

1. S Sridhar and M Vijayalakshmi, “Machine Learning”, Oxford University Press, 2021.
2. M N Murty and Ananthanarayana V S, “Machine Learning: Theory and Practice”, Universities Press (India) Pvt. Limited, 2024.

Web links and Video Lectures (e-Resources)

1. https://www.drssridhar.com/?page_id=1053
2. <https://www.universitiespress.com/resources?id=9789393330697>
3. https://onlinecourses.nptel.ac.in/noc23_cs18/preview

Course Outcomes

CO1: Illustrate the principles of multivariate data and apply dimensionality reduction techniques.
CO2: Demonstrate similarity-based learning methods and perform regression analysis.
CO3: Develop decision trees for classification and regression problems, and Bayesian models for probabilistic learning.
CO4: Implement the clustering algorithms to share computing resources..

Internal Assessment Marks: CIE marks for the practical course are 50 Marks. The split-up of CIE marks for record/ journal and test are in the ratio 60:40.

1. Each experiment is to be evaluated for conduction with an observation sheet and record write-up. Rubrics for the evaluation of the journal/write-up for hardware/software experiments are designed by the faculty who is handling the laboratory session and are made known to students at the beginning of the practical session.
2. Record should contain all the specified experiments in the syllabus and each experiment write-up will be evaluated for 10 marks.
3. Total marks scored by the students are scaled down to 30 marks (60% of maximum marks).
4. Weightage to be given for neatness and submission of record/write-up on time.
5. Department shall conduct a test of 100 marks after the completion of all the experiments listed in the syllabus.
6. In a test, test write-up, conduction of experiment, acceptable result, and procedural knowledge will carry a weightage of 60% and the rest 40% for viva-voce.
7. The suitable rubrics can be designed to evaluate each student’s performance and learning ability.
8. The marks scored shall be scaled down to 20 marks (40% of the maximum marks). The Sum of scaled-down marks scored in the report write-up/journal and marks of a test is the total CIE marks scored by the student.

The Correlation of Course Outcomes (CO’s) and Program Outcomes (PO’s)

Subject Code	BCSL606	TITLE:Machine Learning lab							Faculty Name	Dr Anitha D B				
List of Course Outcomes	Program Outcomes												Total	
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12		
CO-1	2	-	-	-	3	-	-	-	-	-	-	-	4	
CO-2	2	2	2	-	3	-	-	-	-	-	-	-	8	
CO-3	2	2	2	-	3	-	-	-	-	-	-	-	8	
CO-4	2	2	2	-	3	-	-	-	-	-	-	-	8	
Total	08	06	06	-	12	-	-	-	-	-	-	-	30	

Note: 3 = Strong Contribution, 2 = Average Contribution, 1 = Weak Contribution, - = No Contribution

The Correlation of Course Outcomes (CO’s) and Program Specific Outcomes (PSO’s)

Subject Code	BCSL606	TITLE:Machine Learning lab		Faculty Name	Dr Anitha D B	
List of Course Outcomes	Program Specific Outcomes				Total	
	PSO-1	PSO-2	PSO-3			
CO-1	2	-	-		2	
CO-2	2	-	-		2	
CO-3	2	-	-		2	
CO-4	2	-	-		2	
Total	10	-	-		10	