

Participants

Academicians, Research Scholars, Industry People

Certification

All the participants will be provided with an E-certificate of Participation after successful completion of FDP.

Registration

Registration Fees:

For Academicians, Research Scholars
and people from industry } Rs. 500/-

Registration Link:

<https://forms.gle/Ys6Zn4wa1VjmkCK6>

[or scan here to register](#)



Payment to be made in favour of

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For queries please contact: -

Dr. Monika Gupta : 9818006038

Dr. Neelu Naggal : 9811893230

Mr. Ashok Goyal : 8851424257



Maharaja Agrasen Institute of Technology

(Approved by AICTE and Affiliated to GGSIU University)

One Week Faculty Development Program cum Workshop

on
"Latest Technologies and their Applications in Electrical Engineering and Future Energy"

August 16-21, 2021 (Online Mode)

Organized by

Department of Electrical and Electronics Engineering (EEE)



Convener

Prof. (Dr.) Rajveer Mittal, HOD (EEE)

Coordinators

Dr. Monika Gupta

Dr. Neelu Naggal

Mr. Ashok Goyal

Maharaja Agrasen Institute of Technology

Plot No. 1, Sector – 22, Rohini, Delhi-110086

Ph.011-27582095, 65151162/63, 65162001

Website: www.mait.ac.in, E-mail: mait@mait.ac.in

Maharaja Agrasen Institute of Technology

Maharaja Agrasen Institute of Technology was established in 1999 by Maharaja Agrasen Technical Education Society promoted by a group of well-known Industrialists, Businessmen, Professionals and Philanthropists with an aim to promote quality education in the field of Technology and Management. Since then, MAIT has grown from strength to strength to emerge as one of the top technical institutes among the private Institutes and has been constantly ranked amongst the top engineering Institutes by DATAQUEST.

To build lasting relations with Industry, MAIT joins hands with industry in fulfilling the social responsibility of imparting industry relevant technical education and training. Its Alumni have also distinguished themselves through their achievements in industry, academics, research, business, government and social domains. The institute continues to work closely with the Alumni to enhance its activities through interactions in academic and research programmes.

Department of Electrical and Electronics Engineering (EEE)

The Department of Electrical and Electronics Engineering has flourished from intake of 60 students in 2004 to a present intake of 180 students per year. Vision of department is to produce technically competent human resource for electrical and electronics industry with high moral and ethical values. It is an immense pleasure to find alumni of the department getting placed in government jobs and almost all private and multinational companies. The follow-up of the university curriculum, blending core electrical subjects like machines, control and power systems with those of electronics-based communication, VLSI design and microcontrollers have helped in enriching the broad knowledge based with cutting edge technology to foster self-development and confidence to do good & prove one's own worth. The department is equipped with facilities like well-established laboratories, rich library, seminar hall, and AC classrooms and staff rooms. The department conducts lot of quality activities every year to update the knowledge of students and faculty. The inherent skills of our students are being well nurtured by highly qualified faculty and hardworking staff in achieving goals & objectives of the Department.

About the FDP

The FDP will be focussing on giving theoretical and practical experience on advanced technologies like LABVIEW, Deep neural network, Machine Learning. The LabVIEW is a software that is used in industries. It provides the efficient SCADA system and a real time control. It is also useful for research scholars as MATLAB can run within LabVIEW and a hardware interface can be implemented.

Neural Networks, Deep Neural Networks technology is aimed at solving problems such as pattern recognition, speech recognition, character recognition which are difficult for traditional computational methods. Neural networks have potential applications in many industrial areas such as advanced robotics, operations research, and process engineering. Machine Learning is used for Image recognition, translating speech into text, and medical diagnosis.

Objectives of FDP

After attending the FDP, the participants would be able to:

- Understand the fundamentals of recent advanced technologies like LABVIEW, Machine Learning, Optimization Techniques
- Use these technologies to solve many industrial and research problems such as pattern recognition, medical diagnosis and many more.

Expected Outcomes

- Learn the fundamentals of programming in AI
- Get hands-on experience on various tools and interfacing techniques in LabVIEW.
- Get acquainted with advancement in Optimization techniques, Neural Networks, Deep Neural Networks.
- Application of AI in future energy
- Familiarize with the fundamentals of machine learning and 'Python' programming

Mission & Vision

Department VISION: To produce technically competent human resource for electrical and electronics industry with high moral and ethical values.

MISSION: To ensure transformational impact on learning community and modernization in industry by providing quality education with orientation towards research and higher education, imbuing the students with moral and ethical values.

M1. To emphasize quality education by imparting highest quality teaching in a conducive learning environment for the students to meet dynamic industry and global challenges. This shall enable us to be strong provider of skilled human capital to the industry, both in core and software sectors.

M2. To develop state of the art classrooms, seminar hall and modernized laboratory. All the laboratory experiments which are normally performed with the help of hardware equipment shall be backed up and boot strapped with the software experiments.

M3. To develop a strong centre of excellence for technical education and research activities thereby promoting a creative environment for the students to address global challenges and excel at all levels.

M4. Inculcating the spirit of team work, innovation, entrepreneurship and motivate the students to pursue higher education for their overall development.

M5. Enable students to be competent professionals with industrial aptitude ready to face the challenges due to globalization like energy conservation, green revolution.

M6. To enhance the position of EEE department as one of the top ranked teaching and research department in MAIT, GGSIPU and subsequently in India.

M7. To impart moral and ethical values and interpersonal skills to students by providing personal guidance and career counselling by our experienced faculty and staff.

Chief Guest (Inauguration)

Prof. (Dr.) A P Mittal (Ex Member Secretary, AICTE & Director East Campus, NSUT)

Eminent Resource Persons

Prof. (Dr.) Smriti Srivastava (NSUT), New Delhi)

Prof. (Dr.) Vijayant Aggarwal (NSUT, New Delhi)

Dr. Mahinder Singh (Ast. Director, NPTI, Badarpur)

Dr. Lakshmi D (VIT, Bhopal)

Dr. Saurabh Bhardwaj (TIET, Patiala)

Dr. Rajesh Kumar (DTU, New Delhi)

Mr. Manish Vohra (Consultant)

Dr. Om Prakash Jena (Ravenshaw University, Odisha)