***RG 22 Regulations***

**GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**

**Unit of USHODAYA EDUCATIONAL SOCIETY**

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**Subject: (Data warehousing&Mining)**

**Class : II Year II Sem Academic Year : 2021-22**

**Branch : CSE (DATA SCIENCE) Name of the Faculty : Mr.V.Chaithanya**

**DEPARTMENT OF CSE (DATA SCIENCE)**

**UNIT-1**

1. what is data warehousing ?&Explain briefly about the online Analytical processing?

2. Write a short note on various Concepts of Data warehousing?

3. What is Modeling? Explain Briefly about the data warehouse Modeling?

4. Explain briefly about the Data Cube operations in data warehousingwith a neat Sketch?

5.What is data warehouse Design ?&Explain its usage with a neat Sketch?

6.Differentiate betweenData Cube and OLAP operations in data warehousing?

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| 7.Explain briefly about the OLAP operations in data warehousingwith a neat Sketch?  8.What is Schemas?&Explain How Decision Support is needed in Data warehouse schemas?  9.Explain Briefly about the Implementation of Data warehouse with suitable examples?  10. Write a short note on Roll Up &Drill Down operation with a neat sketch?  11. Differentiate OLTP and OLAP operations in data warehousing? |

**UNIT-2**

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| 1. What is Data Mining& Explain its overview with a neat sketch? |
| 2. Explain how data mining can be used in various fields? | |
| 3. What is Relational Database?&Explain how data can be mined in data mining with a neat diagram? | | |
| 4. What is Design Patterns?&Explain different patterns that can be mined in data mining with a neat sketch? | | |

5. Write a short note on Traditional & Object relational databases with a neat sketch?

6. Explain some of the technologies that can be used in data mining process?

7.Write a short note on Descriptive & Predictive approach of data mining process?

8. Write down the Major Issues of Data mining process?&Explain with suitable examples?

9. Write a short note on Transactional databases& Notable patterns with a neat sketch?

10.What is patterns &trends?&Explain How data &Design Patterns can be mined in data mining process?

**UNIT-3**

1. Explain about Rule based classifier?Or Explain how Rule Based method is used for classification in data mining process?

2. Explain about back propagation neural networks with examples?

3. Explain about Support vector machines? Explain about K-nearest neighbor?

4.Explain about various kinds of Mining Association Rules ?

5. Explain about Bayesian classifiers with example?

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| 7. Describe in detail the process of classification by using Decision tree induction   |  | | --- | | 8. Explain Aprior algorithm with example or Finding Frequent Item sets Using with Candidate Generation? | |
| 9. Discuss in detail various methods that improve the efficiency of Apriori algorithm?  10 Explain FP-Growth algorithm with example or Finding Frequent Item sets Using without Candidate Generation? | |
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**UNIT-4**

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| 1. Define cluster analysis. List and explain applications of cluster analysis? |
| 2. Explain in detail Density-Based Methods DBSCAN clustering algorithm&**OPTICS** clustering algorithm? |

3. Explain about Categorization of Major Clustering Methods?

4. Explain about Partitioning Methods or K-means and K- **m**edoids?

5. Explain about Hierarchical Methods orAgglomerative and Divisive Hierarchical clustering

BIRCH or Chameleon ?

6. Briefly explain about birch algorithm?

7. Briefly explain about CURE algorithm?

8. Explain about Outlier Analysis?

**UNIT-5**

1.Briefly explain about Mining Sequence Patterns in Transactional Databases?

2. Explain about Mining Sequence Patterns in Biological Data?

3. Explain about Graph Mining?

4. Explain about Multimedia Data Mining?

5. Explain about Mining the World Wide Web?

6. Explain about Mining Data Streams?

7. Briefly explain about Text Mining?

8. Briefly explain about Social Network Analysis?