

MANDSAUR UNIVERSITY - Faculty of Engineering and Technology

Department of Computer Science & Engineering

SYLLABUS FOR 3 Semester B.Tech PROGRAMME

Introduction to Machine Learning (CSE663 PR1)

Type of Course: B.Tech

Prerequisite:

Rationale: -

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lecture Hrs/ Week	Tutorial Hrs/ Week	Lab Hrs/ Week		External		Internal			
				TH-EST	PR-EST	Th - MST	CET	Pr - MST	
-	-	2	1	-	25	-	10	15	50

SEE - Semester End Examination, **CIA** - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Reference Books:

1. Pattern Recognition and Machine Learning
By Christopher Bishop | Springer
2. Machine Learning: A Probabilistic Perspective
By Kevin Murphy | MIT Press
3. Machine Learning Yearning
By Andrew Ng | Self-Published, eBook, Pub. Year 2018
4. Deep Learning
By Ian Goodfellow, Yoshua Bengio, Aaron Courville | MIT Press
5. Introduction to Machine Learning with Python: A Guide for Data Scientists
By Andreas C. Müller and Sarah Guido | O'Reilly Media | 1, Pub. Year 2016
6. Machine Learning: An Algorithmic Perspective
By Stephen Marsland | Taylor & Francis
7. Genetic Algorithms and Machine Learning for Programmers
By John P. Miller | Apress | 1, Pub. Year 2010
8. Machine Learning: A Bayesian and Optimization Perspective
By Sergios Theodoridis | Academic press | 1, Pub. Year 2021

List of Practical:

1. Practical 1
2. Practical 2
3. Practical 3
4. Practical 4
5. Practical 5
6. Practical 6
7. Practical 7
8. Practical 8
9. Practical 9
10. Practical 10

11. Practical 11
12. Practical 12
13. Practical 13
14. Practical 14
15. Practical 15