



**AICTE – ATAL Sponsored
Five-day FDP (Online) on
Planning and Operation of Smart Grids:
Recent Trends and Developments**

December 06 to 10, 2021



CO-ORDINATORS

Dr. Imthias Ahamed TP
Dr. Mathew P Abraham

Organized by
Department of Electrical and Electronics Engineering,
TKM College of Engineering, Kollam, Kerala
<http://www.tkmce.ac.in>

Eligibility

Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry and staff of host institutions are eligible to register

Registration

- There is no registration fee for the participants.
- Number of participants is limited to a maximum of 200 on first-come-first-serve basis. Registration only through AICTE ATAL Portal. <https://www.aicte-india.org/atal>
- Login as participant >> Search FDP >> Apply

Important Dates

Last Date of Registration	Nov 30, 2021
Intimation of Selection	Dec 02, 2021
FDP Dates	Dec 06 – 10, 2021

FDP Certificates

Issued directly in AICTE ATAL portal upon successful participation of FDP.

- ✓ **80 % attendance**
- ✓ **60 % marks in assessment**

Contact Us:

Dr. Imthias Ahamed TP
Professor, Dept. of EEE, TKMCE
Phone: +919895316268, imthias@tkmce.ac.in

Dr. Mathew P Abraham
Asst Prof., Dept of EEE, TKMCE
Phone: +919920676904, mathew@tkmce.ac.in

About the College and the Department

Thangal Kunju Musaliar College of Engineering was established in the year 1958 as the first grant-in-aid engineering college in the state of Kerala. The college also offers post graduate programs in engineering, management and computer applications.

The department of Electrical & electronics Engineering, TKMCE, Kollam was started in the year 1958. Presently, it offers one under-graduate program (B.Tech) which is accredited by NBA in aided stream and one Post-graduate program in Power Systems (self-financing scheme).

Content Includes:

- Planning and Operation of Power Systems.
- Introduction to Smart Grids.
- Basic Power Electronics Converters: Applications in Smart Grids.
- Motivational Talk on Wellness and Storytelling.
- Introduction to Non-linear programming.
- Economics of Smart Grids.
- Microgrids and peer to peer energy trading.
- Smart Signaling Frameworks for smart grids.
- Smart Grid Projects in Europe.
- Design of Protection systems in Smart Grids.
- Application of RL to Smart Grid Scheduling Problems.
- Addressing Power Quality Issues in Smart Grids.
- Smart Grids in India.
- Power Electronic Solutions: Integration of Renewable generation in Smart Grid

**AICTE – ATAL Sponsored Five-day FDP (Online) on
Planning and Operation of Smart Grids: Recent Trends and Developments
December 06 to 10, 2021**

TENTATIVE SCHEDULE OF THE FDP

Date	9:00 AM To 11:00 AM	11:15 AM to 01:15 PM	2:30 PM to 4:30 PM
06-12-2021 (Monday)	Planning and Operation of Power Systems Dr. K Bijuna Kunju, Professor, Dept of EEE, TKMCE.	Introduction to Smart Grids Dr. Sarasij Das Assistant Professor Department of Electrical Engineering, Indian Institute of Science, Bengaluru.	Basic Power Electronic Converters : Applications in Smart Grids Prof. Arun L, Assistant Professor, Dept. of EEE, TKMCE
07-12-2021 (Tuesday)	Story Telling, Wellness Jessy Jacob Fit the Soul	Introduction to Non-linear Programming Dr. Mathew P Abraham, Assistant Professor, Dept. of EEE, TKMCE.	Economics of Smart Grids. Dr. Anupama Kowli Assistant Professor, Dept. of EE, IIT Bombay
08-12-2021 (Wednesday)	Microgrids and Peer-to-Peer energy trading Dr. M P Selvan, Associate Professor, Dept. of EEE, NIT Trichy	Smart Signaling Frameworks for Smart Grids Dr. Ankur Kulkarni, Associate Professor, Systems and Control Engineering, IIT Bombay	Power Electronic Solutions : Integration of Renewable generation in Smart Grid Prof. Jayanand, Professor, Dept. of EEE, GEC Thrissur.
09-12-2021 (Thursday)	Application of RL to Smart Grid Scheduling Problems Dr. Imthias Ahamed T P Professor, Dept. of EEE, TKMCE	Design of Protection systems in Smart Grids Dr. Gopal Gajjar, Research Scientist at IIT Bombay	Smart Grid Projects in Europe Dr. Mousa Marzband Senior Lecturer, Northumbria University, UK
10-12-2021 (Friday)	Smart Grids in India Dr Suneetha Chauhan, PGCIL	Addressing Power Quality Issues in Smart Grids Prof. Thasneem A Assistant Professor, Dept. of EEE, TKMCE	Assessment and Feedback