

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERS SCIENCE & ENGINEERING
LECTURE SCHEDULE

Subject: DATA WARE HOUSING AND DATA MINING
No. of Lectures per week : 4+1* (Tutorial)

Academic Year: 2018-19
Year & Sem/Section: III-I SEM 'C'

S.No	Date	Unit No.	Topic to be Covered
1	20.11.2018	I	Introduction: Why Data Mining?
2	22.11.2018		What Is Data Mining?
3	23.11.2018		What Kinds of Data Can Be Mined?
4	24.11.2018		What Kinds of Patterns Can Be Mined?
5	27.11.2018		Which Technologies Are Used?
6	28.11.2018		Which Kinds of Applications Are Targeted?
7	29.11.2018		Major Issues in Data Mining.
8	30.11.2018		Tutorial
9	01.12.2018		Data Objects and Attribute Types
10	04.12.2018		Basic Statistical Descriptions of Data,
11	05.12.2018		Data Visualization,
12	06.12.2018		Measuring Data Similarity and Dissimilarity
13	07.12.2018		Tutorial
14	08.12.2018		Slip test
15	11.12.2018	II	Data Pre-processing: Data Preprocessing: An Overview,
16	12.12.2018		Data Cleaning
17	13.12.2018		Data Integration,
18	14.12.2018		Tutorial
19	15.12.2018		Data Reduction,
20	18.12.2018		Data Reduction,
21	19.12.2018		Data Transformation and Data Discretization
22	20.12.2018		Data Transformation and Data Discretization
23	21.12.2018		Tutorial
24	22.12.2018		Slip Test
25	26.12.2018	III	Classification: Basic Concepts,
26	27.12.2018		General Approach to solving a classification problem
27	28.12.2018		Tutorial
28	29.12.2018		Decision Tree Induction: Working of Decision Tree,
29	02.01.2019		Building a decision tree,
30	03.01.2019		methods for expressing an attribute test conditions,
31	04.01.2019		Tutorial
32	05.01.2019		measures for selecting the best split,
33	08.01.2019		Algorithm for decision tree induction.
34	09.01.2019		Algorithm for decision tree induction.
35	10.01.2019		Revision
36	11.01.2019		Tutorial
37	17.01.2019	Revision	
38	18.01.2019	Revision	
39	19.01.2019	Revision	
40	22.01.2019	Revision	
41	23.01.2019	Revision	

S.No	Date	Unit No.	Topic to be Covered
42	24.01.2019	IV	Classification: Alternative Techniques
43	25.01.2019		Tutorial
44	29.01.2019		Bayes' Theorem,
45	30.01.2019		Bayes' Theorem
46	31.01.2019		Naïve Bayesian Classification,
47	01.02.2019		Tutorial
48	02.02.2019		Naïve Bayesian Classification
49	05.02.2019		Bayesian Belief Networks
50	06.02.2019		Bayesian Belief Networks
51	07.02.2019		Slip Test
52	08.02.2019		Tutorial
53	12.02.2019		V
54	13.02.2019	Frequent Item Set generation,	
55	14.02.2019	Rule generation	
56	15.02.2019	Tutorial	
57	16.02.2019	Rule generation	
58	19.02.2019	compact representation of frequent item sets,	
59	20.02.2019	FP-Growth Algorithm.	
60	21.02.2019	FP-Growth Algorithm.	
61	22.02.2019	Tutorial	
62	23.02.2019	Slip Test	
63	26.02.2019	VI	Cluster Analysis: Basic Concepts and Algorithms: Overview
64	27.02.2019		What Is Cluster Analysis?
65	28.02.2019		Different Types of Clustering,
66	01.03.2019		Tutorial
67	02.03.2019		Different Types of Clusters;
68	05.03.2019		K-means: The Basic K-means Algorithm, K-means Additional Issues,
69	06.03.2019		Bisecting K-means, Strengths and Weaknesses;
70	07.03.2019		Agglomerative Hierarchical Clustering:
71	08.03.2019		Tutorial
72	12.03.2019		Basic Agglomerative Hierarchical Clustering Algorithm
73	13.03.2019		DBSCAN: Traditional Density Center-Based Approach,
74	14.03.2019		DBSCAN Algorithm, Strengths and Weaknesses.
75	15.03.2019		Tutorial
76	16.03.2019		Revision
77	19.03.2019	Revision	
78	20.03.2019	Revision	
79	22.03.2019	Tutorial	
80	23.03.2019	Revision	
81	26.03.2019	Revision	
82	27.03.2019	Revision	
83	28.03.2019	Revision	
84	29.03.2019	Revision	
85	30.03.2019	Revision	

Text Books:

1	Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2	Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier.

References:

1	Data Mining Techniques and Applications: An Introduction, Hongbo Du, Cengage Learning.
2	Data Mining : VikramPudi and P. Radha Krishna, Oxford.
3	Data Mining and Analysis - Fundamental Concepts and Algorithms; Mohammed J. Zaki, Wagner Meira, Jr, Oxford
4	Data Warehousing Data Mining & OLAP, Alex Berson, Stephen Smith, TMH.