Accounting for Management	Maheshwari SN	Pearson		1-2
2	Financial Accounting	Chopde LN			1-4
3	Financial Accounting	Agarwal RK			1-4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Accounting	University Of Calicut			1-4
2	Financial Accounting I	Dr. Chandra Shekhar			1 & 4

3	Accountancy by The Open University of HongKong	The Open University of Hong Kong			1
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4.d

Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT BombayLibrary]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	http://www.accaglobal.com	Chartered Accountant – ICAI scales new heights of success	1-4
2		Chartered Accountant – Looking for new horizons	1-4
3		Chartered Accountant – Pollinating the growth	1-4
4		Chartered Accountant – Expanding growth	1-4
5		Chartered Accountant – International Taxation	1-4



6		Chartered Accountant – 67 years as institution of public trust	1-4
---	--	----------------------------------------------------------------	-----

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - v						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓							Unit 1
2		✓							Unit 2
3		✓							Unit 3
4		✓							Unit 4

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture-Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in)	1-4
2	Online Notes and PPTs (http://www.icaiknowledgegateway.org)	3-4
3	https://www.youtube.com/channel/UC245KWpRI8clkTzEsdV5WMw (Letstute Accountancy - YouTube)	1-2

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://alison.com/course/fundamentals-of-financial-accounting-revised-2017	Alison	3 hrs	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√ <input type="checkbox"/>	√ <input type="checkbox"/>	√ <input type="checkbox"/>	<input type="checkbox"/>	√ <input type="checkbox"/>	


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5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	21 st June 2021		

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	S	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
							Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ WebSite
1	1	1	Meaning and Scope of accounting, Book keeping v/s Accounting, Accounting Terms,			CO 1		
	2	1	Accounting Concepts & Conventions, Classification of Accounts, Rules of Debit & Credit (Basic Accounting Terminologies Basic Terms in Accounting LetstuteAccountancy - YouTube)			CO 1		Video
	3	1	Journal Entries			CO 2		
2	4	1	Journal Entries			CO 2		MS form - Quiz
	5	1	Cash Book			CO 2		

	6	1	Cash Book				CO 2		Assignme nt
3	7	1	Sales & Sales Return Book Purchase & Purchase Return Book				CO 2		
	8	1	Ledger				CO 2		
	9	1	Trial Balance				CO 2		PBL
4	1 0	2	Classification of Income and Expenditure				CO 4		PBL



	1 1	2	Bank Reconciliation Statement			CO 2		Assignme nt
	1 2	2	Bank Reconciliation Statement			CO 2		
5	1 3	2	Errors and their Rectification			CO 2		
	1 4	2	Errors and their Rectification			CO 2		
	1 5	2	Accounting Standards			CO 1		
6	1 6	2	IFRS			CO 1		
	1 7	3	Inventory Valuation –FIFO			CO 5		
	1 8	3	FIFO			CO 5		
7	1 9	3	FIFO			CO 5		
	2 0	3	WA			CO 5		Assignme nt
	2 1	3	WA			CO 5		
8	2 2	3	Combine			CO 5		
	2 3	3	Hire Purchase – Concept			CO 5		MS Form -Quiz
	2 4	3	Practical Problems			CO 5		
	2	3	Practical Problems			CO		

9	5					5		
	26	3	Practical Problems			CO 5		Assignment
	27	3	Practical Problems			CO 5		
10	28	3	Practical Problems			CO 5		


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	29	3	Practical Problems				CO 5		
	30	4	Final accounts Introduction & Concept				CO 3		
11	31	4	Manufacturing Account				CO 3		MS Form -Quiz
	32	4	Trading Account				CO 3		
	33	4	Profit and Loss account				CO 3		
12	34	4	Balance Sheet				CO 3		PBL
	35	4	Practical problems				CO 3		Assignment
	36	4	Practical problems				CO 3		
13	37	4	Income & Expenditure account				CO 4		
	38	4	Balance sheet of NPO				CO 4		
	39	4	Practical Problems				CO 4		
14	40	4	Practical Problems				CO 4		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other)	Other (1) specify	Other (2) specify	Total
--------------------------------------------	-------------	----------	-----------------------------	------------------------	---------------------	-------------------	-------------------	-------

					than IA)			
20	20	-	-		40	20		100 Scale Down to 25

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)



Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Classification of Accounts & Journal Entries	CO2	2 ND Week	2 ND Week
2	Classification into Capital & Revenue	CO4	4 th Week	5 th Week
3	Practical problems on Stock Valuation	CO5	7 th Week	8 th Week
4	Practical problems on Hire Purchase	CO5	9 th Week	10 th Week
3	Trial Balance & Final Accounts	CO3	12 th Week	13 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2	v			1		v		v	v
2	4	v			2		v		v	v
3	7	v			3		v		v	v
4	9	v			3		v		v	v
5	13	v			4		v		v	v

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)# Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details



Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1st IA Test	6 th Week	1&2		Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2nd IA Test					IA is a Head of passing *
Pop Quiz	1 st week 5 th week 11 th week 14 th week	1 2 3 4			



Open Book Test	4 th week	2			
Take Home Test	3 rd week 13 th week	1 4			
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			
2					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

2					
---	--	--	--	--	--

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	Journalise day to day Income & Expense`s	Double entry system & Journal entries	CO 2	
2	2	Classify your daily Income & expenditure	Classification of Income & expenditure	CO 4	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report



1	Interaction with Outside World	Guest Lecture / Workshops	Hands on workshop on Basics of Accounts for non-commerce students
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	
4		Mini Projects	?
5		Pop Quiz	?
6		Mobile App Based Quiz	
7		Open Book Test	?
8		Take Home Test	Classification of Income & Expenditure
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	Classification of Accounts
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	?
16		Value Added Courses	
17		Lecture Capture Usage	?

Note: Teaching Pedagogy – 1. Computational Thinking,

2. Context-Based Learning.

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not**

Planned. Consolidated Academic Administration Plan Prepared by (mention all theory

teaching faculty names with signature) Faculty 1 Name (Sign.)

Ms. Kavitha Mohan

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e - books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	It shall enable students to learn and to have a good working practice of mathematical tools for taking appropriate decisions in managerial situation
Affective	What do you want students to think /care about?	During this course students will be provided with primary knowledge regarding some Mathematical techniques to be used in managerial decision making.
Behavioural	What do you want students to be able to do?	At the end of this course students shall gain knowledge about the basic mathematical tools used in business and statistical techniques that facilitate comparison and analysis of business data.

1.b**Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)**

CO No.	Statements	Related Module/s
CO1	To understand the concept of Introduction, Organising, data, Frequency Distribution, Data Representation.	Unit 1
CO2	To understand the concept of Measures of Central Tendencies.	Unit 2
CO3	To understand the concept of Measures of Dispersion.	Unit 3
CO4	To understand the concept of Co-variance, Correlation and Regression	Unit 4
CO5	To understand the concept of Probability, Probability Distribution and Decision Theory.	Unit 5
CO6	To understand the concept of Index Numbers.	Unit 6
CO7	To understand the concept of Insurance	Unit 7

1.c

Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)



	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	M											
CO 2		M										
CO 3												
CO 4												
CO 5												
CO 6		S										
CO 7				S								

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓				✓		

Subject Code		Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BBI	Quantitative methods	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					

BBI	Quantitative methods	20	05	25	75				100
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1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)


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Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Saturday	12:30 TO 1:30	Virtual MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction, Organising, data, Frequency Distribution, Data Representation.	8	Equal
2	Measures of Central Tendencies.	7	Equal
3	Measures of Dispersion.	7	Equal
4	Co-variance, Correlation and Regression	7	Equal
5	Probability, Probability Distribution and Decision Theory.	4	Equal
6	Index Numbers.	4	Equal
7	Insurance	3	Equal
Total		40	100

2.b Prerequisite Courses

No.	Semester/CLASS	Name of the Course	Topic/s
1 2	FYJC (COMMERCE) SYJC(COMMERCE)	Correlation, Regression, Probability, Index Number	4, 5, 6

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	2	MBA

2.d**Real Life Application Mapping – Mention Application from Very Common Day to Day Life**

No.	Real Life Application Mapping with the Course
1	Research related activities
2	Investment (Insurance)

3.**Past Results – Division-Wise and Topic-Wise Result Based Analysis**

Details	Target - Nov 2021	Nov 2020	Nov 2019
Course Passing % – Average	100%	100%	93.68%
Marks Obtained by Course Topper (mark/100)	100	97	92

Year	Division A	
	Initials of Teacher	% Result
Nov 2020	PSK	100 %
Nov 2019	PSK	93.68%
Nov 2018	PSK	98.63%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Probability	5	Practice & written assignments

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
	NA				

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Mathematical Statistics	J.K. Goyal and J.N. Sharma	Krishna Prakashan	7	1-6
2	Business Mathematics and Statistics	R.K. Ghosh and S. Saha	New Central Agency Pvt. Ltd	4	1-6

3	Commerce Mathematics	Om P. Chug	Anmol Publication Ltd	2	1-6
4	Mathematics for Economics and Business	J. Soper,	Blackwell Publishing, U.S.A	9	1-6

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introductory Business Statistics	ALEXANDER HOLMES, THE UNIVERSITY OF OKLAHOMA BARBARA ILLOWSKY, DE ANZA COLLEGE	OpenStax	1st	2,4,5

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT BombayLibrary]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.



Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Journal of Modern Mathematics and Statistics ISSN: 1994-5388	http://www.journals4free.com/link.jsp?l=8048648	1-7

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - v						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓		✓						Text Book (Vipul), Chapter 1-4, Pg 1-141
2	✓		✓						Text Book (Vipul), Chapter 5-8, Pg 142-221
3	✓		✓						Text Book (Vipul), Chapter 9-10, Pg 222-271
4	✓		✓						Text Book (Vipul), Chapter 11, Pg 272-309

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/~~VIT Lecture Capture~~/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1. 2.	MS Stream Vrefer	All

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
---------	------------------	------------------------------------------------------------------	-----------------	---------------------

1	https://www.udemy.com/course/statistics-literacy-for-non-statisticians/	Udemy Application	10 hrs	N
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4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person /Institute / Industry	Course Duration	Certificate(Y / N)
1	NA			

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	?	?	✓	✓	


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5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration			15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ WebSite
1	1	1	Introduction to Syllabus and its application in day to day life				
	2	1	Organizing Data, Frequency Distribution				
	3	1	Measure of Central tendency				
	4	1	preparation of frequency distribution graphical and diagrammatic representation histogram frequency polygon and Ogives				
2	5	1	Definition of averages and objective of averages types				
	6	1	Arithmetic mean, Geometric, harmonic mean and its usages				
3	7	1	mode and medium (using graph also) for both) for grouped as well as ungrouped data				
	8	1	Measures of Central Tendencies Definition of Averages and objective of Averages Types of Averages.				
	9	2					

4	10	2	Arithmetic mean, Geometric Mean				
	11	2	Harmonic Mean and its advantages				
	12	2	Disadvantages and usages, mode				


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	13	2	Median				
5	14	2	quartiles, deciles and percentiles for Grouped data				
	15	2	quartiles, deciles and percentiles for ungrouped data				
	16	3	Measures of Dispersion Concept and idea of dispersion				
	17	3	Various measures Range				
6	18	3	Quartile deviation				
	19	3	Mean Deviation				
	20	3	Standard Deviation and corresponding relative measure of dispersion.				
	21	3	Geographical representation measure of Dispersions				
7	22	3	Utility of various is measure of Dispersions				
	23	4	Co-variance, Correlation and Regression Meaning, definition				
	24	4	Application of covariance, concept of correlation				
	25	4	Rank correlation				
8	26	4	regression concept, relationship with correlation				
	27	4	Estimation using Simple Regression: Fitting of straight line				
	28	4	Method of least square				
9	29	4	construction of characteristic line/estimation line				
	30	5	Probability, Probability Distribution and decision Theory				

	31	5	Concept of probability ven diagrams, Rules of Probability conditional & unconditional probability				
	32	5	Baye theorem. Discrete and continuous variable				
	33	5	Expected value of the variable, Decision theory normal distribution				
1 1	33	6	Index Nos. Concept and usage of Index no				
	34	6	Types of index nos. Aggregate and Relative method of constructing Index no				
1 3	35	6	Quantity and Value index no for agricultural, industrial production				
	36	6	Retail Prices, Consumer price index nos. for security prices				
	37	7	Insurance Meaning, Objective, Purpose and need for Insurance				
1 4	38	7	Fundamentals of Insurance				
	39	7	Calculation of age, Premiums, Bonuses, Paid up value of a policy, Maturity Value of the Policy				
	40	7	Claim Calculation and Surrender Value.				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
--------------------------------------------	-------------	----------	-----------------------------	------------------------	-----------------------------	---------------------	-------------------	-------

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	5 Marks							5
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7.

Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignment given to Students on	Date of Submission
1	Measures of Central Tendencies	2	3 rd week	4 th week
2	Measures of Dispersion	3	6 th week	7 th week
3	Correlation & Regression	4	9 th week	10 th week
4	Probability Distribution	5	11 th week	12 th week
5	Index Numbers	6	14 th week	15 th week


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Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	√			1	√	√		√	
2	8	√			2	√	√		√	
3	12	√			3	√	√		√	
4	14	√			4	√	√		√	

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)# Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz	Unit wise prepared				
Open Book Test	Theory				
Take Home Test	Unit wise prepared				

Class tests / prelims					
Any other test/exams					

*** IA failures will have to appear for re-test in next semester**

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

9.b

Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality
---------------	------------	---------------------------------------------	----------------------------	--------	-----------------

					Rate (0 to 4)
1					
2					

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1					
2					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Vedic Maths
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Class Test on Measures of Central tendency
4		Mini Projects	
5		Pop Quiz	Unit wise
6		Mobile App Based Quiz	Indiabix.com
7		Open Book Test	Decision theory
8		Take Home Test	Topic: Index Number
9	Collaborative and Group Activity	Poster Presentation	Unit 7 Insurance
10		Minute Papers	Topic: Formula Book
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	

15	Co- curricula r Courses	MOOC-NPTEL/Coursera Videos	Statistics literacy for non-statisticians(Udemy app)
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**
 Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Ms. Swapna kadam

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)


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The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e-books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Discuss and communicate the management evolution and how it will affect future managers.
Affective	What do you want students to think / care about ?	Observe and evaluate the influence of historical forces on the current practice of management.
Behavioural	What do you want students to be able to do?	Identify and evaluate social responsibility and ethical issues involved in business situations and logically articulate own position on such issues. Explain how organizations adapt to an uncertain environment and identify techniques managers use to influence and control

		the internal environment.
--	--	---------------------------

1.b

Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Understand the basic concepts of Management	Unit 1
CO2	Practice the process of management's four functions: planning, organizing, leading, and controlling.	Unit 2
CO3	Evaluate leadership styles to anticipate the consequences of each leadership style.	Unit 2 & 3
CO4	Gather and analyze both qualitative and quantitative information to isolate issues and formulate best control methods.	Unit 4


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1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	S	S								
CO 2	S	S	S	S								
CO 3	S	S	S	S								
CO 4	S	S	S	S								
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
	PO M	75	--	--	3	-	--	3

Subject Name	Examination Scheme

Subject Code		Theory Marks IA Test			End Sem Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
	PO M	20	05	25	75	--	--	--	75

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecturer (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A			

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Management	11	25%
2	Management Process	11	25%
3	Organization Structure of Banking and Insurance companies	10	25%
4	Business Leaders	8	25%

* Insert rows for more modules in the CourseTotal	40 hrs	100%
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2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12 th std	Management	Contributions of Author


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2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	I	MMS

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Identify and evaluate social responsibility and ethical issues involved in business situations and logically articulate own position on such issues.
2	Explain how organizations adapt to an uncertain environment and identify techniques managers use to influence and control the internal environment.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - 2021	2020	2019	2018
Course Passing % – Average of 3 Divisions	100	100	95.92	88.23
Marks Obtained by Course Topper (mark/100)		99	85	84

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
2020	Sindhu	100				
2019	Sindhu	95.92				
2018	HPN	88.23				
2017	HPN	86.45				

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
		Its lengthy Paper but not tough

4**All the Learning Resources – Books and E-Resources****4.a****List of Text Books (T – Symbol for Text Books) to be Referred by Students**

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Principles of Management	T.Ramaswamy	Himalaya Publications, Mumbai		1 & 2
2	Practices and Principles of Management	L.M. Prasad	S.Chand and Sons Education Publishers, New Delhi.		2 & 3



4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Management:	M.Y. Khan	Tata McGraw Hill.		1
2	Principles of Management	Ravi M Kishore	Prentice Hall		2
3	Principles of Management	T.Ramaswamy	Himalaya Publications, Mumbai		2 & 3
4	Practices and Principles of Management	L.M. Prasad	S.Chand and Sons Education Publishers, New Delhi.		3
5	Business Maharajas	Gita Piramal	Penguin Books, New Delhi		4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The Basics of Business Management – Vol II, Marketing, Logistics, Procurement and Law	Elly R. Twineyo Kamugisha	BookBoon Publication		
2	Effective Management Decision Making An Introduction	Ian Pownall	BookBoon Publication		
3	Organisations	Manmohan Joshi	BookBoon Publication		

4.d

Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT BombayLibrary]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Indian Journal of Management		1-4
2	Journal of Management and Economics		1-4
3	Global Journal of Finance and Management		1-4

4.e

Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - ✓						Available in VSIT Library?		Details of the Resource (i.e. Name, Chapter & PageNo., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓	✓	✓			Y		
2		✓	✓	✓					
3		✓	✓	✓					
4		✓	✓	✓					
5									

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos



Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No .	Websites / Links	Module Nos.
1	https://youtu.be/P_bqDgkZmuY	(1)
2	https://youtu.be/HBYwpqn1FMk	(3)
3	https://youtu.be/1SuHHul13nY	(3)
4	https://youtu.be/vo8RSnj0UOA	(4)

4.g

Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate(Y / N)
1	https://www.edx.org/course/management-accounting-acca-fma-f2-x-8	edX	10 weeks	Y
2.	https://www.edx.org/course/personal-finance-purduex-pn-17-2		5 weeks	Y

4.h

Recommended Value Added Courses (VAC)



Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.coursera.org/learn/corporate-strategy	University of Illinois at Urbana-Champaign	4 weeks	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
?	?	?	?	?	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	2021	2021	15

Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
					Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	Introduction, Definition, Nature and Importance of management				
2	1	Levels of Management and functions at each level and its distinction				

3	1	Six M's of Management and its characteristics				
4	1	Management Is art or profession				
5	1	Traditional Management, its features, and advantages				


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6	1	Contemporary Management, its features, and advantages				
7	1	Distinction between Traditional and Contemporary Management				
8	1	Henri Fayol				
8	1	F.W.Taylor				
9	1	Peter.F.Drucker				
9	1	C.K.Prahala				
10	1	Vijay Govindrajan				
10	1	Total quality Management				
11	1	Revision unit 1				
12	2	Management - Process and Practices				
13	2	Features/Nature of Management process				
14	2	Planning- Features /Characteristics of planning				
15	2	Steps in Planning process				
15	2	Components of planning				
16	2	Planning function in banking Organisations				
17	2	Management by Objectives (MBO)				
17	2	Organising				

18	2	Staffing				
19	2	Directing				
20	2	Coordination				
20	2	Communication & Motivating				
21	2	Budgeting				
22	2	Reporting and controlling				
22	2	CRM in Banking Sector & KYC				
24	2	CRM in HDFC, ICICI & LIC				
25	3	Meaning and Definition of Organisation Structure				
26	3	Factors and Importance of Organisation Structure				
27	3	Steps in Designing Structure, Principles of Organisation				
	3	Formal and Informal Organization-Introduction and Meaning	Self-study			
	3	Difference between Formal and Informal Organisation	Self-study(will be evaluated			
28	3	Types of Organisation Structure				
29	3	Departmentation-Definition and Bases of Departmentation				

30	3	Centralisation, Advantages and Disadvantages of Centralisation				
31	3	Organisation structure of banking companies				
32	3	Organisation structure of insurance companies				
33	3	Organisation structure of insurance companies				
33	3	Organisation structure of insurance companies				
34	4	Introduction to Business Leaders, classification of Business leaders				
35	4	JRD TATA and Contributions of JRD TATA				
36	4	RATAN TATA and his leadership Qualities				
37	4	Aditya Vikram Birla and Kumar Managalam Birla, Kiran Maazumdar Shaw				
38	4	Dhirubhai Hirachand Ambani & Sons, Verghese Kurien & Aziz Premji				
39	4	Narayana Murthy & Anand Mahindra				
39	4	Godrej group & Deepak Parekh				
40	4	K.V.Kamath & Uday Kotak, Governor of RBI				

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
--------------------------------------------	-------------	----------	-----------------------------	------------------------	-----------------------------	---------------------	-------------------	-------

	Y				Y	05		05
--	---	--	--	--	---	----	--	----



7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignment given to Students on	Date of Submission
1	Contributions of Henri Fayol, Peter. Drucker, F.W.Taylor	CO1		
2	Explain in detail Organising and staffing	CO2		
3	Brief Organisation structure of banking companies and Insurance Companies	CO3		

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1		Y			1		Y	Internet	Y	Y
2		Y			2		Y	Internet	Y	Y
3		Y			3		Y	Internet	Y	Y

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks	No IA Re-test

2nd IA Test				Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	IA is a Head of passing *
Pop Quiz		Yes			
Open Book Test		Yes			
Take Home Test		Yes			
Class tests / prelims	Mar	Yes			
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		SCAMPER TECHNIQUE			

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.c Practical Activities – PBL Experiments



Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality(0 to 4)
1		NA			

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	YES
3	Test and Assessments	Class Tests – (other than IA)	
4		Mini Projects	
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	Yes
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	
12		Students Debates	Yes
13		Panel Discussion / Mock GD	YES
14		Mock Interview	Y
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Sindhu .K

Faculty 1 Name (Sign.)
Name(Sign.)

Faculty 2 Name (Sign.)

Faculty 3

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)





VSIT Cluster Mentor Name (Sign.)
(Sign.)

Head of Dept.



