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ONE WEEK
FACULTY DEVELOPMENT PROGRAM
on
AI APPLICATIONS
IN POWER ELECTRONIC SYSTEMS (AAPES-20)
(20-01-2020 to 25-01-2020)

Organized By
Electrical Engineering Department
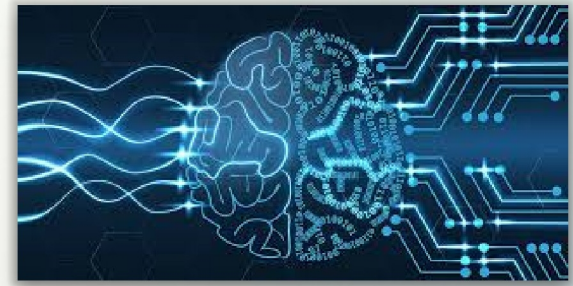
MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE & Affiliated to OU)
Road No.3, Banjara Hills, Hyderabad-500034
Website: www.mjcollege.ac.in

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Rupees (in words)................................ in favor of "PRINCIPAL, MJCET", payable at Hyderabad.
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Signature of the Applicant

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Address for Correspondence
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Mr. Md. Imran : +91- 9885770262
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MJCET

Muffakham Jah College of Engineering and Technology (MJCET) was established in the year 1980 by Sultan-Ul-Uloom Education Society (SUES). The college is affiliated to Osmania University, Hyderabad and approved by AICTE, New Delhi. Today, it is a premier institute, offering BE Courses in 8 Branches (Civil, CSE, ECE, EEE, EIE, IT, Mechanical & Production Engineering) and 5 PG Courses in CAD/CAM, CSE, Digital Systems, Power Electronic Systems and Structural Engineering. The current intake of all UG and PG courses is 780 and 102 respectively. Osmania university has approved research center for Mechanical, ECE, EEE, Civil and CSE for pursuing Ph.D.

VISION OF THE INSTITUTION

To be part of universal human quest for development and progress by contributing high caliber, ethical and socially responsible engineers who meet the global challenge of building modern society in harmony with nature.

ELECTRICAL ENGINEERING DEPARTMENT

The Electrical Engineering Department offers two B.E. Programs and one M.E. Program.
- B.E. in Electrical and Electronics Engineering (Intake 60)
- B.E. in Electronics and Instrumentation Engineering (Intake 60)
- M.E. in Power Electronic Systems (Intake 18)

The four year B.E. program in Electronics and Instrumentation Engineering was started in the year 1997 in order to meet the surging industry demand for professionals in the area of automation and Power who could monitor and control automated engineering systems. Subsequently, the program of Electrical and Electronics Engineering was introduced in 2002 and Masters Program in Power Electronic Systems was introduced in 2013. The research center was established in 2017.

DEPARTMENT VISION

- To produce proficient engineers who illuminate the nation, drive the industry and innovate in the field of power and automation.

DEPARTMENT MISSION

- Provide futuristic and comprehensive technical education to equip students with core competencies and relevant skill sets through effective teaching learning methods and state of art laboratories thus preparing them for global careers.
- Pursue need based research and provide consultancy and testing services to address contemporary issues in the fields of Electrical and Instrumentation Engineering.

PROLOGUE

Artificial Intelligence (AI) is the ability of a computer program or a machine to think and learn. It is defined as the "study and design of intelligent agents", where an intelligent agent is a system that pursues its environment and takes actions that maximize its challenges of success. Numerous problems in engineering cannot be solved by conventional methods based on several constraints which may not be feasible all the time.

Power electronic systems keep on increasing on the basis of geographical regions, assets additions and introduction of new technologies in generation, transmission and distribution of electricity. AI techniques have become popular for solving different problems like control, planning, scheduling, forecast, etc. These techniques can deal with difficult tasks faced by applications in modern large power electronic systems with even more interconnections installed to meet increasing load demand. The application of these techniques has been successful in many areas of power electronic systems.

In these situations, AI techniques like Artificial Neural Networks (ANN), Fuzzy Logic and several meta heuristic techniques like Genetic algorithm, Particle swarm optimization techniques are used. These techniques are widely used in load flow studies, optimal reactive power dispatch, economic dispatch, optimal sizing and placement of DG's, optimal protection coordination of directional over current relays, power electronic converters, control of electric drives, renewable energy systems and smart grid.

COURSE OUTLINE

This one week FDP aims at enhancing the technical knowledge of the participants to applications of Artificial Intelligence (AI) methods like Artificial Neural Network (ANN), Fuzzy Logic and other Optimization Techniques and latest developments in power system, electric drives, renewable energy systems where power electronic is being used extensively. Intensive Hands On sessions using MATLAB and SIMULNIK are being organized during the FDP.

IMPORTANT DATES

Last Date for Registration: 13 Jan, 2020
Participation confirmation through E-mail : 16 Jan 2020

RESOURCE PERSONS

Renowned resource persons drawn from Industry (BHEL, ABB), Academia (IITH, IIITH, NIT, UoH, OU, JNTUH).

REGISTRATION DETAILS

For Faculty Members	: Rs.1000/-
Participants from Industry	: Rs.1200/-
IEEE/IE(I) Members /	: Rs. 800/-
PG Students/Research Scholars	

Complimentary Kit and Lunch will be provided.
No TA & DA will be paid.

PAYMENT DETAILS

DD in Favour of
PRINCIPAL MUFFAKHAM JAH COLLEGE OF ENGG. AND TECH,
Payable at HYDERABAD
Or
Make Online Payment

Account Name : PRINCIPAL MJCET
Account Number : 52086275130
IFSC Code : SBIN0020940
MICR Code : 500002394

VENUE

Seminar Hall, Block-4,
Muffakham Jah College of Engg. and Tech.
Road No. 3, Banjara hills, Hyderabad 500 034.