

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

LECTURE SCHEDULE

Subject: Data Ware housing and Mining
Name: Dr.A.VERASWAMY
No. of Lectures per week: 4+1*(Tutorial)

Academic Year: 2017-18
Year & Sem/Section: III-II-SEM 'A'

S.NO	DATE	UNITS	TOPICS
1	20-11-17	I	Introduction to Data Mining
2	21-11-17		Data Mining—On What Kind of Data.
3	23-11-17		Importance of Data Mining
4	24-11-17		Knowledge Discovery Process.
5	25-11-17		Introduction about Data Mining Functionalities.
6	27-11-17		What Kinds of Patterns Can Be Mined? Are All of the Patterns Interesting?
7	28-11-17		Classification of Data Mining Systems & Task Primitives
8	30-11-17		Integration of a Data Mining System with a database, Datawarehouse
9	02-12-17		Major Issues in Data Mining
10	04-12-17		SLIP TEST-1
11	05-12-17	II	OBT-I, Interdiction to Data Preprocessing.
12	07-12-17		Data Cleaning.
13	08-12-17		Data Integration.
14	11-12-17		Data transformation.
15	12-12-17		Data Reduction
16	14-12-17		TUTORIAL
17	15-12-17		Data Reduction
18	16-12-17		Data Discretization
19	18-12-17		Data Discretization
20	19-12-17		Concept Hierarchy Generation
21	21-12-17		TUTORIAL
22	22-12-17		SLIP TEST-II
23	23-12-17	III	OBT-II, Data Warehouse and OLAP Technology
24	26-12-17		What Is a Data Warehouse?
25	28-12-17		TUTORIAL
26	29-12-17		Difference between OLAP & OLTP
27	30-12-17		A Multidimensional Data Model
28	1-1-18		Star Schema
29	2-1-18		Snowflake Schema
30	4-1-18		TUTORIAL
31	5-1-18		Fact schema
32	6-1-18		Three Tier Architecture of Data Warehouses
33	8-1-18		Data ware house implementation
34	9-1-18		From Data Warehousing to Data Mining
35	11-1-18		TUTORIAL
36	12-1-18		Data ware house implementation
37	18-1-18		REVISION
38	19-1-18	REVISION	
39	20-1-18	REVISION	

40	22-1-18		REVISION	
41	23-1-18		REVISION	
42	25-1-18	IV	Basic Concepts of Classification	
43	27-1-18		General Approach to solving a classification Problem	
44	29-1-18		Working of Decision Tree, Building a Decision Tree	
45	30-1-18		Methods of Expressing Attribute Test Conditions	
46	1-2-18		TUTORIAL	
47	2-2-18		Measures For selecting the best split, Algorithm for Decision Tree Induction	
48	3-2-18		Model Over fitting: Due to presence of noise, Due to lack of representation samples	
49	5-2-18		evaluating the performance of classifier: Holdout Method	
50	6-2-18		Cross-validation, Bootstrap, Random sub sampling, Evaluating the performance of Classifier	
51	8-2-18		TUTORIAL	
52	9-2-18		SLIP TEST-III	
53	10-2-18		V	OBT-IV, Association Analysis: Problem Definition
54	15-2-18			TUTORIAL
55	16-2-18			Frequent Item-set Generation:Apriori Principle
56	17-2-18	Frequent Item-set Generation in the Apriori Algorithm		
57	19-2-18	Candidate Generation and Pruning ,Support Counting, Frequent Item Sets		
58	20-2-18	FP-Growth Algorithms and EXAMPLES		
59	22-2-18	TUTORIAL		
60	23-2-18	SLIP TEST-IV		
61	24-2-18	VI		OBT-V, overview Types of Clustering
62	26-2-18			K-Means additional Issues ,K-Means Optimization Problem
63	27-2-18		Bi-secting K-Means	
64	1-3-18		TUTORIAL	
65	3-3-18		K-means and different types of cluster	
66	5-3-18		Strengths and weaknesses, K-Means as an optimization problem	
67	6-3-18		Basic Agglomerative Hierarchical Clustering Algorithm	
68	8-3-18		DBSCAN Clustering	
69	9-3-18		The DBSCAN Algorithm, Strengths and Weaknesses	
70	12-3-18			REVISION
71	14-3-18		REVISION	
72	15-3-18		REVISION	
73	16-3-18		REVISION	
74	17-3-18		REVISION	
75	19-3-18		REVISION	
76	20-3-18		REVISION	
77	22-3-18		REVISION	
78	23-3-18		REVISION	
79	24-3-18		REVISION	

TEXT BOOKS:

1. Introduction to Data Mining : Pang-Ning tan, Michael Steinbach, Vip Kumar, Pearson
2. Data Mining, Concepts and Techniques, 3/e Jiawei Hna, Michelin.

REFERENCE BOOKS:

1. 1.Introduciton to Data Mining with Case studies 2nd ed: Gk Gupta; PH
2. 2. Data Mining: Introductory and Advanced Topics: Dunham , Sridhar Pearson.
3. Data Warehousing .Data Mining & OLAP, Alex Berson, Stephen Smith, TMH
4. Data Mining Theory and Practice, Somna, Diwakar, Ajay PHI, 2006

FACULTY MEMBER

HEAD OF THE DEPARTMENT