



One Week Collaborative Capacity Building Program

on

Becoming IOE Ready: Recent Trends in Sensing, Security and Data Analysis

Date : 24th June to 29th June 2024

Registration Form

Name (Mr./Ms.) : _____

Designation : _____

Experience : 1) Teaching _____
2) Industry _____
3) Others _____

IEEE Member Non-IEEE Member

Institute : _____

Mailing Address : _____

Email ID : _____

Phone (R) : _____

(M) : _____

Registration Form

Registration link:

<https://forms.gle/9UJ9bzr9RwQWQwn66>

WhatsApp group link:

<https://chat.whatsapp.com/D09a1bmcF1JS5Kyk5E00N>

Payment link:

<https://sfiterp.sfit.co.in:98/SFIToPayment.asp?id=74DDES>

Use the links given above or just scan the QR codes

Whatsapp

Payment

Registration



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Bro. Shantilal Kujur, Director, SFIT

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Dr. B.K. Mishra, Principal, TCET

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Dr. Sujata Alegavi, HOD-IOT, TCET

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St. Francis Institute of Technology and Thakur College of Engineering and Technology

Presents

One Week Collaborative Capacity Building Program

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EDUCATIONAL ACTIVITIES COMMITTEE

Becoming IOE Ready: Recent Trends in Sensing, Security and Data Analysis

In collaboration With



Date : 24th June to 29th June 2024

Coordinators

Dr. Sukruti Kaulgud, Assistant Professor, TCET

Ms. Mrinmoyee Mukherjee, Assistant Professor, SFIT

Ms. Grinal Tuscano, Assistant Professor, SFIT

ST. FRANCIS INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Approved by AICTE | ISO 9001:2015 Certified | Permanently Affiliated to University of Mumbai
Computer Engineering, Information Technology and Electronics and Telecommunication Engineering are

NBA Accredited, NAAC A+ Accredited

Mobile number: +919167370622 / 919167370632

Email: sfedu@sfit.ac.in | Website : www.sfit.ac.in

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THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous College Affiliated to University of Mumbai

Approved by All India Council for Technical Education (AICTE) and Government of Maharashtra (GoM)

Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20

Amongst Top 200 Colleges in the Country, Ranked 193rd in NIRF India Ranking 2019 in Engineering College category

- ISO 9001:2015 Certified
- Programmes Accredited by National Board of Accreditation (NBA), New Delhi
- Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Website : www.tcetmumbai.in

About The Programme:

St. Francis Institute of technology (SFIT) in collaboration with TCET is organizing one-week hybrid mode Faculty Development Program on “Becoming IOE Ready: Recent trends in sensing, security and data analysis” aims to explore fundamentals to advanced theory and practical concepts for one of the most emerging area-Internet of Everything. The program will strive to incorporate the knowledge through interactive theory sessions, hands-on sessions and exploratory industrial visits.

Objectives:

Participants should be able to:

- To *understand and investigate* the recent advancements in sensing technology used for IOT and IOE based applications.
- To *examine* the recent progress in IOT and IOE security aspects from an industrial application perspective.
- To *understand and apply* the mathematical concepts for IOT based data analysis and its interpretation.
- To *apply* principles of wireless communications to develop IOT based models using different types of sensors, wireless technology and cloud platforms.

Outcomes:

Participants should be able to:

- Understand the concepts of sensors, wireless technologies, cloud platforms, IOT security and data analysis methodologies.
- Aggregate, process and analyze IOT and IOE based data.
- Train students using recent tools and technologies.
- Do research in the area of wireless communication, IOT, IOE and Cloud Computing.

About IEEE:

IEEE, an association 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.