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INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Vazeela (E)
Mumbai - 400 047



Version 2021-22

The academic resources available in VSIT –

VMIS (ERP)	V-Refer	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions(prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Contentfor the subject (scanned / typed by faculty)	All text books, reference books, e - books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To enhance language proficiency and communication skills, to improve the learners’ written language and increase the range of lexical resource through a variety of exercises
Affective	What do you want students to think / care about?	To enable understanding about the importance of proficiency in communication in order to improve career prospects and growth.
Behavioural	What do you want students to be able to do?	To easily correspond in all types of corporate communication.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)



CO No.	Statements	Related
--------	------------	---------

		Module/s
CO1	To familiarize the learners to various communication technologies used to overcome communication barriers	Unit 1
CO2	To train the students to be comfortable with and know about various types and the importance of group communication	Unit 2
CO3	To enhance written language proficiency in business correspondence	Unit 3
CO4	To acquaint the students with report writing and the various types of reports	Unit 4

1.c

Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	M	M	S	S	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
CO 2	M	M	S	S	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
CO 3	M	M	S	S	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
CO 4	M	M	S	S	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
CO 5												



1.d**Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)**

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e**Teaching and Examination Scheme (As specified by the University) for the Course**

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category			✓		✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
UBMS204	Business Communication - II	75	-	-	03		-	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	T W	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
UBMS204	Business Communication - II	20	05	25	75	-	-	-	100

1.f**Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course**

Divisions	Lecturer (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4

A	3	N.A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
---	---	-----	------	------	------	------	------	------	------

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Tuesday		Staff room

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers



1	Presentation Skills	7	25
2	Group Communication	15	25
3	Business Correspondence	10	25
4	Language and Writing Skills	8	25
* Insert rows for more modules in the Course		Total	40 lectures)

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	1	Business Communication - I	ALL

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	1	Masters of Management Studies
2		Masters in Business Administration
3	VI	Project –Synopsis writing

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Use of communication technologies such as OHP and PowerPoint Presentation
2	Group Discussions, Interviews, Meetings and Conferences
3	Written business correspondence such as letters and reports

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target May -22	Mar 2021	Mar 2020	Mar 2019
Course Passing % – Average of 3 Divisions	100%	100%	100%	98.46%

Marks Obtained by Course Topper (mark/100)	85	83	85	86
---------------------------------------------	----	----	----	----

Division A		
Year	Initials of Teacher	% Result
Mar-2021	Snehaprabha Katti	100%
Mar 2020	Snehaprabha Katti	100%
Mar 2019	Snehaprabha Katti	98.46%
Mar 2018	Snehaprabha Katti	98.6%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Business Correspondence	3	Written practice
Language and Writing Skills	4	Written practice and examples
Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Business Correspondence	3	Written practice
Language and Writing Skills	4	Written practice and examples

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition Year of Publication	Module Nos.
1	Effective Communication	Balan, K.R. and Rayudu C.S.	Beacon New Delhi	1996	All
2	Business Communication, today	Bovee Courtland, L and Thrill, John V	McGraw Hill, New York, Taxman Publication	1989	All
3	Modern Business Correspondence	Garlside, L.E.	McDonald and Evans Ltd. Plymouth.	1980	III

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	<i>Business Communication</i>	Meenakshi Raman & Prakash Singh	Oxford University Press		III and IV
2	<i>Professional communication</i>	Aruna Koneru	Tata McGraw Hill		III and IV
3	<i>Business Communication - II</i>	Rhoda A Doctor, Aspi H. Doctor et al	Sheth		ALL

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
--------	----------------	----------	-----------	---------	-------------

1.	Modern Business, Vol. 12 http://library.umac.mo/ebooks/b31303316.pdf	Harrison McJohnston, A.M	Alexander Hamilton Institute , New York	I	III and IV
----	-----------------------------------------------------------------------------------------------------------------------------------	--------------------------------	-----------------------------------------------------	---	------------

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	
1	Communication Today	lib.mylibrary.com	



4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - V						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓						✓	Semester II, Sheth Publishers Pvt.Ltd. By Rhoda A. Doctor, Aspi H. Doctor et al

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/~~VIT Lecture Capture~~/NPTEL Videos

~~Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.~~

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in)	1-4
2	PPTs	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.udemy.com/business-communication-crash-course/	Elevance Team	60 lectures	Y
2.	Soft skills and personality development	NPTEL	8 weeks	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Workshop on Basics of Grammar	Institute	10 Hrs	Y

4.i**Study Material Distributed among Students**

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Solutions of the Regular and ATKT Exams written by the Faculty Members-


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5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	31/1/22	April 22	12

Week No.	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	Actual dateof Completi on	COs	Recomm ed Prior Viewing / Reading	
						Lectu re No. (on LMS)	Chapter No. / Page Nos./ Books/ WebSite
1	1	I	C		CO1		
	2	I	Principles of Effective presentation.Do's and Don'ts of Effective Presentation		CO1		
	3	I	Effective use of visuals aids inPresentation. Paralanguage/ voice/ pronunciation inthe presentation		CO1		
2	4	I	Guidelines for Effective Presentation.Audience in the Presentation		CO1		
	5	I	Effective use of OHP		CO1		
	6	I	How to make power point presentation.Different designs/fonts/colours		CO1		
3	7	I	Practice sessions for the students		CO1		
	8	II	Interviews – Concept and Types-Selection /WASP Technique		CO2		

	9	II	Interviews – Appraisal, Grievance , ExitInterview (Open book Test -Unit I)		CO2		
4	10	II	Conduct of an Interview , Preparationby an Interviewer and Interviewer P: Interview Technique		CO2		
	11	II	FAQs in Interview ,Advantages andDisadvantages		CO2		



	12	II	Group Discussion – Concept , Reasonsto conduct, Skills and Importance		CO2		
5	13	II	Group Discussion- Organising G.D .Do’s and Don’ts .		CO2		
	14	II	G.D		CO2		
	15	II	Meeting – Concept, Need and Importance Types and conduct of a meeting		CO2		
6	16	II	Meeting – Group dynamics and role ofa chairperson and participants		CO2		
	17	II	Notice and Agenda		CO2		
	18	II	MOM(Minutes of Meeting)Revision		CO2		
7	19	II	Conferences – Concept, Planning, importance and organising aconference		CO2		
	20	II	Conferences – Modern Methods ofconferences- Tele and Video Conferencing		CO2		
	21	II	Public Relations-Meaning, Need,Purpose		CO2		
8	22	II	Public Relations- Function , Internal andMeasures of PR.		CO3		
	23	III	Business Correspondence- Letters ofInquiry, Replies		CO3		
	24	III	Business Correspondence- Letters ofInquiry, Replies		CO3		
9	25	III	Letters of Complaint, Claims		CO3		
	26	III	Letters of Adjustments		CO3		

	27	III	AIDA and Sales Letters		CO3		
10	28	III	AIDA and Sales Letters		CO3		


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6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other(2) specify	Total
						5		5


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7.

Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment 1- 1) State and explain the types of deliveries in presentation, 2) write short notes on – a) Audience analysis b) Use of visual aids in Presentation c) Appearance of the Presenter.	CO1	Week 2	Week 3
2	Assignment 2- State and describe in brief the types of Interviews. (Assignment 2) Describe in detail the role of the Chairperson and the participants during Meeting	CO2	Week 5	Week 6
3	Assignment 3-a) Letters of Inquiry and sales letter	CO3	Week 7	Week 7
4	Assignment 4- Feasibility report (committee report)	CO4	Week 10	Week 10

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	Week 2	<input checked="" type="checkbox"/>			1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Week 5				2				<input checked="" type="checkbox"/>	
3	Week 7				3				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Week 10				4				<input checked="" type="checkbox"/>	

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	Mid of March	I and II		Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2nd Test					IA is a Head of passing *
Pop Quiz	January				
Open Book Test	February	II	CO2		
Take Home Test	March	III	CO3		
Class tests /prelims	10 th 20 th /30 th 38 th lecture	I,II,II,&IV respectively	CO1 to CO4		
Debate		II	CO2		
Poster Competition	March	III	CO3		

* IA failures will have to appear for re-test in next semester



Internal Evaluation Pattern

Sr. No.	Criteria	Evaluation	Subject wise Marking Scheme			
			Subject 1	Subject 2	Other Subjects	Mark
1.	Attendance					20
2.	Unit wise class Test	20 MCQ (20*0.5 mark* 4 test)				40
3.	Midterm	Descriptive Exam				20

4.	Individual Presentation		20	-	-	20
5.	Mini Project - Group	Content + Presentation (5/6 in a group)	-	20	-	
6.	Handwritten Assignment	4 per subjects	-	-	20	
	Total Mark					100
Final Internal Mark = Total Mark / 4						Your Mark



9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Presentation	Effective power point presentation, oral presentation and persuasive strategies	CO1	
2		Mock Interview	Preparing students for interviews	CO2	
3		Group Discussion	Conversation Skills and analytic ability	CO2	
4		Trade Letters	Written corporate communication	CO4	

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Blog Writing / Vlog making		CO4	

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	III	Case study Analysing resumes of renowned personalities	Effective Written Communication	CO3	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Activities	Details – no of attendees, guest, feedback, mark sheet, report

1	Interaction with Outside World	Guest Lecture / Workshops	Basic Grammar workshop -
2	Test and Assessments	Class Tests – (other than IA)	Yes
3		Pop Quiz	Yes
4		Open Book Test	2nd Week
5		Take Home Test	10th Week
6	Collaborative and Group Activity	Students Debates	NA
7		Panel Discussion / Mock GD	Yes 4th Week
8		Mock Interview	Yes 3 rd Week
9	Co-curricular Courses	Videos	Y
10		Room 101 Competition	NA

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature) L

Snehaprabha Katti

Rumeli Sharma

Lakshmi Pillai

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External
Academic Mentor

(Sign.)



Rumeli Sharma

Sindhu Krishnan

VSIT Cluster Mentor Name (Sign.)

Head of Dept.

(Sign.)



The academic resources available in VSIT –

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Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e - books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Department al Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Gain knowledge about basic Accounting Concepts, conventions & principles.
Affective	What do you want students to think / care about?	Understand Valuation of Goodwill & Shares
Behavioural	What do you want students to be able to do?	Practically evaluate the performance of a company by valuation techniques & pass journal entries of redemption of Preference shares and debentures.

1.b**Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)**

CO No.	Statements	Related Module/s
CO1	To Understand Valuation of Goodwill & Shares	Unit 1
CO2	Gain knowledge about Buy Back of shares	Unit 2
CO3	To Understand Redemption of Preference shares	Unit 3
CO4	To Understand Redemption of Debentures	Unit 4

1.c**Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												


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1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Examination Scheme

Subject Code	Subject Name	Teaching Scheme				Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total	
20	Financial Accounting II	75	20	--	3	40	--	--	30

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Friday	2pm -3:00pm	Reading Room



2.a**Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper**

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Valuation of Goodwill and Shares	8	25%
2	Buyback of equity shares	9	25%
3	Redemption of preference shares	12	25%
4	Redemption of debentures	11	25%
* Insert rows for more modules in the Course		Total	40hrs
			100%

2.b**Prerequisite Courses**

No.	Semester	Name of the Course	Topic/s
1	I	FY Course	Financial Accounting -1

2.c**Relevance to Future Courses**

No.	Semester	Name of the Course
1	V	Auditing
2	Vi	Auditing II

2.d**Real Life Application Mapping – Mention Application from Very Common Day to Day Life**

No.	Real Life Application Mapping with the Course

1	Understanding the Financial results of various companies. Analyze the valuation of businesses as well as terms of Mergers and Acquisitions
2	Understand the different sources of funds and costs of it . Also, the procedure behind the IPO and right issues.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Detail s	Target APR 2022	APR 2021	APR 2020	ARP 2019
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Course Passing % – Average of 3 Divisions	100 %	100%	100 %	100%
Marks Obtained by Course Topper (mark/100)	95	95	91	89

Year	Division A	
	Initials of Teach er	% Result
APR 2021	Shery asB Sir	100%
APR 2020	Kavita ma'am	100%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Redemption of Preference Shares & debentures	3 & 4	More Practice and revision from time to time as well as small tests



4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Accountancy	T.S. Grewal	S. Chand and Company (P) Ltd., New Delhi	Jan 2016	
2	Financial Accounting for Management	Dr. Dinesh Harsolekar	Multi-Tech. Publishing Co	4 th	
3	Financial Accounting a Managerial Perspective	Varadraj B. Bapat, Mehul Raithatha,	Tata McGraw Hill Education Pvt. Ltd.	July 2017	
4	Financial Accounting	P.C. Tulsian	Pearson Publications	4 th	

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Accounting	Williams	Tata Mc. Grow Hilland Co.	4 th	
2	Introduction to Financial Accounting	Horngren	Pearson Publications	2014	

3	Financial Management	Prassana Chandra	Tata McGraw Hill	7th	
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4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Accounts	Rajasekaran	Pearson		
2	Introduction to Financial Accounting	Hornngren ,Sundem, Elliot,D, Hilbrick		Global	
3	Fundamentals of Accounting and Financial Analysis	Anil Chowdhury	Pearson	1	1&2

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	TechJava - Journal on Java Technology www.techjava.de/	https://docs.oracle.com/javase/tutorial/	1-5
2	Developmet of JAVA Development Resource Center https://ejournals.ph/article.php?id=8986	https://www.w3schools.in/java-tutorial/	1-5
3		https://www.w3resource.com/java-tutorial/	1-3
4		javamag.org/	4-5
5		https://www.tutorialspoint.com/java/	1-4
6		Java Magazine, Sept/Oct 2017 www.javamagazine.mozaicreader.com/	

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Modu	Category (Please Tick Mark) - v			Available In VSIT Library?	Details of the Resource
	Boo		Journals		

le No.	k			Mag a-zine			Y	N	(i.e. Name, Chapter & Page No.,etc.)
	Text	Referenc e	E-Boo k		Regula r	E-Journ al			
1	✓	✓					✓		Chapter 1
2	✓	✓					✓		Chapter 2
3	✓	✓					✓		Chapter 3
4	✓	✓					✓		Chapter 4

4.f

Web Links for Online Notes/YouTube/VSIT Digital Content/**VIT Lecture Capture**/NPTELVideos



Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate(Y / N)
1	https://alison.com/course/fundamentals-of-financial-accounting-revised-2017	Alison	3 hrs	Y
2	https://alison.com/course/introduction-to-financial-accounting-concepts-for-decision-making	Alison	6 hrs	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person /Institute / Industry	Course Duration	Certificate(Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√ <input type="checkbox"/>	√ <input type="checkbox"/>	<input type="checkbox"/>	√ <input type="checkbox"/>	√ <input type="checkbox"/>	

5. Consolidated Course Lesson Plan



	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	/01/2022	March 2022	15

Week	Lecture no	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site


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 Educational Campus, Vashi (E)
 Mumbai - 400 027



1	1	1	Introduction to Syllabus – and a group activity		CO1		
	2	1	Valuation of Goodwill, Maintainable Profit method – Practical problem		CO1		
	3	1	Super Profit Method Capitalization method – Practical problem, Annuity Method – Practical problem		CO1		
2	4	1	Practical Problem, Take home Assignment		CO1		
	5	1	Introduction of Valuation of Shares , IV method & Yield method and Fair Value Method		CO1		
	6	1	Practical Problem		CO1		
3	7	1	Practical Problem & Take Home Assignment		CO1		
	8	2	Introduction to issue of shares, Provisions, compliance & limits		CO2		
	9	2	Practical Problems		CO2		
4	10	2	Practical Problems – Open Book Test		CO2		
	11	2	Practical Problems		CO2		
	12	2	Practical Problems –		CO2		
5	13	3	Practical Problems first 2 modules		CO2		
	14	3	Practical Problems first 2 modules, Minute Paper		CO2		

	15	3	Revision of first 2 modules		CO2		
6	16	3	Introduction of Redemption of preference shares		CO3		
	17	3	Company law, legal provisions , sources of redemption		CO3		
	18	3	Formulas and Formats with one simple sum		CO3		
7	19	3	Practical Problem		CO3		
	20	3	Practical Problem-		CO3		


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	21	3	Practical Problem		CO3		
8	22	3	Practical Problem- Take Home Assignment		CO3		
	23	3	Practical Problem		CO3		
	24	3	Practice & Class Test		CO3		
9	25	3	Practical Problem		CO3		
	26	3	Practical Problem Minute Paper		CO3		
	27	3	Revision		CO3		
10	28	4	Introduction to Redemption of Debentures , payment out of capital or profit, DRR, sinking fund		CO4		
	29	4	Formulas and Formats with one simple sum		CO4		
	30	4	Practical Problem		CO4		
11	31	4	Practical Problem		CO4		
	32	4	Practical Problem Take Home Assignment		CO4		
	33	4	Practical Problem		CO4		
12	34	4	Conversion Practical Problem		CO4		
	35	4	Practical Problem		CO4		
	36	4	Revision Minute Paper		CO4		
13	37	4	Problem solving from all 4 modules		CO4		
	38	4	Problem solving from all 4 modules		CO4		
	39	4	Problem solving from all 4 modules		CO4		
	40	4	Problem solving from all 4 modules		CO4		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)



Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
--------------------------------------------	-------------	----------	-----------------------------	------------------------	-----------------------------	-------------------	-------------------	-------

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 Educational Campus, Wazirsa (E)
 Mumbai - 400 027



7.

Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Problem Solving on valuation of Goodwill and Shares	CO1		
2	Problem Solving on valuation of Goodwill and Shares	CO1		
3	Problem Solving of Buyback of Shares	CO2		
4	Problem on Redemption of Preference Shares	CO3		
5	Problem on Redemption of Debentures	CO4		

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	4	√	√		1	√	√		√	√
2	7	√	√		1	√	√		√	√
3	2 2	√	√		2	√	√		√	√
4	3 2	√	√		3	√	√		√	√
5	3 8	√	√		4	√	√		√	√

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)# Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT)Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1st Unit Test	4 th week	1, 2	CO1,CO2	MC Q	

2 nd Unit Test	22 nd week	3& 4	CO 3& 4		
Pop Quiz	All Months	1,2,3,4	CO1,CO2,CO3,C O4	Microsoft Form	
Open Book Test	December, February	2,4	CO2,CO4	Descriptive	
Take Home Test	March	4	CO4	Flip Classroom	
Class tests / prelims	December, March	1,4	CO1,CO4	MCQ	
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Valuation of Goodwill of a Company	Methods of calculation	CO1	
2	2	Valuation of Shares and Comparing with the market cap and analysing the performance of a company	Valuation	CO2	

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Study the terms of a Merger highlighting the Goodwill valuation (Capital first & IDFC)	Valuation of Good will	CO1	
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1					
2					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	Yes
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	Yes
11		Students Seminar	
12		Students Debates	Yes
13		Panel Discussion / Mock GD	
14		Mock Interview	

15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	Yes
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name
(Sign.) Khushboo
Kothari Julka



Version 21-22

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To acquire an in-depth knowledge and understanding of Environment Science, understanding political, legal, Social, cultural, Technological and Competitive environment.
Affective	What do you want students to think / care about?	To consider various aspects of the business operation and activity, understanding about international environmental science for the business.
Behavioural	What do you want students to be able to do?	To outline the current challenges in Environment science and possess skills to propose solutions and ways to overcome them.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Will gain a deep understanding of the theoretical and conceptual understanding of environment science and different form of business organization. Micro and Macro environment which affects the business and its operations.	Unit 1
CO2	Will be able to identify, analyse, and evaluate political and Legal environment and impact of business in private sectors, Legal framework in India.,.	Unit 2
CO3	Will be able to understand how Social, Cultural Environment, Technological environment, Competitive Environment affects the business.	Unit 3
CO4	Will be able to understand International Environment of the business organisations.	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												

CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
		75	--	--	3	-	-	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	SUM of IA1 and IA2					
		20	5	25	75	-	-	-	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
B	3	-	-	-	-	-	-	-	-

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
B	Thursday	11:00 am : 12.00am	Staffroom

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Business Environment	40*60 MIN/40=10	25%
2	Political and Legal Environment	40*60 MIN/40=10	25%
3	Social and Cultural Environment, Technological Environment and Competitive Environment.	40*60 MIN/40=10	25%
4	International Environment	40*60 MIN/40=10	25%
* Insert rows for more modules in the Course		Total	100
		40	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	1		

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1		B.Com, M.Com.
2		MBA

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Understand and apply the basic principal and understanding business environment and requirement to start business.
2	Applying the Political and legal understanding to start a business.
3	Understanding the environment of the business and scanning the environment and to find opportunities and threats.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – March 2021	March-2017	March- 2016	March 2015
Course Passing % – Average of 3 Divisions	100%			
Marks Obtained by Course Topper (mark/100)				

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result

March-2019	SGG	100				
March-2020	SGG	100				
March-2021	SGG	100				

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
International environment	1	Continuous reading and writing practice

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Environmental science	Rinkoo Shantanu	Himalaya		1 to 4
2	Environmental science	Parveen Nagpal	Palgrav		4
3		Francis Cherunilam	Himalaya Publishing House, New Delhi		1 to 4
4		Raj Aggarwal	Excel Books, Delhi		1 to 4
5	Essentials of Business Environment	K. Aswathappa	Himalaya Publishing House, New Delhi		1 to 4

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The International Business Environment,	Morrison J,	Palgrave		4
2	Concepts of Environmental Science	Sugandha Mishra and Dharendra Kumar	Himalaya Publishing House, New Delhi		1-4
3	Environmental Pollution & Control	<u>Prof. N.H. Gopal Dutt</u>	Himalaya Publishing House, New Delhi Delhi		1-4
4	International Marketing	RajGopal	Vikas Publishing House Pvt. Ltd.,	2007	4
5	International Marketing Analysis and Strategy,	Sak Onkvisit, John J.Shaw,	Pearson Publication,	3	4
6	International Marketing Text and Cases,	Justin Paul and Ramneek Kapoor	Tata Mcgraw Hill Education Private Limited New Delhi	2	1-4
7	Business Environment	Raj Aggarwal	Excel Books, Delhi	1 & 2	1-4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1					
2					
3					
4					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	http://www.inderscience.com/jhome.php?jcode=ijbe		4
2	http://www.businessdictionary.com/definition/business-environment.html		1-4
3	https://www.journals.elsevier.com/journal-of-environmental-management		1-2

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √					Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)	
	Book			Magazine	Journals		Y		N
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					✓		
2	✓	✓					✓		
3	✓	✓					✓		
4	✓	✓					✓		

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Soft Copy Notes	1-4
2	PPTs	1-4
3	Graded Questions	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	January 2022	April 2022	13

