

ABOUT INSTITUTE:



Established in 2000, the CMR Institute of Technology imparts quality, pragmatic education in engineering and management to help students hone their analytical abilities and develop their creative thinking skills. CMRIT meets the rapidly growing need for technology professionals by nurturing young minds in an innovative and progressive learning environment. Situated in the very heart of South India's IT corridor, the CMRIT campus in Whitefield, Bangalore is centrally located, well connected and easily accessible.

At CMRIT, we are dedicated to holding aloft the flame of Sri Chikka Muniyappa Reddy's dreams. Towards this end, we are committed to promoting technical education as a catalyst to the growth and development of the country and society at large. With world-class infrastructure and experienced faculty, CMR Institute of Technology is the preferred destination for technocrats and managers who wish to shape the future.

ABOUT DEPARTMENT:

The Department of Electrical & Electronics Engineering was started in the academic year 2002-2003. The Department offers an undergraduate programme in the field of Electrical & Electronics Engineering for which the student intake is currently 120.

The Department of Electrical & Electronics Engineering is approved by the All India Council for Technical Education (AICTE), and is permanently affiliated to Visvesvaraya Technological University (VTU), Belgaum in Karnataka. The National Board of Accreditation, New Delhi accredits the Department. The Department has established a Research Centre under VTU to facilitate research activities for both faculty and students. Students may also opt to pursue an M.S. through the research programme.

RESOURCE PERSONS:

The Experts and resource persons from NIT Surathkal, Malaviya National Institute of Technology -Jaipur, VIT Vellore, Reva University-Bangalore RVCE-Bangalore, BMS college of Engineering-Bangalore

ORGANIZING COMMITTEE:

PATRONS:

Shri. K C Ramamurthy

Chairman, CMRGI

Dr. Sabitha Ramamurthy

President, CMRJT,
Chancellor, CMR University

Shri. K.R. Jayadeep

CEO, CMRGI, Pro-Chancellor, CMR University

ADVISORY COMMITTEE:

Dr. Sanjay Jain, Principal, CMRIT

Dr. B .Narasimha Murthy, Vice-Principal, CMRIT

CONVENER:

Dr. K. Chitra, HOD-EEE, CMRIT

PROGRAMME COORDINATOR:

Dr. Hemachandra G, Assistant Professor, EEE

ORGANIZING COMMITTEE:

Dr. Viji K, Assistant Professor, EEE

Dr. Arijit Datta, Assistant Professor, EEE

Ms. Parvathy T, Assistant Professor, EEE

Ms. Reshma P, Assistant Professor, EEE

Ms. Keka M, Assistant Professor, EEE

VENUE:

Mechanical AV Hall, CMR
Institute of Technology,
Bengaluru-560037

IMPORTANT DATES:

Submission of Application : 15/12/21
Intimation of Selection : 20/12/21
Confirmation by Participants : 25/12/21



AICTE- ATAL SPONSORED FIVE DAY FACULTY DEVELOPMENT PROGRAMME (FDP)

ON ARTIFICIAL INTELLIGENCE TECHNIQUES FOR SMART GRID (AITSG-2021)

(27.12.21 to 31.12.21)

COORDINATOR:

Dr. Hemachandra G,
Assistant Professor,
Department of EEE

CMRIT, Bengaluru-560 037

Sponsored by AICTE, NEW
DELHI under



**AICTE Training & Learning (ATAL)
Academy**



COURSE CONTENT:

- The Role of Artificial Intelligence in Renewable energy systems.
- Application of Artificial Intelligence to power system fault diagnosis and Protection.
- Artificial Intelligence Methods for Solar Forecasting and optimum Sizing of PV systems
- Artificial Intelligence Aided Automated Design for Reliability of Power Electronic Systems.
- Smart Grid: Cyber Physical System Entity.
- Artificial Intelligent (AI) Based Cascade Multi-Level Inverter for Smart Grid.
- Intelligent automated controller for PV fed Induction motor water pumping systems.
- Demand Side Load Management using Artificial Intelligence algorithms in a smart grid environment.
- Artificial intelligence techniques for stability analysis and control in smart grids.

RESOURCE PERSONS:

- Dr. Panduranga Vittal, Professor, NIT Surathkal
- Dr. Manjunatha Sharma, Associate Professor, NIT Surathkal
- Dr. Padmavathi K, Professor, BMS College of Engineering Bengaluru.
- Dr. Santosh Kumar, professor, Reva University, Bengaluru.
- Dr. S. G. Srivani, Associate Professor, RVCE, Bengaluru.
- Dr. Rajanarayana Prusty, Associate professor, VIT Vellore.
- Dr. Saravana Prakash, Assistant Professor, MNIT, Jaipur.
- Dr. Sandeep N, Assistant Professor, MNIT, Jaipur.
- Dr. Prakash Pawar, Assistant Professor, IIIT Dharwad
- Dr. Arjun M, Post-doctoral Fellow, IISC Bangalore.

