IEEE BOMBAY SECTION

IEEE-TCET Student Branch
IEEE TCET
Student Branch code : 41490581
www.ieee-tcet.net

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

IEEE Bombay Section

IN ASSOCIATION WITH

Vidyavardhini's College of Engineering & Technology,
M.H. Saboo Siddik College of Engineering, Finolex Academy of Management and Technology,
IEEE Bombay Section Educational Activities Committee,
IEEE Bombay Section Membership Development Committee
and IEEE Bombay Section Students Activities Committee

PRESENTS

One Week Online Faculty Development Programme (FDP)

ON

Recent Tools for Integration of Smart Systems

06th June to 11th June, 2022

Coordinator
Dr. Sujata Alegavi
Assistant Professor, TCET

Co-cordinator
Mrs. Archana Deshpande
Assistant Professor, TCET

Registration:
IEEE Members: Free
Non- IEEE Members: 100/-
Prior Registration is Mandatory

IEEE BOMBAY SECTION Student Activities Committee

IEEE BOMBAY SECTION Membership Development Committee

IEEE BOMBAY SECTION Educational Activities Committee

Register: https://forms.gle/oMZgcXemA4QwyA1C9
Contact No. : Dr. Sujata Alegavi : 9819527712
Mrs. Archana Deshpande : 9820448939

About TCET:

Thakur College of Engineering & Technology (TCET), an autonomous and linguistic minority Institute, was established in AY 2001-02 with a clear objective of providing quality technical education in tune with international standards and contemporary global requirements. TCET offers 9 UG, 3 PG and 3 Ph.D. (Tech.) programmes. College is ISO 9001:2015 certified. ISO Certification since A.Y. 2005-06 has helped Institute to develop a process driven student centric system required for quality education in 21st century. As a result Institute is accredited by NAAC with "A" grade for five years and programmes are accreditated by NBA for three Years.

ABOUT VCET:

Vidyavardhini Society was established as a registered society in 1970 by Late Padmashri H. G. alias Bhausaheb Vartak for the noble cause of education in rural areas. Vidyavardhini Society received approval from AICTE to start the new college of Engineering & Technology with effect from July 1994. The Institute is affiliated to the University of Mumbai for the four-year degree program leading to the Degree of Bachelor of Engineering. The Institute is accredited by NAAC. Four programs of the institute are also accredited by NBA for period of three years from 2022 to 2025.

ABOUT MHSSCOE:

The college was established with a definite mission to disseminate a value-oriented quality technical education among youth to fulfill the increasing demand of human resources for the ever-growing engineering industry of the nation, which it has truly proved to the core. M.H.Saboo Siddik College of Engineering has played a pivotal role in shaping and molding a majority of the lot since many years in the past. It is one such destination to make you realize your dream to become a good engineer and help the nation grow. It has many gems in its crown in the form of its passed out students holding high positions in many globally recognized companies in India and abroad.

ABOUT FAMT:

FAMT secured 23rd Rank among West Zone Private Engineering colleges in India - Aug 21 FAMT ranked 77th in Top 100 Private Engineering Institutes in India by OUTLOOK -ICARE Professional College Survey 2021 FAMT is awarded Outstanding Engineering Institute (West) Award of the Year 2021 in the prestigious Zee Digital Edufuture Excellence Awards 2021 India Today Best Engineering Colleges 2021 rankings are out and FAMT secured 160th rank at all India level

Programme Chair

Dr. B. K. Mishra - Principal, TCET

Programme Co - Chair

Dr. Harish Vankudre - Principal, VCET

Dr. Ganesh Kame - Principal, MHSSCOE

Dr. Kaushal Prasad - Principal, FAMT

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Dr. Saurabh Mehta, Secretary, IEEE Bombay Section

Dr. Kiran Talele, Treasurer, IEEE Bombay Section

Dr. Anand S Gharpure, Chair Elect, IEEE Bombay Section

Dr. Lochan Jolly, EAC Chair, IEEE Bombay Section

Dr. Sunayana Jadhav, EAC Vice-Chair, IEEE Bombay Section

Dr. Prachi Palsodkar, EAC Advisor, IEEE Bombay Section

Mr. Sandeep Ushkewar, EAC Secretary, IEEE Bombay Section

Ms. Sukruti Kaulgud, EAC Treasurer, IEEE Bombay Section

Ms. Rushali Thakkar, EAC Member, IEEE Bombay Section

Programme Monitoring Committee

Dr. Payel Saha - Professor & HOD E&TC

Dr. S.C. Patil - Associate Professor & HOD ELEX

Dr. Siddhesh Doddametikurke - Professor & HOD MECH

Dr. Vikas Gupta - HOD (VCET)

Dr. Jillani Sayyad - HOD (MHSSCOE)

Dr. Vinayak A. Bharadi - HOD (FAMT)

Programme Organising Committee

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Dr. Hemant Kasturiwale - Associate Professor & Dy. HOD (ELEX)

Mr. Rajeshwar Deshmukh - Assistant Professor & Dy. HOD (MECH)

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IEEE-TCET Student Branch

IEEE TCET

Student Branch code : 41490581

www.ieee-tcet.net

Presents

One Week Online Faculty Development Programme (FDP)

on

Recent Tools for Integration of Smart Systems

Date : 06th June (Mon.) to 11th June 2022(Sat.)

Sponsored by

IEEE BOMBAY SECTION

in collaboration with

IEEE BOMBAY SECTION Student Activities Committee

IEEE BOMBAY SECTION Membership Development Committee

IEEE BOMBAY SECTION Educational Activities Committee

Co-ordinator

Dr. Sujata Alegavi

Assistant Professor - ELEX

Co-coordinator

Mrs. Archana Deshpande

Assistant Professor - E&TC

About The Programme:

The aim of this Faculty Development Programme (FDP) is to train faculty members about recent tools to integrate software and hardware system components. This FDP will enhance the knowledge about hardware integrated system components in different applications of Mechatronics, Communications and Automation related domains which will ultimately ensure academic excellence.

The goal of this FDP is to provide hands-on experience on IoT, PLC/SCADA and Beagle bone kits.

Objectives:

The objectives of this FDP are:

1. To impart theoretical knowledge of different sensors for various remote sensing applications.
2. To provide training on hardware platform (Kits) for rapid prototyping
3. To provide hands-on training on monitoring and controlling equipment in process automation.
4. To provide training to test products designed either in product design validation or in manufacturing test.

Expected Outcomes:

After completion this course, participants should be able to:

1. Understand use of remotely located sensors and use of data downloaded using them for various applications in academia.
2. Integrate hardware and software for IoT projects using Texas and Beagle bone IoT Kits.
3. Use PLC/SCADA software for monitoring and controlling equipment in process automation.
4. Conduct projects using LabView software to validate the project before manufacturing.

Registration:

The Registration is free for **IEEE** Members and Rs. 100/- for non **IEEE** Members Participants are requested to click on the link or scan the QR Code & register.

https://forms.gle/oMZgcXemA4QwyA1C9

Electronic Transfer Details:

Bank Name: Pratap Co.Op. Bank Kandivali (E)

A/C No.: 002010000412734,

IFSC CODE: MDCB0680346

IMPS CODE: MDCB0680265,

A/C Holder Name: TELCON

Target Audience:

Faculty Members from all the technical Institutes & Industry are eligible to attend the programme.

Tentative Schedule:

Day	Topic	Resource Person
Monday 06/06/22	**Session 1:** Inauguration **Session 2:** Remote sensing and GIS applications **Session 3:** Remote sensing using Google Earth Engine	Mr. Abhimanyu Chauhan (IMD) Mr. Maneesh Yadav (ICAR)
Tuesday 07/06/22	**Session 1:** Leveraging Industry 4.0 Technologies for smart systems **Session 2:** Training on Texas IoT kits **Session 3:** Yoga session	Dr. Rajesh Buktar (SPCE) Mr. Niket Amoda (TCET) Mrs. Seema Gulade (MY)
Wednesday 08/06/22	**Session 1:** Introduction to PLC and its Application **Session 2:** Introduction to Kingview SCADA **Session 3:** Training on PLC and SCADA	Mr. Iqbal Mujjawar (TCET) Mr. Pankaj Ashok Salunkhe (NIMBUS)
Thursday 09/06/22	**Session 1:** Simulation using LabVIEW software **Session 2:** Hands on session on HMI Design using NI LabVIEW **Session 3:** NI LabVIEW for CROME Applications	Dr. Arpit Ravankar (VIT) Mr. Dattatray Sawant (MPSTME)
Friday 10/06/22	**Industrial Visit:** SICK India Private Limited (Sensor Intelligence), Naigaon, Mumbai	
Saturday 11/06/22	**Session 1:** Introduction to Beagle bone kits **Session 2:** Training on Beagle bone kits for IoT Applications **Session 3:** Evaluation, Feedback & Valedictory	Mr. Manish Parekh (Sci.)

About IEEE:

IEEE, an organization dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic, and computing fields and related areas of science and technology that underlie modern civilization.

IEEE has:

- Over 409,000 members in more than 160 countries, more than 60 percent of whom are from outside the United States
- More than 125,000 Student members
- 343 Sections in ten geographic Regions worldwide
- 2,615 Chapters that unite local members with similar technical interests
- 3,565 Student Branches at colleges and universities in over 100 countries
- 3,182 Student Branch Chapters of IEEE technical Societies

About IEEE Bombay Section:

Aligned with the Vision and Mission of IEEE and IEEE Region10, in 1976, the Bombay Section was formed with a Territory of Maharashtra, Goa, Gujarat, which later separated to form a Section itself on 15 th August 1990. The Section's major activities are led by its standing committees and affinity groups, while the technical events are taken care of very actively by its 14 chapters and societies. WIE and SIGHT groups of the section work tirelessly in pushing their high-impact activities to the beneficiary groups.