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site
1	1		Introduction to Environmental science		CO1		
	2		Environment meaning and Definitions		CO1		
	3		Abiotic Component and Biotic Component		CO1		
	4		Cultural Man made components		CO1		
2	5		Ecosystem meaning and definitions		CO1		
	6		Ecosystem structure and functions		CO1		Video

	7	Level of Ecology		CO1		
	8	Types and classification of Biodiversity		CO1		
3	9	Community diversity		CO1		
	10	Importance of biodiversity		CO1		
	11	Values of biodiversity		CO1		
	12	Factors responsible for reduction in biodiversity		CO1		
4	13	Conservation of biodiversity		CO1		
	14	Threats to Biodiversity		CO1		Video
	15	Solutions to the threats to Biodiversity		CO1		
	16	Revision		CO2		
5	17	Introduction to natural Resources		CO2		
	18	Classification of Resources		CO2		
	19	Water resources and water cycle		CO2		
	20	Importance of water resources		CO2		
6	21	Issues related to water resources		CO2		Case Study
	22	Measure to conserve water and Rain water harvesting		CO2		
	23	Forest resources and utilisation		CO2		
	24	Importance of forest		CO2		Video

7	25	Deforestation and causes		CO3	Case study
	26	Effects of Deforestation		CO3	
	27	Measure to conserve forest		CO3	
	28	Soil Resources and its importance		CO3	
8	29	Threats and measures to conserve soil		CO3	
	30	Source and measures to conserve energy		CO3	
	31	Causes of Exploitation		CO4	
	32	Introduction to Environment and economic activities		CO4	
9	33	Primary sector		CO4	
	34	Roles and perspective in EIA		CO4	
	35	Environment Audit and its features		CO4	
	36	Objective of Environment		CO4	
10	37	Environment Auditing process		CO4	
	38	Types of environmental Audit		CO4	
	39	Environmental Information system		CO4	
	40	Case Studies		CO4	

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	CLASS PARTICIPATION	Other (2) specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Environment : An Overview	1	Lecture no 4	After 4 Lectuers
2	Natural Resources	2	Lecture no18	After 4 Lectuers
3	Environment and Economic Activities	3	Lecture no30	After 4 Lectuers
4	Environment Management	4	Lecture no48	After 4 Lectuers

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1										
2										
3										
4										

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
 # Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					

9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	Dealing with environment problems associated with economic activities	Environment and Economic activities	CO3	4
2	2	Technology role in Managing Environment	Environment Management	CO4	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	
12		Students Debates	Yes

13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	As and when desired
16		Value Added Courses	
17		Lecture Capture Usage	
18		Class Activity	Lecture 40

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Santosh Gupta

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Version 21-22

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To acquire an in-depth knowledge and understanding of Environment Science, understanding political, legal, Social, cultural, Technological and Competitive environment.
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Behavioural	What do you want students to be able to do?	To outline the current challenges in Environment science and possess skills to propose solutions and ways to overcome them.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Will gain a deep understanding of the theoretical and conceptual understanding of environment science and different form of business organization. Micro and Macro environment which affects the business and its operations.	Unit 1
CO2	Will be able to identify, analyse, and evaluate political and Legal environment and impact of business in private sectors, Legal framework in India.,.	Unit 2
CO3	Will be able to understand how Social, Cultural Environment, Technological environment, Competitive Environment affects the business.	Unit 3
CO4	Will be able to understand International Environment of the business organisations.	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												

CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
		75	--	--	3	-	-	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	SUM of IA1 and IA2					
		20	5	25	75	-	-	-	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
B	3	-	-	-	-	-	-	-	-

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
B	Thursday	11:00 am : 12.00am	Staffroom

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Business Environment	40*60 MIN/40=10	25%
2	Political and Legal Environment	40*60 MIN/40=10	25%
3	Social and Cultural Environment, Technological Environment and Competitive Environment.	40*60 MIN/40=10	25%
4	International Environment	40*60 MIN/40=10	25%
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	1		

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1		B.Com, M.Com.
2		MBA

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Understand and apply the basic principal and understanding business environment and requirement to start business.
2	Applying the Political and legal understanding to start a business.
3	Understanding the environment of the business and scanning the environment and to find opportunities and threats.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – March 2021	March-2017	March- 2016	March 2015
Course Passing % – Average of 3 Divisions	100%			
Marks Obtained by Course Topper (mark/100)				

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result

March-2019	SGG	100			
March-2020	SGG	100			
March-2021	SGG	100			

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
International environment	1	Continuous reading and writing practice

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Environmental science	Rinkoo Shantanu	Himalaya		1 to 4
2	Environmental science	Parveen Nagpal	Palgrav		4
3		Francis Cherunilam	Himalaya Publishing House, New Delhi		1 to 4
4		Raj Aggarwal	Excel Books, Delhi		1 to 4
5	Essentials of Business Environment	K. Aswathappa	Himalaya Publishing House, New Delhi		1 to 4

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The International Business Environment,	Morrison J,	Palgrave		4
2	Concepts of Environmental Science	Sugandha Mishra and Dharendra Kumar	Himalaya Publishing House, New Delhi		1-4
3	Environmental Pollution & Control	<u>Prof. N.H. Gopal Dutt</u>	Himalaya Publishing House, New Delhi Delhi		1-4
4	International Marketing	RajGopal	Vikas Publishing House Pvt. Ltd.,	2007	4
5	International Marketing Analysis and Strategy,	Sak Onkvisit, John J.Shaw,	Pearson Publication,	3	4
6	International Marketing Text and Cases,	Justin Paul and Ramneek Kapoor	Tata Mcgraw Hill Education Private Limited New Delhi	2	1-4
7	Business Environment	Raj Aggarwal	Excel Books, Delhi	1 & 2	1-4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1					
2					
3					
4					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	http://www.inderscience.com/jhome.php?jcode=ijbe		4
2	http://www.businessdictionary.com/definition/business-environment.html		1-4
3	https://www.journals.elsevier.com/journal-of-environmental-management		1-2

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					✓		
2	✓	✓					✓		
3	✓	✓					✓		
4	✓	✓					✓		

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Soft Copy Notes	1-4
2	PPTs	1-4
3	Graded Questions	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	January 2022	April 2022	13

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site
1	1		Introduction to Environmental science		CO1		
	2		Environment meaning and Definitions		CO1		
	3		Abiotic Component and Biotic Component		CO1		
	4		Cultural Man made components		CO1		
2	5		Ecosystem meaning and definitions		CO1		
	6		Ecosystem structure and functions		CO1		Video

	7	Level of Ecology		CO1		
	8	Types and classification of Biodiversity		CO1		
3	9	Community diversity		CO1		
	10	Importance of biodiversity		CO1		
	11	Values of biodiversity		CO1		
	12	Factors responsible for reduction in biodiversity		CO1		
4	13	Conservation of biodiversity		CO1		
	14	Threats to Biodiversity		CO1		Video
	15	Solutions to the threats to Biodiversity		CO1		
	16	Revision		CO2		
5	17	Introduction to natural Resources		CO2		
	18	Classification of Resources		CO2		
	19	Water resources and water cycle		CO2		
	20	Importance of water resources		CO2		
6	21	Issues related to water resources		CO2		Case Study
	22	Measure to conserve water and Rain water harvesting		CO2		
	23	Forest resources and utilisation		CO2		
	24	Importance of forest		CO2		Video

7	25	Deforestation and causes		CO3	Case study
	26	Effects of Deforestation		CO3	
	27	Measure to conserve forest		CO3	
	28	Soil Resources and its importance		CO3	
8	29	Threats and measures to conserve soil		CO3	
	30	Source and measures to conserve energy		CO3	
	31	Causes of Exploitation		CO4	
	32	Introduction to Environment and economic activities		CO4	
9	33	Primary sector		CO4	
	34	Roles and perspective in EIA		CO4	
	35	Environment Audit and its features		CO4	
	36	Objective of Environment		CO4	
10	37	Environment Auditing process		CO4	
	38	Types of environmental Audit		CO4	
	39	Environmental Information system		CO4	
	40	Case Studies		CO4	

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	CLASS PARTICIPATION	Other (2) specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Environment : An Overview	1	Lecture no 4	After 4 Lecturers
2	Natural Resources	2	Lecture no18	After 4 Lecturers
3	Environment and Economic Activities	3	Lecture no30	After 4 Lecturers
4	Environment Management	4	Lecture no48	After 4 Lecturers

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1										
2										
3										
4										

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
 # Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					

9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	Dealing with environment problems associated with economic activities	Environment and Economic activities	CO3	4
2	2	Technology role in Managing Environment	Environment Management	CO4	4

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	
12		Students Debates	Yes

13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	As and when desired
16		Value Added Courses	
17		Lecture Capture Usage	
18		Class Activity	Lecture 40

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Santosh Gupta

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Students should know the basics of statistics, application and scope of statistics
Affective	What do you want students to think / care about?	Students should think/take care of merits, demerits and various formulae of various Statistical Tools
Behavioural	What do you want students to be able to do?	Students should be able to use Statistical Concepts in various fields like Research Methodology, Finance etc.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students should understand the concept of Population and Sample	Unit 1
CO2	Students should learn the concept of Measure of Central Tendency	Unit 2
CO3	Students should learn the concept of Measure of Dispersion	Unit 3
CO4	Students should understand the concept of Correlation and Regression (for ungrouped data)	Unit 4
CO5	Students should learn the concept of Linear Programming Problems	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	M	S	M									
CO 2	S	M	M									
CO 3	M	S	S									
CO 4	S	M	M									
CO 5	M	S	M									

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
UBFM203	Business Statistics	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
UBFM203	Business Statistics	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Monday	11:00 a.m. – 12:00 Noon	Library

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers

1	Population and Sample	8	20
2	Measure of Central Tendency	8	20
3	Measure of Dispersion	8	20
4	Correlation and Regression (for ungrouped data)	8	20
5	Linear Programming Problems	8	20
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	XI & XII	Commerce (Measure of Central Tendency)	ALL

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	I & II	MMS/MBA (Business Statistics & Research Methodology)
2	III	Portfolio Management (Sums) - BFM
3	VI	Risk Management (Sums) – BFM

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Students should apply the concepts in Research Methodology
2	Students should apply the concept in Risk Management in Finance
3	

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - March 2020	Mar 2019	Mar 2018	Mar 2017
Course Passing % – Average of 3 Divisions	100 %	91.5	89 %	85 %
Marks Obtained by Course Topper (mark/100)	100	93	90	88

Division A	Division B	Division C	Division F
------------	------------	------------	------------

Year	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Mar 2019	AAK	91 %						
Mar 2018	SSK3	89 %						
Mar 2017	SSK3	85 %						

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Linear Programming	5	Suggesting Students to refer to basics of Linear Programming from XI & XII Book

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Statistical Methods	Gupta, S.P., and Archana Gupta	Sultan Chand and Sons	3	1-5
2	Fundamentals of Statistics	Gupta	S.C Himalaya Publishing House.	3	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Statistics for Management	Levin, Richard and David S. Rubin	Prentice Hall of India	4	1-5
2	Practical Business Statistics	Siegel	Andrew F International Edition	4	1-5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Basic Business Statistics	Srinivas R Rao		3	1-5
2	Introductory Business Statistics	Thomas K Tiemann	The Global Text Project	4	1-5
3	A Guide to Business Statistics	David M McEvoy	Wiley	3	1-5
4					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.

1	Journal of Business and Economic Statistic (Taylor & Francis)	Journal on Government Statistics	All
2	International Journal of Business Statistics & Finance (Serial Publication)	Data Science Magazine	All

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓	✓	✓	✓	✓			
2	✓	✓	✓	✓	✓	✓			
3	✓	✓	✓	✓	✓	✓			
4	✓	✓	✓	✓	✓	✓			
5	✓	✓	✓	✓	✓	✓			

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	www.youtube.com	1-5
2	www.edx.com	1-5
3	www.ddegjust.ac.in	1-5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Business Statistics & Analysis Application	Coursera		Y
2	Statistics for Business I	Edx		Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Perfect your Mathematical skills	WWW.udemy.com	28 hrs	N

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	√	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	31/01/2022	10/04/2022	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	Cos	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction to Syllabus and its application in day to day life. Concept of Statistics & Scope of Statistics in Management & Financial Markets		1		
	2	1	Concept of Population and Sample with illustration		1		
	3	1	Methods of sampling- SRSWR, SRSWOR, Methods of sampling- Stratified, Systematic		1		
2	4	1	Concept of Frequency Distribution and Cumulative Frequency Distribution		1		
	5	1	Concept of Histogram, Frequency Polygon, Multiple Bar Graph and sums related to it		1		
	6	1	Concept of Pie Chart & Sub Divided Bar Graph and sums related to it		1		
3	7	1	Concept of Sub Divided Bar Graph and Sums related to it		1		
	8	1	Revision of Unit 1		1		
	9	2	Concept of Central Tendency & Criteria for good measures of central tendency. Concept of Arithmetic Mean & Combined Mean		2		

4	10	2	Calculation of Arithmetic Mean for Ungrouped Data		2		
	11	2	Calculation of Arithmetic Mean for Grouped Data		2		
	12	2	Concept of Median. Calculation of Median for Ungrouped & Grouped Data		2		
	13	2	Calculation of Median for Grouped Data		2		
5	14	2	Concept of Mode. Calculation of Mode for Raw Data		2		
	15	2	Calculation of Mode for Ungrouped and Grouped Data		2		
	16	2	Revision of Unit 2		2		
6	17	3	Concept of Dispersion. Concept of Absolute Measure of Dispersion		3		
	18	3	Concept of Relative Measure of Dispersion. Concept of Range and sums related to it		3		
	19	3	Concept of Variance and sums related to it		3		
7	20	3	Concept of Standard Deviation and Sums related to it		3		
	21	3	Concept of Coefficient of Variation & Quartile Deviation and sums related to it		3		
	22	3	Concept of Decile & Percentile and sums related to it		3		
8	23	3	Concept of Coefficient of Quartile Deviation and sums related to it		3		
	24	3	Revision of Unit 3		3		
	25	4	Concept of Correlation, Positive and Negative Correlation. Concept of Karl Pearson's Coefficient of Correlation		4		
9	26	4	Sums related to Karl Pearson's Coefficient of Correlation		4		
	27	4	Sums related to Karl Pearson's Coefficient of Correlation		4		

10	28	4	Concept of Regression. Properties of Regression and sums related to it		4		
----	----	---	------------------------------------------------------------------------	--	---	--	--



	29	4	Concept of Regression of 'Y on X' and sums related to it		4		
	30	4	Concept of Regression of 'X on Y' and sums related to it		4		
11	31	4	Concept of Regression coefficients and sums related to it		4		
	32	4	Revision of Unit 4		4		
	33	5	Introduction to Concept of LPP. Concept of formulation of LPP		5		
12	34	5	Sums on formulation of LPP		5		
	35	5	Sums on formulation of LPP		5		
	36	5	Concept of Solution by Graphical Methods		5		
13	37	5	Sums on solution by graphical method		5		
	38	5	Sums on solution by graphical method		5		
	39	4	Problems relating to two variables		5		
14	40	4	Revision of Unit V		5		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
5								5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment on "Population & Sample"	1		
2	Assignment on "Measure of Central Tendency"	2		
3	Assignment on "Measure of Dispersion"	3		
4	Assignment on "Correlation & Regression"	4		
5	Assignment on "Linear Programming Problems"	5		

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1		√	√		1	√	√		√	
2		√	√		2	√	√		√	
3		√	√		3	√	√		√	
4		√	√		4	√	√		√	
5		√	√		5	√	√		√	

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	2 nd Week of Feb			Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *



Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

*** 9.a**

*** Practical Activities – Regular Experiments**

*

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

*** 9.b**

*** Practical Activities – Newly Added Experiments**

*

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c

Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	2	Measure of Central Tendency	Application of Mean, Median & Mode	2	
2	4	Correlation & Regression	Types of Correlation	4	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Class Test on Correlation
4		Mini Projects	
5		Pop Quiz	MCQ's
6		Mobile App Based Quiz	
7		Open Book Test	
8		Take Home Test	Topic: Regression
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	Topic: Formula Book
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Amit Kabra

Faculty 1 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Watch former lectures captured in LMS at VSIT
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To understand Computer Fundamentals.
Affective	What do you want students to think / care about?	To think on uses of Internet and related technologies.
Behavioural	What do you want students to be able to do?	To apply the skills of Office productivity tools such as Word and Excel.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand Computer Fundamentals	Unit 1
CO2	To understand History of Windows OS	Unit 2
CO3	To think on uses of Internet and related technologies	Unit 3
CO4	To make students comfortable with Microsoft Word	Unit 4
CO5	To make students comfortable with Microsoft Excel	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				

CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category					✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
	Computer Skills – I	75	25	--	3	-	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
	Computer Skills – I	-	5	5	75	--	10	5	75

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Monday	2:00 PM-3:00 PM	Main Staff Room

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Computer Fundamentals	8	20
2	Windows	4	20
3	Internet	8	20
4	Microsoft Word	10	20

5	Microsoft Excel	10	20
* Insert rows for more modules in the Course		Total	40

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12th Std	IT	-

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	3	Computer Skills-II

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Usage of Internet in day-to-day life
2	Use of Window shortcuts
3	Use of Word document for preparing Resumes, Use of Excel for Data storage, Use of PowerPoint for presentations

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Mar 2021	Mar 2020	Mar 2019	Mar 2018
Course Passing % – Average of 3 Divisions	100%			
Marks Obtained by Course Topper (Mark/100)				

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Mar 2020	LRJ		NA	NA	NA	NA
Mar 2019			NA	NA	NA	NA
Mar 2018			NA	NA	NA	NA

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Types of OS	2	Extra E-learning content to be provided
Microsoft Excel – Advanced Functions	5	More Practical to be given to students during lab session

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students



Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1					

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Computer today (3rd edition)	Sanders, Donald H	McGraw Hill	3rd	1
2	Computer in Business	Sanders D	McGraw Hill	-	1
3	Computers	Subramaniam N	Wheeler	-	1

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Computer Fundamentals Information Technology	Pradeep K Sinha			1
2	Excel 2010	Stephen Moffat			2
3	Microsoft Office Professional 2013-Step by step	Beth Melton, Mark Dodge, Echo Swinford, Andrew Couch, Eric Legault, Ben Schorr and Ciprian Rusen	Microsoft	-	2

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Computer Fundamental https://www.tutorialspoint.com/computer_fundamentals/	Top 10 Most Secure Internet Browsers https://cybersecuritymag.com/secure-internet-browsers/	1-5

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓								
2	✓								
3	✓								
4	✓								

5									
---	--	--	--	--	--	--	--	--	--

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in)	1-5
2	Microsoft Teams	1-5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Word Office 2016 Ultimate Basics for Beginners https://www.udemy.com/course/gearup-word-office-course-from-a-noobie-to-a-crackerjack/	Udemy	1 Hr	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓		✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration			

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	Co s	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site

1	1	1	Introduction to Subject and Discussion of TLP		1			
	2	1	Personal Computers- Identification/Demonstration of different storage Devices like CD and CD drive		1			
	3	1	Hard disk- HDD, Storing and Retrieving data from various Storage Devices		1			
	4	1	Identification of various Input and Output Devices		1			
2	5	1	Primary Memory, RAM and ROM		1			
	6	1	Processor- CPU, it's speed- machine cycle, ports, computer buses		1			
	7	1	Different types of Printers.		1			
	8	1	Introduction to trouble shooting of personal computers		1			
3	9	2	Windows- Introduction, Features, various versions of Windows		2			
	10	2	My computer, my documents, recycle bin, network neighbourhood, start menu		2			
	11	2	Taskbar, File and Folder operation (creating, copying, moving, deleting)		2			
	12	2	Internet- What is internet, most popular internet services		2			
	13	3	Fundamentals of Internet		3			
	14	3	Functions of internet like email, WWW, FTP		3			
	15	3	UseNet, Instant messaging		3			
	16	3	Internet Telephony, using Address Book		3			
5	17	3	Working with task list		3			
	18	3	Scheduling appointments		3			

	19	3	Reminders, events		3			
	20	3	Browsers and its different types		3			
6	21	4	Microsoft Word- The Word window		4			
	22	4	New documents, Document navigation, Editing text, Working with text, Undo and Redo commands		4			
	23	4	Cut, copy, and paste, Find and replace Text formatting, Character formatting, Tab settings		4			
	24	4	Paragraph formatting, Paragraph spacing and indents Tables		4			
7	25	4	Creating tables, Working with table content, Changing the table structure Page layout		4			
	26	4	Headers and footers, Page setup Graphics		4			
	27	4	Adding graphics and clip art, Working with graphics Proofing		4			
	28	4	printing, and exporting,		4			
8	29	4	Spelling and grammar, AutoCorrect		4			
	30	4	Printing and exporting documents		4			
	31	5	Microsoft Excel- Fundamentals of Excel		5			
	32	5	Cut, Copy, Insert, Delete, Paste Special		5			
9	33	5	Custom Formatting , Undo, Redo		5			
	34	5	Excel Formulas – Basic		5			
	35	5	Excel Formulas – Basic		5			
	36	5	Useful functions and Paste Function, Calc, Comments, Drawing toolbar		5			

10	37	5	Edit, Replace, Delete, Clear, Essential Printing		5			
	38	5	Data Sorting, Hiding, AutoFormats, Protection		5			
	39	5	Basic Charts		5			
	40	5	Basic Formatting If Function		5			

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
05			10	05		05		25

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Computer Fundamentals	1	Week 2	Week 3
2	Windows	2	Week 3	Week 4
3	Internet	3	Week 5	Week 6
4	Microsoft Word	4	Week 8	Week 9
5	Microsoft Excel	5	Week 10	Week 10

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2	√	√		1				√	√

2	3	√	√	√	2				√	√
3	5	√	√		3				√	√
4	8	√	√		4				√	√
5	10	√	√		5				√	√

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test					
2nd IA Test				-	-
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Creating and Editing of a Word Document			
2		Formatting of a Word Document			
3		Inserting Table in word document			
4		Adding Graphics to the Word Document			

5		Custom Formatting in Excel			
6		Basic Excel Formulas			
7		Data Sorting			
8		Basic Charts			
9		Aggregate Functions			
10		If and nested If functions			

9.b

Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	IV	Student Result Generation			

9.c

Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	IV	Sorting and Filtering Employee data			

10.

Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	Yes
5		Pop Quiz	Yes
6		Mobile App Based Quiz	Yes
7		Open Book Test	
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	

11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Teaching Methodology: -

- 1) Gamification
- 2) Flip Classroom

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

Principal -
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INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Wadgaon (E)
Mumbai - 400 027

TEACHING LEARNING PLAN
M.Com Sem IV – Advance Accounting

Subject : Financial Management

Lecture no	Dates	Topics
1	21/1/2022	Unit III: Management of Working Capital Meanings, Concepts and policies of working capital, Management of working capital, Issues in working capital, Estimating working capital needs (only Theory) Operating or working capital cycle (only Theory)
2	28/1/2022	Inventory Management: Objectives and Techniques.
3	2/2/2022	Practical sums on IM
4	4/2/2022	Practical sums on IM
5	9/2/2022	Receivable Management: Objectives, Credit Policies, Credit Terms and Collection Policies.
6	11/2/2022	Practical sums on RM
7	16/2/2022	Practical Sums on RM
8	18/2/2022	Management of Cash and Marketable Securities: Motives for Holding Cash; Objectives of Cash Management; Factors Determining Cash Needs; Basic Strategies of Cash Management;
9	23/2/2022	Cash Management Techniques / Processes; Marketable Securities; and Cash Management Practices in India.
10	25/2/2022	Unit IV – Financial planning Introduction - Meaning of Budget, Essentials & Advantages of Budgeting, Types of Budgets – Sales budget, Production budget
11	2/3/2022	Sums on sales budget
12	4/3/2022	Sums on Production budget
13	9/3/2022	Types of Budgets –Material budget, Zero based and Master budget. Practical sums
14	11/3/2022	Sums on material budget, Master budget
15	16/3/2022	Types of Budgets – Cash budget, practical sums on Cash budget
16	18/3/2022	Sums on Cash budget
17	23/3/2022	Unit II - Investment Decisions: Capital Budgeting Introduction - Nature of Capital Budgeting, Purpose of Capital Budgeting Process, Types of Capital Investment, Decisions Project Cash Flows and Net profit Approval, Probability technique for measurement of cash flows

- 18 25/3/2022 Capital Budgeting Techniques, Net Return Value
- 19 30/3/2021 Sums on NPV
- 20 1/4/2022 Internal Rate of Return, Profitability Index Methods
- 21 6/4/2022 SUMS on IRR and PI
- 22 8/4/2022 Project Selection Under Capital Rationing - Problems on computation of cash flow, ranking of projects on various techniques
- 23 13/4/2022 Project Selection Under Capital Rationing - Problems on computation of cash flow, ranking of projects on various techniques
- 24 15/4/2022 Problems on selection and analysis with / without capital rationing.
- 25 20/4/2022 Comparison of IRR with Required rate of return i.e. cut off rate, IRR and mutually exclusive projects with unequal lives, multiple IRR)
- 26 22/4/2022 Sums on IRR
- 27 27/4/2022 **Unit V - Financial Policy and Corporate Strategy**
Meaning of strategic financial management and Strategic financial decision making framework, Functions of Strategic Financial Management and Financial Planning
- 28 29/4/2022 **Unit I – Types of Financing**
Introduction - Needs of Finance and Sources: Long Term, Medium Term, short term. Long Term Sources of Finance (Owners Capital / Equity Capital, Preference share capital, Retained Earnings, Debentures or Bonds, Loans from Financial Institutions / Banks)
- 29 4/5/2022 Short Term Sources of Finance - Trade Credit, Accrued Expenses and Deferred Income, Advances from Customers, Commercial Paper,
- 30 6/5/2022 Bank Advances: Loans, O/D, Clean O/Ds, Cash Credit, Advances against goods, Bills Purchased, Discounted, Advances against documents of title of goods, Advances against supply of bills.

References: Ravi Kishore – Financial management

VIDYALANKAR SCHOOL OF INFORMATION TECHNOLOGY
TEACHING LEARNING PLAN

M.Com Semester II

SUBJECT: Research Methodology for Business


No	Day and Date	Teacher in case of sharing	Topics to be covered	Reference
1	Monday, 7/02/22		Introduction to Research: Features and Importance of research in business , Objectives Types of research Basic Applied Types of research Descriptive Analytical and Empirical Formulation of research problem	Kothari CR, Research Methodology- Methods and Techniques, New Wiley Ltd., 2009
2	Monday ,14/02/22		Research Design, Significance of Review of Literature	• Methodology of Research in Social Sciences, by O.R. Krishnaswami, Himalaya Publishing House
3	Monday, 21/02/22		Hypothesis : Formulation , Sources , Importance and types Sampling : Significance	Kothari CR, Research Methodology- Methods and Techniques, New Wiley Ltd., 2009
4	Monday ,28/02/22		Method of Sampling factor determining sample size	Kothari CR, Research Methodology- Methods and Techniques, New Wiley Ltd., 2009
5	Monday, 7/03/22		2: Research Process : Stages in Research Process	Kothari CR, Research Methodology- Methods and Techniques, New Wiley Ltd., 2009
6	Monday,14/03/22		Data collection : Primary data: observation experimentation interview schedules Survey Limitations of Primary Data	Kothari CR, Research Methodology- Methods and

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				Techniques, New Wiley Ltd., 2009
7	Monday,21/03/22		Secondary Data : Sources and Limitations, Factors affecting the choice of method of data collection	Research and Methodology in Accounting and Financial Management, J.K Courtis
8	Monday,28/03/22		Questionnaire : Types , steps in Questionnaire Designing Essential of good questionnaire	Research and Methodology in Accounting and Financial Management, J.K Courtis
9	Monday 4/4/22		Data Processing and Statistical Analysis: Processing Editing , coding , Classification , Tabulation, Graphic Presentation	Research and Methodology in Accounting and Financial Management, J.K Courtis
10	Monday11/04/22		Statistical analysis : Tools and Techniques, Measures of central tendency, Measures of Dispersion,	Business Statistics by Dr S. K Khandelwal, International Book House Pvt Ltd
11	Monday 18/4/22		Correlation and Regression Analysis Testing of hypothesis Parametric tes t test, f test, z test	Research and Methodology in Accounting and Financial Management, J.K Courtis
12	Monday 25/04/22		Non parametric test: chi square test, Annova, factor analysis	Research and Methodology in Accounting and Financial Management, J.K Courtis
13	Monday 2/05/22		Interpretation of Data: Significance and Precautions in data Interpretation 4. Research reporting and Modern practices in Research : Research report writing importance, essentials, structure	Kothari CR, Research Methodology-Methods and Techniques, New Wiley Ltd., 2009
14	Monday 9/05/22		Types of report References and citation method APA, CMS, MLA	Kothari CR, Research Methodology-Methods and

				Techniques, New Wiley Ltd., 2009
15	Monday 16/05/22		Foot notes and Bibliography Modern practices : Ethics Norms in research , plagiarism, Role of computers in research	Kothari CR, Research Methodology- Methods and Techniques, New Wiley Ltd., 2009


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TEACHING LEARNING PLAN
M.Com – Semester I AY 2021-22

Sub: STRATEGIC MANAGEMENT

Dates	No.of lectures	Topic to be covered
	Unit 1	Introduction to Strategic Management
27/9/2021	1	Concept of SM, SM process, Vision and Mission and Goals, Benefits or Risk of SM
3/10/2021	2	Level of Strategies, Functional strategies,
10/10/2021	3	Business environment
	Unit 2	Strategic Formulation, Implementation and Evaluation
17/10/2021	4	Strategic formulation – Stages and importance, Formulation of alternative strategies, Business restructuring
24/10/2021	5	Strategic Analysis and choice- issues and structures, corporate portfolio analysis- SWOT, BCG matrix, GE Nine cell matrix, Hofer's matrix
31/10/2021	6	Environmental threat and opportunity profile, Strategic choice, SM implementation
7/11/2021	7	Resource allocation – importance & challenges, strategic evaluation and control, Budgetary control
	Unit 3	Business, Corporate and Global Strategies
14/11/2021	8	Corporate restructuring strategies, Corporate renewal strategies
21/11/2021	9	Strategic Alliance, Public private participation
28/11/2021	10	Information Technology driven strategies
	Unit 4	Emerging Strategic Trends
5/12/2021	11	Business Process outsourcing, Knowledge process outsourcing
12/12/2021	12	Re-engineering business process- business, operational and process
19/12/2021	13	Disaster Mgmt – concept, problem, consequences, preventing disaster
26/12/2021	14	Start-up Business strategies-, make in India model
2/1/2022	15	Revision

Reference books –

1. Strategic Management by David Fred
2. Strategic Management by Carpenter & others

D. Kelke
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TEACHING LEARNING PLAN
M.Com – Semester I AY 2021-22
 Subject: Economics for Business Decision
 Subject Teacher: Dr. Swagatika Nanda

No. OF LECTURE	DATE	TOPICS TO BE COVERED
	UNIT 1	BASIC PRINCIPLES IN ECONOMICS
1	23/09/2021	Basic Principles in Economics- Twin Principle and other concepts
2	30/09/2021	Invisible hand, Opportunity Cost
3	07/10/2021	Role of Government – Market Failure
	UNIT 2	DEMAND AND SUPPLY ANALYSIS.
4	14/10/2021	Applications of elasticity of demand and supply to economic issues. Paradox of bumper harvest.
5	21/10/2021	Tax on price and quantity. Minimum floor and maximum ceilings. Minimum wages controversy and administered price control
6	28/10/2021	Consumer preference and budget constraint Effect of changes in price and income on consumer equilibrium
	UNIT 3	PRODUCTION DECISIONS AND COST ANALYSIS
7	04/11/2021	Production function - short run and long run. Law of variable proportion.
8	11/11/2021	Returns to Scale , Scale and Scope Economies Least cost factor combination for a given output Cost reduction through experience - learning curve
9	18/11/2021	Economic analysis of Cost: Classification of costs. Short run and long run cost functions
10	25/11/2021	Perfect competition and Monopoly as limiting cases of market imperfections
11	02/12/2021	Profit maximization of simple and discriminating monopolist
	UNIT 4	MARKET STRUCTURE ANALYSIS
12	09/12/2021	Monopolistic competition and Oligopoly
13	16/12/2021	Collusive and non collusive oligopoly
14	23/12/2021	Basic concepts of game theory Using Game theory to analyze strategic decisions
15	30/12/2021	Application of model of prisoner's dilemma in market decisions Revision

References

1. Salvatore, D.: Managerial Economics in a global economy (Thomson South Western Singapore, 2001).
2. Frank Robert H Bernanke. Ben S., Principles of Economics (Tata McGraw Hill (ed.3)

3. Gupta, G.S.: Managerial Economics (Tata McGraw Hill, N. Delhi, 1997)


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TEACHING LEARNING PLAN
M.Com – Sem III

Sub: Advanced Cost Accounting

Dates	No. of lecture	Topic to be covered
	Unit 2	Cost Allocation
1/9/2021	1	Cost Allocation – meaning, cost center, cost unit, direct and indirect costs, Classification of overheads, allocation of OHS
3/9/2021	2	Absorption costing, Apportionment of OHS- primary and secondary and Practical sums based on primary and secondary
8/9/2021	3	Practical sums based on primary and secondary
10/9/2021	4	Practical sums based on primary and secondary
	Unit 3	Activity based Cost Systems
15/9/2021	5	Traditional costing Vs. ABC systems, cost drivers, cost pools and Total product cost, Evaluation
17/9/2021	6	ABC – Practical sums
22/9/2021	7	ABC – Practical sums
24/9/2021	8	ABC – Practical sums
	Unit 4	Responsibility Accounting
29/9/2021	9	Decentralization, division of work, responsibility centers. ROI approach
1/10/2021	10	Residual income approach- sums on ROI and RI
6/10/2021	11	Residual income approach- sums on ROI and RI
8/10/2021	12	preparation of managerial report, Segmented cost approach, Sums on segmented cost approach
13/10/2021	13	preparation of managerial report, Segmented cost approach, Sums on segmented cost approach
15/10/2021	14	preparation of managerial report, Segmented cost approach, Sums on segmented cost approach
	Unit 5	Strategic Cost management

20/10/2021	15	Transfer pricing, target costing, Inflation accounting
22/10/2021	16	Practical sums on transfer pricing
27/10/2021	17	Practical sums on Target costing
29/10/2021	18	Practical sums on Stock valuation
3/11/2021	19	Revaluation of FA and Stocks at LIFO, Current Purchasing power accounting
5/11/2021	20	Practical sums on CCP
10/11/2021	21	Current cost accounting, application of inflation accounting in Indian Economy
12/11/2021	22	Practical sums on Inflation Accounting
	Unit 1	Process costing
17/11/2021	23	Process costing – introduction, simple process with normal loss, abnormal loss, abnormal gain, Inter process transfers at profit
19/11/2021	24	Inter process transfers at profit, Introduction of Equivalent units
24/11/2021	25	Valuation of WIP as per Weighted average method-Practical Sums
26/11/2021	26	Valuation of WIP as per FIFO method-Practical Sums
1/12/2021	27	Valuation of WIP as per FIFO and Weighted average method-Practical Sums
3/12/2021	28	Valuation of WIP as per FIFO and Weighted average method-Practical Sums
8/12/2021	29	Revision of Units 1,2 and 3
10/12/2021	30	Revision of Units 4 and 5

References: Ravi Kishore – Cost Accounting

Tulsian's Cost Accounting

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Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Gain knowledge about Provision of Contract Act, Sales of Goods Act, Consumer protection Act, Negotiable Instrument Act, Indian Companies Act, intellectual Property rights.
Affective	What do you want students to think / care about?	Understand the Provision of Contract Act, Sales of Goods Act, Consumer protection Act, Negotiable Instrument Act, Indian Companies Act, intellectual Property rights.
Behavioural	What do you want students to be able to do?	Implementation of provisions in current life.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students can be able to understand the provisions of Contract Act, Sales of Goods Act	Unit 1
CO2	Students can be able to implement the provisions of Consumers Protection Act, Negotiable Instrument Act.	Unit 2
CO3	Students can be able to write the provision under Companies Act 2013	Unit 3
CO4	Students can be able to understand the concept of copyrights, patents and trademarks under Intellectual property right.	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	M	S									
CO 2	M	S	S									
CO 3	S	S	S									

CO 4	S	M	M								
CO 5											

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1	S	S	S	
CO 2	M	S	M	
CO 3	S	M	S	
CO 4	S	S	M	
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
	Business Law	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
	Business Law	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3.33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
C	3.33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Saturday	2.00 pm to 3.00 pm	Online
C	Saturday	2.00 pm to 3.00 pm	Online

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Contract Act, Sales of Goods Act	10 hr	25
2	Consumers Protection Act, Negotiable Instrument Act.	10 hr	25
3	Companies Act 2013	10 hr	25
4	Intellectual property right (copyrights, patents and trademarks).	10 hr	25
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12 th	OCM	Consumer Protection Act, Bill of Exchange, Joint stock Company
2			

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	II	MBA, MMS
2		LLB

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	To understand the current issues & its legality issues
2	To understand about provisions which will help them at the time of internship/projects/job

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – Oct 2021	Oct 2020	Oct 2019	Oct 2018
Course Passing % – Average of 3 Divisions	100%	99.51%	97.07%	92.93%
Marks Obtained by Course Topper (mark/100)	100	97	95	91

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Oct 2020	J Gunasundari	100%	Chitra M	99.51%	Harish N	100%
Oct 2019	Harish N	98.21%	Sagar G	98.18%	Harish N	94.55%
Oct 2018	Chitra M	96.67%	Ashwini Joshi	85.00%	Chitra M	94.92%
Oct 2017	CM/AJ	100%	CM/AJ	96.61%	CM/AJ	79.31%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Definition, sections & Concept	All Module	Very difficult to remember, more case studies are required

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Law	K.R. Bulchandani -	Himalaya Publishing House	-	1-4
2	Elements of Mercantile Law	Kapur N.D.	Sultan Chand	-	1-4
3	Companies Act 2013	T P Ghosh	Taxmann	-	1-4

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Law	S.S. Gulshan	Excel Books, Delhi	-	1 - 4
2	Business Law	P.K. Goel	Biztantra	-	1 - 4
3	Intellectual Property Rights in India	Dr V K Ahuja	Wadhwa Book Company	-	1- 4
6					

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Business Law	Robert W. Emerson	Barrons Educational Series		All Module

2					
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4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
	Legal service	www.legal service India.com	
	Business Law	www.erlaws.com	
		www.vakil.com/bareact.htm	

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	Y	Y			Y		Y		
2	Y	Y			Y		Y		
3	Y	Y			Y		Y		
4	Y	Y			Y		Y		

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (live.vsit.edu.in)	1-4
2	Online Notes and PPTs	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://alison.com/courses/introduction-to-contracts-in-law-revised/content	Alison	1.5 to 3 hrs	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
√	√	√	√	√	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	/08/2021	/11/2021	14

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Syllabus, Meaning, Definition and Essentials of Agreement and Contract		1		
	2	1	Types of Contract, Distinguish Between Contract and Agreement		1		
	3	1	Meaning & Essentials of Offer & Acceptance	Video	1		
2	4	1	Meaning & Essentials of Consideration & Capacity to Contract.		1		
	5	1	Meaning & Essentials of Free Consent, Lawful Object Consideration-Void Agreement	Case studies on C & A	1		
	6	1	Meaning of Sale and agreement to sale, Essentials of a Valid Sale Contract		1		
3	7	1	Meaning of Conditions and Warranties, Treating condition as a Warranty		1		

	8	1	Meaning & Rights of an Unpaid seller		1		
	9	1	Delivery of Goods, Distribution of Goods		1		
4	10	1	Rights & Duties of Seller & Buyer	Assignment 1	1		
	11	2	Meaning & Characteristics of Negotiable Instruments		2		
	12	2	Meaning & features of Bill of Exchange, Meaning & features of Promissory Note		2		
5	13	2	Meaning & features of Cheque		2		
	14	2	Distinguish between Bill of Exchange, Promissory Note & Cheque		2		
	15	2	Types and Dishonour of cheque	Case studies on B E	2		
6	16	2	Introduction of Consumer, Unfair Trade Practice		2		
	17	2	Meaning of Words "Defects and Deficiencies of Goods and Services"		2		
	18	2	Object of Consumer protection		2		
7	19	2	Consumer Protection Councils	Video	2		
	20	2	Consumer Disputes and Redressal Agencies	Assignment 2	2		
	21	3	Meaning & Features of Company, Types of Company		3		
8	22	3	Procedure for Incorporation of Company		3		
	23	3	Meaning & Content of Memorandum of association		3		
	24	3	Meaning & content of Article of Association	CAT	3		

9	25	3	Distinguish between Memorandum of association and Article of Association		3		
	26	3	Meaning and content of prospectus		3		
	27	3	Types of Meeting	Video	3		
10	28	3	Meaning & Appointment of Director		3		
	29	3	Powers, Rights, duties, Liabilities of Directors		3		
	30	3	Meaning of transfer & transmission of shares	Assignment 3	3		
11	31	4	Definition of Patent		4		
	32	4	Patentable and Not Patentable		4		
	33	4	Definition of Trademarks		4		
12	34	4	Types of Trademarks		4		
	35	4	Infringement and Passing off	Flyer, Scrap book, poster making	4		
	36	4	Definition of Copyright		4		
13	37	4	Subject in which Copyright exists		4		
	38	4	Originality, Meaning and content	Video	4		
	39	4	Authors and Owners, Rights and Restrictions		4		
14	40	4	Meaning of Geographical Indication	Assignment 4	4		

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
							4 Assignment	

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Contract Act, Sales of Goods Act	CO2	rd 3 Week	th 4 Week
2	Consumers Protection Act, Negotiable Instrument Act.	CO2	th 5 Week	th 6 Week
3	Companies Act 2013	CO3	th 7 Week	th 8 Week
4	Intellectual property right (copyrights, patents and trademarks).	CO4	th 9 Week	th 10 Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓			
2	6	✓			2		✓			
3	9	✓			3		✓			
4	11	✓			4		✓			

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	August 2021	1 to 2	1 & 2	Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz	September 2021	1,2,3	CO1, CO2, CO3		
Open Book Test					
Take Home Test					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2	Group Discussion on Negotiation & Endorsement	Negotiation	CO2	
2					

9.b

Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	4	Critical thinking on requirement of patent, trademark, copyright	Intellectual property right	CO4	
2					

9.c

Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	2	Case studies on Consumer protection Act	Redressal Agencies	CO2	

2	3	Case studies on Company Act	Ultra Vires	CO3	
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10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	
5		Pop Quiz	Yes
6		Mobile App Based Quiz	
7		Open Book Test	Yes
8		Take Home Test	
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	
11		Students Seminar	
12		Students Debates	
13		Panel Discussion / Mock GD	
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	
17		Lecture Capture Usage	

* Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.

Teaching pedagogy

Fieldwork - Accounting Internships - Students get academic credit and real-world experience working in industry, government or public accounting

Group Learning – Teamwork - Students work together in teams, collaborating to complete a problem or project

Debates - Students work together in teams, collaborating to complete a problem or project

Problem-Based Learning – Cases - Students use knowledge, concepts, and skills relevant to a course to solve realistic business problems.