ELIGIBILITY:

1. There is no registration fee from any participants.
2. All the faculties & Research Scholars from AICTE approved institutions are eligible for the workshop.
3. No TA/DA will be paid to any participants.
4. Number of participants is limited to 50.
5. Participants will be selected on first-come first-served basis.
6. Selected candidates will be intimated by e-mail confirmation of participation is to be made by email only.
7. Faculty members selected for the programme should get the authorization certificates signed from the Principal.
8. The Coordinator's decision will be final in the selection of participants.
9. Participants will have to make their own stay arrangements during the five days.

Scanned copy of filled in registration form is to be sent to hemachandra.g@cmrit.ac.in

ADDRESS FOR COMMUNICATION

Dr. Hemachandra G,
Assistant Professor,
Department of EEE,
CMRIT, Bengaluru-560 037

Mobile: +91-8618899095
Email: hemachandra.g@cmrit.ac.in
Registration Link:
<https://forms.gle/SFsFBY7K9vviewCHD6>

REGISTRATION FORM:

AICTE- ATAL SPONSORED FIVE DAY FDP ON ARTIFICIAL INTELLIGENCE TECHNIQUES FOR SMART GRID (AITSG-2021) (27.12.21 to 31.12.21)

Name:

Designation:.....

Qualification & Experience:.....

Department:

Institution:.....

e-mail-id:.....

Mobile No:

Address:

DECLARATION

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of Five-Day workshop under AICTE Training & Learning (ATAL) Academy.

Date: _____
Place: _____ Signature of the Applicant

AUTHORIZATION CERTIFICATE

This is to certify that -----
----- is a regular employee/Research Scholar of our institutions and is hereby permitted to attend the five days ATAL work- shop at Department of EEE, CMRIT, Bengaluru-560037.

Date: _____
Place: _____

Signature of the HOD/ Principal with seal



***FDP schedule:**

Date	8:30 AM to 10:30 AM	10:30 AM to 10:45 AM	10:45 AM to 12:45 PM	12:45 PM to 1:30 PM	1:30 PM to 3:30 PM	3:30 PM to 4:00 PM
Monday December, 27	Registration, Inauguration & Overview	Tea	Session 1 Introduction to renewable energy integrated Smart grid By Dr. Manjunatha Sharma K	Lunch	Session 2 The Role of Artificial Intelligence in Renewable energy systems By Dr. Padmavathi K	Tea/Netwo king
Tuesday December, 28	Session 3 Application of Artificial Intelligence to power system fault diagnosis and Protection. By Dr. Panduranga vittal	Tea	Session 4 Application of Artificial Intelligence to power system fault diagnosis and Protection. By Dr. Panduranga vittal	Lunch	Session 5 Artificial Intelligence Methods for Solar Forecasting and optimum Sizing of PV systems By Dr. Prakash Pawar	Tea/Netwo rking
Wed December, 29	Session 6 Artificial Intelligence Methods for Probabilistic PV Generation Forecasting By Dr. Rajanarayana Prusty	Tea	Session 7 Artificial Intelligence Methods for Probabilistic PV Generation Forecasting By Dr. Rajanarayana Prusty	Lunch	Session 8 Smart Grid: Cyber Physical System Entity By Dr. Santhosh Kumar	Tea/Netwo king
Thurs December, 30	Session 9 Application of Artificial Intelligence to power system fault diagnosis and Protection. By Dr. S G Srivani	Tea	Session 10 Artificial Intelligence Aided Automated Design for Reliability of Power Electronic Systems. By Dr. Saravana Prakash	Lunch	Session 11 Artificial Intelligent (AI) Based Cascade Multi-Level Inverter for Smart Grid By Dr. N. Sandeep	Tea/Netwo rking
Friday December, 31 st	Session 12 Intelligent automated controller for PV fed Induction motor water pumping systems. By Dr. Arjun M	Tea	Session 13 Demand Side Load Management using Artificial Intelligence algorithms in a smart grid environment. By Dr. Prakash Pawar	Lunch	Session 14 Artificial intelligence techniques for stability analysis and control in smart grids. By Dr. Hemachandra G	Valediction

* Expert Faculty from CMRIT to handle Hands-on sessions/sessions. *may change

Faculty Coordinator

Dr. Hemachandra Gudimindla, Assistant Professor,
Dept. of EEE, CMR Institute of Technology, Bengaluru

