About
Electronics & ICT Academy at PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics & ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics & ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, & consultancy programmes in fundamental and advanced topics in electronics, information & communication technologies, the Academy conducts customized academic programmes for students, corporate sectors, and researchers.

About
Rustamji Institute of Technology

Established on October 2, 1999, the Rustamji Institute of Technology (RJIT) is the first engineering college in India established & run by the Border Security Force (BSF). The institute was founded on the vision of Padma Vibhushan Shri K.F. Rustamji, the founding father and first Director General of BSF, who recognized the challenges faced by BSF personnel in providing quality technical education to their children while serving in remote and difficult border areas. RJIT was established to bridge this gap & support the families of those serving the nation.

Faculty Development Programme
on
Machine Learning and AI for Advanced Automotive Engineering Systems

This Faculty Development Programme is designed to provide a systematic understanding of Machine Learning and Artificial Intelligence for advanced automotive engineering applications. The programme connects fundamental concepts with application-oriented learning through automotive case studies, vehicle data analytics, engine and emission modelling, electric vehicle systems, diagnostics and intelligent mobility.

Who can attend: Faculty members, students, fresh graduates, researchers and industry personnel working in allied disciplines.

Important Dates

Last Date of Online Registration: 03 October 2026

FDP Dates: 05-15 October 2026

Coordinators

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Faculty Development Programme
on
Machine Learning and AI for Advanced Automotive Engineering Systems

Jointly Organized

by

Electronics and ICT Academy IIITDM Jabalpur

and

Rustamji Institute of Technology BSF Academy, Gwalior

An Initiative of the
Ministry of Electronics and Information Technology,
Government of India

Digital India
Power To Empower

Faculty Development Programme on

Machine Learning and AI for Advanced Automotive Engineering Systems

05-15 October 2026 (Online mode)

Resource Persons

- ✓ Prof. Akshay Dwivedi – Head, ME & IE, IIT Roorkee
- ✓ Prof. Mukul Shukla – MNNIT, Allahabad
- ✓ Prof. Prashant Kumar Jain – Principal, RJIT, Gwalior
- ✓ Dr. Pawan Kumar Kankar – Professor, IIT Indore
- ✓ Dr. Vinal Patel – ABV-IIITM, Gwalior
- ✓ Dr. Amit Pal – DTU, Delhi
- ✓ Dr. Chaitanya Sharma – BIT Sindri
- ✓ Mr. Madan Mohan Joshi, Marelli Talbros
- ✓ Dr. Dheerendra Vikram Singh, Tech Lead, Orange Data Tech
- ✓ Mr. Mahendra Singh Parwal, Lead Engineer, CNH
- ✓ Mr. Divyanh Umorya, Senior Engineer at TUV, Rheinland India
- ✓ Dr. Vikas Sharma – LNMIIIT, Jaipur

Coordinators

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Course Contents

- ✓ Artificial intelligence, machine learning and data science in automotive engineering Modern BS-VI engine technology, combustion and fuel injection
- ✓ Electronic engine management systems, sensors, actuators and ECUs
- ✓ Vehicle communication networks: CAN, LIN, FlexRay and automotive Ethernet Automotive data acquisition, preprocessing and feature engineering
- ✓ AI modelling of engine performance, fuel consumption and emissions
- ✓ Machine learning for EV battery SOC and SOH estimation

Hands-on Sessions

- ✓ Python/MATLAB-based automotive data-analysis workflows
- ✓ Preprocessing, feature selection and visualization of automotive datasets CAN-bus data acquisition, decoding and analysis
- ✓ Battery SOC/SOH prediction
- ✓ Mini-project discussion and FDP outcome report

Program Features

- ✓ Expert lectures by academicians and automotive specialists
- ✓ Coverage of BS-VI engines, emission control and engine management systems
- ✓ Practical exposure to sensors, ECUs, diagnostics and vehicle networking Opportunities to connect with experts in the field.
- ✓ Certificate on successful completion with full access to the course material.

Registration Details

- ✓ Registration link – Please fill out registration using the following link:

  https://forms.gle/ETGmF34Wqhkstjx66

- ✓ Registration fee: ₹ 500/- for online participation
- ✓ Last Date for Registration: 03 October 2026

Online Payment Details

- **Internet banking**

Beneficiary Name	**PDPM IIITDM Jabalpur**
Bank Name	**Indian Bank**
A/C No.	**50018692852**
IFSC Code	**IDIB000M694**

- **UPI ID:** **iiitdmj@indianbk**
- **QR Code:**

*Registration fee is non-refundable