Role play



Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

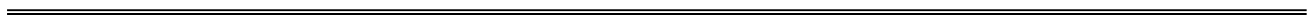
Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



J. Gunas...



The academic resources available in VSIT –

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Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To gain knowledge about various social, economic, and political issues that affect citizens in India.
Affective	What do you want students to think / care about?	To develop an empathetic understanding towards social causes and a heightened awareness and sensitivity towards human emotions, choices, and perceptions.
Behavioural	What do you want students to be able to do?	To develop themselves to be better-informed about their duties and responsibilities as members of the human society.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference.	Unit 1
CO2	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities.	Unit 2
CO3	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences.	Unit 3
CO4	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution.	Unit 4

CO5	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics.	Unit 5
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1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category			✓		✓		

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BAMMFC-101	Foundation Course - I	75			2			2

Subject Code	Subject Name	Examination Scheme							Total
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	
		IA 1	IA 2	Sum of IA1 and IA2					
BAMMFC-101	Foundation Course - I	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)						
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4			

A	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
---	---	------	------	------	------	------	------	------	------

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	TBA	TBA	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Overview of Indian Society	05	20%
2	Concept of Disparity 1	10	20%
3	Concept of Disparity 2	10	20%
4	The Indian Constitution	10	20%
5	Significant Aspects of Political Processes	10	20%
* Insert rows for more modules in the Course		Total	45
			100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1		None	

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	2	BMS, FC-II, Semester II
2	1	BMS, FHS

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Political process
2	Awareness of disparity

3	Inculcating an attitude of inclusivity
---	----------------------------------------

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Mar 2021	Mar 2020	Mar 2019
Course Passing % – Average of 3 Divisions	100	100	
Marks Obtained by Course Topper (mark/100)			

Year	Division A		Division B		Division C		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
2020	NA	NA	NA	NA	NA	NA	LP	100%

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
The Indian Constitution	4	Continuous class assessment

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	<i>Social and Economic Problems in India</i>	Naseem Azad	R Gupta	2011	1, 2 and 3
2	<i>Indian Society and Culture</i>	Vinita Padey	Rawat	2016	1
3	<i>The Constitution of India</i>	P M Bakshi		2011	4
4	<i>Politics in India: structure, Process and Policy</i>	Subrata Mitra	Routledge	-	5
5	<i>Politics in India</i>	Rajani Kothari	Orient Blackswan	-	5
6	<i>Urbanisation in India: Challenges, Opportunities & the way forward</i>	J Ahluwalia, Ravi Kanbur, P K Mohanty	SAGE	2014	3

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	<i>Foundation Course – I</i>	P.G. Shinde, Mahesh Bhagwat et al	Sheth	2019	All

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
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1.				
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4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Module Nos.
1	Economic and Political Weekly https://www.epw.in/tags/globalisation	3

4.e

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓						✓	Foundation Course I by P.G.Shinde, Mahesh Bhagwat, Dr. Namita Nimbalkar & Meghna Shinde-Chakne, Sheth Publications

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1		
2	PPTs	1-5
3	Graded Questions	1-5

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students

GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
☑		☑	☑	☑	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	18/01/2021		

Week No.	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	-	Introduction to the Course, culture and multiculturalism		-		
	2	1	Demographic composition		CO1		
	3	1	Religious diversity		CO1		
2	4	1	Religious diversity		CO1		
	5	1	Regional variation		CO1		
	6	1	Regional variation		CO1		
3	7	2	Concept of disparity		CO2		
	8	2	Gender disparity -violence		CO2		
	9	2	Gender disparity - violence		CO2		
4	10	2	Gender disparity - violence		CO2		
	11	2	Gender disparity – portrayal of women in Indian media		CO2		

	12	2	Gender disparity – portrayal of women in Indian media		CO2		
5	13	2	Problems of the disabled		CO2		
	14	2	Problems of the disabled		CO2		
	15	2	Problems of the disabled		CO2		
6	16	1 & 2	Class test on Module 1 and 2		CO1 CO2		
	17	3	Caste system and inequalities		CO3		
	18	3	Caste system and inequalities		CO3		
7	19	3	Intergroup conflictions: caste		CO3		
	20	3	Intergroup conflictions: caste		CO3		
	21	3	Intergroup conflictions: communalism		CO3		
8	22	3	Intergroup conflictions: communalism		CO3		
	23	3	Intergroup conflictions: regionalism		CO3		
	24	3	Intergroup conflictions: regionalism		CO3		
9	25	3	Intergroup conflictions: linguistic differences		CO3		
	26	3	Class test		CO3		
	27	4	History of the Indian constitution		CO4		
10	28	4	Philosophy of the Indian constitution		CO4		

	29	4	Preamble		CO4		
	30	4	Preamble		CO4		
11	31	4	Features		CO4		
	32	4	Structure		CO4		
	33	4	Structure		CO4		
12	34	4	Fundamental duties		CO4		
	35	4	Tolerance, peace and harmony		CO4		
	36	4	Class Test		CO4		
13	37	5	The party system		CO5		
	38	5	Local self-government: rural		CO5		
	39	5	Local self-government: rural		CO5		
14	40	5	Local self-government: urban		CO5		
	41	5	Local self-government: urban		CO5		
	42	5	73 rd amendment		CO5		
15	43	5	74 th amendment		CO5		
	44	5	Significance of women in politics		CO5		
	45	5	Class Test		CO5		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance)& Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Module-wise assignment	All	Second lecture of each module	Second lecture of the succeeding module

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week/Lecture No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	Lecture 12	✓			2					✓
2	Lecture 17				2					✓
3	Lecture 34				3					✓
4	Lecture 37				ALL		✓		✓	✓

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	Week 8			Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test	-				IA is a Head of passing *

Pop Quiz	Week 6	II			
Open Book Test	Week 2	I			
Take Home Test	Week 9	III			
Class tests / prelims	Week 12	I and II			
Class tests / prelims	Week 8				
Any other test/exams	-				

*** IA failures will have to appear for re-test in next semester**

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2 & 3	Room 101	Disparity	CO2 & CO3	

2	5	Concept mapping	Political process	CO5	
3	5	Essay on one Indian female politician	Political process	CO5	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	Yes
5		Pop Quiz	
6		Mobile App Based Quiz	Yes
7		Open Book Test	
8		Take Home Test	Yes
9		Collaborative and Group Activity	Poster Presentation
10	Minute Papers		
11	Students Seminar		
12	Students Debates		Yes
13	Panel Discussion / Mock GD		Yes
14	Mock Interview		
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	-
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Lakshmi Pillai
Faculty 1 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



J. Gunasundari

J. Gunasundari
Head of Dept. (Sign.)

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	2 & 3	Room 101	Disparity	CO2 & CO3	

2	5	Concept mapping	Political process	CO5	
3	5	Essay on one Indian female politician	Political process	CO5	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	Yes
5		Pop Quiz	
6		Mobile App Based Quiz	Yes
7		Open Book Test	
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	
12		Students Debates	Yes
13		Panel Discussion / Mock GD	Yes
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	-
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Lakshmi Pillai
Faculty 1 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

J. Gunasundari
Head of Dept. (Sign.)

Version 2017-2

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To know and understand the basic behavior pattern of human, the most important resource of a business and to deal with them in an appropriate manner.
Affective	What do you want students to think / care about?	Two individuals share the same anatomy but can have personality traits and behavioral traits that are totally opposite to each other, understanding these differences and utilizing them to our benefit
Behavioural	What do you want students to be able to do?	Understand how models, theories and concepts about organisational behaviour can be used in practice in different workplaces across difference regions of the world.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students will be able to distinguish between the personality traits, behavioral patterns, different attitudes, types of intelligence, learning theories and many interesting models used to understand people and their behavior.	Unit 1
CO2	Students will raise the student's awareness of the centrality of organisational behaviour to understanding organisational functioning, focusing particularly on the individual and group/team level and also understand organisational processes from the perspectives of individuals and organisations.	Unit 2
CO3	Identify different motivational theories and evaluate motivational strategies used in a variety of organizational settings.	Unit 3

CO4	To make students understand about the change management, stress management and organisational development.	Unit 4
-----	------------------------------------------------------------------------------------------------------------	--------

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	S									
CO 2	S	M	M									
CO 3	S	S	S									
CO 4	S	S	M									
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
UBMSFSI.1	Foundation of Human Skills	75	--	--	3	-	-	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	SUM of IA1 and IA2					
UBMSFSI.1	Foundation of Human Skills	20	-	20	75	-	-	05	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3								

B	3								
C	3	-	-	-	-	-	-	-	-
F	3	-	-	-	-	-	-	-	-

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
B	Thursday	11:00 am : 12.00am	MS Teams
F	Friday	11:00 am : 12.00am	MS Teams

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Understanding of Human Nature	10	25%
2	Introduction to Group Behaviour	10	25%
3	Organizational Culture and Motivation at Workplace	10	25%
4	Organizational change, Creativity and Development and Work Stress	10	25%
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	-	NA	NA

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	V	BMS- Motivation and Leadership
2	II	MCom-Organizational Behavior

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Will enable them to assess and analyze the symptoms, causes and effects of work stress in order to implement appropriate stress management techniques.
2	Will enable them to understand the role that individuals play collectively to perform in organizations.
3	Will enable them to Apply knowledge to diagnose and solve problems in a wide range of diverse situations, dealing with people with different personality traits; with an ability to work independently or with others in a group/team and incorporate the analysis of evidence based scientific literature to solve psychological problems using thinking skills, styles, intelligence types and managerial skills

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target – 2021	Jan -2020	Nov- 2019	Nov 2018
Course Passing % – Average of 3 Divisions	100	100	86	89
Marks Obtained by Course Topper (mark/100)	96	95	91.66	97.66

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Jan 2020	NKD	100	PJA	100	PJA	100
Nov 2019	SM	100	SM	85	PJA	90
Nov 2018	SBG	98	SBG	100	PA	95

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
NA		

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Management of Organizational Behaviour Leading Human Resources	Hersey Paul Balchandra K	Prentice-Hall of India Private Limited	9	All

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Organization Behaviour	Rao, Subba	Himalaya Publishing House	2010	2
2	Organizational Behaviour	Prasad: L.M.	Sultan Chand and Sons	2007	2
3	Understanding Organizational Behaviour	Pareek: UDAI	Oxford Book Company	2010	2, 3

4	Organizational Behaviour: An evidence based approach	Luthans, Fred	Mc Graw-Hill Book Company	12	2
5	Organizational development	French: W.L.; Bell: J.R.	Pearson Education Asia	2009	4
6	Personality development and soft skills	Mitra Barun K	Oxford book company	2012	1
7	Organizational theory, design and change	Jones, Gareth	Pearson	2011	4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author /s	Publisher	Edition	Module Nos.
1	A framework for human resource management	Gary Dessler	Pearson India	6	4
2	https://drive.google.com/drive/folders/0B1fEp9GpXelbVlhKb01GVTdmUEQ				

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://onlinelibrary.wiley.com/journal/10991379		All
2	https://www.tandfonline.com/loi/worg20		All

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Bookg			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1		✓				✓	Y		All
2		✓				✓	Y		All
3		✓							All
4		✓	✓				Y		All

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content	1-4
2	PPTs	1-4
3	Graded Questions	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.coursera.org/learn/personality-types-at-work	University of Florida	3 weeks	Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Leading People and Teams Specialization https://www.coursera.org/specializations/leading-teams	University of Michigan	60	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration			

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
	1	1	Introduction to syllabus and relevance of subject in practical life		CO1		

1	2	1	INDIVIDUAL BEHAVIOUR : Concept of a Man, Individual differences	Mentimeter	CO1		
	3	1	Factors affecting Individual difference		CO1		
	4	1	Influence of environment		CO1		
2	5	1	PERSONALITY and ATTITUDE : Determinants of Personality, Personality Trait Theory		CO1		
	6	1	Big Five Model (Video on Big five model)	Video	CO1		
	7	1	Personality Traits important for Organizational Behaviour	IEF	CO1		
	8	1	Concept of Understanding Self (Johari Windows) (Video on johari window)	Video	CO1		
3	9	1	Nature and Components of Attitude, Functions of Attitude, Ways of Changing Attitude, Reading emotions		CO1		
	10	1	THINKING, LEARNING and PERCEPTIONS : Thinking skills, Thinking styles and Thinking Hat (Video on Thinking hats), Managerial skills and development	Cognitive Thinking	CO1		
	11	1	Learning characteristics, Theories of learning (Learning Approaches), Classical conditioning, Operant conditioning	CAT & Assignment	CO1		
	12	2	INTRODUCTION TO GROUP BEHAVIOUR : Group Dynamics : Nature,	Mentimeter	CO2		
4	13	2	Types of Group Dynamics (Case study on Group Dynamics)	CS	CO2		
	14	2	Group behaviour Model (Roles, Norms, Status, Process, Structures)		CO2		
	15	2	TEAM EFFECTIVENESS : Nature, Types of Teams		CO2		
5	16	2	Ways of forming an Effective Team, Setting Goals	GD	CO2		
	17	2	ORGANIZATIONAL PROCESSES AND SYSTEM : Power and Politics : Nature, Bases of Power, Politics nature		CO2		
	18	2	Types, Causes of Organizational Politics, Organizational Conflicts and Resolution		CO2		
	19	2	Conflict features, Types, Causes Leading to Organizational conflicts, Conflicts features	CAT & Assignment	CO2		
6	20	2	Levels of Conflicts (Case study on organizational conflicts), Ways to resolve conflicts through five conflicts resolution strategies with outcomes	CS	CO2		
	21	3	ORGANIZATIONAL CULTURE : Characteristics of Organizational Culture	Mentimeter	CO3		

	22	3	Types, functions of Organizational Culture	Guest Lecture	CO3		
	23	3	Barriers of Organizational culture		CO3		
7	24	3	Ways of creating Effective Organization Culture		CO3		
	25	3	Ways of maintaining Effective Organization Culture (Case study on organizational culture)	CS	CO3		
	26	3	MOTIVATION AT WORKPLACE, MC. Gregor Theory X, Theory Y		CO3		
	27	3	Concept of Motivation, Theories of Motivation, A. Maslow need Hierarchy, F. Hertzberg dual Factor	Practical on Theory Development using Software and Literature	CO3		
8	28	3	Ways of Motivating through Carrot (Positive Reinforcement)		CO3		
	29	3	Stick (Negative reinforcement) at workplace		CO3		
	30	3	ORGANISATIONAL CHANGE and CREATIVITY : Concept of Organizational Change	CAT & Assignment	CO3		
9	31	3	Factors influencing Organizational Change, Kurt Lewins model of Organizational Change and Development (Video on Kurt Lewins model)	Mentimeter	CO3		
	32	4	Creativity and Qualities of a creative person, Ways of enhancing Creativity for effective decision making, Creative Problem Solving		CO4		
	33	4	ORGANISATIONAL DEVELOPMENT AND WORK STRESS		CO4		
	34	4	Need for Organizational Development		CO4		
10	35	4	OD Techniques (Case study on Organizational change and development)	CS	CO4		
	36	4	Stress, Types of Stress, Causes of Job Stress		CO4		
	37	4	Consequences of Job Stress		CO4		
	38	4	Ways for coping up with Job Stress		CO4		
11	39	4	Ways for coping up with Job Stress		CO4		
	40	4	revision	CAT & Assignment	CO4		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	CLASS PARTICIPATION	Other (2) Specify	Total
--------------------------------------------	-------------	----------	-----------------------------	------------------------	-----------------------------	---------------------	-------------------	-------

1 st IA Test				Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks	No IA Re-test
2 nd IA Test				Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	IA is a Head of passing *
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a

Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	Video on Big Five model	Big Five Model	CO1	
2	1	Video on Johari window	Johari Window	CO1	
3	1	Video on thinking hats	Thinking Hats	CO1	
4	4	Video on Kurt Lewins Model	Kurt Lewins Model	CO4	
5	2	Case study on Organizational conflicts	Organizational Conflicts	CO2	
6	2	Case study on Group Dynamics	Group Dynamics	CO2	
7	3	Case study on organizational culture	Organizational Culture	CO3	
8	4	Case study on Organizational change and development	Organizational change and development	CO4	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	YES
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	YES
4		Mini Projects	YES
5		Pop Quiz	Yes

6		Mobile App Based Quiz	YES (Kahoot)
7		Open Book Test	YES
8		Take Home Test	YES
9	Collaborative and Group Activity	Poster Presentation	YES
10		Minute Papers	Yes
11		Students Seminar	Yes
12		Students Debates	YES
13		Panel Discussion / Mock GD	Yes
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	As and when desired
16		Value Added Courses	YES s
17		Lecture Capture Usage	
18		Class Activity	YES

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Summary for teaching pedagogy:

1. Practical on Theory Development using Software and Literature
2. Cognitive thinking on Pictures/Videos
3. Case study
4. Mentimeter
5. Kahoot
6. Guest Lecture
7. Assignment/Presentation/Mini Projects
8. IEF
9. Group Discussion
10. CAT
11. MOOC

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)



External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Version 2020-2021

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Students should know the basics of statistics, application and scope of statistics
Affective	What do you want students to think / care about?	Students should think/take care of merits, demerits and various formulae of various Statistical Tools
Behavioural	What do you want students to be able to do?	Students should be able to use Statistical Concepts in various fields like Research Methodology, Finance etc.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Students should understand scope, functions, limitations of Statistics	Unit 1
CO2	Students should understand the concept of Measures of Dispersion, Co-Relation and Linear Regression	Unit 2
CO3	Students should understand the concept of Time Series & Index Number	Unit 3
CO4	Students should understand the concept of Probability and Decision Theory	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	M	M									
CO 2	S	M	M									
CO 3	S	M	M									
CO 4	S	M	M									

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category	✓						

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
UBMS103	Business Statistics	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
UBMS103	Business Statistics	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A, B, C & F	40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Saturday	04:00 p.m. – 05:00 pm	MS Teams/Library

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to Statistics	10	25
2	Measures of Dispersion, Co-Relation and Linear Regression	10	25

3	Time Series & Index Number	10	25
4	Probability and Decision Theory	10	25
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	XI & XII	Commerce (Measure of Central Tendency), Probability	ALL

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	I & II	MMS/MBA (Business Statistics & Research Methodology)
2	Sem III	BRM (BMS)

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Students should apply the concepts in Research Methodology
2	Students should apply the concept in Risk Management in Finance

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Oct 2021	Oct 2020	Oct 2019	Oct 2018
Course Passing % – Average of 3 Divisions	100 %	100 %	94 %	90 %
Marks Obtained by Course Topper (mark/100)	100	98	93	90

Year	Division A		Division B		Division C		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Oct 2020	PSK	100 %	PSK	100 %	PSK	100 %	PSK	100 %
Oct 2019	SP	91 %	SP	92%	SP	90%	SP	100 %
Oct 2018	SP	89 %	SP	87%	SP	86%	SP	100 %

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Probability	4	Suggesting Students to refer to basics of Probability from XI & XII Book

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Statistical Methods	Gupta, S.P., and Archana Gupta	Sultan Chand and Sons	3	1-5
2	Fundamentals of Statistics	Gupta	S.C Himalaya Publishing House.	3	1-5

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Statistics for Management	Levin, Richard and David S. Rubin	Prentice Hall of India	4	1-5
2	Practical Business Statistics	Siegel	Andrew F International Edition	4	1-5

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Basic Business Statistics	Srinivas R Rao		3	1-5
2	Introductory Business Statistics	Thomas K Tiemann	The Global Text Project	4	1-5
3	A Guide to Business Statistics	David M McEvoy	Wiley	3	1-5
4					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Journal of Business and Economic Statistic (Taylor & Francis)	Journal on Government Statistics	All
2	International Journal of Business Statistics & Finance (Serial Publication)	Data Science Magazine	All

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Maga-zine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			

1	✓	✓	✓	✓	✓	✓			
2	✓	✓	✓	✓	✓	✓			
3	✓	✓	✓	✓	✓	✓			
4	✓	✓	✓	✓	✓	✓			

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	www.youtube.com	1-4
2	www.edx.com	1-4
3	www.ddegjust.ac.in	1-4

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	Business Statistics & Analysis Application	Coursera		Y
2	Statistics for Business I	Edx		Y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Perfect your Mathematical skills	WWW.udemy.com	28 hrs	N

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	10/07/2021	05/11/2021	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	Cos	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction to Syllabus and its application in day to day life, Concept of Statistics & Scope & Functions of Statistics in Management		1		
	2	1	Data: Relevance of Data (Current Scenario) & Type of data (Primary & Secondary), Primary (Census vs Samples, Method of Collection (In Brief), Secondary (Merits, Limitations, Sources)		1		
	3	1	Presentation of Data: Classification– Frequency Distribution		1		
2	4	1	Discrete & Continuous Distribution		1		
	5	1	Graph (Frequency, Bar Diagram, Pie Chart, Histogram, Ogives)		1		
	6	1	Mean (A.M, Weighted, Combined)		1		
3	7	1	Median (A.M, Weighted, Combined)		1		
	8	1	Mode (Calculation and Graphical using Histogram)		1		
	9	1	Comparative analysis of all measures of Central Tendency		1		
4	10	1	Revision of Unit 1		1		
	11	2	Range with C.R(Co-Efficient of Range)		2		
	12	2	Concept of Quartiles		2		
5	13	2	Quartile deviation with CQ (Co-Efficient of Quartile)		2		
	14	2	Mean Deviation from mean with CMD (Co-Efficient of Mean Deviation)		2		
	15	2	Concept of Standard deviation, Standard deviation with CV (Co-Efficient of Variance)		2		

6	16	2	Skewness & Kurtosis	2		
	17	2	Introduction to Co-Relation, Karl Pearson (Rank Co-Relation)	2		
	18	2	Introduction to Linear Regression	2		
7	19	2	Least Square Method Mean (A.M, Weighted, Combined)	2		
	20	2	Revision of Unit 2	2		
	21	3	Introduction to Time Series	3		
8	22	3	Least Square Method	3		
	23	3	Moving Average Method	3		
	24	3	Introduction to Index Number	3		
9	25	3	Simple(unweighted) Aggregate Method & Weighted Aggregate Method	3		
	26	3	Simple Average of Price Relatives	3		
	27	3	Weighted Average of Price Relatives	3		
10	28	3	Chain Base Index Numbers, Splicing and Deflating	3		
	29	3	Cost of Living Index Number	3		
	30	3	Revision of Unit 3	3		
11	31	4	Concept of Sample space, Concept of Event, Definition of Probability, Addition & Multiplication laws of Probability	4		
	32	4	Conditional Probability	4		
	33	4	Bayes' Theorem	4		

12	34	4	Expectation & Variance, Concept of Probability Distribution		4		
	35	4	Decision Theory: Acts, State of Nature Events, Pay offs		4		
	36	4	Opportunity loss, Decision Making under Certainty, Decision Making under Uncertainty		4		
13	37	4	Non-Probability: Maximax, Maximin, Minimax		4		
	38	4	Regret, Laplace & Hurwicz		4		
	39	4	Decision Making under risk: EMV, EOL, EVPI & Decision Tree		4		
14	40	4	Revision of Unit IV		4		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
5								5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Assignment on "Introduction to Statistics"	1		
2	Assignment on "Measure of Tendency, Co-relation and Linear Regression"	2		
3	Assignment on "Time Series & Index Number"	3		
4	Assignment on "Probability & Decision Tree"	4		

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1		√	√		1	√	√		√	
2		√	√		2	√	√		√	
3		√	√		3	√	√		√	
4		√	√		4	√	√		√	

