AICTE Training and Learning (ATAL)

Academy Sponsored One Week

Faculty Development Programme

On

Building Smarter Cities : Strategies for Sustainable Future

January 15-20, 2024

Organized by
Department of Electrical Engineering

COEP Technological University
(COEP Tech)
A Unitary Public University of Govt. of Maharashtra
(Formerly College of Engineering Pune)
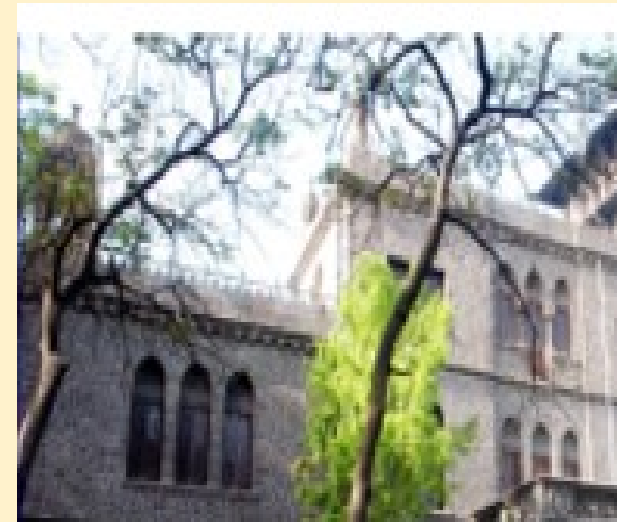Pune 411 005, Maharashtra INDIA.

AICTE ATAL Academy:

All India Council of Technical Education (AICTE) through its newly established AICTE Training and Learning (ATAL) Academy have started unique faculty development programs for various thrust areas of contemporary technology. ATAL Academy successfully conducted 5 days 1000 online Faculty Development Programs (FDPs) in nine thrust areas for the academic year 2020-21 and 1,00,000+ faculty members, research scholars and post graduate students participated. The FDPs were very well received throughout the country with participation from various premiere institutions, R& D organization and industries. In the year 2023-24, 450 FDPs have been approved in the emerging areas.
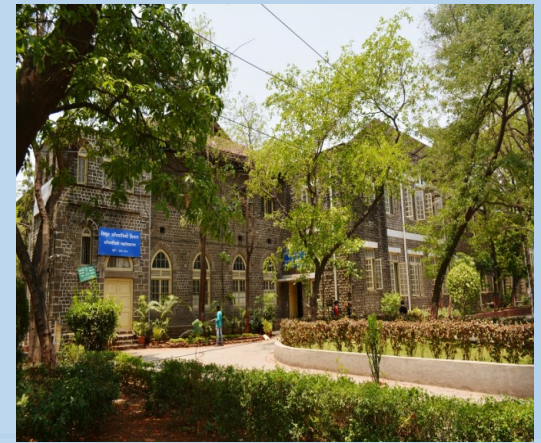

About COEP Tech :

COEP Tech formerly College of Engineering Pune (COEP), chartered in 1854 is a nationally respected leader in technical education. The institute has rich history and dedication to the pursuit of excellence. COEP Tech offers a unique learning experience across a spectrum of academic and social experiences. The hallmark of COEP Tech education is its strong and widespread Alumni network, support of the industry and the Camaraderie that the institute shares with several foreign universities. The institute is consistently ranked amongst the top 100 technical institutions in India. In 2003, the college was awarded autonomous status, thus giving it the freedom to set its own curricula and manage its own finances. Post autonomy the institute has demonstrably progressed in leaps and bounds, in terms of its academics, research, outreach, networking, and rankings. Known for its intense and persistent bondage with industry and galaxy of alumni, the campus, in recent years, has established technology-specific schools/ Centers of Excellence and minimum two state-of-the-art laboratories at every academic department, all from magnanimous contributions of industry/corporate and alumni. The institute has around 3500 students on roll pursuing undergraduate, postgraduate, and doctoral programs in various disciplines of engineering. The hallmark of COEP Tech education is its strong and widespread alumni.