Important Dates:

Last Date for Registration: 31st May, 2022

Selection Intimation: 4th June, 2022

Contact Details:

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Report on

IEEE Bombay Section Sponsored One Week Online FDP on

"Recent Tools for Integration of Smart Systems"

Date- 6th June 2022 to 11th June 2022 (6 Days)

FDP on

"Recent Tools for Integration of Smart Systems"

Introduction:

Under the umbrella of IEEE Educational Activities group, Thakur College of Engineering and Technology has organized **IEEE Sponsored Faculty development programme on** "**Recent Tools for Integration of Smart Systems**" in collaboration with 3 institutes, i.e., Vidyavardhini's College of Engineering (VCET), M. H. SabooSiddik College of Engineering (MHSSCOE) and Finolex Academy of Management and Technology (FAMT).

The programme intends to explore the different models of learning and dive into key issues that impact students, teachers, and institutions of Higher Education. The FDP is designed around developing the foundational knowledge needed to train the teachers to address the rapidly changing educational needs and devise ways to make their teaching more learner-centric.

The aim of this Faculty Development Programme (FDP) is to train faculty members about recent tools to integrate software and hardware system components. This FDP will enhance the knowledge about hardware integrated system components in different applications of Mechatronics, Communications and Automation related domains which will ultimately ensure academic excellence.

The goal of this FDP is to provide hands-on experience on IOT, PLC/SCADA and Beagle bone kits.

Objectives:

1. To impart theoretical knowledge of different sensors for various remote sensing applications.
2. To provide training on hardware platform (Kits) for rapid prototyping
3. To provide hands-on training on monitoring and controlling equipment in process automation.
4. To provide training to test products designed either in product design validation or in manufacturing test.

Outcomes:

1. Understand use of remotely located sensors and use of data downloaded using them for various applications in academia.
2. Integrate hardware and software for IOT projects using Texas and Beagle bone IOT Kits.
3. Use PLC/SCADA software for monitoring and controlling equipment in process automation.
4. Conduct projects using LabView software to validate the project before manufacturing.

Schedule:

Sr. No.	Date	Day	Session Timing	Topic	Speaker (Internal/External/International/Industry)
1	06/06/2022	Monday	10:00 am to 11:30 am	Inauguration	
			12:00 pm to 01:30 pm	Keynote session on Remote sensing and GIS applications	Mr.Abhimanyu Chauhan Senior Research Manager (Geospatial World, Noida (India))
			02:30 pm to 04:00 pm	Remote sensing using Google Earth Engine	Mr. Maneesh Yadav Senior Research Manager (Geospatial World, Noida (India), Geospatial Expert, Indian Council of Agriculture Research)
2	07/06/2022	Tuesday	10:00 am to 11:30 am	Leveraging Industry 4.0 Technologies for Smart Systems	Dr. Rajesh Buktar from Professor,HoD, MechanicalEngg (SPCE)

			12:00 pm to 01:30 pm	Texas IoT kits hands on training	Mr. NiketAmoda Assistant Professor – E&TC(TCET)
			02:30 pm to 04:00 pm	Introduction to LabVIEW Software	Dr. Lochan Jolly (IEEE-EAC Chair, Dean SSW (TCET)
3	08/06/2022	Wednesday	10:00 am to 11:30 am	Introduction to PLC and its Application	Mr. Iqbal MujjawarAssistant Professor – MECH (TCET)
			12:00 pm to 01:30 pm	Introduction to Kingview SCADA	Mr. Pankaj Ashok Salunkhe Sr. Trainer (NIMBUSTechnology)
			02:30 pm to 04:00 pm	Hands on training on PLC and SCADA	Mr. Pankaj Ashok Salunkhe Sr. Trainer (NIMBUSTechnology)
4	09/06/2022	Thursday	10:00 am to 11:30 am	Simulation using Lab view software Hands on Session on	Dr. Arpit Ravankar Associate Professor (VIT)
			12:00 pm to 01:30 pm	HMI Design using NI LabVIEW	Mr. Dattatray Sawant Assistant Professor,

					(NMIMS)
			02:30 pm to 04:00 pm	NI LabVIEW for CROME Applications	Mr. Dattatray Sawant Assistant Professor, (NMIMS)
5	10/06/2022	Friday	10:00 am to 05:00 pm	Industrial visit to SICK India Private Limited. (Sensor Intelligence) Naigaon, Mumbai	
6	11/06/2022	Saturday	10:00 am to 11:30 am	Yoga	Mrs. Rima Anand (Sr. Volunteer – Dhyan Foundation) Ms. Anustha (Volunteer – DhyanFoundation)
			12:00 pm to 01:30 pm	Hands on training on Beagle bone kits for IoT Applications	Dr. Ninad Dileep Mehendale Associate Professor, (K.J. Somaiya COE)
			02:30 pm to 04:00 pm	Test, Feedback & Valedictory	

List of participants:

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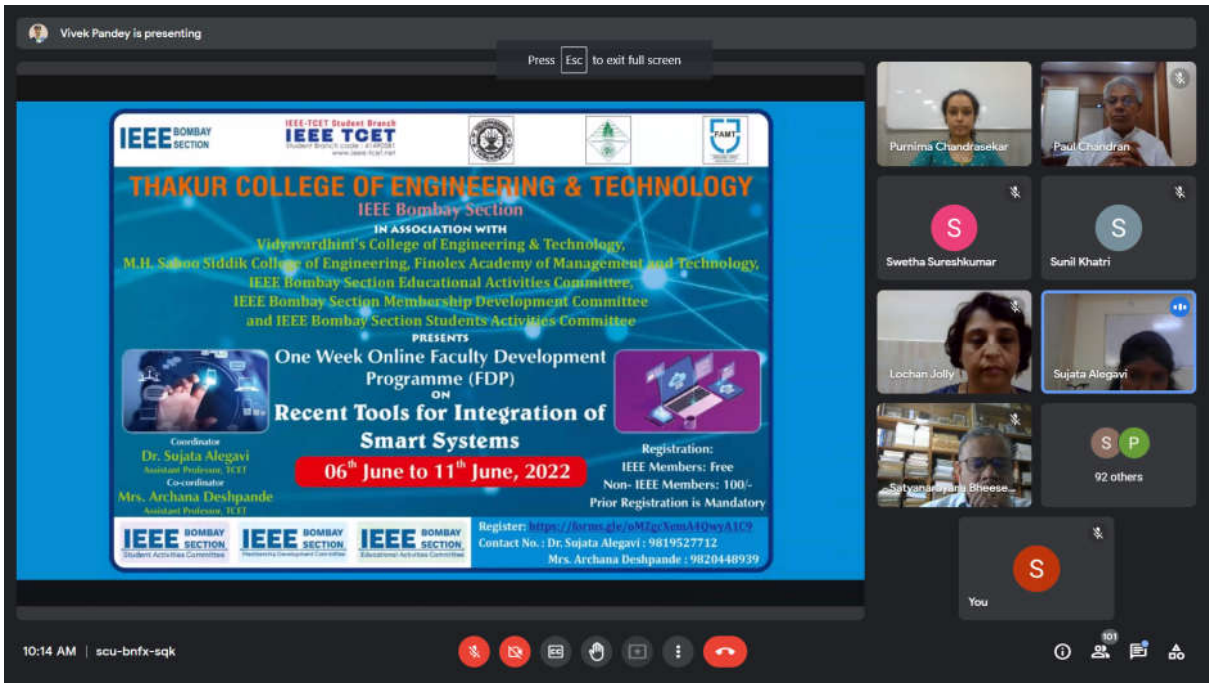
88	Mr.	Sunil N Katkar	Vidyavardhini College Of Engineering &Technology	Maharashtra	sunil.katkar@vcet.edu.in	No	7718883302
89	Mrs.	Neha Gharat	Vidyavardhini College Of Engineering &Technology	Maharashtra	neha.gharat@vcet.edu.in	No	8779809152
90	Mrs.	Trupti Ashish Shah	Vidyavardhini College Of Engineering &Technology	Maharashtra	trupti.shah@vcet.edu.in	No	9867397081
91	Mr.	Sanjay Lohar	Vidyavardhini College Of Engineering &Technology	Maharashtra	sanjay.lohar@vcet.edu.in	No	9594906115
92	Prof.	Sandeep. Yeshwant.Pawar	Vidyavardhini College Of Engineering &Technology	Maharashtra	sandeep.pawar@vcet.edu.in	No	7350757075
93	Dr.	Vikas gupta	Vidyavardhini College Of Engineering &Technology	Maharashtra	vikas.gupta@vcet.edu.in	No	9892251610
94	Mr.	Sainath Tukaram Patil	Vidyavardhini College Of Engineering &Technology	Maharashtra	sainath.patil@vcet.edu.in	No	9422488969
95	Dr.	Ashish Vasant Vanmali	Vidyavardhini College Of Engineering &Technology	Maharashtra	ashish.vanmali@vcet.edu.in	No	9561093749
96	Mr.	DIPAK J. CHOUDHARI	Vidyavardhini College Of Engineering &Technology	Maharashtra	dipak.choidhari@vcet.edu.in	No	9960453845
97	Prof.	Thakare J. Parvat	Vidyavardhini College Of Engineering &Technology	Maharashtra	thaxcen@gmail.com	No	9881920029
98	Ms.	Tina D'abreo	Vidyavardhini College Of Engineering &Technology	Maharashtra	tina.dabreo@vcet.edu.in	No	8983302945

