**Data Mining**

**CA 1 Portions**

**COURSE OUTCOME 1:**

INTRODUCTION: Motivation for Data Mining – Importance – Definition – Kinds of data for Data Mining –

Data Mining functionalities – Patterns – Classification of Data Mining Systems – Major issues in Data

Mining-Overview of Data Mining Techniques. DATA PREPROCESSING: Types of data, Data cleaning-

Smoothing, Handling missing values- Feature subset selection Sampling methods.

**Course outcome 2:**

MINING FREQUENT PATTERNS, ASSOCIATIONS AND CORRELATIONS: Basic concepts – Efficient and

Scalable Frequent Itemset Mining methods – Apriori,hashing with Apriori , FP Tree.

**BOOK**

1. Jiawei Han and Micheline Kamber , “Data Mining – Concepts and Techniques”, Morgan Kaufmann Publishers, 2012

**Course material**

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| Sno | Topic | PPT Drive Link |
| 1 | **Book Link**  Jiawei Han and Micheline Kamber , “Data Mining – Concepts and Techniques”, Morgan Kaufmann Publishers, 2012 | https://drive.google.com/file/d/1bfW8tYHWaayla9kHTySzfb9ArJ0ze\_E\_/view?usp=drive\_link |
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| CO1 | INTRODUCTION: Motivation for Data Mining – Importance – Definition – Kinds of data for Data Mining –  Data Mining functionalities – Patterns – Classification of Data Mining Systems – Major issues in Data  Mining-Overview of Data Mining Techniques. DATA PREPROCESSING: Types of data, Data cleaning-  Smoothing, Handling missing values- Feature subset selection Sampling methods | <https://docs.google.com/presentation/d/1uBuRcwfFSlinj1OGXBcVgHihtbppp3st/edit?usp=drive_link&ouid=111231193731952555201&rtpof=true&sd=true>  <https://docs.google.com/presentation/d/1uBuRcwfFSlinj1OGXBcVgHihtbppp3st/edit?usp=drive_link&ouid=111231193731952555201&rtpof=true&sd=true>  <https://docs.google.com/document/d/1xUDqzzIBCvsI0DhemKBkBceNLUFpAFqi/edit?usp=drive_link&ouid=111231193731952555201&rtpof=true&sd=true>  **Book chapters:1.2,1.3,1.4,1.7**  **2.1,2.2, 3.1,3.2,3.3** |
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| CO2 | MINING FREQUENT PATTERNS, ASSOCIATIONS AND CORRELATIONS: Basic concepts – Efficient and  Scalable Frequent Itemset Mining methods – Apriori,hashing , FP Tree. | <https://docs.google.com/document/d/1MikZEHJWjf7oZ2f0j9p8RnyZriuVPK4Y/edit?usp=drive_link&ouid=111231193731952555201&rtpof=true&sd=true>  <https://docs.google.com/presentation/d/1dY10moshmdGlY8Za20dr2N6vXmG3IeIn/edit?usp=drive_link&ouid=111231193731952555201&rtpof=true&sd=true>  **Book chapter-6** |
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