

About the Department

The Department of Electronics and Communication Engineering was established in the year 2009. The Department has a UG programme, B.E- Electronics and Communication Engineering with current intake of 90. The Department has highly qualified faculty members with total staff strength of 13 including Teaching and Non-Teaching staff. The Department is dedicated to groom every student of the Department into an internationally competent engineer with application-oriented learning, research activities, dynamic entrepreneurial abilities and human values, thereby meeting the demands of society. The department has spacious laboratories and state-of-the-art equipment for various laboratories. The Electronics and Communication Association offers seminars, workshops, and FDPs on cutting-edge technology in addition to its regular classes and lab sessions.

About ATAL Academy

All India Council for Technical Education (AICTE) through its newly established AICTE Training And Learning (ATAL) Academy has been initiating unique faculty development programs in various thrust areas of modern technology. ATAL Academy successfully conducted 5 days face to face 190 FDP (Faculty Development programs) in nine thrust areas for A/Y 2019-20 and approximate 10000 faculty members. In 2020-21, 1000 online FDP are being conducted and more than one lakh participants have already participated including faculty, Research Scholar, PG students, CBSE teachers and Industry persons. The online FDP of 20-21 has been recognized as a world record by World Book of Record, London. This is also important that FDP sessions are recorded and available on portal so that anyone can learn in the future. The objective of AICTE's ATAL is to impart quality training through FDP from which participants will acquire sound domain knowledge and skills to apply in real life with industry connect. Also to understand their roles in community wellbeing, academic leadership and for their own career development.

CHIEF PATRON

Mr.MRKP.Kathiravan, B.E.,
Chairman & Managing Trustee, MRKIT

PATRONS

Dr.K.Anandavelu, M.E., Ph.D.,
Principal, MRKIT

Dr.E.Gokulakannan, M.E., Ph.D.,
Associate Professor, MRKIT

COORDINATOR

Dr.A.Nithya, M.E., Ph.D.,
Associate Professor,
Department of ECE, MRKIT

CO-COORDINATOR

Dr.R.Gomathi, M.E., Ph.D.,
Assistant Professor,
Department of EEE, MRKIT

About the Institution

MRK Institute of Technology, the 'Temple of Learning' for engineering education, was founded in 2009, situated over a sprawling 12.5-acre campus with lush lawns, a beautiful landscape, aesthetic architecture and state-of-the-art infrastructure. The College epitomizes an exemplary setting for higher learning at the backwaters of Vadavaru, in Nattarmangalam village of Kattumannarkoil taluk. Accessibility to quality engineering education by the rural students was the desire of its eminent founder, who founded this engineering institution with the revolutionary goal of empowering the rural and impoverished pupils. It is accredited with NAAC A+ and affiliated to Anna University .



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organizes



**AICTE TRAINING AND LEARNING (ATAL)
ACADEMY SPONSORED
One-Week Basic OFFLINE Faculty
Development Programme on**

ROLE OF GREEN ENERGY IN SUSTAINABLE DEVELOPMENT AND SMART CITY APPLICATIONS

DATE : 16th to 21st DECEMBER 2024



Objectives of the Programme

- To know the advanced techniques in utilizing renewable energy for smart city applications and sustainable Development
- To emphasize the value of energy conservation and impart comprehensive knowledge of practical methods for energy audits.
- To enable future scientists to fully explore the untapped research potential of green technologies.
- To arrange an industrial visit for the participants to gain practical exposure with Solar power generation.
- Through yoga, to improve physical health, self-awareness, stress reduction abilities, and mental health.

About FDP

The objective of FDP is to provide decent quality of life to citizens in cities, a clean and sustainable environment through 'Smart' Solutions. All economic activity is propelled forward by energy. As a result, there is growing concern over the world's population growth and the resulting need for energy to maintain rising standards of life. Specifically, the cost of energy, the development of environmentally friendly usage technologies, and the availability of sufficient and appropriate energy sources have been critical problems that require prompt attention. This FDP seeks to enhance the research abilities of novices, elevate the caliber of work being done by seasoned green energy researchers, and provide a basic understanding of sustainable energy.

Expert Resource Persons

Experienced and recognized experts from various Engineering institutes like IITs, NITs, VIT, PTU and Field Experts from industries will conduct the program.

Course Content

- Introduction and Challenges in green technologies
- River Pollution Monitoring for Smart Cities using Underwater Sensor Networks
- Effective Smart Solid Waste Management
- Electric Vehicles for Sustainable Future
- Smart Healthcare: Internet of Medical Things (IoMT)
- Recent Issues in Renewable Energy Sources
- Sustainable Solution for Air Pollution and Climate Change in Smart City Applications
- Remote Sensing Technologies for Climate Change Mitigation and Adaptation in Context of SDGs
- Optimal Sizing of Renewable Energy Sources for Net Zero Energy Buildings
- Health, Happiness and Stress Management- Practical Session
- Hands on Session: NS3, Thingspeak, ML Algorithms, Raspberry Pi

Eligibility

Faculty members of AICTE - approved institutions, Research Scholars and Industry professionals are eligible to participate in this BFDP. The external participants with 90% attendance and who are from more than 20KM radius of the institution will be provided to and fro travel fair (either bus or train (2S)) on the submission of proof. ATAL FDP is free and no fee will be charged from any participants. A working lunch will be provided. Accommodation will be arranged on request (self payment).

Guidelines

- The FDP will be conducted in OFFLINE MODE.
- There will be 10 sessions in six days. (Per day two resource person sessions, one practical session and one article discussion session will be available).
- As per ATAL Academy guidelines, no registration fee will be charged from the participants.

- Attendance is mandatory.
- As a part of the FDP, the programme objective based Quiz contest will be conducted as assessment for all the participants.
- Participats with minimum 80% attendance and secured more than 60% of score in the assessment test will be issued ATAL Academy Certificate.

Key Dates

Last Date for Registration : 06.12.2024

Date of the FDP : 16.12.2024 to 21.12.2024

Registration

Registration is mandatory for attending the FDP. The participants are requested to register in the ATAL portal.

<https://atalacademy.aicte-india.org/login>

Scan QR code Register



FOR FURTHER DETAILS

Dr.A.NITHYA (Coordinator)
Associate Professor,
Department of ECE,
MRK Institute of Technology.

Dr.R.GOMATHI (Co-Coordinator)
Assistant Professor,
Department of EEE,
MRK Institute of Technology.

Email : fdp@mrkit.in Ph : +91 89400 45056

For any kind of Assistancess :

Prof.S.Sathya Moorthy
Mob : +91 89400 45056

Dr.A.Mahabubadsha
Mob : +91 70109 04615