99	Mrs.	Priyanka Omkar Bhoir	Vidyavardhinis College Of Engineering &Technology	Maharashtra	priyanka.bhoir@vcet.edu.in	No	8087789976
100	Mrs.	Maya Varghese Chakkedath	Vidyavardhinis College Of Engineering &Technology	Maharashtra	maya.varghese@vcet.edu.in	No	9699547709
101	Ms.	Krunali Vikas Vartak	Vidyavardhinis College Of Engineering &Technology	Maharashtra	krunali.vartak@vcet.edu.in	No	8149707902
102	Ms.	Carmelita Dabre	Vidyavardhinis College Of Engineering &Technology	Maharashtra	carmelita.dabre@vcet.edu.in	No	9975026763
103	Mrs.	SperilRendolfDmello	Vidyavardhinis College Of Engineering &Technology	Maharashtra	speril.dmello@vcet.edu.in	No	9930994425

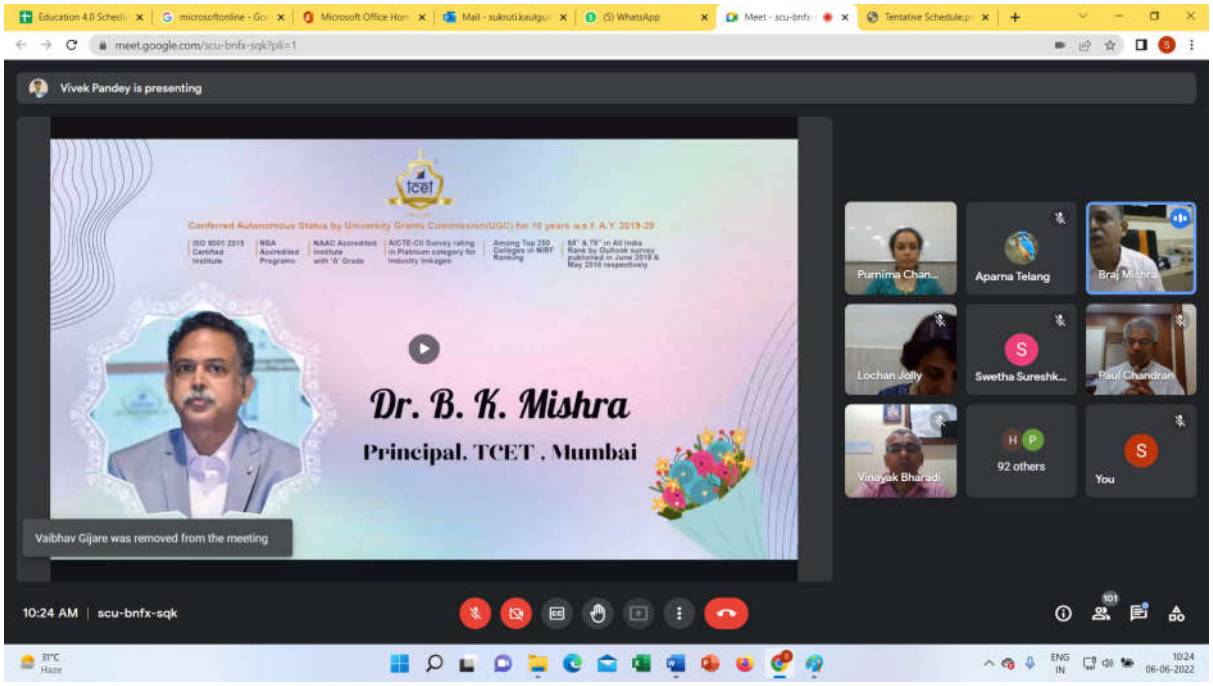
Day1- Date-06 June 2022

Session - Timings 10.00 am to 11.30 am
Session topic: Inauguration
Brief Summary:
Program started with Inauguration Ceremony. The inauguration started with lighting of lamp and Saraswathi Vandana.
Dr. Lochan Jolly, EAC Chair, IEEE Bombay Section, Dean SSW, HOD IOT, TCET, welcomed all participants of IEEE BS Sponsored FDP on RTISS. She explained vision of IEEE Education Activity committee and importance of capacity building program. She also explained STEM program carried out by IEEE Bombay Section.

Dr. Sujata Alegavi, Coordinator RTISS explained objectives of the FDP.

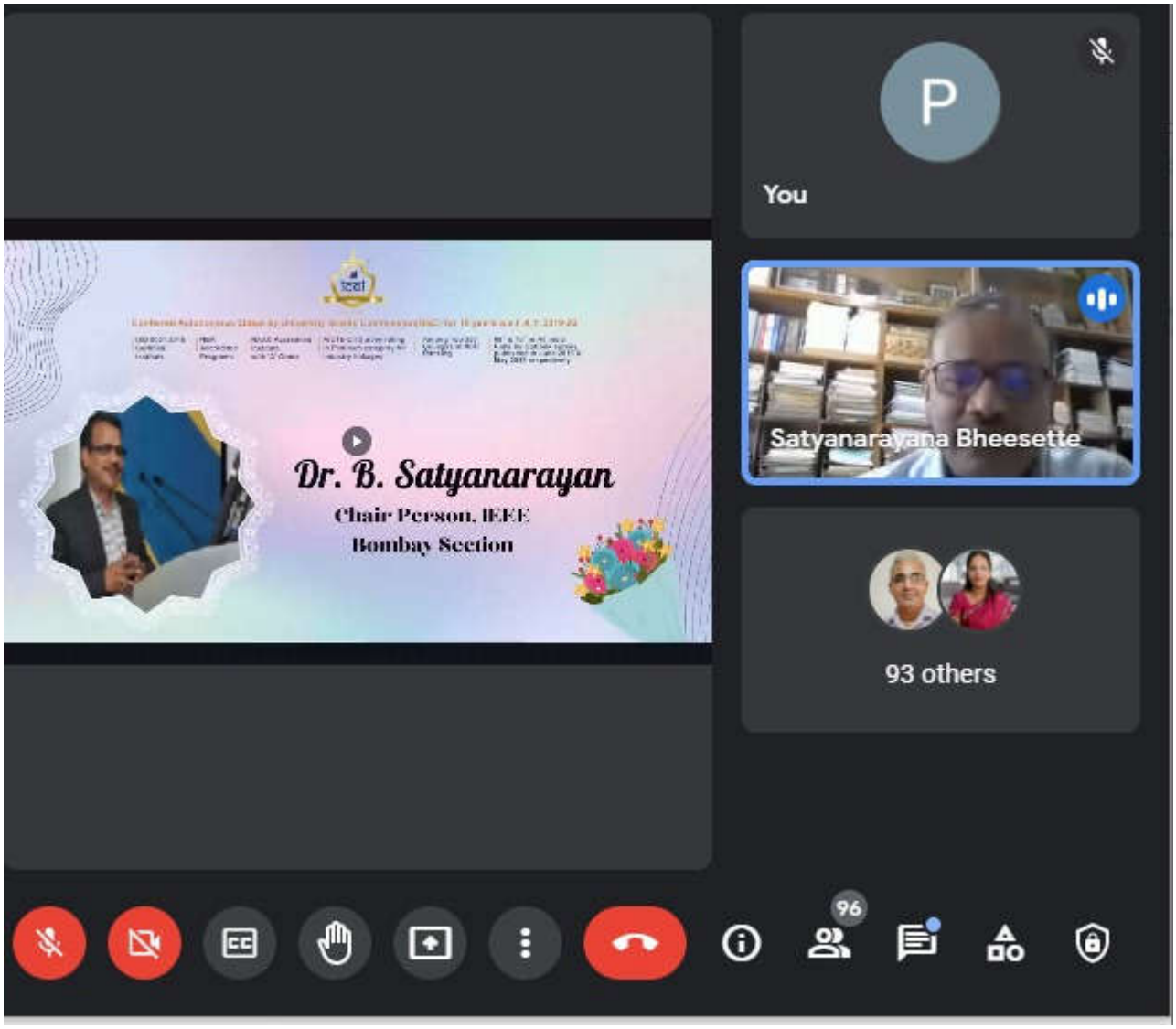


Dr. B. K. Mishra, Principal TCET, shows his gratitude towards IEEE Bombay section and formation of Education Activities Committee. Dr. Mishra emphasised on multidisciplinary learning can be encouraged with such FDPs. Such Capacity Building Programs are necessary to impress students.



The ceremony was blessed with presence of, Dr. D.T. Ingole, Principal, P. R. Pote (Patil) Education & Welfare Trust's College of Engineering & Management, Dr. Ganesh Kame, Principal, M.H. SabooSiddik College of Engineering, Dr. Fr. Paul Chandrakunnel, Director, St. Vincent Pallotti College of Engineering and Technology, Nagpur, Dr. Nitin K. Dhote, HOD Electronics SVPCET, Nagpur, Dr. Vinayak Bharadi, HOD IT, FAMT, Ratnagiri, Dr. Vikas Gupta, Dean Academics, HOD-E&TC, VCET, Mumbai.
All praised IEEE Bombay Section for their initiatives in various directions.

The Session was graced by Chief Guest, Dr. B. Satyanarayan, Chair Person, IEEE Bombay Section. He talked about huge impact of all the seven FDPs and praised involvement of all collaborating colleges. In today's scenario with smart technology, complex and miniature devices are integrated with various technologies. This new physical phenomenon, needs to be studied at much deeper levels. The topics in this FDP are very relevant to today's technology advancement and will up breast the current knowledge of faculty members.



