

## PATRON

Dr. A. P. Majeed Khan, Chancellor, NICHE  
Shri. M. S. Faizal Khan, Pro Chancellor, NICHE

## CO-PATRONS

Dr. R. Perumalsamy, Pro Chancellor,(Academics), NICHE,  
Dr. Tessy Thomas, Vice Chancellor, NICHE  
Dr. A. Shajin Nargunam, Pro Vice-Chancellor(Academic),  
NICHE  
Dr. K. A. Janardhanan, Pro Vice-Chancellor(Admin), NICHE  
Dr. P. Thirumalvalavan, Registrar, NICHE  
Dr. M. K. Jeyakumar, Controller of Examinations, NICHE

## PROGRAM COORDINATOR

Dr. D. M. Mary Synthia Regis Prabha,  
Associate professor, Dept. of Electrical and  
Electronics Engineering, NICHE  
Years of Exp.: 23 Years



## PROGRAM CO-COORDINATOR

Dr. B. Ben Sujitha,  
Professor, Dept. of Computer Science and  
Engineering, NICHE, Kumaracoil  
Years of Exp.: 22 Years



## ORGANISING TEAM

Dr. J. Arul Linsely, HOD.EEE, NICHE  
Dr. P. Sujatha Therese, Professor, EEE, NICHE  
Dr. S. Anitha Janet Mary, Associate Professor, EEE, NICHE  
Dr. H. Vennila, Associate professor, EEE, NICHE  
Dr. Tibbie Pon Symon, Assistant Professor, EEE, NICHE  
Dr. K. Muthuvel, Assistant Professor, EEE, NICHE  
Dr. V. S. Bindhu, Assistant Professor, EEE, NICHE

## IMPORTANT DATES

Last date for receipt of applications : 06-02-2025  
Intimation of selection : 08-02-2025  
Dates of FDP : 10-02-2025 to 15-02-2025

## MAJOR TOPICS

- Emerging Trends driving the future of Electrical Systems
- Role of ICT (Information and Communication Technology) in Smart Systems
- AI techniques in power generation, distribution, and smart grids
- Machine Learning for predictive maintenance and fault detection in systems using digital twins
- Applications of block chain in energy management and trading
- Hands-on Training using Arduino/Raspberry Pi for setting up a simple IoT-based smart metering system
- PLC (Programmable Logic Controller) for Automation in Smart Systems
- Design of Smart Metering ICs
- Role of IoT in smart grids, smart meters, and energy optimization
- Smart metering for next generation energy efficiency & conservation
- Emerging Technologies in Renewable Energy Systems
- Green energy and sustainability solutions for the future
- Energy Market Dynamics and the Role of Renewable Integration in Modern Power Systems

## ABOUT THE PROGRAM

Smart power systems are advanced electricity networks that integrate digital communication, automation, and renewable energy technologies to enhance grid reliability, efficiency, and sustainability. This Online Faculty Development Program (FDP) focuses on the emerging technologies driving innovation in smart power systems. Over six days, participants will gain insights into critical advancements such as smart grids, renewable energy integration, automation, advanced protection schemes, and digital solutions like AI and ML. Through expert-led sessions, participants will explore how these technologies are reshaping modern power systems, improving grid reliability, and enabling sustainable energy transitions.

## ELIGIBILITY

Faculty members from various Engineering Colleges, working professionals and practicing engineers from various Research Organizations and Industries can apply. Continuous Comprehensive Assessment of Candidates shall be carried out and certificate shall be issued by AICTE Training and Learning (ATAL) academy on satisfying the requirements mentioned below.

- Attend atleast 80% of the online sessions
- Score atleast 70% on the assessment
- Submission of feedback in the ATAL Portal

## Six days ATAL Sponsored Online FDP on Advanced Technologies for Smart Power Systems

From 10<sup>th</sup> to 15<sup>th</sup> February, 2025  
In Association With



AICTE Training and Learning (ATAL)  
Academy AICTE, New Delhi



Program Coordinator  
Dr. D. M. Mary Synthia Regis Prabha  
Associate Professor  
Department of Electrical and Engineering

Organized by  
Department of Electrical and Electronics Engineering



NOORUL ISLAM CENTRE FOR HIGHER  
EDUCATION, KUMARACOIL-629180

## RESOURCE PERSONS



Dr. Sheeba Rani J.,  
Professor, IIST,  
Thiruvananthapuram  
Years of Exp.: 26 Years