About Electrical Engineering Department

The Electrical Engineering Department was established in 1932 with UG program. It started its PG program in 1952. It currently hosts a UG, three PG, and Ph.D. programs. Over the past 91 years, this Department has produced electrical engineers who have aided in national and worldwide industrial growth.

The Department hosts a diverse and vibrant research portfolio in the areas such as Green Energy, Real-Time Robust Control of Actuated Systems, Optimal Control of Power Flow, UPFC, Efficient PM machines, Fuzzy Controllers, Power Converters and Drives, Power quality analysis, and many more. Both graduate and undergraduate students benefit significantly from the research activities of our professors, greatly enhancing their educational experience.

Faculty members engage in industrial consultancy with companies like Emerson, L&T, Bosch, etc. Special training programs for industry persons are organized by the department. The department hosts a Center of Excellence in Smart Renewable Energy Systems and has industry supported Hella Frugal Innovation Laboratory. The department has also established the K. R. Natu School of Electrical Engineering through its alumnus support.

The indigenously developed laboratory setups are attracting the attention of elite institutes including the IITs. Some of these setups are a first-of-its-kind in the country.

About FDP

Smart cities are an emerging concept and have gained substantial prominence. The Indian government is also interested and has invested a lot of funds into smart cities. Smart cities integrate advanced technologies, data driven insights and sustainable practices to enhance the quality of life, optimize resource utilization and create an efficient ecosystem. This FDP aims to address the multidisciplinary nature of smart cities. It will delve into topics like Internet of things, data analytics, renewable energy integration, smart energy systems, urban mobility and citizen engagement. It will comprise expert lectures, hands on sessions, collaborative discussions to foster a holistic understanding of the smart city paradigm.

Course Contents
- Smart city concept
- Advanced Technologies
- Smart Energy Systems
- Smart Sensors
- IoT devices
- Smart mobility
- Traffic Management
- Data Analytics and visualization
- Sustainable urban planning
- Digital twin for smart cities
- Relevant case study
- Visit to Smart City PCMC

Resource Persons

Dr. Surekha Deshmukh, Chair IEEE Smart City Climate Change.

Dr. Seva, Ador Powertron Limited.

Dr. Souvik Barat, Principal Scientist, TCS Research.

Dr. Pranav Lad, Education Team, Mathworks.

Mr. Shreeyash Kolhapure, Head-Digital Innovation Hub, Sandvik Coromant

Dr. Sanjay Dambhare, Principal, GEC Chhatrapati Sambhajinagar.

Dr. Radhika Joshi, Asso. Prof. EnTc Dept, COEP Tech

Dr. Rohini Mudhalwadkar, Asso. Prof. Instru Dept, COEP Tech

Dr. Arti Petkar, Asst. Prof. Civil Dept, COEP Tech

Dr. Meera Murali, Asso. Prof. Electrical Dept, COEP Tech

Registration Guidelines

• The registration is open to the faculty members of AICTE approved institutions, research scholars, PG scholars, participants from Government and Industry institutions.

• Participants interested to attend the FDP are required to register themselves on the webpage of ATAL Academy.

• Seats are limited and selection will be based on first come first serve basis.

• The certificates will be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with minimum 80% attendance and score minimum 70% marks in the test.

• Registration Fees: Nil

• All the participants are requested to register using following link: http://atalacademy.aicte-india.org/login

Patron

Dr. Vinod Mohitkar
Director, Technical Education, Maharashtra

Dr Pramod Chaudhari
Chairman, BoG, COEP Tech

Dr. Sudhir Agashe
Vice Chancellor, COEP Tech

Advisory Committee

Dr. Prashant Bartakke
Dean, ECE School, COEP Tech

Dr. Rajaram Ugale
HoD, EED, COEP Tech

Coordinator

Dr. Mrs. Snehal Unde
Phone: 020- 2550 7414
Cell: +91 9527440801
E-mail:
svu.elec@coeptech.ac.in

Co-coordinator

Dr. Mrs. Meera Murali
Phone: 020- 2550 7407
Cell: +91 9922411402
E-mail:
mm.elec@coeptech.ac.in

Organizing Committee

Dr. Mrs. Archana Thosar
Dr. Sanjay Dambhare
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