Finally, Dr. Sarika Chouhan, SAC Chair, IEEE Bombay Section and Mr. Dattatray Sawant, MDC Chair, IEEE Bombay Section, gave overview of activities carried out under Students Activity Committee and Membership Development Committee respectively.

Vote of thanks is delivered by Mrs. Rushali Thakkar, EAC Member, IEEE Bombay Section.

Session I- Timings 12.00-1.30 PM

Session topic: Remote Sensing and GIS applications

Name of Speaker	**Designation and Name of the institute/company**	**Topic Covered**
Mr. Abhimanyu Chauhan	Senior Research Manager Geospatial World, Noida (India)	1. Introduction to Remote Sensing and its Applications 2. Introduction to GIS and its applications

Objectives of the session: Introduction to remote sensing and How we can integrate GIS technology in different domains

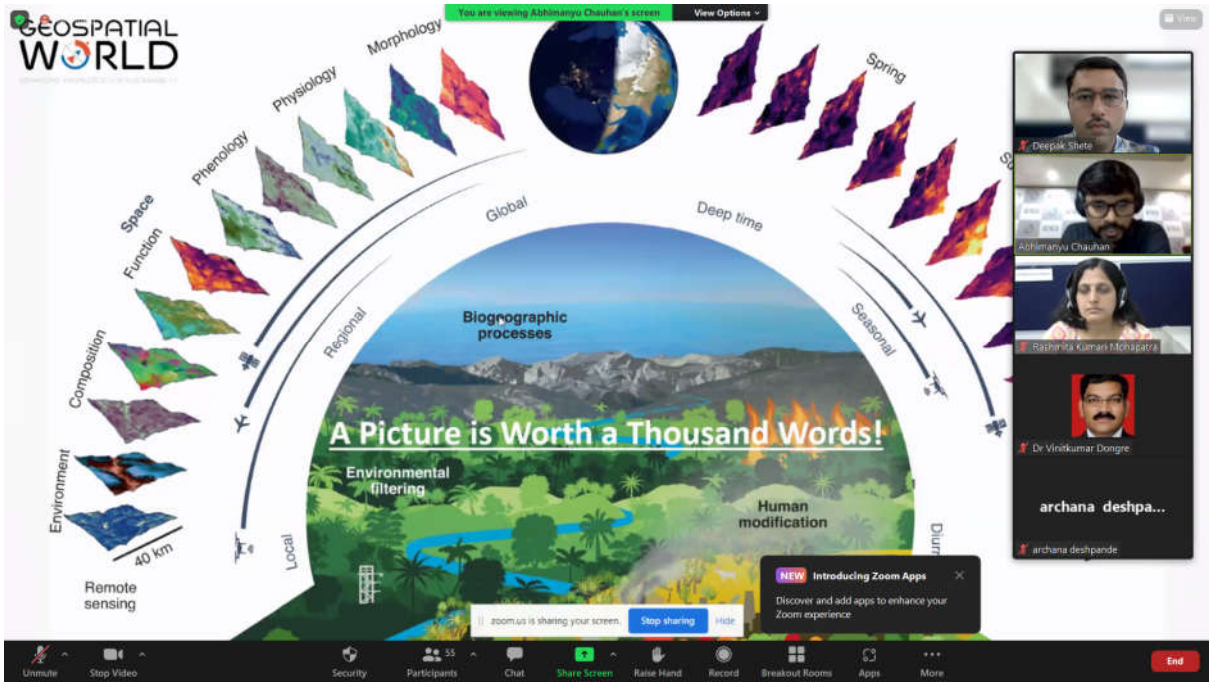
Brief Summary

In this session speaker explained remote sensing, electromagnetic Spectrum for remote sensing, and How do satellites make measurement.

Outcome of the session

All participants can now describe integration of GIS technology in different domains

Screenshot of Zoom Session



Session II- Timings 2.30 PM- 4.00 PM Session topic- Remote Sensing using Google Earth Engine

Name of Speaker: **Mr. Abhimanyu Chauhan** **Mr. Maneesh Yadav**	**Designation and Name of the institute/company:** 1. Senior Research Manager Geospatial World, Noida (India) 2. Geospatial Expert, Indian Council of Agriculture Research	**Topic Covered:** 1. Components of Google Earth Engine 2. Uses of Google Earth Engine 3. Earth Engine code editor

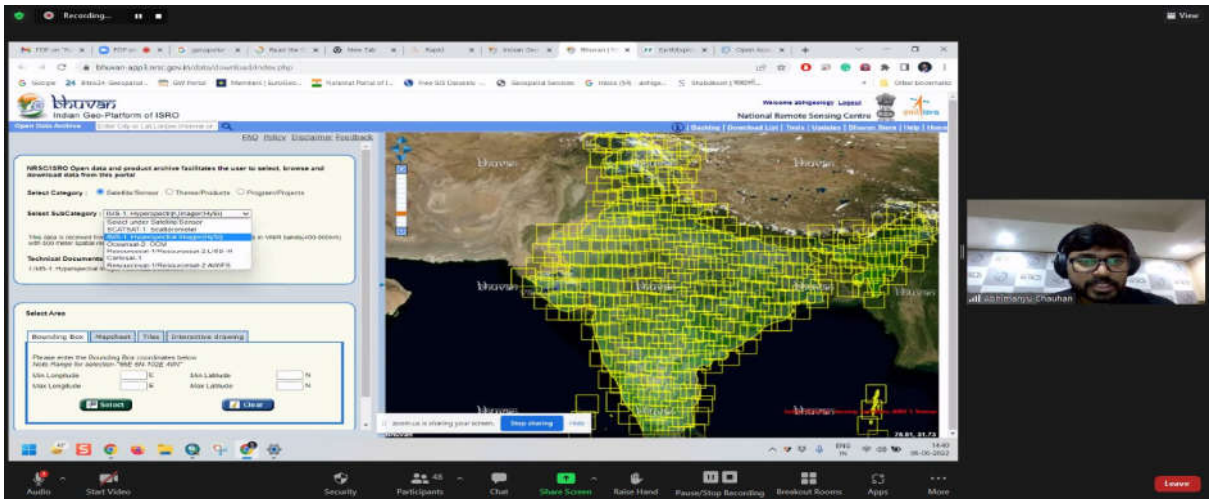
		4. Data types and geospatial processing functions

Objectives of the session: To get the participants acquainted with the utilization of Google Earth Engine

Brief Summary: Mr. Abhimanyu gave a glimpse of few open source online portals like 'Bhuvan' which is the Indian Geo-Platform of ISRO, Copernicus Open Access Hub which provides complete, free and open access to Sentinel-1, Sentinel-2, Sentinel-3 and Sentinel-5P user products, starting from the In-Orbit Commissioning Review (IOCR) and RAPID i.e. Real-time analysis of products and information dissemination (RAPID), a web-based quick visualization and analysis tool for INSAT satellite data Screenshot of Zoom Session.

Thereafter, Mr. Maneesh Yadav gave a hands-on practice of Google Earth Engine by using Earth Engine code editor and applying different geospatial processing functions to understand cloud cover, vegetation, NDVI etc. in a given satellite imagery,

Outcome of the session:
All participants can now use Google Earth Engine to detect changes, map trends, and quantify differences on the Earth's surface.



Day 2 Date: 7th June 2022

Session I- Timings 10:00 to 11:30 AM

Session topic: <u>Leveraging Industry 4.0 Technology for smart systems</u>

Name of Speaker	Designation and Name of the institute/company	Topics Covered
Dr. Rajesh Buktar	**Professor, Former Dean Academic, HoD Mechanical Engg at**	**1. Introduction to Industry 4.0** **2. Enabling Technologies for smart system**

	SPCE	**3. Significance of technology integration for smart system** **4. Smart system for teaching Learning** **5. Smart System for Question paper setting** **6. Smart system for Remote maintenance**

Objectives of the session:

Introduction to Industry 4.0 and Enabling technologies for smart system.

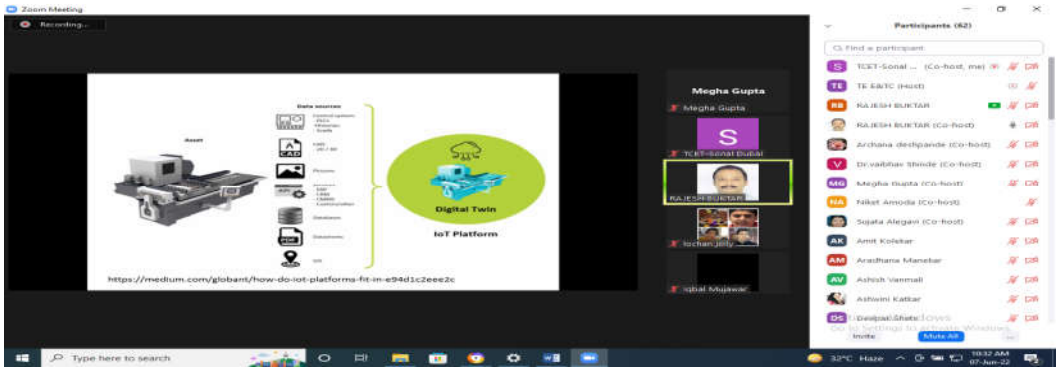
Brief Summary:

During session Speaker discussed about industry 4.0 and its revolution from 1.0, 2.0, 3.0 than industry 4.0. He briefed about Enabling technologies for smart system such as (Augmented Reality (AR), Virtual Reality (VR), IoT, AI, Big Data Analytics, Cloud computing, 3D printing, Digital Simulation, Robotics/COBOTS. He also discussed about significance of industry 4 in today's world.

