



National Institute of Electronics & Information
Technology Near IIT Patna, Amhara, Bihta,
Patna(Bihar) -801106

Details of the Course

Name of The Course: Industrial Training & Internship in Artificial Intelligence (AI)

Duration (in Hrs.): 40

Fee (in Rs.): Rs 1983/-

Eligibility: Diploma/B.Sc./B.Tech/ In Electronics, Electrical, Instrumentation Engineering, Computer Science, IT or its equivalent/BCA/MCA. (Completed or pursuing).

Course Content:

Sl .No	Topic	Subtopic	Duration (in Hrs)
1	Fundamentals of AI & Machine Learning	Introduction to machine learning and AI, The Necessity of Learning AI, Learning What's Involved in AI, Goals and applications of AI.	10
2	Machine learning	Data Preparation, Dataset, Data Preprocessing, Outlier detection, Missing value imputation, Encoding, Categorical Data, Splitting Data, Feature scaling Introduction to Supervised Learning, Unsupervised learning, , Regression and Classification, Regression Algorithms Simple Linear Regression, Decision Tree, Classification Algorithms, Logistic Regression, KNN, Clustering	10
3	Deep Learning	Neurons, Neural Networks, Activation Functions & their Types, Gradient Descent, Backpropagation, Artificial neural networks, Convolutional Neural Networks, Image classification, Text classification	10
4	Computer Vision	Computer Vision, Installing Useful Packages, OpenCV, Reading, Writing, and Displaying an Image, Preprocessing and Image analysis, Colour Space Conversion, Image Thresholding, Object Detection, Image Segmentation, Face Detection, Eye Detection, Deep Learning for computer vision, YOLO	10