About IEEE Bombay Section:

Aligned with the Vision and Mission of IEEE, IEEE Bombay Section was formed in 1976 under Region 10 with the Territory of Maharashtra, MP (and Chhattisgarh), Gujarat, Hyderabad and Goa. The Section's major activities are led by its standing committees and affinity groups and its 14 society chapters. Student Activities are focused on Students whereas specific membership related activities such as Women In Engineering activities, Young Professional and Life Members are driven by respective groups. IEEE Bombay Section has special interest group on Humanitarian activities (SIGHT) and all these work tirelessly in pushing their high-impact activities to the beneficiary groups. IEEE Bombay Section is formally registered as IEEE Mumbai Section Welfare Association and is registered as Education Charitable NGO

Tentative Schedule:

Day	Timing	Topic	Resource Person
Day 1 24/06/2024 Online	10:00 to 12:00 pm	Inauguration Keynote address	Dr. Hari Prabhat Gupta (IIT-BHU)
	01:00 to 02:30 pm	[Session-1] Introduction to remote sensing and associated technologies	Dr. Sujata Alegavi (TCET)
	02:45 to 04:00 pm	[Session-2] IOT and IOE security aspects - An industrial perspective	Mr. Harsha Bhat KPMG, Bangalore
Day 2 25/06/2024 Online	10:00 to 12:00 pm	[Session-3] Fundamentals of IOE security aspects	Dr. Arun PV (IIT-B)
	01:00 to 02:30 pm	[Session-4] Intelligence of Things: AI-IOT based critical applications and innovations.	Mr. Sony Anthony KPMG, Bangalore
	02:45 to 04:00 pm	[Session-5] Recent tools for data analysis-validation and verification.	Mr. Dhruv Patil Ithena Pvt Ltd., Pune
Day 3 26/06/2024 Offline (SFIT)	10:00 to 12:00 pm	[Session-6] Hands-On: Data pre-processing to data visualization using R/Python	Ms. Shraddha More (St. John College)
	01:00 to 02:30 pm	[Session-7 and 8] Hands On: Building IOT network using NODE-MCU	Mr. Manoj Kevadia (TSEC)
	02:45 to 04:00 pm		
Day 4 27/06/2024 Offline (SFIT)	10:00 to 12:00 pm	[Session-9] Hands On: Data analysis associated mathematical fundamentals	Dr. Bidisha Roy (SFIT)
	01:00 to 02:30 pm	[Session-10] IOE as an enabler for Industry 4.0	Dr. Prachi Raut (SFIT)
	02:45 to 04:00 pm	[Session-11] Encompassing IOT with cloud computing	Mr. Mayur Parulekar (DJSCOE)
Day 5 28/06/2024 Offline	10:00 to 04:00 pm	Industrial Visit BuildNT Pvt Ltd., Andheri Saki Naka
Day 6 29/06/2024 Online	10:00 to 11:00 am	Stress Management	Mr. Justin Shon
	11:00 to 12:00 pm	Valedictory

About SFIT:

With a rich legacy of 25 years, St. Francis Institute of Technology (SFIT), is a hub of innovation and academic excellence. Established with a commitment to building technological entrepreneurs, promoting innovative leaders and embracing the Franciscan vision, SFIT stands as a beacon in the field of technology. SFIT is an autonomous institute permanently affiliated with Mumbai University and is accredited NAAC A+ grade till 2027 and all eligible programs are accredited by NBA. It is equipped with state-of-the-art facilities and a dedicated faculty and offers a diverse range of programs, including seven UG programs, two PG programs and two PhD programs .

About TCET:

The Thakur College of Engineering & Technology (TCET), a Graded Autonomous 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 17 UG, 5 PG and 5 Ph.D. (Tech.) programmes. Besides this, TCET has started B.Voc. in Artificial Intelligence and Data Science w.e.f. A.Y. 2021-22, Software Development w.e.f. A.Y. 2022-23 and Animation & Graphic Design, Data Analytics w.e.f. A.Y. 2023-24. TCET is ISO 9001:2015 certified Institute. This certification has helped Institute to develop a process-driven-student-centric system required for quality education in the 21st century. As a result, Institute is accredited by NAAC with an “A” grade for five years and programmes are accredited by NBA for three years. TCET has always been known for its unique journey of deciphering and deploying innovative approaches in academics & research. The institute also takes initiatives in implementing innovative academic and technology endeavours in line with industry requirements.

Important Dates:

Last date for registration: 24th June 2024

Who can participate?

Faculty members of higher technical educational institutes

Registration:

The Registration is free for IEEE Members and Rs. 500/- for Non IEEE Members Participants are requested to click on the link or scan the QR Code & register.

<https://forms.gle/9UJ9bzt9RwQWQwn66>

Contact Details:

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