Outcome of the session:

All participants can now describe the industry 4.0 and various technologies contributing in smart system

Screenshot of Zoom Session:



Session II- Timings 12:00 to 1:30 PM

Session topic: <u>Texas IoT kits hands on training</u>

Name of Speaker	Designation and Name of the institute/company	Topic Covered
Mr. NiketAmoda	**Assistant Professor, E&TC Department TCET**	**1. Introduction to IoT** **2. Enabling Technologies for smart system** **3. Significance of IoT for smart system** **4. IoT enabled Smart**

		City 5. IoT Domain 6. Hands on IoT Project

Objectives of the session:

Introduction to IoT and Enabling technologies for smart system using IoT with various database like Azure, Firebase etc.

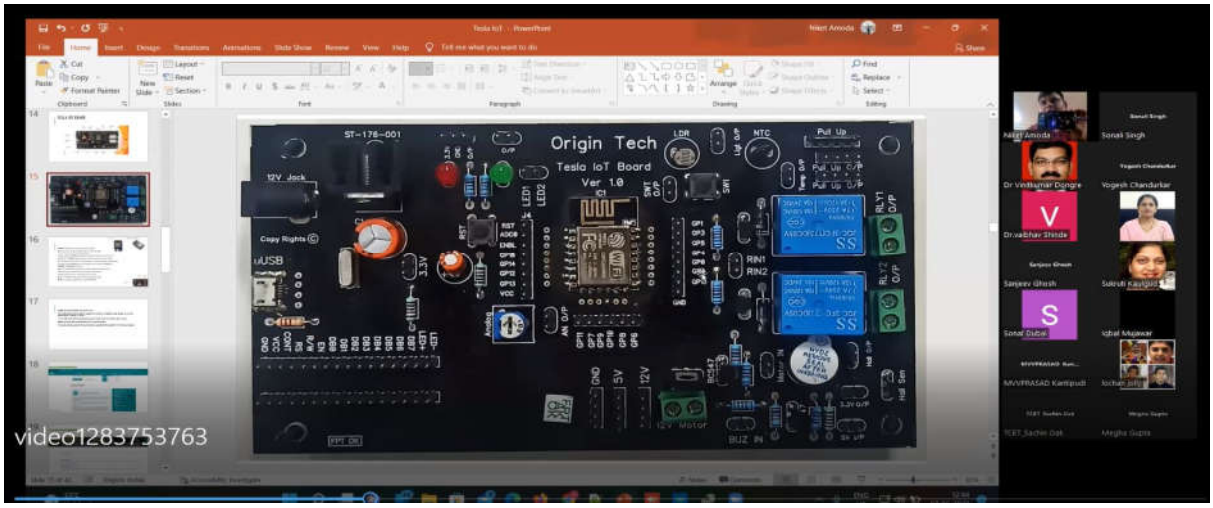
Brief Summary:

During session Speaker discussed about introduction of IoT and its application with hardware. He briefed about ESP8266 board and its limitation and how to overcome those limitation with the help of Tesla board. How Tesla board used for smart system such as IoT, AI, Big Data Analytics, Cloud computing etc discussed in details and he also briefed about how we can enable database. He also discussed about significance of IoT in todays world.

Outcome of the session:

All participant can now describe the IoT and various technologies contributing in smart system

Screenshot of Zoom Session:



Session III- Timings 2:30-4:30 PM

Session topic: <u>Introduction to Lab view software</u>

Name of Speaker	Designation and Name of the institute/company	Topic Covered
Dr. Lochan Jolly	Professor & Dean (SSW) Thakur College of Engineering and Technology, Mumbai	1. Introduction to Lab view software 2. Training session 3. Uploading data on

		Cloud **4. Reading data from Cloud**

Objectives of the session:

To introduce LabVIEW software to participants and its applications

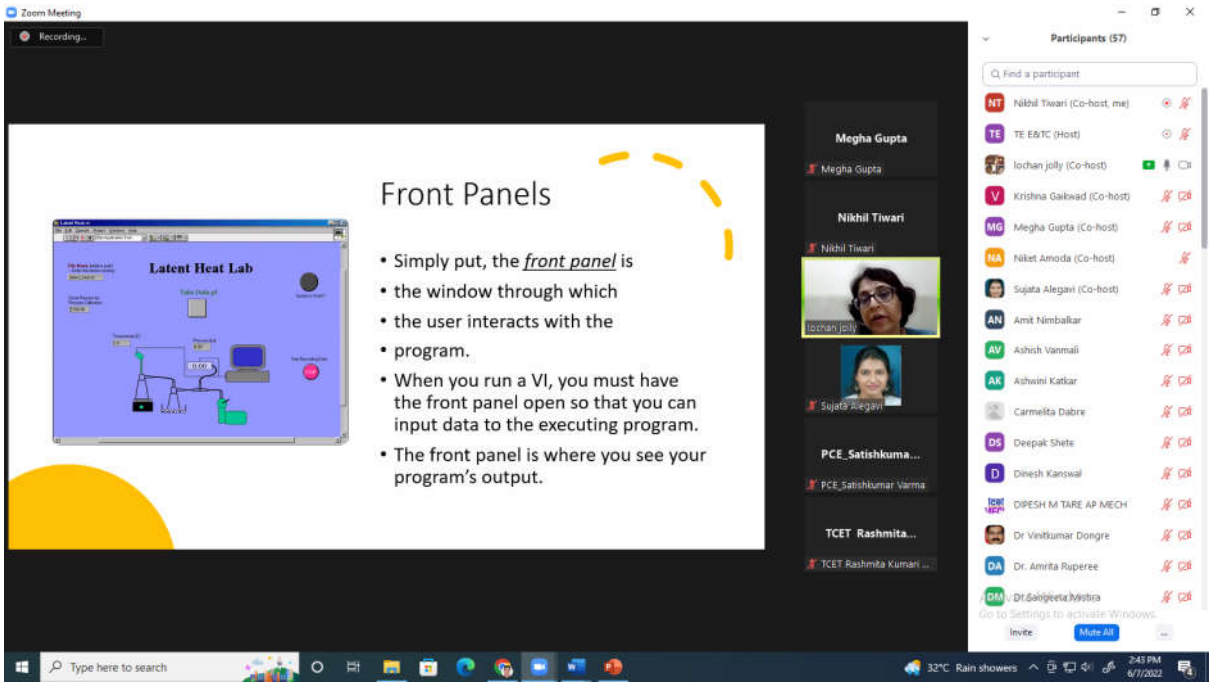
Brief Summary

Dr. Lochan Jolly introduced to Lab view software, its all components and windows to participants. She explained how to create project. She gave hands on training to participants. She also taught how to upload project data and information to the cloud and how to read data from cloud. In the end she answered all the questions raised by participants.

Outcome of the session

Participant learnt about LabVIEW software and its applications.

Screenshot of Zoom Session



Day: 3 Date: 8th June 2022

Session I- Timings: 10:00 am to 11:30am

Session topic: Introduction to PLC and its Applications

Name of Speaker	Designation and Name of the institute/company	Topic Covered
Mr. Iqbal Mujawar	A. P. Mechanical	Introduction to PLC and its

	Department (TCET, MUMBAI)	Applications

Objectives of the session:

The main objective of the session is –

1. To give brief introduction about the Programmable Logic Controller (PLC).
2. To understand the difference between RLC (relay) and PLC
3. To understand the functions of PLC and leading brands.
4. To implementation programming of PLC with the help of example

Brief Summary:

The session started with the introduction, history, and background of Programmable Logic Controller (PLC). The comparison of relay and PLC is explained in detail as PLC is more popular than relay. The difference between relay logic and ladder programming explained with the help of different connections. After healthy discussion on relay and PLC, advantages of PLC are discussed. The same discussion followed by comparison of PC and PLC.

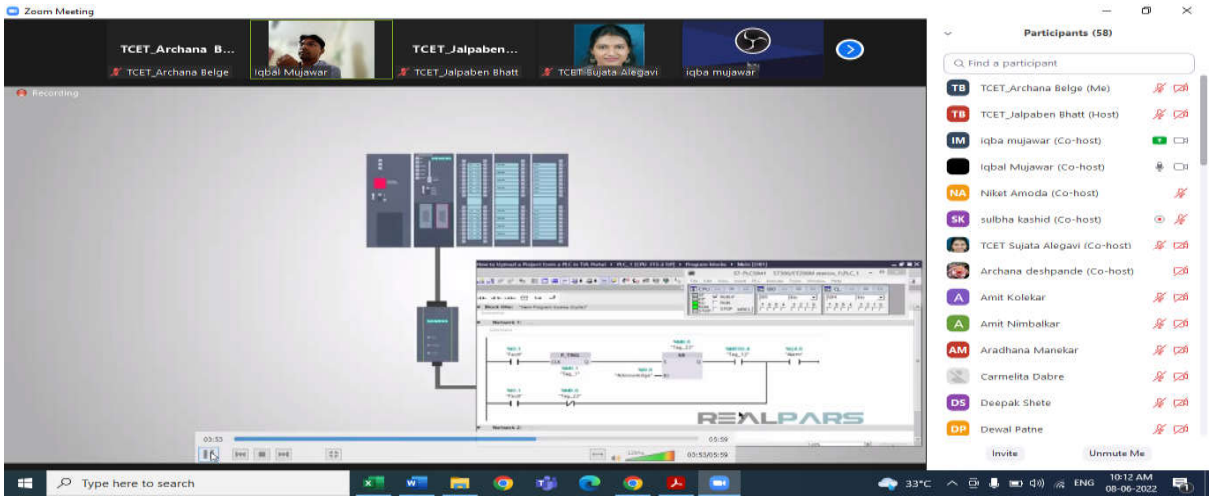
In the next part of the session, PLC functions discussed in detail with its real time applications. The leading brands of PLC like American, European, Japanese are discussed in brief with its popularities. The types of PLC based on their structure like compact, modular, and soft PLC with its characteristics discussed in detailed. Major components of PLC and selection criteria is presented very well. PLC programming explained with the designing steps, relay logic instructions, and selection of different types of timers. The bottle filling process is explained as an example of PLC implementation at the end of session.

