



PDPM IIITDM Jabalpur

E&ICT Academy, PDPM IIITDM Jabalpur

Online Winter Faculty Development Programme AI and Deep Learning

February 01 - 23, 2025 : (Weekends only- Sat, Sun) Online live streaming

Jointly Organized by

IIITDM Jabalpur



MNIT Jaipur



IIT Roorkee



NIT Patna



IIT Guwahati



NIT Warangal



Schedule and Course Contents

[February 01 - 23, 2025 Saturdays and Sundays, 10:30 AM - 01 PM, 2:30 PM – 05:00 PM]

- Brief introduction to AI and machine learning, Neural networks, Logistic regression, Forward and backward propagation, Vanishing and exploding gradient problems. Regularization and optimization.
- Convolutional neural network (CNN), Activation maps, Standard CNN architectures and emerging networks. CNN for classification and regression problems, Concept of transfer learning.
- Sequence modeling: Recurrent Neural Network (RNN), LSTM and GRU, Attention models and transformer networks. Applications of sequence models, Large language models – ChatGPT.
- Different types of deep neural networks, vision transformers, Applications of Deep neural networks in different domains, Explainability of deep learning models.
- Generative modelling using deep neural networks, autoencoders and variational autoencoders, Generative Adversarial Networks and their applications

Coordinator

Dr. Amit Vishwakarma,
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RESOURCE PERSONS

- Dr. R. Balasubramanian, IIT Roorkee
- Prof. Santosh Kumar Vipparthi, IIT Ropar
- Dr. Subrahmanyam Murala, Trinity College, Dublin
- Prof. Pritee Khanna, PDPM IIITDM Jabalpur
- Dr. Amit Vishwakarma, PDPM IIITDM Jabalpur
- Dr. Shivram Dubey, IIIT Allahabad
- Dr. Varun Bajaj, MANIT Bhopal

Registration Details

Registration link – Please fill in the registration form using the following link:

<https://forms.gle/vdkyacEE2SWxwPu89>

Registration fee: INR 500/-

Last Date for Registration: January 27, 2025

Online payment details:

- Internet banking

Beneficiary Name: PDPM IIITDM Jabalpur

Bank Name: INDIAN BANK

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