ANURAG ENGINEERING COLLEGE

(An Autonomous Institution)

(IT532PE) DATA MINING LAB

(Professional Elective-I)

III Year B.Tech. IT - I Sem	L	Т	P	С
Prerequisites:	0	0	2	1
A courseon"Database Management System Course Objectives:				
• The course is intended to obtain hands-on experience using data mining software	ware.			
• Intended to provide practical exposure of the concepts in data mining algorith	hms			
LIST OF EXPERIMENTS Experiments using Weka /Pentaho/Python				
 Data Processing Techniques: Data cleaning(ii)Data transformation–Normalization(iii)Data integrat Partitioning-Horizontal,Vertical, RoundRobin, Hash based Data Warehouse schemas–star, snowflake, fact constellation Data cube construction–OLAP operations Data Extraction, Transformations & Loading operations Implementation of Attribute oriented induction algorithm Implementation of a priori algorithm Implementation of FP–Growth algorithm Implementation of Decision Tree Induction Calculating Information gain measures Classification of data using Bayesian approach Classification of K–means algorithm Implementation of BIRCH algorithm 	tion			
Course Outcomes:				
Upon the successful completion of this course, the student will be able to: 1. Apply preprocess sing statistical methods for any given raw data.				
2. Gain practical experience of constructing a data ware house.				
3. Implement various algorithms for data mining in order to discover interest	sting	patte	erns i	from
large amounts of data.				

- 4. Apply OLAP operations on data cube construction
- 5. To analyze the process of pre processing the data

Text Books:

- 1. Data Mining–Concepts and Techniques-JIAWEIHAN & MICHELINEKAMBER, Elsevier.
- 2. Data Warehousing, Data Mining &OLAP-Alex Berson and Stephen J.Smith- Tata McGraw-Hill Edition, Tenth reprint2007

Reference Books:

1. Pang-NingTan,Michael Stein bach,Vipin Kumar, Anuj Karpatne, Introduction to DataMining, Pearson Education

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	Η	Н	М	Н	Η	М	L						Η	Η
CO-2	Η	Η	Η	Η	Η	М	Η						Η	Η
CO-3	Н	Н	М	Н	Н	М	М						Η	Η
CO-4	Η	Η	М	Н	Η	М	М						Η	Η
CO-5	Н	Н	М	Н	Н	М	L						Н	Η

CO-PO-PSO Mapping:

H-HIGH M-MODERATE L-LOW