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test _____	2 nd Week of Aug			Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test IA is a Head of passing *
2 nd IA Test					
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	2	Measure of Central Tendency	Application of Mean, Median & Mode	2	
2	4	Correlation & Regression	Types of Correlation	4	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Class Test on Correlation
4		Mini Projects	
5		Pop Quiz	Related to Formula or Properties of Measure of Central Tendency
6		Mobile App Based Quiz	
7		Open Book Test	Probability: Decision Making
8		Take Home Test	Topic: Regression
9		Collaborative and Group Activity	Poster Presentation
10	Minute Papers		Topic: Formula Book
11	Students Seminar		
12	Students Debates		
13	Panel Discussion / Mock GD		
14	Mock Interview		
15	Co-curricular	MOOC-NPTEL/Coursera Videos	Perfect your Mathematical skills – Udemey
16		Value Added Courses	Business Statistics & Analysis Application – Coursera

17	Courses	Lecture Capture Usage	As per discussion with Faculty, who have taught in previous years
----	---------	-----------------------	-------------------------------------------------------------------

Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Amit Kabra


Swapna Kadam

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

*



Principal
 VIDYALANKAR SCHOOL OF
 INFORMATION TECHNOLOGY
 Vidyalankar Marg, Wadgaon
 Educational Campus, Wadgaon (E)
 Mumbai - 400 027



Version 2020-2021

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Students will learn how markets and other governance structures organize core economic activities, such as production, distribution, and consumption, and the growth of productive resources.
Affective	What do you want students to think / care about?	Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence to explain past economic events and to formulate predictions on future ones.
Behavioural	What do you want students to be able to do?	Students will analyse business problems using tools from both economics and business

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	Introduction	Unit 1
CO2	Demand Analysis	Unit 2
CO3	Supply and Production Decision and Cost of Production	Unit 3
CO4	Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	Unit 4
CO5	Pricing Strategies	Unit 5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	M	S								
CO 2	S	M	S	S								
CO 3	S	S	S	M								
CO 4	S	S	M	S								

CO 5	S											
------	---	--	--	--	--	--	--	--	--	--	--	--

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1	S	S	M	S
CO 2	S	M	S	S
CO 3	S	S	S	M
CO 4	S	S	M	S
CO 5	S	S	M	S

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
VSIT 403	Business Economics I	75	--	--	3	-	-	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	SUM of IA1 and IA2					
VSIT 403	Business Economics I	20	5	25	75	-	-	-	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	-	NA	NA	NA	NA	NA	NA	NA	NA
B	3.0	NA	NA	NA	NA	NA	NA	NA	NA
C	3.0	NA	NA	NA	NA	NA	NA	NA	NA
F	-	NA	NA	NA	NA	NA	NA	NA	NA

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
----------	-----	----------------------------------	-------------------------

A	Monday	11.30 am to 12.30 pm	Staff Room
---	--------	----------------------	------------

2.a Syllabus : Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction	11.33	16.66%
2	Demand Analysis	11.33	16.66%
3	Supply and Production Decisions and Cost of Production	60*50 MIN/60=12.5	25%
4	Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	60*50 MIN/60=12.5	25%
5	Pricing Practices	11.33	16.66%
* Insert rows for more modules in the Course		Total	60
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	12 th	Economics	

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	III	BMS
2	I	MMS
3	I	M.Com

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Most people have a limited amount of time and money. They cannot buy or do everything they want, so they make calculated decisions on how to use limited resources to maximize personal satisfaction.
2	How individuals and businesses make decisions.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Oct 2020	Oct 2019	Oct 2018	Oct 2017
Course Passing % – Average of 3 Divisions	100%	94.55	66.66	86.76

Marks Obtained by Course Topper (mark/100)	85+	79	85	
---------------------------------------------	-----	----	----	--

	Division A		Division B		Division C	
Year	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Oct 2019	SBG	100	ABR	89.09	ABR	96.36
Oct 2018	SBG	80.32	ABR	78.33	VF	61.66

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Pricing Practices	4	Assignments and class test
Market Structure	IV	Ask students to practice the diagrams with logic

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Managerial Economics – Analysis, Problem and Cases	Mehta, P.L.	(S. Chand & Sons, N. Delhi,		All
2	Principles of Microeconomics	H.L Ahuja	S. Chand & Sons, N. Delhi		All
3	Managerial Economics	Hirchey .M.,	Thomson South western		All
4	Managerial Economics in a global economy	Salvatore, D.	Thomson South Western Singapore		All

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Principles of Economics	Gregory Mankiw	Thomson South western		All
2	Principles of Economics	Frank Robert.H, Bernanke. Ben S.,	(Tata McGraw Hill	Ed. 3	All
3	Economics	Samuelson & Nordhas	(Tata McGraw Hill		All
4	Managerial Economics cases and concepts	Pal Sumitra	Macmillan		All

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Course Academic Administration Plan – VSIT403 Micro economics – Semester I- BMS (Management)

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Microeconomics Theory And Applications	Ghai and Gupta	Sarup and Sons		All
2	Behavioural Interaction, Market and Economics Dynamics	Shinsute Ileda & all	Springer Nature		4
3	Microeconomics	David A. Dilts			1 & 4
4	Microeconomics	Peter Dorman	Springer Nature		All
5	Principles of Microeconomics	Martin Kolmar	Springer Nature	1st ed. 2017	

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	American Economic Journal: Microeconomics - Issues https://www.aeaweb.org/journals/mic/issues	https://www.economist.com/blogs/freeexchange/2012/10/microeconomics	
2	Studies in Microeconomics http://journals.sagepub.com/home/mic	Business Week	

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √					Available In VIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)	
	Book			Magazine	Journals		Y		N
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					Y		Principles of Economics, Gregory Mankiw
2	✓	✓					Y		Principles of Economics, H. L Ahuja
3	✓	✓					Y		Principles of Economics, Gregory Mankiw
4	✓	✓					Y		Principles of Economics, H. L Ahuja

4.f Web Links for Online Notes/YouTube/VIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://www.youtube.com/watch?v=mgJgzdsVR8Q	1
2	https://www.youtube.com/watch?v=tOlla3puTWA	2
3	https://www.youtube.com/watch?v=77IW_LAlqKU	3

4	https://www.youtube.com/watch?v=cuPnPCWJwU	4
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4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	AN INTRODUCTION TO MICROECONOMICS	Vimal Kumar Indian Institute of Technology – Kanpur	30 hours	Yes

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

5. Consolidated Course Lesson Plan

	From (date/month/year)	From (date/month/year)	Total Number of Weeks
Semester Duration	04/11/2017	March, 2018	20

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site
1	1	1	Introduction to Syllabus		1		
	2	1	Introduction to Micro Economics		1		
	3	1	Scope of Business Economics		1		

	4	1	Importance Business Economics		1		
2	5	1	Basic Tools – Opportunity Cost Principle		1		
	6	1	Incremental and Marginal Concept		1		
	7	1	Basic Economics Relation – Functional Relations – TC AC MC		1		
	8	1	Use of Marginal Analysis in Decision Making		1		
3	9	1	Shift in Demand and Supply Curve		1		
	10	1	Nature of Demand Curve in Different Market (Perfect, Monopolistic)		1		
	11	2	Nature of Demand Curve in Different Market (Monopoly, Oligopoly)		2		
	12	2	Problem: Monopoly and Perfect		2		
4	13	2	Meaning and Significance of Elasticity of Demand		2		
	14	2	Types and Measurement of Elasticity of Demand, Relationship between elasticity and revenue concept		2		
	15	2	Demand Forecasting – Meaning and Types		2		
	16	2	Significance and Process of Demand Forecasting		2		
5	17	2	Methods of Demand Forecasting		2		
	18	2	Problem: Demand Forecasting		2		
	19	2	Production function		2		

	20	2	short run analysis with Law of Variable Proportions		2		
6	21	3	Production function with two variable inputs		3		
	22	3	isoquants, ridge lines and least cost combination of inputs		3		
	23	3	Long run production function and Laws of Returns to Scale		3		
	24	3	expansion path		3		
7	25	3	Economies and diseconomies of Scale		3		
	26	3	Accounting cost and economic cost, implicit and explicit cost, fixed and variable cost		3		
	27	3	total, average and marginal cost		3		
	28	3	Cost Output Relationship in the Short Run and Long Run		3		
8	29	3	hypothetical numerical problems		3		
	30	3	LAC and Learning curve		3		
	31	3	Break even analysis		3		
	32	3	Short run and long run equilibrium of a competitive firm and of industry		3		
9	33	3	monopoly		3		

	34	3	short run and long		3		
	35	3	run equilibrium of a firm under Monopoly		3		
	36	4	Monopolistic competition		4		
10	37	4	Equilibrium of a firm under monopolistic competition		4		
	38	4	debate over role of advertising		4		
	39	4	Oligopolistic markets		4		
	40	4	key attributes of oligopoly		4		
11	41	4	Collusive and non-collusive oligopoly market		4		
	42	4	Price rigidity		4		
	43	4	Cartels and price leadership models		4		
	44	4	Cartels and price leadership models		4		
12	45	4	practical examples		4		
	46	4	Cost oriented pricing method		4		
	47	4	cost – plus (full cost) pricing		4		
	48	4	marginal cost pricing, Mark up pricing		4		
13	49	4	discriminating pricing		4		

	50	4	multiple – product pricing, transfer pricing		4		
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6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	CLASS PARTICIPATION	Other (2) Specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Unit 1	1	17/07/2020	31/07/2020
2	Unit 2	2	31/07/2020	11/08/2020
3	Unit 3	3	10/08/2020	31/08/2020
4	Unit 4	All	30/08/2020	10/09/2020
5	Unit 5	All	15/09/2020	29/09/2020

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	4	√		√			√		√	
2	8	√					√		√	
3	12	√					√		√	
4	16	√	√				√		√	

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ); Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test		1 & 2	1 & 2	Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
					IA is a Head of passing *
Pop Quiz		4	4		
Open Book Test		1	1		
Take Home Test		All	All		
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	1	Case study on Oligopoly	Oligopoly		
2	2	Practical Sums	Law of demand		
3	3	Practical Sums	Costs		
4					
5					
6					
7					
8					

9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1	3	Cost Analysis			
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	2	Case study OPEC		4	
2					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	Yes
3	Test and Assessments	Class Tests – (other than IA)	OBT
4		Mini Projects	Launching a product in Rural Market
5		Pop Quiz	Based on overall syllabus
6		Mobile App Based Quiz	
7		Open Book Test	Yes
8		Take Home Test	Yes
9		Collaborative and Group Activity	Poster Presentation
10	Minute Papers		
11	Students Seminar		
12	Students Debates		
13	Panel Discussion / Mock GD		

14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

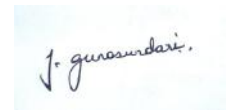
Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)



Principal
 VIDYALANKAR SCHOOL OF
 INFORMATION TECHNOLOGY
 VIDYALANKAR MARG, THIRUPATI
 Educational Campus, Wazirsa (E)
 Mumbai - 400 027



Version 2017-2018

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	Preparing financial statements in accordance with appropriate standards
Affective	What do you want students to think / care about?	To understand technicalities of financial accounting especially how journals and financial statements are prepared
Behavioural	What do you want students to be able to do?	They will demonstrate their knowledge of the fundamental and technical concepts of accounting

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To understand Meaning, principles and Scope of Accounting, Accounting standards, IFRS and accounting in computerised environment	Unit 1
CO2	To study accounting cycle, classification of expenditure and receipts	Unit 2
CO3	Depreciation accounting and preparation of trial balance	Unit 3
CO4	Preparation and presentation of Final Accounts in horizontal format	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	M	S									
CO 2	S	M	S									
CO 3	S	M	S									
CO 4	S	M	S									

CO 5											
------	--	--	--	--	--	--	--	--	--	--	--

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category						✓	

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
UBMSFSI.10	Introduction to Financial Accounting	75			3			3

Subject Code	Subject Name	Examination Scheme							Total
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	
		IA 1	IA 2	Sum of IA1 and IA2					
UBMSFSI.10	Introduction to Financial Accounting	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
B	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
C	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	Monday	3.00pm to 4.00 pm	Phone, What'sup
B	Monday/Tuesday	3.00pm to 4.00 pm	Phone, What'sup
C	Tuesday	3.00pm to 4.00 pm	Phone, What'sup

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction	10	25
2	Accounting Transactions	10	25
3	Depreciation Accounting & Trial Balance	10	25
4	Final Accounts	10	25
* Insert rows for more modules in the Course		Total	40hrs
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	11 th (Commerce)	Book Keeping & Accountancy	All units
2	12 th (Commerce)	Book Keeping & Accountancy	All units

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	SYBMS	Sem III- Accounting For Managerial Decisions
2	TYBMS	Sem V – Strategic Financial Management, Investment Analysis & Portfolio Management, Wealth Management Sem VI- Innovative Financial Services, Risk Management in Banking Sector
3	MBA/MMS	Accounting for Managers, Advanced financial Accounting and financial management
4	M.com	Advanced accountancy

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course

1	Management of day to day finances
2	Application of time value of money (Present value and future value)

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - 2021	Nov 2020	Nov 2019	Nov 2018
Course Passing %	100	99	90%	89.88
Marks Obtained by Course Topper (mark/100)	95	90	95	93

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Nov 2020	Pooja K	99				
Nov 2019	Pooja K	78.77				
Mar 2018	Chitra M	88.52				

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Depreciation	3	More class room practice, Assignments and homework sheets

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Accountancy	T.S. Grewal,	S. Chand and Company (P) Ltd., New Delhi		All
2	Advanced Accountancy	R.L Gupta and M. Radhaswamy	S. Chand and Company (P) Ltd		All

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Financial Accounting	Tulsian	Pearson Publications		All
2	Financial Accounting	Williams	Tata Mc. Grow Hill		All
3	Financial Accounting	R K Agarwal	Tata Mc. Grow Hill		All

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Introduction to Financial Accounting https://lyrx.com/introduction-financial-accounting/	H. Dauderis and D. Annand	—	—	1,2,3
2	Financial Accounting http://www.ddegjust.ac.in/studymaterial/bba/bba-104.pdf	Dr. Chandra Shekhar	—	—	4

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	Journal of Accounting Research	https://onlinelibrary.wiley.com/journal/1475679x	All
2	Journal of Accounting and Economics	https://www.journals.elsevier.com/journal-of-accounting-and-economics	

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓					Y		Unit 1-4
2	✓	✓					Y		Unit 1-4
3	✓	✓					Y		Unit 1-4
4	✓	✓					Y		Unit 1-4

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	Digital Content (V refer)	1-4
2		

4.g**Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.**

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://courses.corporatefinanceinstitute.com/bundles/free-finance-accounting-courses	CFI(Corporate Finance Institute)	—	Y
	https://alison.com/courses?query=Free%20course%20in%20accounting Basic Accounting	Alison	Self-paced	

4.h**Recommended Value Added Courses (VAC)**

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i**Study Material Distributed among Students**

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	Practical problems worksheets

5.**Consolidated Course Lesson Plan**

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	18/06/2018		

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction to Syllabus		1		
1	2	1	Basics of Accounting, Need and development		1		

1	3	1	definition: Book keeping and accounting		1		
2	4	1	Persons interested in accounting		1		
2	5	1	Branches, Objectives of accounting		1		
2	6	1	Introductions to Concepts and conventions.		1		
3	7	1	Introduction to Accounting Standards		1		
3	8	1	International Financial Reporting Standards (IFRS) Accounting in Computerized Environment		1		
3	9	2	Accounting cycle, Meaning of Journal		2		
4	10	2	Journal Entries		2		
4	11	2	Journal Entries		2		
4	12	2	Ledger Entries		2		
5	13	2	Ledger (Trial Balance)		2		
5	14	2	Subsidiary books: Purchase, Purchase Returns,		2		
5	15	2	Sales, Sales Returns		2		
6	16	2	cash book – (Simple column), cash book – (Double column)		2		
6	17	2	cash book – Triple Column)		2		
6	18	2	Problems on Bank Reconciliation Statement.		2		
7	19	2	Problems on Bank Reconciliation Statement.		2		
7	20	2	Capital expenditure and capital Receipt, Deferred Revenue Expenditure, Revenue profit or		2		

			loss, capital profit or loss			
7	21	3	Meaning of Depreciation		3	
8	22	3	Methods of Depreciation		3	
8	23	3	Practical problems on SLM		3	
8	24	3	Practical Problems on WDV		3	
9	25	3	Practical problems on SLM		3	
9	26	3	Practical Problems on WDV		3	
9	27	3	Practical problems on SLM		3	
10	28	3	Practical Problems on WDV		3	
10	29	3	Introduction of Trial Balance		3	
10	30	3	Preparation of Trial Balance		3	
11	31	4	Rectification of errors		4	
11	32	4	Types of errors: Error of Omission & commission, Error of Principle		4	
11	33	4	Practical Problems on rectification		4	
12	34	4	Practical Problems on rectification		4	
12	35	4	Final Accounts from Trial Balance		4	
12	36	4	Final Accounts (Adjustments)		4	
13	37	4	Final Accounts Practical Problems		4	
13	38	4	Final Accounts Practical Problems		4	

13	39	4	Final Accounts Practical Problems		4		
14	40	4	Final Accounts with Manufacturing Accounts		4		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) Specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Accounting standards	CO1	3 rd Week	4 th Week
2	Journal & Ledgers	CO2	5 th Week	6 th Week
3	Depreciation	CO3	8 th Week	9 th Week
4	Final accounts	CO4	11 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓	E Book	✓	
2	5	✓			2		✓		✓	
3	8	✓			3		✓		✓	

4	11			✓	4		✓	E Book	✓	
---	----	--	--	---	---	--	---	--------	---	--

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 or 8 th Week	1 & 2	1 & 2	Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test IA is a Head of passing *
2 nd IA Test					
Pop Quiz	3 rd week	1			
Open Book Test	5 th Week	2			
Take Home Test	9 th Week	3			

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
---------------	------------	-------------------------------------	----------------------------	--------	-------------------------------

1		Financial statement of a Company Identification of Revenue and capital transactions	Differentiation between capital and Revenue trns.	1	
---	--	----------------------------------------------------------------------------------------	---------------------------------------------------	---	--

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report	
1		Guest Lecture / Workshops	----	
2		Industrial Visit	-----	
3	Test and Assessments	Class Tests – (other than IA)	Surprise test	
4		Mini Projects	NA	
5		Pop Quiz	Unit 1	
6		Mobile App Based Quiz	No	
7		Open Book Test	Yes	
8		Take Home Test	Yes (5 question from each unit)	
9		Collaborative and Group Activity	Poster Presentation	NA
10			Minute Papers	NA
11	Students Seminar		NA	
12	Students Debates		NA	
13	Panel Discussion / Mock GD		NA	
14	Mock Interview		NA	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	NA	
16		Value Added Courses	NA	
17		Lecture Capture Usage	NA	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

J.gunasundari

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)

VSIT Cluster Mentor Name (Sign.)

J. gunasundari

Head of Dept. (Sign.)

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e - books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To hone verbal/written and visual, as both need different skills-sets to master them.
Affective	What do you want students to think / care about?	To use the power of creativity for a commercial/business reason
Behavioural	What do you want students to be able to do?	In an ad agency, as a copywriter, one cannot “Just be creative and express self” – here one is in a ‘creative professional’, and have to be able to use the power of creativity for a commercial/business reason – as someone is paying you to get a problem solved, using your creativity

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
--------	------------	------------------

CO1	To familiarize the students with the concept of copywriting as selling through writing	Unit 1
CO2	To learn the process of creating original, strategic, compelling copy for various mediums	Unit 2
CO3	To train students to generate, develop and express ideas effectively	Unit 3
CO4	To learn the rudimentary techniques of advertising headline and body copywriting, the economy of words and thought peculiar to this type of writing, and the necessity of creative thinking in written expression.	Unit 4

s

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S	S	S	S								
CO 2	S	S	S	S								
CO 3	S	S	S	S								
CO 4	S	S	S	S								
CO 5	S	S	S	S								

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT /	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary

		Electronics						
Tick suitable category								√

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BAMMC DRGA-501	Copywriting	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
BAMMC DRGA-501	Copywriting	25		25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
TYBMM (A)	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
TYBMM (A)	Friday	3 to 4 p.m.	MS teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	INTRODUCTION TO COPYWRITING	8hr	25
2	WRITING FOR ADVERTISING	8hr	25
3	CURRENT ADVERTISING CAMPAIGNS	8 hr	15
4	MEDIA AND AUDIENCES	8hr	15
5	WRITING COPIES, APPEALS, EXECUTION 08 STYLES AND EVALUATION	8 hr	20
* Insert rows for more modules in the Course Total		40	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	2	Advertising	All
2	3	Media Studies	All
3	1	Mass Communication	All

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	TYBMM	Advertising
2	MBA/MMS/MAEMA	Specialisation in Advertising Mgmt.
3		

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
-----	-----------------------------------------------

1	In field of Advertising in Ad agency or Media Professional, freelancing etc.
2	Creating campaign and awareness of product, ideas and cause.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Oct 2021	Oct 2020	Oct 2019	
Course Passing % – Average of 3 Divisions	100%	100%	100	
Marks Obtained by Course Topper (mark/100)		97%	90%	

Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Mar 2020	ABB	100%				
Mar 2019	Harish Iyer	97%			NA	NA
Mar 2018						

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Creativity	1	Assignment
	3	Practical examples, case study, campaign, ad making

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The Copywriter's Handbook: A Step-By-Step Guide To Writing Copy	Robert Bly			
2					

Rakelke
Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Wadala (E)
Mumbai - 400 037.



