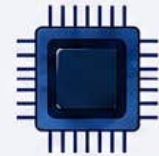
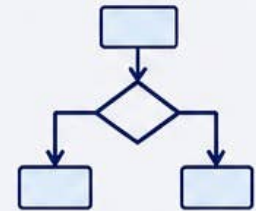




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Syllabus



Major Course (Elective-1 Laboratory): Laboratory on Data Mining Tools

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
5.5	V	112219	Laboratory on Data Mining Tools	2	60	4Hrs.	50

Course Objectives:	1. To understand the use of data mining tools and techniques. 2. To perform data preprocessing and data analysis operations. 3. To apply classification, clustering, and association rule mining techniques.						
Course Outcomes:	On completion of the following syllabus the students will be able to - 1. use data mining tools effectively. 2. preprocess and analyze datasets. 3. implement classification and clustering techniques. 4. generate association rules and interpret results.						
Contents				Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies	
List of Practical: 1. Create and Load Employee Dataset. 2. Create and Load Weather Dataset. 3. Create and Load Student Dataset. 4. Explore Dataset Attributes and Records. 5. Add and Remove Attributes from Weather Dataset. 6. Handle Missing Values in Employee Dataset. 7. Apply Normalization on Weather Dataset. 8. Apply Normalization on Employee Dataset. 9. Perform Data Filtering on Student Dataset. 10. Visualize Weather Dataset using Charts/Graphs. 11. Visualize Banking Dataset using Visualization Tools. 12. Generate Association Rules for Buying Dataset. 13. Generate Association Rules for Banking Dataset. 14. Generate Association Rules for Employee Dataset.						Use any pedagogical technique suitable for the topic	

	15. Construct Decision Tree for Weather Dataset. 16. Construct Decision Tree for Customer Dataset. 17. Construct Decision Tree for Student Dataset. 18. Sort employee or student records based on marks, salary, or experience. 19. Find records using employee ID or student roll number. 20. Create bar chart or pie chart for salary analysis. 21. Apply K-Means Clustering on Student Dataset. 22. Perform Hierarchical Clustering on Employee Dataset.			
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Assessment Rubric: External Practical Course

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI PRACTICAL EXAMINATION B.Sc. III, SEMESTER – V (NEP)				
Practical	Course Code:112219	Laboratory on Data Mining Tools	Max Marks: 25	Time: 4 Hrs.
Q. No.	Exercise			Marks
1.	Single Program Writing, Algorithm, Flowchart, Execution, with Sample inputs and Outputs, and Printout			10
2.	Submitted Record book (Preferably handwritten)			05
3.	External Viva Voce			10

Assessment Rubric: Internal Practical Course

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI PRACTICAL EXAMINATION B.Sc. III, SEMESTER – V (NEP)			
Practical	Course Code:112219	Laboratory on Data Mining Tools	Max Marks: 25
Q. No.	Assessment Criteria		Marks
1.	Attendance/Regularity in practical's / Students' overall performance		05
2.	Record book Preparation (Preferably handwritten)		10
3.	Internal Viva Voce		10