Dr. S. Senthil Kumar,  
Professor,  
NIT, Trichy  
Years of Exp.: 23 Years



Mr. George Sam  
Devadhas,  
GM, JSW Energy  
Ltd, Karnataka, India  
Years of Exp.: 27 Years



Dr. Arun Dominic,  
Assistant Professor,  
NIT, Karnataka  
Years of Exp.: 12 Years



Dr. B. Ben Sujin,  
Professor,  
University of  
Technology and  
Applied Sciences,  
Sultanate of Oman  
Years of Exp.: 22 Years



Mr. Aby Charles,  
Senior Tech lead,  
Mercedes-Benz  
R&D,  
Bengaluru,  
Karnataka  
Years of Exp.: 11 Years



Dr. Durai Raj Vincent P. M.,  
Professor,  
VIT, Vellore,  
Tamilnadu  
Years of Exp.: 19 Years



Dr. Akhil Jose ,  
Associate Technical  
Architect at KPIT,  
Bengaluru, Karnataka,  
India  
Years of Exp.: 11 Years



Dr. Sarin C R.,  
Associate Lead,  
L&D, Quantiphi  
Years of Exp.: 13 Years



Dr. Sisil Kumarawadu,  
Senior Professor,  
University of Moratuwa,  
Srilanka  
Years of Exp.: 22 Years



Dr. D. Ramesh,  
Development  
Engineer, Signify  
Innovation India Ltd.,  
Bangalore  
Years of Exp.: 16 Years



Mr. Hari Anand A.,  
Energy Markets  
Consultant at ICF,  
Dehradun,  
Uttarkhand  
Years of Exp.: 10 Years



Dr. Arul Kumar Subbiah,  
IC Design Engineer  
(Broadcom)  
San Jose, California,  
United States  
Years of Exp.: 17 Years

## A BRIEF HISTORY ABOUT THE INSTITUTION

Noorul Islam Centre for Higher Education, known as NICHE, Kanyakumari formerly known as Noorul Islam College of Engineering was established with a humble beginning in the year 1989 with two undergraduate engineering programs with an intake capacity of 80 students, has now metamorphosed itself into one of the great and best educational institutions in southern part of India. The University campus at Kumaracoil, Thuckalay in Kanyakumari District of Tamilnadu is in the serene and lush green base of Velimalai, a spectacular part of Western Ghat Hills near the historically famous Padmanabhapuram Palace. It is only 1.5 km interior towards the foothills of the mountains from Kumaracoil Junction on the Kanyakumari Trivandrum National Highway (NH-47)-about 30 km from Kanyakumari and 60 km from Trivandrum, the capital city of the state of Kerala.

### ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering came into existence in the NICE Campus during the Academic year 1993-1994. The Department offers an under graduate programme in Electrical and Electronics Engineering, a post graduate programme in Applied Electronics and Ph.D programme.

The department has well qualified, experienced and dedicated teaching faculty in different areas of the discipline such as Applied electronics, Process control and Instrumentation Engineering, Power Electronics etc. The Department is staffed with highly qualified faculty members all holding doctoral degrees in diverse areas of Electrical and Electronics Engineering. Laboratories such as Electrical Machines lab, Electrical Workshop, Power Electronics lab, Control Systems lab and Power System Simulation lab are well equipped and designed in such a way so as to provide an industrial environment to the students.

### ABOUT ATAL

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

As a part of its activity this Online FDP program sponsored by ATAL is conducted at Noorul Islam Centre for Higher Education, Kumaracoil from 10th to 15th February 2025. The primary goal of this FDP is to equip participants with the basic knowledge of the Advanced Technologies in Smart Power Systems and to inspire participants to engage in research and development within these cutting-edge areas.

## HOW TO APPLY

Faculty from all CFTI/IIMs/IITs/IIITs/NITs/NIDs/Central Universities/State Technical Universities/ AICTE Approved Institution / Private and Deemed to be Universities conducting technical programmes, Post Graduate Students (only AICTE Approved Institutions), Research Scholars and Industry Professionals can participate in the programme. There is **No Charge for Registration, Course and Certification**. Applicants can fill the registration form only through online mode available at <https://atalacademy.aicte-india.org/signup>

## ADDRESS FOR COMMUNICATION

Dr. D. M. Mary Synthia Regis Prabha,  
Convener, ATAL Sponsored Five Days Online FDP on  
"Advanced Technologies for Smart Power Systems"  
Noorul Islam Centre for Higher Education, Kumaracoil,  
Kanyakumari District,  
Tamilnadu -629168

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