4.b**List of Reference Books (R – Symbol for Reference Books) to be Referred by Students**

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Looking Away	Harsh Mandar			1 st
2	Copywriting	J.Jonathangabay Frsa			1&2
3	Copywriting: Successful Writing For Design, Advertising And Marketing	Mark Shaw			3
4	The Adweek Copywriting Handbook: The Ultimate Guide To Writing Powerful Advertising And Marketing Copy From One Of America'S Top Copywriters Paperback	By Joseph Sugarman			4

4.c**List of E - Books (E – Symbol for E-Books) to be Referred by Students**

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The ABC of copywriting	Tom Albrighton			
2					

4.d**Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]**

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.campaignlive.co.uk/the-work/agency/ogilvy/8525	Advertising Age	All
2		Campaign India	
3			

4.e**Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details**

Module No.	Category (Please Tick Mark) - √			Available In VSIT Library?	Details of the Resource
	Book		Journals		

	Text	Reference	E-Book	Magazine	Regular	E-Journal	Y	N	(i.e. Name, Chapter & Page No., etc.)
1	✓	✓					Y		Unit 1-4
2	✓	✓					Y		Unit 1-4
3	✓	✓					Y		Unit 1-4
4	✓	✓					Y		Unit 1-4

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://www.youtube.com/watch?v=IiYNMdv9E	All
2	https://www.youtube.com/watch?v=hcZ1aZ60k7w	All

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course Duration	Certificate (Y / N)
1	https://www.inst.org/copy/	5 weeks	Y
2	https://coursesity.com/course-detail/free-copywriting-tutorial-copywriting-fundamentals-for-beginners	5 weeks	
3	https://alison.com/occupation/copywriter		

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1	Digital advertising	ZIMA	5 weeks	Y

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	In progress	✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	21/06/2021	31/10 /2021	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	Co s	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	INTRODUCTION TO COPYWRITING		1		
	2	1	Basics of copy writing		1		
	3	1	Responsibility of Copy writer CREATIVE THINKING a. How to inculcate a 'creative thinking attitude'.		1		
2	4	1	The idea incubation process		1		
	5	1	What's the Big Idea? - How to get to the ONE BIG IDEA that will inspire creative		1		
	6	1	Crafting the reasons why consumers should believe your brand and act		1		

3	7	1	IDEA GENERATION Idea generation techniques: TECHNIQUES eg. Brainstorming, Triggered brainwalking, Questioning assumptions, Picture prompts,		2		
	8	1	Scamper, Observation, Referencing, Interaction, Imagination, Dreams, and Creative Aerobics		1		
	9	2	TRANSCREATIVITY WRITING FOR ADVERTISING Marketing Brief		1		
4	10	2	Creative Brief WRITING PERSUASIVE COPY a. Tone of Voice What's the Tone? c. Tonality and character matters		1		
	11	2	How to make your Writing, walk, Talk, and breathe		1		
	12	2	Creating Breakthrough Writing		1		
5	13	2	How to Control the "Command Center" in Your Prospect's Mind How to Change Perception		1		
	14	2	i. Emotionality, Storytelling		2		
	15	3	CURRENT ADVERTISING CAMPAIGN Two current campaigns for each of the following agencies including TVC, Print, Outdoor and digital should be studied, and analyzed in the class room JWT a. Copy writing style b. Idea and concept c. How copy is varied for differ media		2		Times Spark - A Salaam To Kalam Himalayan sparkling

6	16	3	JWT d. Copy for children, youth, women, Senior citizens, executives millenials, Baby Boomers, Gen X, Gen Y, Gen Z e. Advertising appeals f. Tone of Voice g. Story telling	2		Voxi (I am endless even in isolation
	17	3	Ogilvy a. Copy writing style b. Idea and concept c. How copy is varied for differ media d. Copy for children, youth, women, Senior citizens, executives millenials, Baby Boomers, Gen X, Gen Y, Gen Z	2		
	18	3	Ogilvy e. Advertising appeals f. Tone of Voice g. Story telling Low Lintas a. Copy writing style b. Idea and concept c. How copy is varied for differ media	2		
7	19	3	Low Lintas d. Copy for children, youth, women, Senior citizens, executives millenials, Baby Boomers, Gen X, Gen Y, Gen Z e. Advertising appeals f. Tone of Voice g. Story telling FCB Ulka a. Copy writing style b. Idea and concept c. How copy is varied for differ media	3		
	20	3	FCB Ulka d. Copy for children, youth, women, Senior citizens, executives millenials, Baby Boomers, Gen X, Gen Y, Gen Z e. Advertising appeals f. Tone of Voice g. Story telling	3		
	21	3	DDB Mudra a. Copy writing style b. Idea and concept c. How copy is varied for differ media	3		
8	22	3	DDB Mudra d. Copy for children, youth, women, Senior citizens, executives millenials, Baby Boomers, Gen X, Gen Y, Gen Z e. Advertising appeals f. Tone of Voice g. Story telling Publicize Worldwide			

			a. Copy writing style b. Idea and concept c. How copy is varied for different media			
	23	3	Publicize Worldwide d. Copy for children, youth, women, Senior citizens, executives millennials, Baby Boomers, Gen X, Gen Y, Gen Z e. Advertising appeals f. Tone of Voice g. Story telling			
	24	4	MEDIA AND AUDIENCE WRITING COPY FOR VARIOUS MEDIA a. Print: Headlines, sub headlines, captions, body	3		
9	25	4	Television: Storyboard, Storyboarding Power of silence, formats of TV's	1		
	26	4	Techniques, Balance between words and visuals	3		
	27	4	Radio	3		
10	28	4	Digital copy for social media like facebook Instagram etc f. Copy for web Outdoor posters	1		
	29	4	WRITING COPY FOR VARIOUS AUDIENCES a. Children	1		
	30	4	Youth, c. Women, d. Senior citizen and e. Executives	2		
11	31	5	Executives f. Baby Boomers, Gen X, Gen Y (Millennials), Gen Z WRITING COPIES, APPEALS, EXECUTION 08 STYLES AND EVALUATION	1		
	32	5	a. Direct mailer, COPY FOR b. Classified, c. Press release, d. B2B, e. Email copy f. Advertorial, g. Infomercial	1		

	33	5	APPEALS AND Music Rational appeals b. Emotional appeals: Humor, Fear, Sex		2		
12	34	5	Various advertising execution techniques The techniques Evaluation of an Ad Campaign				
	35	5	Evaluate the ad in terms of its efficacy, that is, to what extent the campaign has achieved its set objectives;		4		
	36	5	Learn to appreciate the aesthetic aspects of the ad – how the ad looks layout		4		
13	37	5	colour scheme, typography, balance etc.		1		
	38	5	Corruption issues faced by the common man		1		
	39	5	Challenges faced by senior citizens and the physically/ mentally challenged.		1		
14	40	revision					

6.

Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assign-ments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) Specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	INTRODUCTION TO COPYWRITING	CO1	3 rd Week	4 th Week
2	WRITING FOR ADVERTISING	CO2	5 th Week	6 th Week
3	CURRENT ADVERTISING CAMPAIGNS	CO3	8 th Week	9 th Week
4	MEDIA AND AUDIENCES	CO4	11 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓		✓	
2	5	✓			2		✓		✓	
3	8	✓			3		✓		✓	
4	11			✓	4		✓		✓	

* Tick (√) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – *from Points 4.a to 4.d*

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 or 8 th Week	1 & 2	1 & 2	MCQ - 40 Marks Mid term- 20 marks	No IA Re-test
2 nd IA Test					IA is a Head of passing*

Pop Quiz	3 rd week				
Open Book Test	6 th week				
Take Home Test	9 th week				
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

*** IA failures will have to appear for re-test in next semester**

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Ad making (TVC) print ads etc. or documentary/ E -poster making			
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	All	Case lets		1	
2					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Art of Copywriting
2			
3	Test and Assessments	Class Tests – (other than IA)	Surprise test
4		Mini Projects	TVC & print ad
5		Pop Quiz	Yes for Module 2
6		Mobile App Based Quiz	NA
7		Open Book Test	Yes
8		Take Home Test	Yes (5 question from each unit)
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	NA
11		Students Seminar	Maybe
12		Students Debates	Yes
13		Panel Discussion / Mock GD	yes
14		Mock Interview	NA

15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	yes
16		Value Added Courses	Maybe
17		Lecture Capture Usage	Yes

New Pedagogy

- I. Picture Prompts- Guess who?
- II. Triggered Brainwalking- On the spot Slogan Writing
- III. TVC/Print
- IV. SCAMPER- Challenge the stalwarts (Re positioning an existing brand)

√* **Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Anindita Banerji



Faculty 1 Name (Sign.)


Principal
VIDYALANKAR SCHOOL OF
INFORMATION TECHNOLOGY
Vidyalankar Marg, Vidyalankar
Educational Campus, Wadala (E)
Mumbai - 400 027.



Consolidated Academic Administration Plan for the Course

News Media Mgmt. (TYBMM-Journalism) – Sem. V – BAMMC. (Advertising)– 2021-22 – Odd Semester
 Asst. Prof. Anindita Banerji

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To analyze individual media and understand the Economic drivers of the economy.
Affective	What do you want students to think / care about?	Role of News media in society and Journalism as an agent of change
Behavioural	What do you want students to be able to do?	To develop hands-on experience as content marketers using journalistic and digital techniques.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To make students aware about the responsibilities, structure and functioning of an organization.	Unit 1 & 2
CO2	Students will be able to analyze individual media businesses and understand the Economic drivers of the media economy.	Unit 3
CO3	Students will have developed hands-on experience as content marketers using journalistic and digital techniques.	Unit 4
CO4	Students will have gained a perspective on the evolution of media in the last 25 years and on key current trends.	All units

5

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash '-': not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12

CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category							✓

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BAMMC EJNM 1B506	News Media mgmt..	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
BAMMC EJNM 1B506	News Media mgmt..	25		25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
Journalism	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
----------	-----	----------------------------------	-------------------------

C	Saturday	11:00am - 12:00noon	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction-Making News, Legacy Media	8	20
2	Organizational Structure	10	25
3	Resource and supply chain, and marketing techniques.	10	25
4	Disruptive Technology and Media Business Models	8	20
5	Case studies	4	10
6			
7			
* Insert rows for more modules in the Course		Total	40
			100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	3	Intro to Journalism	ALL
2	3	Media Studies	All

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	TYBMM	Sem VI- Journalism
2	MBA/Masters in Comm. Journalism	Specialisation in Journalism
3		

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	In field of Media & Journalism
2	News agency /channels

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Oct 2022	Mar 2020	Mar 2019	Mar 2018
Course Passing % – Average of 3 Divisions	100%	100%	100%	
Marks Obtained by Course Topper (mark/100)			70%	

					Division	
Year	Initials of Teacher	% Result	Initials of Teacher	% Result		% Result
Mar 2020	Sidra Usmani	100				
Mar 2019	Raju Korti	100			NA	NA
Mar 2018	Raju Korti	100				

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Financial mgmt	1	Assignment & Guest lecture Practical examples, case study

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	News Media Management	Mr P.K Ravindranath			
2	Print Media Communication and Management	Aruna Zachariah			

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	Understanding Company Law	, (Alstair Hudson)		1	2

2	Advertising and Integrated Marketing Communications	Kruti Shah		1	3
3	Newspaper organization and Management	(Rucket and Williams)		1	2
4				1	4

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	http://keralamediaacademy.org/wp-content/uploads/2015/02/Handbook-of-Journalism-Studies.pdf	THE HANDBOOK OF JOURNALISM STUDIES Edited by Karin Wahl-Jorgensen Thomas Hanitzsch			
2					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	https://www.thequint.com/	http://www.outlookindia.com/	All
2	http://www.financialexpress.com/		

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓		✓		✓	Y		Unit 1-4
2	✓	✓		✓		✓	Y		Unit 1-4
3	✓	✓		✓		✓	Y		Unit 1-4
4	✓	✓		✓		✓	Y		Unit 1-4

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://www.youtube.com/watch?v=Kfbtnlj08JA&ab_channel=TEDxTalksTEDxTalksVerified	1-4
2	http://www.bloomberg.com/	All
3		1
4		3
5		

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://www.classcentral.com/course/swayam-society-and-media-2021-14291	Swayam	15 weeks	yes

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓		✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	21 st June 2021	31/10/2021	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction		1		

			Making News: Truth, Ideology and News work				
	2	1	Legacy Media Broadcast Media Overview		1		
	3	1	Broadcast Media Overview		1		
	4	1	Print Publishing Overview		1		
2	5	1	A Comparative Analysis with Electronic Media		1		
	6	1	Contemporary Elements, Dimensions and Image of Print Media		1		
	7	1	News media as business enterprise Types of ownership		1		
	8	1	Proprietary concerns		3		
3	9	2	Organizational Structure		2		
	10	2	Hierarchy		1		
	11	2	Decision making		1		
	12	2	Inter-relationship between departments		1		
4	13	2	Human Resource Specialized training for skilled workers development		1		
	14	2	Financial Management Costing classification and allocation Nature of cost Factors affecting cost • Fixed and variable costs		1		Guest lecture
	15	2	Challenges of Globalization and Liberalisation a) Foreign Direct Investment		1		
	16	2	b) Cross Media Ownership		1		
5	17	2	c) Commercialization of Media		1		

	18	2	Understanding Company Press and Registration of Books Act Law • Relevant aspects of Company Law		2		
	19	3	Resource and supply chain, and marketing techniques.		1		
	20	3	Resource and supply chain <ul style="list-style-type: none"> • Newsprint • Technology • Production process 				
6	21	3	Advertising revenue building and maintenance • Circulation revenue Managing Resources				
	22	3	Ways to cut cost and boost revenue				
	23	3	Marketing techniques				
	24	3	Brand building • Public Relations i. Newspaper's relation to its community ii. Understanding the target audience				Campaign for Print media
7	25	3	iii. Building goodwill iv. Promoting the newspaper's / site's services				
	26	3	Sales promotional activities				
	27	3	Role of research and readership surveys				
	28	3	Sales forecasting and planning				
8	29	3	Advertising the newspaper / website I channel • Becoming a digital media brand				
	30	4	Disruptive Technology and Media Business Models:				
	31	4	The role of advertising				
	32	4	From Web 1.0 to 2.0				
9	33	4	Yahoo, Craigslist,				

	34	4	Google, Facebook,				
	35	4	Twitter, Whats App, Pinterest				
	36	4	Case studies – Eenadu and Network 18				News anchor Creation of Mobile News: 5 one minute news stories or 5 minutes news bulletin
10	37	5	Expansion of Sky Network [Star Network in India]				
	38	5	Channels along with IRS Studies				
	39	5	Relevance of TAM Ratings in News				
	40	5	Revision				
11			Revision				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assign- ments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participati on	Other (2) Specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	News media as business enterprise	CO1	3 rd Week	4 th Week
2	Cost and Profitability	CO2	5 th Week	6 th Week
3	Sales promotional activities • Role of research and readership surveys	CO3	8 th Week	9 th Week
4	From Web 1.0 to 2.0	CO4	11 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (✓)			Module No.	Based on #			Question Type (✓)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓		✓	
2	5	✓			2		✓		✓	
3	8	✓			3		✓		✓	
4	11			✓	4		✓		✓	

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	7 or 8 th Week	1 & 2	1 & 2	Q1 – MCQ - 20 Marks	No IA Re-test
2 nd IA Test					IA is a Head of passing *
Pop Quiz	3rd week	Module 1			
Open Book Test	5th week	Module 2			
Take Home Test					

Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Podcast , News anchoring ,documentary			
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	All	Case lets		1	

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Financial mgmt
2		Industrial Visit	May Be
3	Test and Assessments	Class Tests – (other than IA)	Surprise test
4		Mini Projects	Documentary
5		Pop Quiz	Yes for Module 1
6		Mobile App Based Quiz	yes
7		Open Book Test	Yes
8		Take Home Test	Yes (5 question from each unit)
9	Collaborative and Group Activity	Poster Presentation	Yes
10		Minute Papers	Yes
11		Students Seminar	Maybe
12		Students Debates	Yes
13		Panel Discussion / Mock GD	Yes
14		Mock Interview	Yes
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	yes
16		Value Added Courses	Yes (Podcast)
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Anindita Banerji

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)




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The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To understand tools and techniques of writing and editing.
Affective	What do you want students to think / care about?	To acquaint learners with the art of narration and storytelling strictly within the contours of journalistic principles.
Behavioural	What do you want students to be able to do?	This course should help students to learn how media has become digital from being a printed word on paper.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	As an important segment of newspaper production, editing is a vital function. The syllabus lays stress on language skill improvement .	I
CO2	It aims at orienting students to gain more practical knowledge in the print media scenario. The syllabus encompasses the current trends of digital media as well as writing for e editions of papers.	All
CO3	The syllabus tackles editing from various beats points of view.	II & III
CO4	Editing of editorials, columns, etc is included to acquaint the students about responsible journalism.	IV
CO5	With global media and changing advertising concepts lay-outs in modern times can be imparted.	V

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not

mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	S			S								
CO 2	S											
CO 3					S							
CO 4				S								
CO 5						S						

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1		S		
CO 2	S		S	
CO 3				M
CO 4	S			
CO 5				S

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category			✓				

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
EJWS 1B502	Writing & Editing Skills	75	--	--	3	-	--	3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
EJWS 1B502	Writing & Editing Skills	25	05	Scaled to 15 + 10 Class Participation	75	--	--	--	100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
TYBAMMC (J)	4	N.A	N.A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
TYBAMMC (J)	Pending	Pending	Microsoft Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Tools and Techniques of Editing	08	20%
2	Crisp writing	08	20%
3	Resume writing : Telling your story	08	20%
4	Feature Writing	08	20%
5	Interviews	08	20%
* Insert rows for more modules in the Course		Total	40
			100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	FYBAMMC	Effective Communication Skills-II	Editing, summarizing, precis writing etc.

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	All	Master in Communication & Journalism and Content Writing

2		Content Developer
---	--	-------------------

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	To grasp the most essential and interesting elements of a story and create an impactful narrative.
2	To understand the challenges of creativity of the learner.
3	To acquaint learners with the art of narration and storytelling strictly within the contours of journalistic principles.

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Dec 2021	Dec 2020	Dec 2019
Course Passing % – Average of 3 Divisions	100%	New subject	
Marks Obtained by Course Topper (mark/100)	-		

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1					


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4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.

1	The Editor's Toolbox	Buck Ryan and Michael O' Donnell,	Surjeet Publication		
2	Writing for the Mass Media	James Glen Stovall			
3	The Copyeditor's Handbook	Amy Einsohn	University of California Press, 2011	3rd ed.	
4	The Chicago Manual of Style				

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	The Art of Writing and Speaking the English language	Sherwin Cody			

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1			

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E- Book		Regular	E- Journal			
1		✓						✓	
2		✓						✓	
3		✓						✓	
4		✓						✓	

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://siped.org/tybmm/journo-semester-5/editing/	All

2		
---	--	--

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓		✓		

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	21 st June 2021		13

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site
1	1	1	Subject Induction				
	2	1	Tools & Techniques of Editing (Brevity & Functional Grammar)		CO1		

	3	1	Tools & Techniques of Editing (Word power & Punctuations)		CO1		
2	4	1	Exercise on Tools & Techniques of Editing		CO1		
	5	1	Style book (use of numbers, abbreviations, names & terms)		CO1		
	6	1	Style book (use of numbers, abbreviations, names & terms)				
3	7	1	Activity #1 on Style book		CO1		
	8	1	Revision of Module I		CO1		
	9	2	Finding the right story angle		CO1		
4	10	2	News Sense		CO1		
	11	2	Writing headlines & captions		CO1		
	12	2	Writing leads & intros		CO1		
5	13	2	Podcast & Net cast		CO1		
	14	2	Web writing		CO2		
	15	2	Activity #2 on crisp writing		CO2		
6	16	2	Class Test on Unit I & II		CO1		
	17	3	Building a narrative		CO1		
	18	3	Assimilating facts & details		CO2		
	19	3	Layout & page design		CO1		
7	20	3	Layout & page design		CO2		
	21	3	Activity #3 on pictorial resume		CO2		
	22	3	Credible voice		CO2		
8	23	3	Credible voice		CO2		
	24	3	Revision		CO1		
	25	4	Human interest stories				
9	26	4	Columns (Analytical & interactive)		CO2		
	27	4	Columns (Analytical & interactive)		CO2		
	28	4	Agony Aunt		CO2		
10	29	4	Editorials		CO2		
	30	4	Editorials		CO2		
	31	4	Activity #4 on reviews				
11	32	4	Revision				
	SS	4	Obituaries				
	33	5	Preparing for interviews		CO2		
	34	5	Preparing for interviews		CO2		
12	35	5	Questionnaire		CO2		
	36	5	Protocol & Ethical Issues		CO2		
	37	5	Protocol & Ethical Issues		CO2		
13	38	5	Writing interview copy		CO2		
	39	5	Activity #5 on mock interview		CO2		
	40	5	Class Test on all the units				


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6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Other (1) specify	Other (2) specify	Total
75% Attendance, Active Participation – 10 Marks	-	-			-	IA 1 (Descriptive) - 20 Marks, IA 2 (MCQ + Viva) – 20 Marks		75
						Scaled to 15 Marks		

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Editing of passages	CO1	2 nd Week	3 rd Week
2	Creation of stories	CO1	4 th Week	4 th Week
3	Writing headlines and captions for advertisements	CO1 & 2	5 th Week	6 th Week
4	Prepare a creative resume for print and also an audio-visual version	CO1 & 2	12 th Week	13 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	2nd	<input checked="" type="checkbox"/>			1		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
2	4th	<input checked="" type="checkbox"/>			2		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
3	5th	<input checked="" type="checkbox"/>			3		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

4	12th	<input checked="" type="checkbox"/>			4		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
---	------	-------------------------------------	--	--	---	--	-------------------------------------	--	-------------------------------------

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – *from Points 4.a to 4.d*



8. Internal Assessment / Others Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1st IA Test				Q1 – MCQ - 10 Marks	No IA Re-test
2nd IA Test				Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	IA is a Head of passing *
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			
2					
3					
4					

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5	
6	
7	

9.b Practical Activities – Newly Added Experiments


Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
NA					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
Style Book					

10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Yes
2		Industrial Visit	NA
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	NA
5		Pop Quiz	Yes
6		Mobile App Based Quiz	NA
7		Open Book Test	NA
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	NA
10		Minute Papers	NA
11		Students Seminar	NA
12		Students Debates	NA
13		Panel Discussion / Mock GD	NA
14		Mock Interview	Yes


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15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	Yes
16		Value Added Courses	NA
17		Lecture Capture Usage	Yes

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Rumeli Sharma

Faculty 1 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



Anindita Banerji

Head of Dept. (Sign.)

Teaching Methodology:

The acronym **PPTT** is an effective way to remember some of the main reasons for starting a new paragraph:

Person - e.g. a new person is talking or character is introduced


Place - e.g. if the setting has changed

Topic - e.g. a new topic is explored

Time - e.g. a shift in time has occurred.

**a copy of a well-written text that is laid out in well-structured paragraphs will be provided to students. They will work in groups to identify the reason the author decided to start a new paragraph in each instance.

When students can identify good reasons to start new paragraphs, they will be better able to edit their own work in this regard.


