

**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 'B'

S.NO	DATE	UNITS	TOPICS
1	20-11-17	I	Introduction to Data Mining
2	22-11-17		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	29-11-17		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	06-12-17	II	OBT-I, Interdiction to Data Preprocessing.
12	07-12-17		Data Cleaning.
13	08-12-17		TUTORIAL
14	11-12-17		Data Integration.
15	13-12-17		Data transformation.
16	14-12-17		Data Reduction
17	15-12-17		TUTORIAL
18	16-12-17		Data Discretization
19	18-12-17		Data Discretization
20	20-12-17		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	27-12-17		What Is a Data Warehouse?
25	28-12-17		Difference between OLAP & OLTP
26	29-12-17		TUTORIAL
27	30-12-17		A Multidimensional Data Model
28	1-1-18		Star Schema
29	3-1-18		Snowflake Schema
30	4-1-18		Fact schema
31	5-1-18		TUTORIAL
32	6-1-18		Three Tier Architecture of Data Warehouses
33	8-1-18		Data ware house implementation
34	10-1-18		From Data Warehousing to Data Mining
35	11-1-18		Data ware house implementation
36	12-1-18		TUTORIAL
37	17-1-18	REVISION	
38	18-1-18	REVISION	
39	19-1-18	REVISION	

40	20-1-18		REVISION	
41	22-1-18		REVISION	
42	24-1-18	IV	Basic Concepts of Classification	
43	25-1-18		General Approach to solving a classification Problem	
44	27-1-18		Working of Decision Tree, Building a Decision Tree	
45	29-1-18		Methods of Expressing Attribute Test Conditions	
46	31-2-18		TUTORIAL	
47	1-2-18		Measures For selecting the best split, Algorithm for Decision Tree Induction	
48	2-2-18		TUTORIAL	
49	3-2-18		Model Over fitting: Due to presence of noise, Due to lack of representation samples	
50	5-2-18		evaluating the performance of classifier: Holdout Method	
51	7-2-18		Cross-validation, Bootstrap, Random sub sampling, Evaluating the performance of Classifier	
52	8-2-18		SLIP TEST-III	
53	9-2-18		V	OBT-IV, Association Analysis: Problem Definition
54	10-2-18			TUTORIAL
55	14-2-18	Frequent Item-set Generation:Apriori Principle		
56	15-2-18	Frequent Item-set Generation in the Apriori Algorithm		
57	16-2-18	TUTORIAL		
58	17-2-18	Candidate Generation and Pruning ,Support Counting, Frequent Item Sets		
59	19-2-18	FP-Growth Algorithms and EXAMPLES		
60	21-2-18	SLIP TEST-IV		
61	22-2-18	VI	OBT-V, overview Types of Clustering	
62	23-2-18		TUTORIAL	
63	24-2-18		K-Means additional Issues ,K-Means Optimization Problem	
64	26-2-18		Bi-secting K-Means	
65	28-2-18		K-means and different types of cluster	
66	1-3-18		Strengths and weaknesses, K-Means as an optimization problem	
67	3-3-18		Basic Agglomerative Hierarchical Clustering Algorithm	
68	5-3-18		DBSCAN Clustering	
69	7-3-18		The DBSCAN Algorithm, Strengths and Weaknesses	
70	8-3-18			REVISION
71	9-3-18		REVISION	
72	12-3-18		REVISION	
73	14-3-18		REVISION	
74	15-3-18		REVISION	
75	16-3-18		REVISION	
76	17-3-18		REVISION	
77	19-3-18		REVISION	
78	21-3-18		REVISION	
79	22-3-18		REVISION	
80	23-3-18		REVISION	
81	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.Introductiton 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

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HEAD OF THE DEPARTMENT