Date	Day	2:30-3:00 PM	3:00-4:30 PM	Break	6:00 PM-8:00 PM	
November 8, 2024	Friday	Inaugural session	Lecture(L)1: Evolution of AI and Deep Learning: Prof. Aparajita Ojha, PDPM IIITDM Jabalpur		Lab (LA) 1: Brief introduction to Python, Jupyter Notebook, Google Colab, Keras, and Pytorch: Dr. Poornima Singh Thakur, ABV IIITM Gwalior	
November 9, 2024	Saturday	L2: Artificial Neural Network (ANN) Part 1: Introduction, forward and backward propagation: Dr. Santosh Kumar Vipparthi, IIT Ropar			LA2: Training a neural network for classification problem and evaluating its performance using standard measures Dr. Samir Jain, alfaTKG Integrated Sol. Pvt Ltd.	
November 10, 2024	Sunday	Holiday				
November 11, 2024	Monday	L3: ANN Part 2: Regularization and optimization, problems in training deep neural networks: exploding and vanishing gradient problems, Deep belief networks: Dr. Santosh Kumar Vipparthi			LA3: An Application of neural networks in health monitroing problems, python programmnig for a regression problem using ANN: <b>Dr. Samir Jain</b>	
November 12, 2024	Tuesday	L4: Convolution neural network(CNN): Part 1: Introduction, convolution operation, types of convolution operations typically used CNN for classification problems: Prof. Pritee Khanna, PDPM IIITDM Jabalpur			LA4: Building a CNN based emotion detection system: Dr. Shiwangi Mishra, Asterbyte Software System	
November 13, 2024	Wednesday	L5: CNN Part 2: Standard CNN architectures: VGG, Inception let etc, and attention mechanism in CNNs : Dr. Prashant Patil, IIT Guwahati			LA5: Buidlnig a medical image segmentation model using CNN with transfer learning approach: Dr. Samir Jain	
November 14, 2024	Thursday	L6: Transformer networks, Vision Transformers and their self- attention mechanism: Dr. Shiv Ram Dubey, IIIT Allahabad			LA6: Fire/smoke identification in images using a Vision transformer based image classifier: Dr. Poornima Singh Thakur	
November 15, 2024	Friday	L7: Introduction to Autoencoder, Types of autoencoders and their plications, Variational autoencoders as generative models: Prof. Pritee Khanna			LA7: Deep learning models' explainability: Prof. Aparajita Ojha	
November 16, 2024	Saturday	Adeversarial Net	iscriminative and generative models, Generative work (GAN), Different types of GAN and their ormers in generative modeling: <b>Dr. Prashant Patil</b>	es of GAN and their ling: LA8: Deepfake image detection Dr. Mohan Karnati, NIT Raipur		
November 17, 2024	Sunday	Holiday ( <mark>Quiz 4 - 5 PM</mark> )				
November 18, 2024	Monday		applications: Image and video restoration for ted applications: <b>Dr. Prashant Patil</b>		LA9: Training a GAN for data augmentation: Dr. Poornima Singh Thakur	
November 19, 2024	Tuesday	nderwater image enhancment using deep learning models: Dr. Santosh Kumar Vipparthi			L11: Image and video quality assessment : deep learning models: Dr.Vinit Jakhetiya, IIT Jammu	