

**FIVE DAYS**

# **FACULTY DEVELOPMENT PROGRAMME** *on*

“Artificial Intelligence Tools with  
MATLAB and their Applications”

 **18<sup>th</sup> to 22<sup>nd</sup>  
May 2026**

*Organized by*  
**Department of Electronics &  
Communication Engineering**

*in collaboration with*

 **Design Tech**  
*Technology for designing the future*



## ABOUT THE COLLEGE

Galgotias College of Engineering & Technology, established in 2000, is approved by AICTE, Ministry of Education, Government of India, and affiliated with Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow. The institution is known for blending theoretical knowledge with practical skills, fostering professional excellence.

The campus, spread over 19 acres, is located on an 8-lane expressway connecting Greater Noida with Noida and New Delhi. It offers modern infrastructure, advanced laboratories, hostels, sports facilities, and a vibrant academic environment for holistic development.

## ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering (ECE) is committed to excellence in teaching, research, and innovation. The department focuses on emerging technologies including Artificial Intelligence, Embedded Systems, Communication Systems, and Signal Processing, preparing students and faculty to meet industry demands.

## ABOUT THE FDP

The FDP on “Artificial Intelligence Tools with MATLAB and their Applications” aims to provide a strong foundation in Artificial Intelligence concepts with hands-on implementation using MATLAB. The program focuses on developing practical skills in designing, modeling, and simulating AI-based solutions for real-world engineering applications.

## HIGHLIGHTS


- Hands-on MATLAB Sessions
- AI Modeling & Simulation
- Industry Collaboration
- Real-world Applications
- Skill Development



## FDP SCHEDULE


### DAY 1

18<sup>TH</sup> MAY 2026


Time	Session	Topic	Speaker
10:30 AM - 12:30 PM	Morning	EV Battery & BMS Modelling using MATLAB	 <b>Mr. Arman Ansari</b> Application Engineer <b>DesignTech</b> Systems Pvt. Ltd.
02:30 PM - 04:30 PM	Afternoon	Hands-on: SOC Estimation, Battery Pack Design & Battery Builder App	

### DAY 2



19<sup>TH</sup> MAY 2026

Time	Session	Topic	Speaker
10:30 AM - 12:30 PM	Morning	Introduction to AI/ML & Types of Machine Learning	 <b>Mr. Manoj Kumar</b> Assistant Manager <b>DesignTech</b> Systems Pvt. Ltd.
02:30 PM - 04:30 PM	Afternoon	ML & Deep Learning Hands-on (Model Training, Image Classification)	



**DAY 3****20<sup>TH</sup> MAY 2026**

Time	Session	Topic	Speaker
10:30 AM - 12:30 PM	Morning	EV Charger Basics & Modelling	 <b>Mr. Arman Ansari</b> Application Engineer <b>DesignTech</b> Systems Pvt. Ltd.
02:30 PM - 04:30 PM	Afternoon	Integration of AI Models in EV Systems	

**DAY 4****21<sup>ST</sup> MAY 2026**

Time	Session	Topic	Speaker
10:30 AM - 12:30 PM	Morning	Intelligent Optimization of Automatic Generation Control Using Genetic Algorithm Toolbox	 <b>Dr. O. V. Singh</b> Professor & Head Department of EE, School of Engineering, GBU, Greater Noida
02:30 PM - 04:30 PM	Afternoon (Online)	Quantum Computing Simulation Using MATLAB	 <b>Dr. Om Prakash</b> Associate Professor SVCET, Andhra Pradesh, India

**DAY 5****22<sup>ND</sup> MAY 2026**

Time	Session	Topic	Speaker
10:30 AM - 12:30 PM	Morning	MATLAB for Engineers and Researchers: An Introductory Session	 <b>Dr. Brajesh Kumar Singh</b> Assistant Professor Rajdhani College, University of Delhi
02:30 PM - 04:30 PM	Afternoon (Online)	AI-Based Smart Systems using MATLAB with IoT and Proteus Simulation	 <b>Dr. Ajay Roy</b> Associate Professor Department of EE College of Engineering, University of Bisha, Saudi Arabia

**CHIEF PATRON**

**Shri Suneel Galgotia**  
 Chairman, GEI

**PATRON**

**Dr. Dhruv Galgotia**  
 CEO, GEI

**CO-PATRON**

**Prof. (Dr.) Brijesh Singh**  
 Director, GCET

**CONVENER**

**Prof. (Dr.) Amrita Rai**  
 HoD, ECE

**CO-CONVENER**

**Prof. (Dr.) Monika Bhatnagar**  
 HoD, VLSI & Comm. Engineering

**CO-COORDINATOR**

**Dr. R. L. Yadava**  
 Professor, ECE  
**Dr. Shilpee Patil**  
 Associate Professor, ECE

**ORGANIZING TEAM**

**Mr. Anil Kumar Pandey**  
 Assistant Professor, ECE

**Mr. Amit Kumar Kesarwani**  
 Assistant Professor, ECE

**Dr. Ravi**  
 Associate Professor, ECE

**Mr. Alok Kumar**  
 Assistant Professor, ECE

**Ms. Nahid Malik**  
 Assistant Professor, ECE

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