
Course Title: Certificate course in Data Science and Artificial Intelligence

Number of candidates: 60

Duration: 6 months

Contact hours (per week): 4 hours

Mode: Offline/Online

Registration fees: Rs. 1,95,000 + 18% GST, per candidate

With added charges for accommodation, food, and transport.

Course outline:

ID	Topics	Duration
1	Basics of Computer Science a. Fundamentals of Computing b. Python Programming c. Basic of Data Structures and algorithms	4 weeks

2	Foundation of Data Science	3 weeks
3	Introduction to Machine Learning a. Supervised learning b. Clustering techniques c. Neural Networks	5 weeks
4	Basics of Artificial Intelligence a. Planning and Reasoning b. Optimization c. Introduction to genetic algorithms	4 weeks

5	Deep Learning a. Concepts of CNN b. Recurrent Neural Networks c. Autoencoders d. Generative Models	5 weeks
6	Case Studies a. AI for smart cities b. AI for Industry 4.0 c. AI for healthcare	3 weeks

