

Program Name	Program Outcome
B. Sc. (Information Technology)	 PO1: To develop the necessary analytical abilities for developing computer- based solutions for reallife problems. PO2: To inculcate quality practices in Information Technology solutions development. PO3: To imbibe professional skills in students for their future roles. PO4: To prepare necessary knowledge base for potential research and development in InformationTechnology. PO5: To help students' build-up a successful career in Information Technology and allied fields.





Program Name and	Bachelor of Science in Information Technology (B. Sc. IT)
Semester	Semester -I

Course Name	Course Outcome
Programming	CO1: Understand the logic building by using algorithm and flowchart.
Principles with C	CO2: Demonstrate the use different Operators, Expressions, Data Input and
	output functions in C programming.
	CO3: Apply conditional, looping statement and functions in various
	problems.
	CO4: Understand how to use Arrays and different storage classes.
	CO5: Demonstrate the concept of pointers and implement various real-life applications by using structure.
	C06: Develop confidence for self-education and skills required for
	computer language
Digital Logic and	CO1: Students will be able to understand and examine the structure of
Applications	various number systems and its storage and application in computer system.
	CO2: Students will be able to identify basic requirements for a design
	application and formulate most suitable solution.
	CO3: Students will be able to understand, analyse and design various
	combinational circuits.
	CO4: Students can identify and prevent various hazards and timing
	problems in a sequential circuit design.
	CO5: Students will be able to apply various algorithms for designing digital
	circuits.
Fundamentals of	CO1: To understand the basics of data & database, different model of
Database Management	representing data.
Systems	CO2: To understand the conceptual design & modelling it as per the project
Systems	requirements.
	CO3: To construct the database and normalize to make it fully relational
	considering dependencies.
	CO4: To understand how to retrieve data using a query language.
	CO5: To learn about transaction and concurrency control for better
	extraction of the data from a database.
Computational	CO1: Students will be able to understand set theory concept and apply
Logic and	various methods to find discrete probabilities.
Discrete	CO2: Students will understand the meaning of Recursive function and
Structures	methods to solve such functions.
	CO3: Students will be able to differentiate between functions and relations.
	CO4: Students will be able to apply basic and advanced principles of
	counting.
AL HEAD	CO5: Students will be able to understand the concepts of Graphs and trees
AN AND AND AND AND AND AND AND AND AND A	and their applications in computers.
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Course Name	Course Outcome
Technical Communication Skills	 CO1: To introduce aspects of communication essential for business communication. CO2: Train learners in written aspects of organizational communication i.e., business messages anddocuments requisite for career building. CO3: To enhance learners' oral communication and prepare them for business interviews and professional group communication. CO4: To familiarize them with specific communication needs of an organization. CO5: To enable use of ICT and communication aids.





Program Name and	Bachelor of Science in Information Technology (B. Sc.IT)
Semester	Semester -II

Course Name	Course Outcome
Object Oriented	CO1: Differentiate between POP and OOP.
Programming	CO2: Build C++ application programs using OOP principles and
	proper program structuring.
	CO3: Demonstrate the concepts of polymorphism.
	CO4: Implement Inheritance and learn code reusability.
	CO5: Design Templates and File Handling.
Fundamentals of	CO1: To understand 8085 Microprocessor Architecture, pin diagram
Microprocessor and Microcontrollers	and pin functions of IC 8085. And the difference between microprocessor and CPU.
wherecontrollers	•
	CO2: To increase Students' proficiency in assembly language.
	CO3: To get practical experience in programming.
	CO4: To know how to work with microcontrollers and to learn 8051
	Microcontroller.
	CO5: To control computer system components through hardware and
	software interrupts.
Numerical Methods	CO1: Understand various Engineering problems, several types of errors
	which occur in real lifeand representation of any function as a series of non-linear coefficients.
	CO2: Determine the roots of any polynomial and estimate the future as
	well as intermediatevalue depending on the pre-requisite values (Past
	values).
	CO3: Determine the solution of multiple equations and integrate any
	linear or non-linear functions within the given intervals.
	CO4: Prediction of the future values depending on the present as well as past values and tooptimize the given situation.
	CO5: Mapping of a given event into another domain and understanding
	several types of distribution to be used in probability.
Web Applications	CO1: To understand various terminologies of Internet, simple
	application of HTML5.
	CO2: To design web pages using advanced HTML5.
	CO3: To design dynamic web pages using JavaScript.
	CO4: To develop simple, responsive web pages using PHP.
ST V WIRE	CO5: To build web pages using PHP & MySQL.
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Course Name	Course Outcome
Green IT	 CO1: To understand the relation and impact of environmental perspectives and IT. CO2: To use the methods and tools to measure energy consumption. CO3: To evaluate the effectiveness of IT use in relation to environmental perspectives. CO4: To select the hardware and software can facilitate a more sustainable operation. CO5: To use and give an account of standards and certifications related to sustainable IT products.