Outcome of the session:

After successful completion of this session participants are –

1. Able to understand the basic concept of Programmable Logic Controller (PLC).
2. Able to differentiate between functions of relay and PLC.
3. Able to understand the advantages of PLC with its applications.
4. Able to identify leading brands of PLC in all over the world.
5. Able to Implementation PLC programming for the given example.

Screenshots:



Session II- Timings: 12:00 pm to 01:30 pm

Session topic: Introduction to KingsviewSCADA

Name of Speaker	**Designation and Name of the institute/company**	**Topic Covered**
Mr. Pankaj Ashok Salunkhe	Mr. Pankaj Ashok Salunkhe	Introduction to Kingview SCADA

Objectives of the session:

1. To understand the various protocols used in automation and communication
2. To learn and get the hands on expertise on **KingView -** A SCADA Platform To Handle Small To Large Applications -Widely Installed SCADA Software

Brief Summary: Kingview is a powerful industrial software for monitoring & controlling industrial processes. It inherits powerful functions, stability, and realizability of operations.
Mr Pankaj Sir explained about the protocols like RS 232, 432 and 485 their functioning and comparison. These are recommended protocols. There are other popular protocols used now a days in industries i.e. MODBUS, CANBUS, PROFIBUS for communication. Sir explained about the MODBUS protocol and its functioning along with demonstration of Modscan 32 software. Lastly concluded with the introduction of Scada software Kingview.

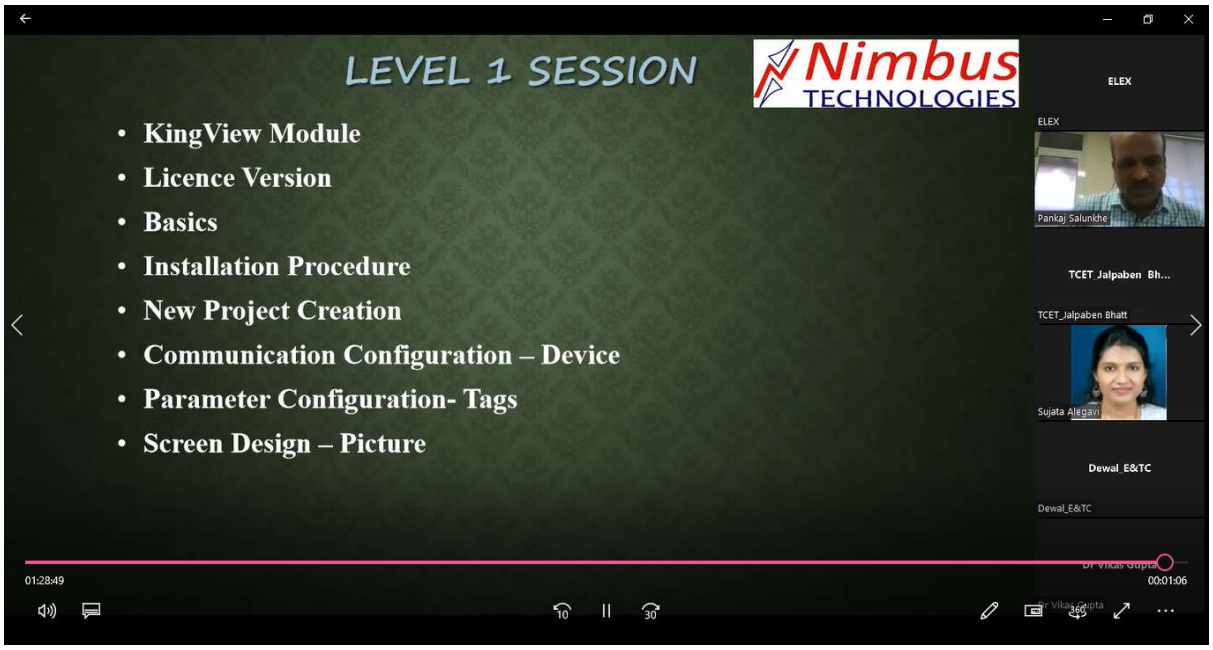
Outcome of the session:

Participants are able

1. To understand the functioning of various protocols and use of it in automation and communication
2. To get aware of Software Modscan 32 for MODBUS communication
3. To understand applications of SCADA using MODBUS

4. To understand and gain expertise on **KingView Software.**

Screenshot of Zoom Session:



Timings– 2.30 pm to 4.00 pm

Session topic- Hands on Training on PLC & SCADA

Name of Speaker	**Designation and Name of the institute/company**	**Topic Covered**
Mr Pankaj Salunkhe	Nimbus Technology	Hands on Training on PLC & SCADA

Objectives of the session: To provide hands practice on the Kingview project Manager software.

Brief Summary:

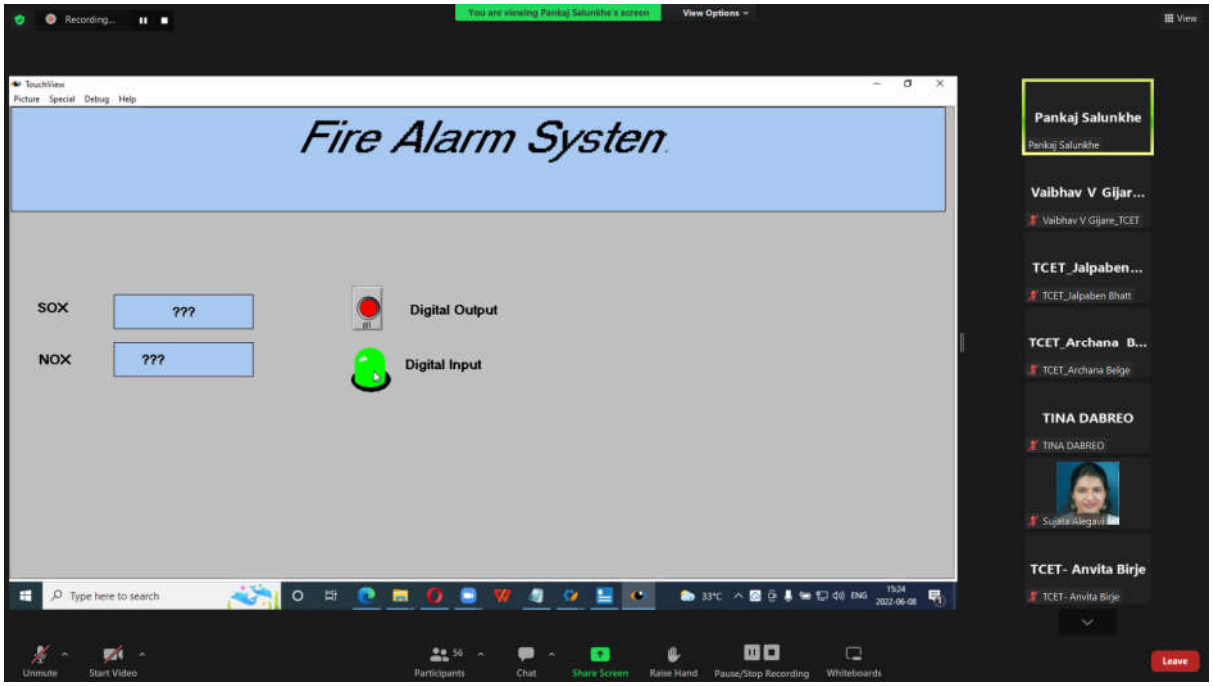
The speaker is Mr Pankaj Salunkhe from Nimbus Technology.

The speaker briefed the installation, configuration steps in detail.

The speaker shown a configuration for fire alarm system, tested the same and created further slaves into the same configuration.

Outcome of the session: Hands on the Kingview project Manager software

Screenshot of Zoom Session



Day-4 Date-9th June 2022

Session I- Timings: 10:00 am to 11:30 am

Session topic: Simulation using LabVIEW

Name of Speaker: Dr. Arpit Ravankar	**Designationand Name of the institute/company:** Associate Professor, VidyalankarInstitute of Technology	**Topic Covered:** LabVIEW Environment, Controls & Indicators in LabVIEW, VI's with different examples.

Objectives of the session:To understand the Lab View software and its use for the simulation of different types of electrical, mechanical, electronics systems etc.

