ARTIFICIAL INTELLIGENCE

Duration (40 Hours)

Course Specific outcomes: Artificial intelligence is a broad and fast-growing subfield of computer science concerned with the intelligence demonstrated by machines, in contrast to the intelligence displayed by humans. The general objectives are to learn about computer systems that exhibit intelligent behavior, design intelligent agents, identify AI problems and solve the problems, design knowledge representation and expert systems, design neural networks for solving problems, identify different machine learning paradigms and identify their practical applications.

Unit-I (10 hours)

Overview of Artificial Intelligence, Goals of Artificial Intelligence, Reasoning, Problem solving, Knowledge representation, Learning.

Unit-II (10 hours)

Applications of Artificial Intelligence - Self-driving Cars, Google Translate, Amazon's Alexa, Google Maps; Subsets of Artificial Intelligence - learning and Deep Learning.
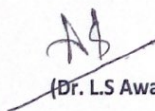
Unit-III (10 hours)

Applications of Machine Learning, Amazon recommendation system, Machine Learning used in fraud detection, Machine Learning used in social, Applications of deep learning, Predicting earthquakes, Netflix recommendation system.
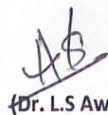
Unit-IV (10 hours)

AI vs ML vs DL, Neural Network, Whatmakes Artificial Intelligence so popular?, Popular AI Algorithms - Decision tree, K-means
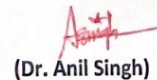
Assessment Criteria/ Award of certification:

Participants who secured 75 % attendance shall be awarded the completion certificate.

(Dr. L.S Awasthi)   (Dr. L.S Awasthi)   (Dr. Anil Singh)

Course Coordinator   **Dean Academics**   Principal

Lucknow Public **Principal** of Professional Studies
Vinamra Khand, Gomti Nagar, Lko