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Version 2021-2022

The academic resources available in VSIT –

VMIS (ERP)	V-Refer and V-Live	VSIT Library	VAC & MOOC Courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break - Enrol for the VACs
Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All textbooks, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To develop an interest and awareness about media laws.
Affective	What do you want students to think / care about?	To learn about the moral issues that afflict the society and the role of media.
Behavioural	What do you want students to be able to do?	To discern the nature of ethics and morality in media and be aware of the legal provisions pertaining to the same.

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To provide the learners with an understanding of laws those impact the media	I, II and III
CO2	To sensitize them towards social and ethical responsibility of media.	IV and V

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												
CO 5												

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’:not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				

CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category				✓			✓

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BAMMC MLE-403	Media Laws and Ethics	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
BAMMC MLE-403	Media Laws and Ethics	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
A	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
A	TBA	TBA	MS Teams

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Constitution and Media	09	20%
2	Regulatory Bodies	10	20%
3	Media Laws	10	20%

4	Media Laws	10	20%
5	Media Ethics and Social Responsibility	09	20%
* Insert rows for more modules in the Course		Total	48
			100%

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/s
1	I	Current Affairs	Polity and governance
2	I	Foundation Course - I	Philosophy and Structure of the Constitution
3	II	Foundation Course - II	Fundamental Rights and duties, Values and Ethics

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	5	Reporting
2	5	Advertising in Contemporary Society

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course
1	Print and Broadcast Journalism
2	Advertising

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Mar 2022	Mar 2021	Mar 2019
Course Passing % – Average of 3 Divisions	100	100	-
Marks Obtained by Course Topper (mark/100)	95	91	-

Year	Division A		Division B		Division C		Division F	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
2021	SU	100%	NA	NA	NA	NA	NA	NA

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future

4 All the Learning Resources – Books and E-Resources

Course Academic Administration Plan Media Laws and Ethics – Semester IV - BAMMC

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4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	<i>Press Laws</i>	Basu, D.D.	Prentice Hall	2005	III and IV
2	<i>Mass Media Laws and Regulations in India</i>	Iyer, V.	AMIC Publication	2000	II and III
3	<i>Media Ethics</i>	Thakurta, P.G.	Oxford University Press	2009	I and V
4	<i>Cyber law in India</i>	Duggal, P.	Saakshar Law Publications	2002	III
5	<i>Advertising Laws and Ethics</i>	P. B. Sawant and P.K. Bandhopadhyaya	Law Publishing Co		V
6	<i>Media Laws</i>	Dr S R Myneni	Asian Law		III and IV

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	<i>Media Laws and Ethics</i>	Saher Rajani	Vipul Prakashan	First 2021	All
2.	<i>Introduction to Media Laws and Ethics</i>	Juhi P Pathak	Shipra Publications	First 2014	I, II, III and IV

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1.					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Module Nos.
1	Economic and Political Weekly	

4.e

Module No.	Category (Please Tick Mark) - √					Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)	
	Book			Magazine	Journals		Y		N
	Text	Reference	E-Book		Regular	E-Journal			
All		✓					✓	<i>Media Laws and Ethics</i> by Saher Rajani, Vipul Prakashan, 2021	

I - IV	✓	✓	Introduction to Media Laws and Ethics by Juhi P Pathak, Shipra Publications, 2014			
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4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
2	PPTs	I - V
3	Graded Questions	I - V

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value-Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓			✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	25/11/2021		

Week No.	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading	
						Lecture No. (on LMS)	Chapter No. / Page Nos. / Books/ Web Site

1	1	1	Refreshing Preamble, unique features of the Indian Constitution		CO1		
	2	1	Article 19 (1) (a)		CO1		
	3	1	Article 19(2)		CO1		
2	4	1	Hierarchy of the courts, Independency of the judiciary		CO1		
	5	1	Legal terminologies		CO1		
	6	1	Social Responsibility Theory		CO1		
3	7	1	Emerging Issues in Social Responsibility Theory in today's era		CO1		
	8	1	Threat of Fake News and facts verification		CO1		
	9	1	Social media decorum		CO1		
4	10	2	Press Council of India: Brief history: Statutory status and Structure		CO1		
	11	2	Press Council of India: Powers and limitations		CO1		
	12	2	Role of Telecom Regulatory Authority of India		CO1		
5	13	2	Role of Telecom Regulatory Authority of India		CO1		
	14	2	Indian Broadcasting Foundation, Broadcasting Content Complain Council		CO1		
	15	2	Broadcasting Audience Research Council		CO1		
6	16	2	Advertising Standard Council of India (ASCI): Mission and Structure		CO1		
	17	2	ASCI: Consumer Complaint Council		CO1		

	18	2	News Broadcasters Association: Structure and Mission		CO1		
7	19	2	News Broadcasters Association: Role		CO1		
	20	3	Copyright and IPR exceptions		CO1		
	21	3	Copyright and IPR: Major Amendments and Case studies		CO1		
8	22	3	Defamation: definition, civil and criminal, exceptions		CO1		
	23	3	Defamation: Case studies		CO1		
	24	3	IT Act 2000, Amendment 2008, Section 66 A and 67		CO1		
9	25	3	IT Act: case studies		CO1		
	26	3	Contempt of Court		CO1		
	27	3	Contempt of Parliament		CO1		
10	28	3	Drugs and Magic Remedies (Objectionable Advertisements) Act,		CO1		
	29	3	Emblems and Names (Prevention of Improper Use) Act		CO1		
	30	4	Right to Privacy: Evolution		CO2		
11	31	4	Right to Privacy a Fundamental Right		CO2		
	32	4	Indecent Representation of Women's Act 19.2, IPC 292 , 293		CO2		

	33	4	Change in perception with time		CO2		
12	34	4	Unfair Trade Practices and the Competition Act 2002		CO2		
	35	4	Unfair Trade Practices and the Competition Act 2002		CO2		
	36	4	Official Secrets Act and Controversies		CO2		
13	37	4	Official Secrets Act: Case studies		CO2		
	38	4	Right To Information Act 2005: Brief History		CO2		
	39	4	Right To Information Act 2005: Current Status		CO2		
14	40	5	What is ethics? And why do we need ethics?		CO2		
	41	5	Code of conduct for journalist Conflict of Interest		CO2		
	42	5	Misrepresentation and Shock Value		CO2		
15	43	5	Post -truth and challenges of fighting fake news		CO2		
	44	5	Techniques of fact verification		CO2		
	45	5	Violation of ethical norms by advertisers		CO2		
16	46	5	Violation of ethical norms by advertisers: Case Studies		CO2		

	47	5	Stereotyping of minorities, women, senior citizens, regions, LGBT		CO2		
	48	5	Stereotyping of minorities, women, senior citizens, regions, LGBT		CO2		

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) specify	Total
						5		5

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
	Assignment questions for each unit	All	Second lecture of each unit	Second lecture of each unit

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week/Lecture No.	Type* (√)			Module No.	Based on #			Question Type (√)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1		✓								✓
2		✓								✓
3		✓								✓

4		✓							✓	✓
---	--	---	--	--	--	--	--	--	---	---

* Tick (✓) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)
Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8. Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test	Week 8			Q1 – MCQ - 10 Marks Q2 – 1 numerical 5 Marks Q3 – 1 numerical 5 Marks 20 marks each for IA 1 & 2	No IA Re-test
2 nd IA Test	-				IA is a Head of passing *
Pop Quiz	Week 6	I and II			
Open Book Test	Week 2	II			
Take Home Test	Week 9	III			
Class tests / prelims	Week 12	I and II			
Class tests / prelims	Week 8				
Any other test/exams	-				

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		NA			

9.c Practical Activities – PBL Experiments

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Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	1	NA			
2	2	NA			


10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Yes
4		Mini Projects	No
5		Pop Quiz	Yes
6		Mobile App Based Quiz	Yes
7		Open Book Test	Yes
8		Take Home Test	Yes
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	
11		Students Seminar	
12		Students Debates	Yes
13		Panel Discussion / Mock GD	Yes
14		Mock Interview	
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	
16		Value Added Courses	-
17		Lecture Capture Usage	

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Lakshmi Pillai
Faculty 1 Name (Sign.)


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External Industry Mentor (Sign.)

External Academic Mentor (Sign.)



Anindita Banerji
Head of Dept. (Sign.)



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Program Educational Objectives (PEO)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	
Program Specific Outcome (PSO)	Class notes and Digital Content for the subject (scanned / typed by faculty)	All text books, reference books, e -books mentioned in the syllabus & AAP	Online courses from NPTEL, Coursera etc. are pursued throughout the semester - Register for the course & get certified
Program Outcome (PO)	Comprehensive question bank, EQ, GQ, PPT, Class Test papers	Technical journals and magazines for reference	
Departmental Knowledge Map	Academic Administration Plan & Beyond Syllabus Activity report	VSIT library is member of IIT Bombay Library	Watch former lectures captured in LMS at VSIT

1.a Course Objectives (write in detail – follow NBA guideline in this regard)

Cognitive	What do you want students to know?	To introduce students to debates in Research approaches and equip them with tools to carry on research.
Affective	What do you want students to think / care about?	To understand the scope and techniques of media research, their utility and limitations.
Behavioural	What do you want students to be able to do?	To understand role of research in media. To analyse the scope and techniques of media research and understand impact of media on society

1.b Course Outcome (CO) Statements and Module-Wise Mapping (follow NBA guideline)

CO No.	Statements	Related Module/s
CO1	To provide adequate basic understanding about media research among the students	Unit 1 & 2
CO2	Understanding the impact of research on media	Unit 2
CO3	Students will be able to understand media and audience analysis	Unit 3
CO4	Help students in understanding the future scope of media research and its role.	Unit 4

1.c Mapping of COs with POs (mark S: Strong, M: Moderate, W: Weak, Dash ‘-’: not mapped)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2												
CO 3												
CO 4												

CO 5												
------	--	--	--	--	--	--	--	--	--	--	--	--

1.d Mapping of COs with PSOs (mark S: Strong, M: Moderate, W: Weak, Dash '-':not mapped)

	PSO 1	PSO 2	PSO 3	PSO 4
CO 1				
CO 2				
CO 3				
CO 4				
CO 5				

1.e Teaching and Examination Scheme (As specified by the University) for the Course

Categories	Mathematics	Computing / IT / Electronics	Humanities & Soft Skill	Social Sciences	Commerce	Management	Multidisciplinary
Tick suitable category							✓

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tutorial	Theory	TW/Practical	Tutorial	Total
BAMMC MMR-404	Mass Media Research	75			3			3

Subject Code	Subject Name	Examination Scheme							
		Theory Marks IA Test			End Sem. Exam Marks	TW	Practical	Oral	Total
		IA 1	IA 2	Sum of IA1 and IA2					
	Mass media research	20	05	25	75				100

1.f Faculty-Wise Distribution of all Lecture-Practical-Tutorial Hours for the Course

Divisions	Lecture (Hrs.)	Practical (Hrs.)				Tutorial (Hrs.)			
		Batch 1	Batch 2	Batch 3	Batch 4	Batch 1	Batch 2	Batch 3	Batch 4
SYBAMMC	3:00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

1.g Office Hours (Faculty will be available in office in this duration for solving students' query)

Division	Day	Time (at least 1 Hr. / Division)	Venue (Office Room No.)
SYBMM	Friday	2:00pm – 3:00 p.m.	MS teams/X-018

2.a Syllabus: Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Introduction to mass media research	12lecs	15
2	Research designs	04	20
3	Data – collection methodology	18lecs	20
4	Content analysis	05	20
5	Application of research in mass media	5 lecs	15
6.	The Semiotics of the Mass Media.	4	10
* Insert rows for more modules in the Course		Total	100

2.b Prerequisite Courses

No.	Semester	Name of the Course	Topic/
1	3	Intro to Media Studies	ALL
2	1	Fundamentals of Mass Communication	

2.c Relevance to Future Courses

No.	Semester	Name of the Course
1	TYBMM	Sem V – Advertising in Contemporary society Sem V- Media planning and Buying Sem Vi- Advertising and media research
2	MBA/MMM	Specialisation in Advertising Event Management
3	MAEMA	Advertising Media research

2.d Real Life Application Mapping – Mention Application from Very Common Day to Day Life

No.	Real Life Application Mapping with the Course

1	In field of Ad agency
2	Media

3. Past Results – Division-Wise and Topic-Wise Result Based Analysis

Details	Target - Mar 2019	Mar 2018	Mar 2017	Mar 2016
Course Passing % – Average of 3 Divisions	100%	98.18		
Marks Obtained by Course Topper (mark/100)	88%	89.5		

Year	Division A		Division B		Division A	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result
Mar 2021	ABB	100				
					NA	NA

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
	1	Assignment & diagrams, Practical examples, case study

4 All the Learning Resources – Books and E-Resources

4.a List of Text Books (T – Symbol for Text Books) to be Referred by Students

Sr. No	Text Book Titles	Author/s	Publisher	Edition	Module Nos.
1	. Research Methodology;	Kothari: Wiley Eastern Ltd	: Wiley Eastern Ltd		All
2	Mass media research	Prof. Kishwar Panna	Himalaya		All

4.b List of Reference Books (R – Symbol for Reference Books) to be Referred by Students

Sr. No	Reference Book Titles	Author/s	Publisher	Edition	Module Nos.
1	A Handbook Of Social Science Research	Dixon, Bouma, Atkinson	OUP	3	2
2	Analysing Media Message:	Reffe, Daniel; Lacy, Stephen And Fico,	Lawrence Erlbaum associates.	1	4

		Frederick (1998)			
3	Media Research Methods	: Gunter, Brrie; (2000);	Sage	1	3
4					
5					

4.c List of E - Books (E – Symbol for E-Books) to be Referred by Students

Sr. No	E- Book Titles	Author/s	Publisher	Edition	Module Nos.
1	9.pdf (euacademic.org)	Dr. Prabhat Pandey Dr. Meenu Mishra Pandey			
2					

4.d Web Links and Names of Magazines, Journals, E-journals – [VIT is member of IIT Bombay Library]

Refer online journals subscribed in VIT library. You can also access IIT Bombay online library for journals from IITB campus.

Sr. No	Web-Links and Names of Journals and E-Journals Recommended to Students for this Course	Web-Links and Names of Magazines Recommended to Students for this Course	Module Nos.
1	International journal on Marketing and trade policy	Advertising Age	All
2	Journal of management – Available in Library	Campaign India	All
3	International journal on Marketing and research		

4.e Module Best Available in - Tick the best resource [from 4.a to 4.d in this AAP] & give details

Module No.	Category (Please Tick Mark) - √						Available In VSIT Library?		Details of the Resource (i.e. Name, Chapter & Page No., etc.)
	Book			Magazine	Journals		Y	N	
	Text	Reference	E-Book		Regular	E-Journal			
1	✓	✓							Unit 1-4
2	✓	✓							Unit 1-4
3	✓	✓							Unit 1-4
4	✓	✓							Unit 1-4

4.f Web Links for Online Notes/YouTube/VSIT Digital Content/VIT Lecture Capture/NPTEL Videos

Students can view lectures by VSIT professors, captured through LMS 'Lecture Capture' in VIT campus for previous years.

No.	Websites / Links	Module Nos.
1	https://www.youtube.com/watch?v=RQChgmWhQ-0&ab_channel=cec	1-4
2	https://www.youtube.com/watch?v=w_Ujkt83i18&ab_channel=ArpitaKarwa	2
3		1
4		3
5		

4.g Recommended MOOC Courses like Coursera / NPTEL / MIT-OCW / edX etc.

Sr. No.	MOOC Course Link	Course conducted by – Person / University / Institute / Industry	Course Duration	Certificate (Y / N)
1	https://alison.com/course/data-journalism-and-media-standards-revised Data Journalism and Media Standards	NPTEL	1 week	y

4.h Recommended Value Added Courses (VAC)

Sr. No.	Name of the Value Added Course	Conducted by – Person / Institute / Industry	Course Duration	Certificate (Y / N)
1				

4.i Study Material Distributed among Students

Tick if distributed among students					
GQ	Notes	Digital Content	PPT	EQ (updated till the Last Exam)	Other (Write Details)
✓	✓	✓	✓	✓	

5. Consolidated Course Lesson Plan

	From (date/month/year)	To (date/month/year)	Total Number of Weeks
Semester Duration	22/11/21	28/02/2022	15

Week	Lecture no.	Module No.	Lecture Topics / IA 1 and IA 2 / BSA planned to be covered	Actual date of Completion	COs	Recommended Prior Viewing / Reading

						Lecture No. (on LMS)	Chapter No. / Page Nos./ Books/ Web Site
1	1	1	Introduction (Syllabus)			1	
	2	1	Relevance, Scope of Mass Media Research			1	
	3	1	Role of research in the media I	10		1965	
2	4	1	Steps involved in the Research Process Qualitative Research			1	
	5	1	Quantitative Research			1	
	6	1	Discovery of research problem			1	
3	7	1	identifying dependent and independent variables			2	
	8	1	developing hypothesis			1	
	9	1	revision			1	
4	10	1	Unit test 1			1	
	11	2	Research designs Concept, types and uses				
	12	2	Research Designs: Exploratory			1	
5	13	2	Descriptive and Causal			1	

	14	3	Data – collection methodology a. Primary Data – Collection Methods I. Depth interviews		1	
	15	3	II. Focus group		1	
6	16	3	III. Survey		1	
	17	3	IV. Observations		1	
	18	3	v. Experimentation		1	
7	19	3	Secondary Data Collection Methods Literature review		1	
	20	3	Designing Questionnaire Types and basics of questionnaire		1	
	21	3	types and basics of questionnaire		1	
8	22	3	Projective techniques		1	
	23	3	Attitude measurement scales		1	
	24	3	Sampling process (assignments)		3	
9	25	3	Data Tabulation GL by Dr. Lakshmi Kavitha (CAO)		1	

	26	3	Internal test		3		
	27	4	Content analysis Definition and uses		3		
10	28	4	Quantitative approach		1		
	29	4	Qualitative approach		1		
	30	4	Steps in content analysis		2		
11	31	4	Presentations		1		
	32	4	Devising means of a quantification system		1		
	33	4	Limitations of content analysis	New media	2	06	
12	34	4	Application of research in mass media				
	35	4	Presentations		4		
	36	5	Readership and Circulation survey		4		
13	37	5	TRP		1		
	38	5	RRP		1		
	39	5	Audience Research		1		

14	40	5	Exit Polls				
	41	5	Advertising Consumer Research				
	42	6	The Semiotics of the Mass Media.				
15	43	6	a.What is semiotics in media				
	44	6	b. Why is semiotics important?				
	45	6	c.What are codes in semiotics?				
16	46	6	d. Semiotics and media				
	47		Revision				
	48		Revision				

6. Rubric for Grading and Marking of Term Work (inform students at the beginning of semester)

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Class Tests (Other than IA)	Class participation	Other (2) Specify	Total

7. Assignments / Tutorials Details (must attach print out of all questions together with AAP)

Assignment No.	Title of the Assignments / Tutorials	CO Map	Assignments given to Students on	Date of Submission
1	Research designs Concept, types and uses	CO1	3 rd Week	4 th Week
2		CO2	5 th Week	6 th Week

	Quantitative and Qualitative approach Quantitative and Qualitative approach			
3	Mini project	CO3	8 th Week	9 th Week
4		CO4	11 th Week	12 th Week

Analysis of Assignment / Tutorial Questions and Related Resources

Assignment No.	Week No.	Type* (v)			Module No.	Based on #			Question Type (v)	
		R	UQ	OBT		Text Book	Reference Book	Other Learning Resource	MU EQ	Thought Provoking
1	3	✓			1		✓		✓	
2	5	✓			2		✓		✓	
3	8	✓			3		✓		✓	
4	11			✓	4		✓		✓	

* Tick (v) the Type of the Assignment: Regular (R); Unannounced Quiz (UQ) ; Open Book Test for TY/SY/MASTERS (OBT)

Write number for Text book, reference book, other learning resource from this AAP – from Points 4.a to 4.d

8.

Internal Assessment / Other Class Test / Open Book Test (OBT)/Take Home Test (THT) Details

Tests	Test Dates	Module No.	CO Map	IA Question Paper Pattern	Policy
1 st IA Test		1 & 2	1 & 2	Q1 – MCQ - 40 Marks Mini project-20 marks Mid- term test -20 marks	No IA Re-test IA is a Head of passing *
2nd IA Test					
Pop Quiz					
Open Book Test					
Take Home Test					
Class tests / prelims					
Class tests / prelims					
Any other test/exams					

* IA failures will have to appear for re-test in next semester

9.a Practical Activities – Regular Experiments

Practical No.	Module No.	Title of the Regular Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

9.b Practical Activities – Newly Added Experiments

Practical No.	Module No.	Title of the Newly Added Experiments	Concepts to be highlighted	CO Map	Audit / Quality Rate (0 to 4)
1		Mini Research on different topics			
2					

9.c Practical Activities – PBL Experiments

Practical No.	Module No.	Title of the PBL Experiments	Concepts to be highlighted	CO Map	Audit / Quality (0 to 4)
1	All	Case lets		1	

2	2			3	
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10. Beyond Syllabus Activities for Gap Mitigation

No.	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	Interaction with Outside World	Guest Lecture / Workshops	Research analysis
2		Industrial Visit	
3	Test and Assessments	Class Tests – (other than IA)	Internal tests
4		Mini Projects	yes NA
5		Pop Quiz	Yes
6		Mobile App Based Quiz	NA
7		Open Book Test	Yes
8		Take Home Test	Yes (5 question from each unit)
9	Collaborative and Group Activity	Poster Presentation	
10		Minute Papers	yes
11		Students Seminar	yes NA
12		Students Debates	Yes
13		Panel Discussion / Mock GD	Yes
14		Mock Interview	Yes NA
15	Co-curricular Courses	MOOC-NPTEL/Coursera Videos	NYESA
16		Value Added Courses	
17		Lecture Capture Usage	NYesa

*** Do not delete any activity. Give details for planned events. Write 'NA' for activity Not Planned.**

Consolidated Academic Administration Plan Prepared by (mention all theory teaching faculty names with signature)

Anindita Banerji

Faculty 1 Name (Sign.)

Faculty 2 Name (Sign.)

Faculty 3 Name (Sign.)

External Industry Mentor (Sign.)

External Academic Mentor (Sign.)


Dr. Lakshmi Kavitha



VSIT Cluster Mentor Name (Sign.)

Head of Dept. (Sign.)

Course Academic Administration Plan – BAMMC-Advertising – Semester IV


Principal
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