



on
Explainable AI (XAI)

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**Chairman, EICT Academy &
Director MNIT Jaipur**

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Objective (Electronics & ICT Academy-Phase II)

1) To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.

2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.

3) To support the National Policy on Electronics 2019 (NPE 2019) which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.

4) To promote standardization of FDPs through Joint Faculty Development Programmes.

5) To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.

6) To design, develop & deliver specialised FDPs on emerging technologies/ niche areas/ specialised modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of engineering and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive 40 Hours Training Programme in online mode is being organized for faculty and doctoral students of engineering and technological institutions. It is also open to working professionals from industry/organizations. The main theme of training program will be oriented around exploring the state of the art methods for Explainable AI (XAI). **The programme will be run during 12:00 PM to 2:00 PM on weekdays.**

Experts/Speakers-

1. Prof. Rajesh Kumar, Deptt. of EE, MNIT Jaipur,
 2. Dr. Chandra Prakash, Deptt. of AIDE, MNIT Jaipur,
 3. Dr. Surender Hans, Deptt. of EE, MNIT Jaipur,
- Other experts from CFTI's

Programme Modules:

Module 1: Foundations of Artificial Intelligence and Explainable AI: Introduction to AI, Machine Learning, and Deep Learning, Need for Explainable AI Interpretability vs. Explainability Trustworthy, Responsible, and Ethical AI, Challenges and Limitations of Black-Box Models
Module 2: Explainability Techniques for Machine Learning Models: Model-Specific vs. Model-Agnostic Methods, Feature Importance Analysis, Partial Dependence Plots (PDP) Individual Conditional Expectation (ICE) Plots, Surrogate Models for Interpretation
Module 3: Local and Global Explanation Methods: Local Explanations and Global Explanations, LIME (Local Interpretable Model-Agnostic Explanations), SHAP (SHapley Additive Explanations) Counterfactual Explanations, Evaluation and Comparison of Explanation Methods
Module 4: Explainable Deep Learning and Advanced XAI: Explainability in Deep Neural Networks, Saliency Maps and Gradient-Based Methods, Attention Mechanisms and Transformers, Explainable Reinforcement Learning, Explainability for Time-Series and Sequential Data.
Module 5: LIME: Introduction to LIME (Local Interpretable Model-agnostic Explanations) Internal working of LIME, Conceptual Differences Between SHAP and LIME, Hands-on: Running LIME on an ML Model → Regression & Classification, Strengths and Weaknesses of SHAP vs LIME.

Programme Coordinator:

Dr. Surender Hans

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Registration:

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate and graduate students from India and rest of the world. Participants will be admitted on first-come first-served basis.

Register online at - (<http://online.mnit.ac.in/eict/>)



Registration Fee:

Mode of programme	Academia (faculty/Students): India/SAARC/Africa	Others: India/SAARC/Africa	Rest of the world
Online	Rs. 500/-	Rs. 1500/-	US \$ 60/-

- (A) Fee once paid will not be refunded back.
- (B) The fee covers online participation in the programme, tutorial notes and examination, certification charges etc.
- (C) The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.
- (D) Detailed schedule will be shared after receiving registration form.

→ For queries, email us at fdp.academy@mnit.ac.in

MNIT Jaipur one of the oldest NITs, the institute has a rich heritage of sixty years producing world class engineers, managers, architects and scientists. Ranked 43rd nationally in the NIRF ranking-2024 (Engineering), the institute offers learning opportunities for undergraduate, postgraduate students, and researchers in various domains. Having a lush green campus of over 317 acres within the heart of the pink city, close to Jaipur International Airport, the campus offers a safe and lively environment. A world class teaching infrastructure, state-of-art laboratories welcome you at the campus. The institute has a vision to impart education of international standards and conduct research at the cutting edge of technology.