

# Department of Computer Science and Engineering

## Minor in Artificial Intelligence and Machine Learning

Eligibility: This minor is open to all B.Tech./DD students except for students of B.Tech./DD in CSE and ID DD in Data Science.

Requirement: The student is required to complete FOUR courses from the list below.

### Notes:

1. The department might not offer all these courses every year.
2. There will be NO special SEAT allocation for students looking to declare a minor in AI-ML.
3. It is the student's responsibility to ensure that the required pre-requisites are satisfied for the courses taken.
4. This list may be updated from time to time by the Department.
5. Courses from other Departments, and NPTEL or online courses will not be considered as equivalent to the courses listed, to claim the Minor.
6. A particular course can be used to claim one Minor only.

S. No.	Course no.	Course Title
1	CS5691	Pattern Recognition and Machine Learning
2	CS6011	Kernel Methods for Pattern Analysis
3	CS6046	Multi-Armed Bandits
4	CS6250	Memory based Reasoning in AI
5	CS6251	Computational Models of Cognition
6	CS6300	Speech Technology
7	CS6350	Computer Vision
8	CS6370	Natural Language Processing
9	CS6380	Artificial Intelligence
10	CS6464	Concepts in Statistical Learning Theory
11	CS6515	Stochastic Optimization
12	CS6680	Planning and Constraint Satisfaction
13	CS6691	Deployability Aspects of Machine Learning
14	CS6700	Reinforcement Learning
15	CS6720	Data Mining
16	CS6730	Probabilistic Graphical Models

17	CS6741	Statistical Foundations of Data Science
18	CS6770	Knowledge Representation and Reasoning
19	CS6777	Optimization Methods for Computer Vision Applications
20	CS6790	Geometry and Photometry based Image Formation
21	CS6852	Theory and Applications of Ontologies
22	CS6886	Systems Engineering for Deep Learning
23	CS6910	Fundamentals of Deep Learning
24	CS7011	Topics in Reinforcement Learning
25	CS7012	Multilayer Network Models and Algorithms
26	CS7016	Topics in Deep Learning
27	CS7020	Advances in Theory of Deep Learning

# Minor in Computing

Eligibility: This minor is open to all B.Tech./DD students **except** for students of B.Tech./DD in CSE and ID DD in Data Science.

Requirement: The student is required to complete **FOUR** CSE Theory or Theory+Lab courses other than CS1100.

## Notes:

1. There will be **NO** special SEAT allocation for students looking to declare a minor in Computing.
2. It is the student's responsibility to ensure that the required pre-requisites are satisfied for the courses taken.
3. Courses from other Departments, and NPTEL or online courses will not be considered as equivalent courses to claim the Minor.
4. A particular course can be used to claim one Minor only.