



JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

M.Tech in Electronics & Communication Engineering with specialization in Machine Learning and Signal Processing

The M.Tech program in Machine Learning and Signal Processing is aimed at providing a deeper understanding of the mathematical, theoretical, practical, and application aspects of machine learning and signal processing and create professionals who are industry ready.

Machine Learning usually plays an important role in the transition from data storage to decision systems based on large database signals such as those obtained from sensor networks, internet services or communication systems. The program will focus upon machine learning methods and their applications to signal processing. The curriculum comprises of subjects like introduction to machine learning, advance signal processing, optimization techniques, statistical signal processing, image and video processing, advanced topics in machine learning, computer vision, biomedical signal processing, speech and audio processing, fuzzy logic, python, data analysis, and algorithms.

In first year, students are introduced with various theory and laboratory courses followed by a research based Dissertation/ Industrial Project spread across third and fourth semesters. Thus, the students are having deeper knowledge of signal processing area and its implementation with machine learning. are fully equipped to undertake research and development, work in academia or in industrial environment

