

MIND-QUENCH IN QUARANTINE WEBINAR SERIES

Date:	4 th May to 8 th May 2020
Time:	Day-1 to Day-4: 11:00am to 12:00pm Day-5: 2:00pm to 3:00pm
Platform:	Microsoft Teams
Organised By:	IEEE-VSIT Student Branch
Faculty in charge:	Dr. Sarika Chouhan (Branch Counselor, IEEE-VSIT SB) Ms. Ketaki Ghawali (Branch Mentor, IEEE-VSIT SB) Ms. Seema Bhatkar (Branch Mentor, IEEE-VSIT SB)

Moving in the Lockdown 3.0, the **IEEE-VSIT Student Branch** organized a 5-day webinar series **MIND QUENCH** (May 4 to May 8, 2020) with five profound speakers who enlightened everyone on interesting topics in the industry about new-age technology with future inventions being at the heart of it. The event saw a diverse pool of attendees each day which were **150+** in number with students and faculty from VSIT and **34** other institutes, including institutes from outside Maharashtra.

Day 1

The first day of the event was commenced by **Dr. Sarika Chouhan** (Branch Counselor, IEEE-VSIT SB) introducing the guest speaker for the event– **Mr. Abhay A. Phansikar** (Director-Strategy, Azilen Technologies, and Chairperson of IEEE Bombay Section) and his topic “**AI & ML: Introduction, Use cases, Applications**”. All the attendees were addressed by Mr. Phansikar and cordially welcomed to the event. He

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Mind-Quench
IN QUARANTINE

WEBINAR SERIES
4th - 8th May 2020

Mr. Abhay Phansikar
Director - Strategy,
Azilen Technologies
4th May, 11:00 AM - 12:00 PM
**AI & ML:
INTRODUCTION,
USE CASES,
APPLICATIONS**

Dr. B. Sanyanarayana
Scientific Officer (H), TIFR, Mumbai
5th May, 11:00 AM - 12:00 PM
**WHY AND HOW TO
DO UNDERGRADUATE
RESEARCH IN
AN ACADEMIC
INSTITUTION**

Dr. Saurabh Mehta
Chief Academic Officer - VIT
6th May, 11:00 AM - 12:00 PM
**MY EXPERIENCE
WITH IOT**

Dr. Irfan Landge
Dean of Academic affairs, MHSSCE,
SMIEEE, FIETE
7th May, 11:00 AM - 12:00 PM
**ROLE OF CLOUD
COMPUTING IN
INTERNET OF
THINGS (IOT)**

Mr. Kiran Talele
Associate Prof. - Electronics Engg,
Sardar Patel Institute of Technology
8th May, 2:00 PM - 3:00 PM
**EMOTION
DETECTION USING
FACIAL
EXPRESSION
RECOGNITION**

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started by taking the attendees through the science and engineering of Artificial Intelligence, the importance of Robotic Processing Automation (RPA) in AI and its uses. Mr. Phansikar then covered applications of AI in the day to day activities, the different types of bots, and also spoke about natural language processing. The explanation was followed by a Q&A round carried out by Dr. Sarika, wherein the speaker answered questions posed by the attendees. Mr. Phansikar was successful in giving the young minds a brief about the industry in the short span of time. The event was brought to its conclusion by Vinayak Iyer (General Secretary, IEEE-VSIT SB) presenting a vote of thanks to the speaker and audience.

Day 2

On the second day, commencement of the webinar was done by **Ms. Ketaki Ghawali** (Branch Mentor, IEEE-VSIT SB), she welcomed the participants and then introduced the guest speaker– **Dr. B. Satyanarayana** (Scientific Officer (H), Tata Institute of Fundamental Research, Mumbai, and Secretary of IEEE Bombay Section) and his topic **“Importance of Undergraduate Research in an Academic Institution”**. All the attendees were addressed by Dr. Satyanarayana and cordially welcomed to the event. The speaker emphasised on the benefits of writing research papers early in a student’s academic journey; understanding a subject, using known facts to solve a problem, and making an original contribution to that discipline. Dr. Satyanarayana structured his talk in a very comprehensive manner: starting from how a child would/would not develop liking for a subject at school till the reviewing process of research papers. He covered a wide range of topics which included how an individual should choose a research topic, how researches can be carried out with minimal infrastructure using mathematical modelling which is purely based on mathematical concepts and calculation, and more. Dr. Satyanarayana concluded by showing how researches at the undergraduate level can pave way for future’s big inventions in India as well other parts of the world. This was followed by the Q&A round anchored by Dr. Sarika. The event was then brought to its conclusion by Siddhi Ghorpade (Vice Chair, WIE Affinity Group of IEEE-VSIT SB) presenting a vote of thanks to the speaker and audience.