0	Bachelor of Science in Information Technology (B. Sc.IT)
Semester	Semester -III

Course Name	Course Outcome
Applied Mathematics	CO1: Matrices will help to calculate the various image transformations that are done.
	CO2: The equation of First Order and second order differential
	Equation can describe exponential growth and decay, the population growth of species or the change in investment return over time. CO3: Implementation of Laplace Transformation will help to understand how various analogue and digital signal conversions are
	done. CO4: Multiple Integration will help to calculate the surface area and
	volume of any real-life objects. CO5: Error functions will help to calculate the accurate error from true and observed value.
Computer Networks	CO1: To recognize the purposes and association between the OSI layers, different types of signals and their mechanism of understanding each of them.
	CO2: To understand types of multiplexing schemes, transmission media and functions of datalink layer.
	CO3: Identify the network devices working at various layers, media access layer and protocols.
	CO4: To implement switching and routing algorithms like RIP, OSPF etc. and addressing schemes.
	CO5: To decide the right client server protocols to be used in the real- life scenario.
Python Programming	 CO1: To develop small applications using basic concepts, values & expressions, various control & conditional statements, and Looping. CO2: To use and implement built-in functions and User defined Functions along with different string methods. CO3: To use new datatypes such as Lists, Tuples, and dictionaries, Create and handle Exceptions and how to deal with files. CO4: To create classes and objects, implement use of regular
	expression and multithreaded programming. CO5: To develop GUI applications with database connectivity.
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Course Name	Course Outcome
Data Structures	CO1: Understand how arrays can be efficiently used to store linear sets
	of similar type of data and performvarious operations like searching,
	sorting, merging, reversing etc.
	CO2: Interpret Linked List data structure to store data in non-linear form for effective utilization of memory, to solve problems like polynomial equations.
	CO3: Design stack and queue data structures and learn basic
	operations to be performed. Solve various problems using stacks
	and queues.
	CO4: Apply various sorting and searching techniques on arrays and
	to create several types oftrees and their applications like Huffman
	Algorithm, binary search tree etc.
	CO5: Understand Hashing techniques including collision techniques and to study graphs and their different operations and its traversals.
Operating Systems	CO1: To learn about operating systems and its evolution and also about the process and its creation and termination understand
	CO2: To demonstrate the concept of threads and multithreading and to
	know what concurrency and mutual exclusion is
	CO3: To implement deadlock detection techniques in sums Unit 3
	CO4: To demonstrate the concept of memory management using Paging and segmentation.
	CO5: To be able to compare several types of operating systems.





Program Name and	Bachelor of Science in Information Technology (B. Sc.IT)
Semester	Semester -IV

Course Name	Course Outcome
Introduction to	CO1: Understand the basic concepts of embedded systems.
Embedded	CO2: Familiarize with characteristics and attributes of embedded
Systems	systems.
	CO3: Demonstrate knowledge and understanding of hardware software
	co design techniques for microcontroller based embedded systems.
	CO4: Program microcontrollers in C using IDE and debugging
	techniques.
	CO5: Design, Development, and planning of embedded systems-based
	projects.
Computer	CO1: To provide an overview of the Computer Graphics field. To
Graphics and	describe the importantinput & output graphics devices. To understand
Animation	applications of Computer Graphics, different Scanning techniques.
Ammation	CO2: Develops theory of 2D, 3D transformation and describes several
	types of 2D, 3Dtransformations.
	CO3: Learning the basics of 3D Viewing & projections, basics of lights
	and color.
	CO4: To compare different algorithms for removal of hidden lines and
	surfaces. It tells how todesign and smooth surfaces.
	CO5: To Interpret the overviews of animation along with its types and
	techniques.
Computer Oriented	CO1: Able to summarize the information present in the given data set
Statistical	and gives an ideaaround which value the data observation is clustered.
Techniques	CO2: Understand the complementary relationship of skewness with
reeninques	measures of centraltendency and dispersion in describing a set of data.
	CO3: To be able to infer information about a population from samples
	drawn from it. And, to make decisions about populations based on
	sample information.
	CO4: To determine whether the difference between the observed and
	expected values is statistically significant.
	CO5: Able to identify the strength and direction of a linear relationship
	between two variables using correlation and to predict how much a
	dependent variable changes based on adjustments to an independent
	variable using regression.
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Core Java	CO1: To learn program structure and basic concepts of java.
	CO2: To understand and apply OOP techniques to solve real world
	problems.
	CO3: To use and create packages and interfaces in a Java program.
	CO4: To implement Multithreading & exception handling techniques
N WAS	in java.
	CO5: To design GUI application using Abstract Windows Toolkit.
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Course Name	Course Outcome
Software Engineering	 CO1: To learn basic concepts related to requirement engineering, different softwaredevelopment models, SRS document. CO2: To understand types of critical systems and learn about system models. CO3: To design and manage the software, different software architectural styles. CO4: To Verify and validate software and to estimate the cost of software. CO5: To learn about process improvement and diverse types of software engineering.

