**UNIT-1**

**Faculty name: Jameson Ganta Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Introduction to data mining | **14/7** |  |  |
| **2** | What is data mining ? | **14/7** |  |  |
| **3** | Motivating Challenges | **15/7** |  |  |
| **4** | Origins of data mining | **16/7** |  |  |
| **5** | Data mining tasks | **17/7** |  |  |
| **6** | Types of data attributes and measurements  | **21/7** |  |  |
| **7** | Types of data sets | **22/7** |  |  |
| **8** | Data quality  | **23/7** |  |  |
| **Remarks by HOD** |

**UNIT-2**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Data preprocessing  | **24/7** |  |  |
| **2** | Measures of similarity and dissimilarity, basics  | **25/7** |  |  |
| **3** | similarity and dissimilarity between simple attributes | **28/7** |  |  |
| **4** | Dissimilarities between data objects | **28/7** |  |  |
| **5** | similarities between data objects | **29/7** |  |  |
| **6** | Examples of proximity measures  | **30/7** |  |  |
| **7** | Similarity measures of binary data  | **31/7** |  |  |
| **8** | Jaccard coefficient, correlation  | **1/8** |  |  |
| **9** | Exploring data :data set , summary statistics | **4/8** |  |  |
| **Remarks by HOD:** |

**UNIT-3**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Data ware house basic concepts | **4/8** |  |  |
| **2** | Data ware housing modeling | **5/8** |  |  |
| **3** | Data Cube and OLAP | **6/8** |  |  |
| **4** | DW implementation  | **7/8** |  |  |
| **5** | Efficient data cube computation | **8/8** |  |  |
| **6** | Partial materialization | **11/8** |  |  |
| **7** | Indexing OLAP data  | **11/8** |  |  |
| **8** | Efficient processing of olap queries | **12/8** |  |  |
| **Remarks by HOD:** |

**UNIT-4**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Classification basic concepts | **13/8** |  |  |
| **2** | General approach to solving a classification problem | **14/8** |  |  |
| **3** | Decision tree induction  | **18/8** |  |  |
| **4** | Working of decision tree | **18/8** |  |  |
| **5** | Building a decision tree  | **19/8** |  |  |
| **6** | Methods of expressing attribute test conditions  | **20/8** |  |  |
| **7** | Measures for selecting the best split | **21/8** |  |  |
| **8** | Algorithm for decision tree induction | **22/8** |  |  |
| **9** | Model for fitting due to presence of noise | **25/8** |  |  |
| **10** | Due to lack of representation samples  | **26/8** |  |  |
| **11** | Evaluating the performance of classifier, hold out method | **27/8** |  |  |
| 12 | Random sub sampling cross validation , boot strap | **28/8** |  |  |

**UNIT-5**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Classification alternative techniques  | **29/8** |  |  |
| **2** | Bayesian classifier | **1/9** |  |  |
| **3** | Bayes theorem | **1/9** |  |  |
| **4** | Using Bayes theorem for classification | **2/9** |  |  |
| **5** | Naïve bayes classifier  | **3/9** |  |  |
| **6** | Bayes error rate  | **4/9** |  |  |
| **7** | Bayesian belief networks  | **5/9** |  |  |
| **8** | Model representation  | **15/9** |  |  |
| **9** | Model building | **15/9** |  |  |
| **Remarks by HOD:** |

**UNIT-6**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Association analysis , Problem definition | **16/9** |  |  |
| **2** | Frequent item set generation, The apriori principle | **18/9** |  |  |
| **3** | Frequent item set generation in the apriori algorithm  | **19/9** |  |  |
| **4** | Candidate generation and pruning  | **22/9** |  |  |
| **5** | Support counting, Rule generation | **23/9** |  |  |
| **6** | Compact representation of frequent item sets  | **25/9** |  |  |
| **7** | Fp growth algorithms  | **26/9** |  |  |
| **Remarks by HOD:** |

**UNIT-7**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Overview types of clustering  | **29/9** |  |  |
| **2** | Basic k- means  | **29/9** |  |  |
| **3** | K means additional issues | **30/9** |  |  |
| **4** | Bisecting k means , different types of clusters | **1/10** |  |  |
| **5** | Strengths and weaknessws | **3/10** |  |  |
| **6** | K means as an optimization problem | **6/10** |  |  |
| **Remarks by HOD** |

**UNIT-8**

**Faculty name: Jameson G Subject:DWDM**

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| **S.no** | **Name of the topic** | **Proposed date** | **Conducted date** | **Remarks** |
| **1** | Agglomerative hierarchical clustering  | **6/10** |  |  |
| **2** | Basic agglomerative algorithm  | **7/10** |  |  |
| **3** | Specific techniques  | **8/10** |  |  |
| **4** | DBSCAN: traditional density  | **9/10** |  |  |
| **5** | Center based approaches strengths and weaknesses | **10/10** |  |  |
| **Remarks by HOD** |