Day 3

The third day of event began with a warm welcome by **Dr. Sarika Chouhan** who also introduced the guest speaker for the event– **Dr. Saurabh Mehta** (Chief Academic Officer- Vidyalkar Institute of Technology, Mumbai, and TPAC Chair, IEEE Bombay Section) and his topic **“My Experience with IoT”**. **Dr. Rohini Kelkar** (Principal, Vidyalkar School of Information Technology) felicitated the speaker and welcomed him to begin the webinar. Dr. Mehta explained the basics of IoT with the audience and shared knowledge from his experience of building various projects in this domain. **“IoT is now Ubiquitous and no more science fiction”**, quoted the speaker. He spoke about the applications which included sensor devices that are widely available, how people connect to Things and also Things connecting to each other, and Wireless Sensor Networks (WSN). He continued naming a few of his works– battery monitoring systems, inventory control, predictive maintenance and home automation, giving examples of applications that can be built and how in brief. He then answered questions submitted by attendees in the Q&A session carried out by Dr. Sarika. Dr. Mehta gave the young minds a brief about the importance of this industry in short span of time also touching upon its future potential. The event was brought to its conclusion by Arya Samarth (Chairperson, IEEE-VSIT SB) presenting the vote of thanks to the speaker and audience.

Day 4

Fourth day of the event was commenced by **Ms. Seema Bhatkar** (Branch Mentor, IEEE-VSIT SB) introducing the guest speaker for the event– **Dr. Irfan Landge** (Dean of Academic Affairs, M.H. Saboo Siddik College of Engineering, SMIEEE, FIETE) and his topic “**Role of Cloud Computing in Internet of Things (IoT)**”. **Mr. Asif Rampurawala** (Vice Principal, Vidyalankar School of Information Technology) felicitated the speaker after which the webinar begun. After welcoming and addressing the attendees briefly, Dr. Landge began by explaining what IoT really does and what is its meaning, role of cloud computing in IoT and how Cloud-based IoT is more advantageous and powerful as a technology. Dr. Landge then compared traditional IoT with the new Cloud-based IoT and discussed the various ways in which they differ, conveying to the audience how Cloud-based IoT is very efficient, saves time, money, energy, is best for analytics, readily accessible & that it’s a convergence that is leading to a more promising future with exciting projects. He then answered questions, which were posed by the attendees, in the Q&A session carried out by Dr. Sarika. The event was brought to its conclusion by Khushi Sharma (Vice Chair, IEEE-VSIT SB) presenting a vote of thanks to the speaker and audience.

Day 5

On the final day of the event, **Ms. Ketaki Ghawali** welcomed everyone and introduced the guest speaker for the event– **Mr. Kiran Talele** (Associate Prof in Electronics Dept. at SPIT, and SAC Chair, IEEE Bombay Section) and his topic “**Emotion Detection using Facial Expression Recognition**”. All the attendees were addressed by Mr. Talele and cordially welcomed to the event. Mr. Talele explained what is facial expression detection, how to recognise different types of facial expressions which involved the use of training sets, test sets, image pre-processing, face detection, normalization & Feature Vector extraction. He then explained about feature extractions which had two ways of approach, LBP (Local Binary Patterns) feature descriptor, FER (Facial Expression Recognition) Algorithms for Facial Expression Detection & Classification and explained the algorithms in detail before finishing his talk. Mr. Talele then responded to the questions in the Q&A session executed by Ms. Seema Bhatkar.

Towards the conclusion of the 5-day event, Vighnesh Prabhu (Treasurer, IEEE-VSIT SB) invited Dr. Vinit Kotak (Vice-Principal, Shah & Anchor Kutchhi Engineering College, and Vice-Chair, IEEE Bombay Section) and Mrs. Megha Kolhekar (Associate Professor at Fr. C. Rodrigues Institute of Technology, Vashi) both regular attendees, who shared their experience of the Webinar Series, and appreciated the professional conduct of the organizing team. Post this Dr. Rohini Kelkar – Principal, VSIT addressed the audience, and lauded the efforts taken by the IEEE-VSIT team to organize the Webinar Series.

Dr. Sarika Chouhan (Chief Academic Officer, VSIT, and Branch Counselor, IEEE-VSIT SB) then concluded the event by expressing gratitude to the college, speakers of IEEE Bombay Section, participants, team of IEEE-VSIT SB – everyone who contributed to the success of the Webinar Series.



