

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly West Bengal University of Technology)
Syllabus for B. Tech in CSE (Artificial Intelligence and Machine Learning)
(Applicable from the academic session 2020-2021)

Subject Code	Subject Name	L	T	P	C
PCCAIML 592	Machine Learning Lab	0	0	4	2
Pre-requisite	NIL				
Lab Experiments					
1.	Implement Decision Tree learning			2 hours	
2.	Implement Logistic Regression			2 hours	
3.	Implement classification using Multilayer perceptron			2 hours	
4.	Implement classification using SVM			2 hours	
5.	Implement Adaboost			2 hours	
6.	Implement Bagging using Random Forests			2 hours	
7.	Implement K-means Clustering to Find Natural Patterns in Data			2 hours	
8.	Implement Hierarchical clustering			2 hours	
9.	Implement K-mode clustering			2 hours	
10.	Implement Association Rule Mining using FP Growth			2 hours	
11.	Classification based on association rules			2 hours	
12.	Implement Gaussian Mixture Model Using the Expectation Maximization			2 hours	
13.	Evaluating ML algorithm with balanced and unbalanced datasets			2 hours	
14.	Comparison of Machine Learning algorithms			2 hours	
15.	Implement k-nearest neighbour algorithm			2 hours	
Total Lecture hours:				30 hours	