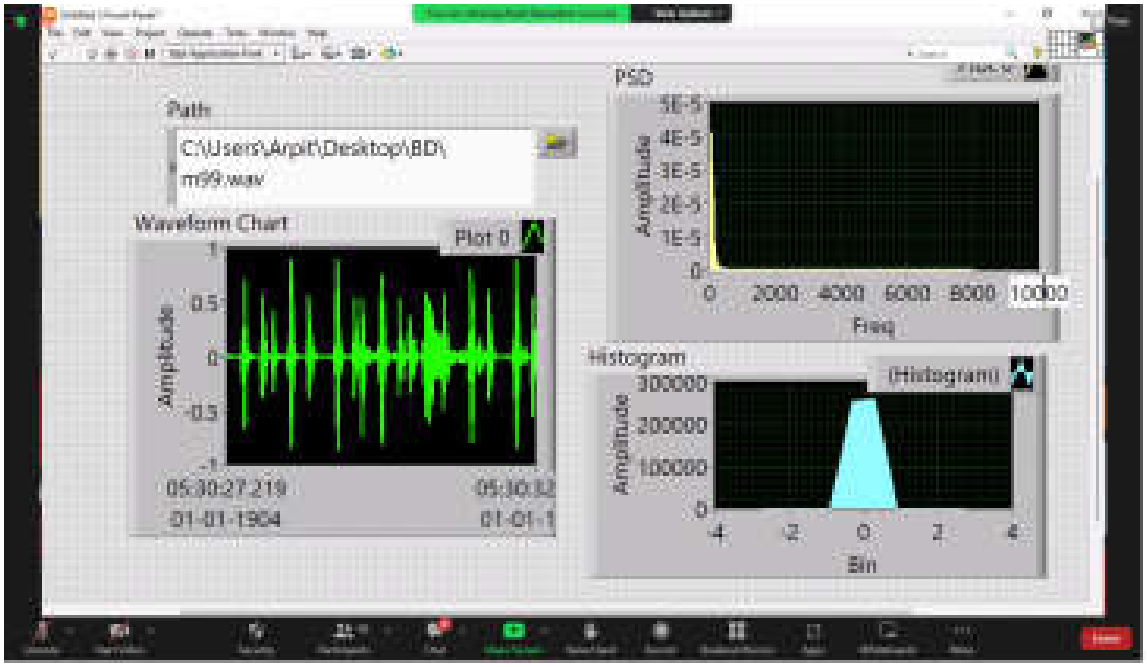
Brief Summary: LabVIEW integrates the creation of user interfaces (termed front panels) into the development cycle. LabVIEW programs-subroutines are termed virtual instruments (VIs). Each VI has three components: a block diagram, a front panel, and a connector pane. The last is used to represent the VI in the block diagrams of other, calling VIs. The front panel is built using controls and indicators. Controls are inputs: they allow a user to supply information to the VI. Indicators are outputs: they indicate, or display, the results based on the inputs given to the VI. The back panel, which is a block diagram, contains the graphical source code. All ofthe objects placed on the front panel will appear on the back panel as terminals. The back panel also contains structures and functions which perform operations on controls and supply data to indicators. The structures and functions are found on the Functions palette and can be placed on the back panel. Collectively controls, indicators,

structures, and functions are referred to as nodes. Nodes are connected to one another using wires, e.g., two controls and an indicator can be wired to the addition function so that the indicator displays the sum of the two controls. Thus, a virtual instrument can be run as either a program, with the front panel serving as a user interface, or, when dropped as a node onto the block diagram, the front panel defines the inputs and outputs for the node through the connector pane. This implies each VI can be easily tested before being embedded as a subroutine into a larger program.

Outcome of the session: At the end of the session participants are able to

1. Understand the Lab View software and its use for the simulation of different types of electrical, mechanical, electronics systems etc.
2. Understand controls, indicators, structures, and functions available in LabView software.

Screenshots of Zoom Session:



Session II- Timings 12:00 pm to 1:30pm
Session topic: HMI design using LabVIEW

Name of Speaker: Dr. Dattatray Sawant	**Designation and Name of the institute/company:** Asst. Professor, Mukesh Patel School of Technology Management & Engineering	**Topic Covered:** Applications of LabVIEW, Control Design & Simulation Module, RT Module, While Loop, Cluster, Examples

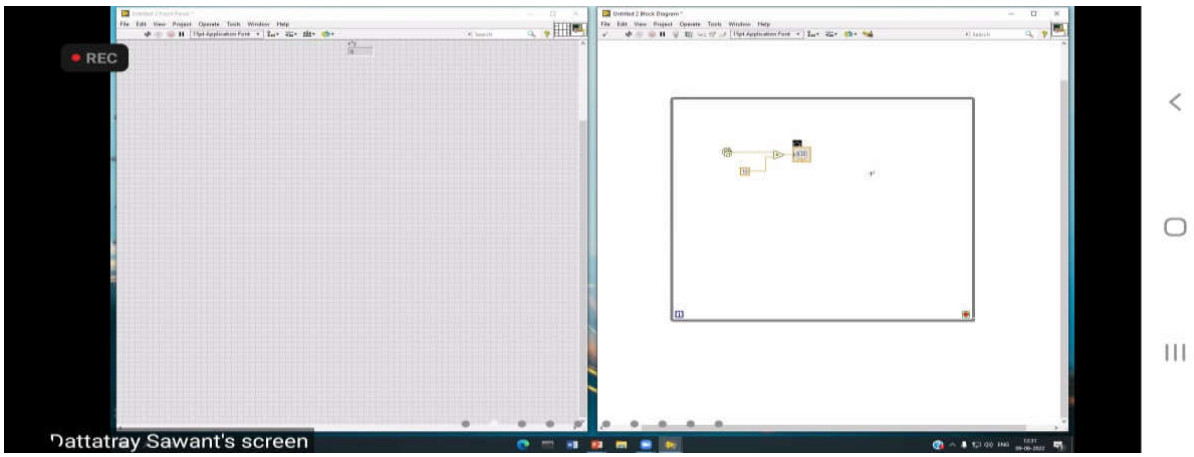
Objectives of the session: Participants will able to

1. Understand Control and simulation Modules of LabVIEW
2. Develop a simple program to demonstrate conversion of temperature value from Celsius to Fahrenheit.

Brief Summary: Session started with Introduction then speaker explained application of LabVIEW. Then he talked about different LabVIEW Modules like mathscript, RT module, Control Design and Simulation Module. Speaker also developed a simple program on conversion of temperature from Celsius to Fahrenheit. Then he explained timer in while loop. Also he explained for loop and cluster. He concluded session with difference between waveform graph and waveform chart

Outcome of the session: Participants understood difference between waveform graph and Chart

Screenshot of Zoom Session:



Session III- Timings 2:30-4:30pm

Session topic: NI LabVIEW for CROME Applications

Name of Speaker: Dr. Dattatray Sawant	**Designation and Name of the institute/company:** Asst. Professor Mukesh Patel School of Technology Management & Engineering	**Topic Covered:** NI Sensor kits, prototyping boards, DAQ cards, Integration of MyRio with Wheeled robot, Modelling of Dynamic systems in LabVIEW

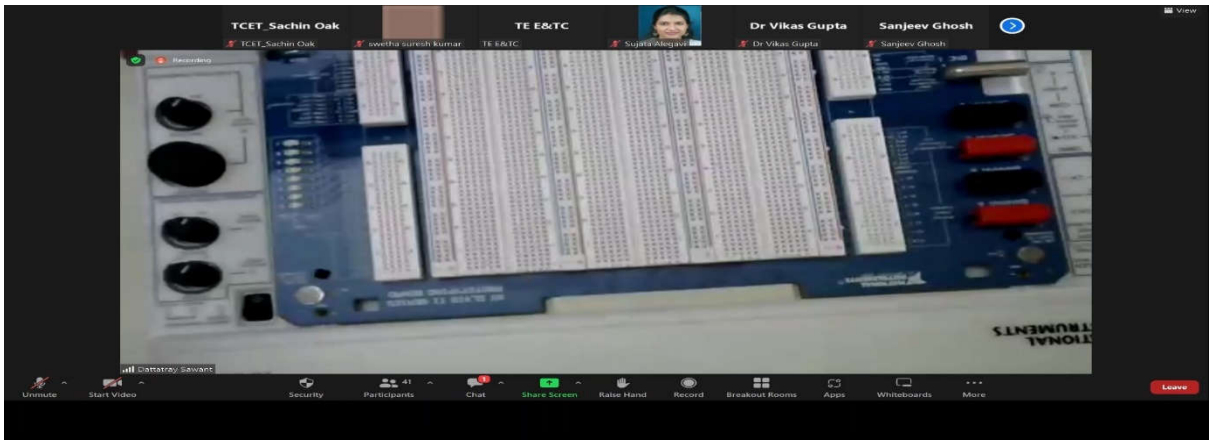
Objectives of the session:

1. To understand the step wise procedure to model and simulate control systems on LabVIEW.
2. To model and simulate the continuous control system on LabVIEW.
3. To use C code within the LabVIEW simulation

Brief Summary: Session 3 started with the introduction and explanation to the different mechatronics kits of National Instruments available at Mukesh Patel School of School of Technology Management & Engineering viz. Sensor kits, Prototyping boards, USB-based DAQ card, MyRio integrated to wheeled robot. Speaker then explained Modelling of dynamic systems (viz. control systems) & its simulation on LabVIEW. He explained simulation of different example control systems starting with Continuous systems to discrete systems. Control & Simulation blocks were explained in detail in these examples. Formula node to use C code within the LabVIEW also explained. Also, how to use mathscript in LabVIEW also discussed with example. At the end of the session, speaker concluded by demonstrating the working of a wheeled robot integrated to MyRio.

Outcome of the session: Participants modelled and simulated continuous and discrete control systems on LabVIEW. Different sensors kits, mechatronic boards and its integration with robots was explained with live demonstration.

Screenshot of Zoom Session:



Day-5 Date-10th June 2022

Session –Industrial visit at Factory and Warehouse of SICK India Pvt Ltd

Timings –10AM-3PM

Name of Speaker	Designation and Name of the institute/company	Topic Covered

Employees of SICK patients company	**Operation incharges**	1. **Introduction** 2. **Journey of SICK** 3. **Operations of sensor intelligence** 4. **RnD at SICK** 5. **Remote diagnosis** 6. **Sensor development** 7. **Detailed explanation of sensor operations** 8. **Demonstrations of instruments** various gas analysers, their application, their safety precautions and standards 9. **Warehouse visit**

Objectives of the session:

1. To understand how sensor industry work.
2. To understand various sensor applications in the market.
3. To understand various avenues of Sensor industry.

Brief Summary

All the participants were divided into 3 groups for the visit of two locations of the industry viz Factory and Warehouse. Participants of group 1 and 2 assembled at the company location by 10AM while group 3 joined at 12PM. Firstly group 1 visited factory and group 2 the ware house and then swapped the location. Group 3 followed the group 1 sequence.

1. **IV at Factory location**: At factory location participants got to see the various gas analysers, their application, their safety precautions and standards. They also got to see the flow control and measurement devices and their industrial applications. Also, they got to see the sensors used for sorting and other applications used at E-commercial company's warehouses like Amazon warehouse etc.
2. **IV at Warehouse location:** At warehouse location participants got to see the various models showing the setup and working of sensors used for scanning the codes (Line codes, bar codes etc.). Participants got to see the various sensors, their applications, their customization to achieve various goals from same sensors. Also, they got to see how exactly logistics and warehouse are maintained and work efficiently.

Outcome of the session: Participants were able to know

1. How sensor industry work.
2. Various types of sensors and their application.
3. How to customize sensors for various applications.
4. How warehouses are maintained for efficient working.

Screenshots:

Day-6 Date-6/11/2022

Session I- Timings:10-11:30am

Session topic: Online Yoga

Name of Speaker	Designation and Name of the	Topic Covered:

Mrs. Rima Anand	**institute/company** **Dhyan Foundation**	**Online Yoga**

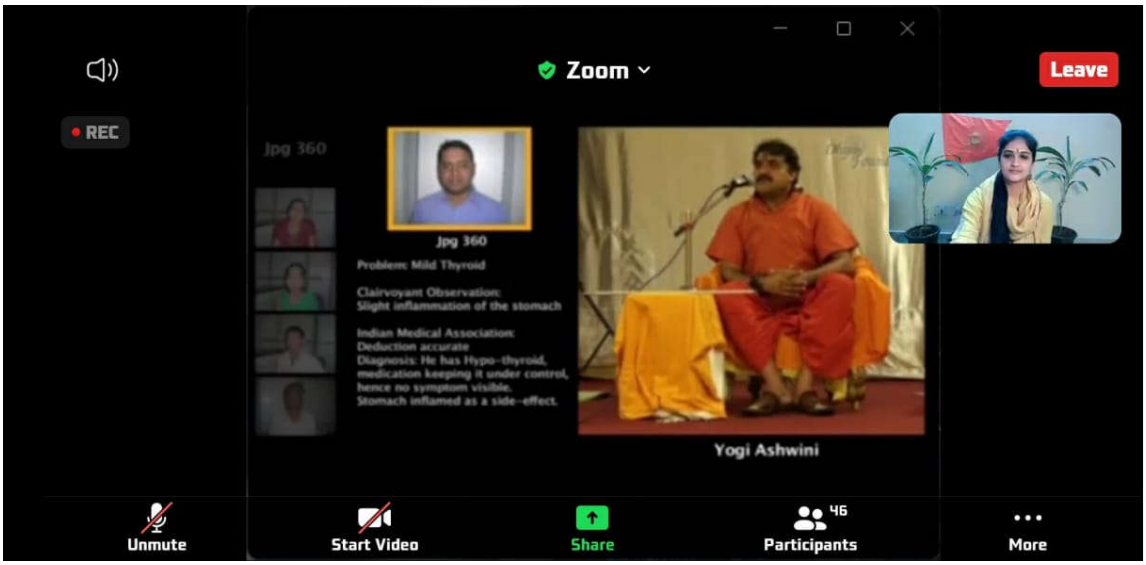
Objectives of the session: To understand AstangYog, Body Metabolism

Outcome of the session: At the end of the session participants could

Understand the benefits of AstangYog, Body metabolism, Five layers of body and Different Asanas

Summary: Yoga Integrates asnas and astangyog. Online Guidance by Yogi Ashwin using video is shared which demonstrated the use of yoga with medical Doctors for body fitness. As body metabolism increases breath becomes shorter and faster. Also as diagphragm gets down stomach expands and capacity to take intake air increases. Also due to thrust on diaphragm residual matters comes out hence we can optimise the metabolism of body. Also then speaker talks on Sanatan kriya where she actually demonstrated the different Asanas with help of Volunteer. Then she talked on Sanatan Chakra Kriya Santulan.Finally she ended session with explaining the five layers of body and briefing about Annamay and Pranmay Chakra.

Screenshot of Zoom Session:



Session II- Timings:12-01:30m

Session topic: Simulation using Beagle Bone Kits for IoT Applications

Name of Speaker **Dr.NinadDillepMehendale**	**Designation and Name of the institute/company** **KJ somaiya College of**	**Topic Covered** **Beagle Bone Kits**

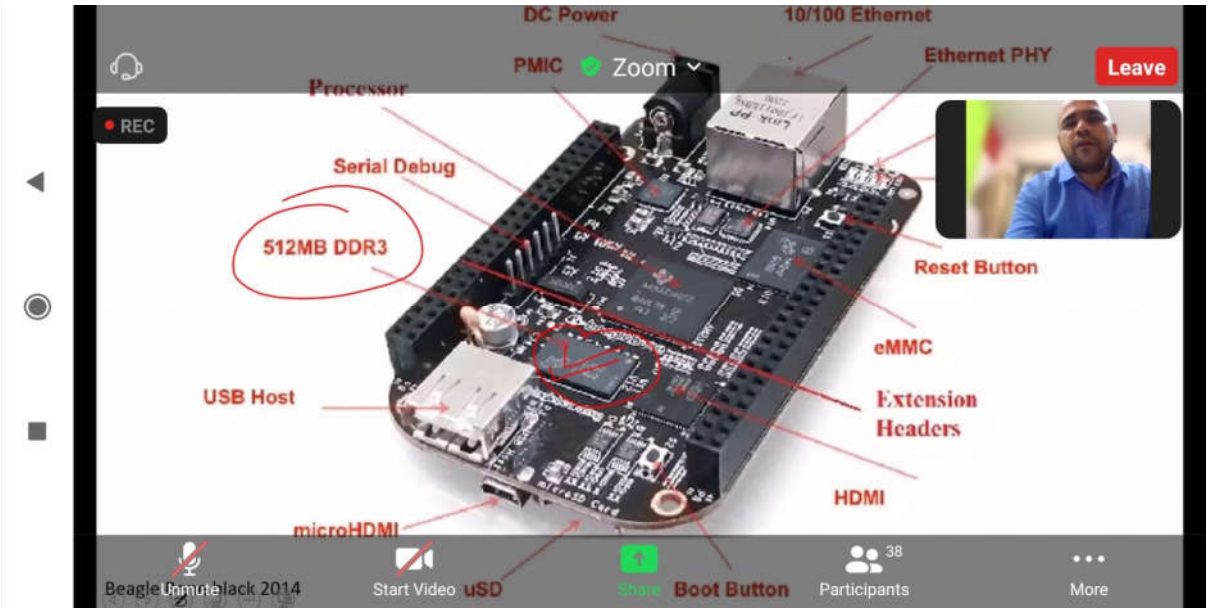
	Engineering	

Objectives of the session: Understanding of Beagle Board. Different cape used on Beagle Board.

Brief Summary: Session started with Introduction then speaker explained application of Beagle Board. Then he talked about different capes which are used on Beagle Board. He also explained Protocol supports used by Beagle board like Can,I2C,GPIO.Also, he talked about Bluetooth H connector, Beagle bone AI Then Beagle Bone Black. Then he discussed about cloud ID and how to connect to cloud using Java Programming. Then he talked about Android and Angstorm Support. Finally, he ended with serial communication Protocol and Application of Beagle Bone in Automobile system, CNC Machine, Robotics and Gaming.

Outcome of the session: Participants now able to work with Beagle Bone Kits for robotics, and Automobile Industry.

Screenshot of Zoom Session:



Session III- Timings:2:30 -04:00 pm

Session topic: Simulation using Beagle Bone Kits for IoT Applications

Objectives of the session: FeedbackFrom Participants

Brief Summary: Session started with Introduction and welcome of Guests and Participants. then detailed report was shared by Dr. Sujata Alegavi (FDP Coordinator). Further Dr.Sourabh Mehta, Secretary, IEEE Bombay section shared his views on importance of such type of activities which keeps teachers abreast with latest knowledge in their fields.Further Dr. Lochan Jolly (EAC chair, IEEE Bombay section) explained the importance of all the educational activities for the teachers and the students and motivated such collaborative activities. Further Dr.AmitaRuperi (Associate Professor Dean students Affairs VCET) appreciated the efforts taken by TCET and the collaborating colleges. Further Ms.RushaliThakkar, (EAC Memeber,IEEE Bombay Section)A.P. - MHSSCOE) introduced new programme under EAC for students. Finally, Mr.Girish Bhide, (IEEE member, Asst.Professor IT department – FAMT) appreciated the efforts taken by all the collaborating colleges. has been given. Participants were motivated to do IEEE membership and finally feedback from participants which concluded withVote of Thanks given by Mrs. Archana Deshpande (FDP Co-coordinator. Session ended with National Anthem.

Outcome of the session: Feedback from Participants and IEEE membership benefits.

Important Feedbacks from Participants:

1. Nice blend of hands on and lecture sessions.
2. Very nice hands-on session from industry experts.
3. Excellent management from the entire team.
4. Industrial Visit to SICK was very informative.
5. Such collaborative sessions should be arranged, so to gain knowledge in the upcoming fields.

Prepared by:	Approved by:	Approved by:	Approved by:	Approved by:
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