



SECOND SEMESTER 2022-2023
COURSE HANDOUT (PART-II)

Date: 16/01/2023

In addition to Part-I (General Handout for all courses appended to the timetable), this portion gives further specific details regarding the course.

Course Code : ME F321
Name of the Course : Data Mining in Mechanical Sciences
Instructor-In-Charge : Dr. Kundan Kumar Singh

Scope and Objective of the Course: The primary focus of this course is on application of data mining methods in mechanical sciences and engineering. Following are the detailed objectives of this course:

- Understanding the fundamental of data mining.
- Building mathematical foundation for data mining.
- Knowledge of data capturing to minimize the information losses.
- Understanding of patterns in data, data classification and clustering.
- Knowledge of application of identified patterns in data in fields like in-process monitoring, machine monitoring, defect analysis, machine and maintenance scheduling etc.
- Understanding of different prediction methods based on the data processing
- Understand the difference between artificial intelligence, machine learning and deep learning.
- Knowledge of which data mining methods should be used for what type of data.
- Understanding the concept of big data in manufacturing and how to handle it.

Text Books

- [1] Bhatia, P., 2019. Data mining and data warehousing: principles and practical techniques. Cambridge University Press.
- [2] Zaki, M.J. and Meira Jr, W., 2020. Data Mining and Machine Learning: Fundamental Concepts and Algorithms. Cambridge University Press.

Reference Books

- [3] Kantardzic, Mehmed. Data mining: concepts, models, methods, and algorithms. John Wiley & Sons, 2011.
- [4] Hand, David J. "Data mining: statistics and more?" The American Statistician 52, no. 2, 1998.
- [5] Maimon, Oded Z., and Lior Rokach. Data mining with decision trees: theory and applications. Vol. 81. World scientific, 2014.



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Table of Contents F321 Jan 20ums Boundaries

1. Understanding the eBook F321 Jan 20ums Boundaries
 - The Rise of Digital Reading F321 Jan 20ums Boundaries
 - Advantages of eBooks Over Traditional Books
2. Identifying F321 Jan 20ums Boundaries
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an F321 Jan 20ums Boundaries
 - User-Friendly Interface
4. Exploring eBook Recommendations from F321 Jan 20ums Boundaries
 - Personalized Recommendations
 - F321 Jan 20ums Boundaries User Reviews and Ratings
 - F321 Jan 20ums Boundaries and Bestseller Lists
5. Accessing F321 Jan 20ums Boundaries Free and Paid eBooks
 - F321 Jan 20ums Boundaries Public Domain eBooks
 - F321 Jan 20ums Boundaries eBook Subscription Services
 - F321 Jan 20ums Boundaries Budget-Friendly Options

6. Navigating F321 Jan 20ums Boundaries eBook Formats
 - ePub, PDF, MOBI, and More
 - F321 Jan 20ums Boundaries Compatibility with Devices
 - F321 Jan 20ums Boundaries Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of F321 Jan 20ums Boundaries
 - Highlighting and Note-Taking F321 Jan 20ums Boundaries
 - Interactive Elements F321 Jan 20ums Boundaries
8. Staying Engaged with F321 Jan 20ums Boundaries
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers F321 Jan 20ums Boundaries
9. Balancing eBooks and Physical Books F321 Jan 20ums Boundaries
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection F321 Jan 20ums Boundaries
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine F321 Jan 20ums Boundaries
 - Setting Reading Goals F321 Jan 20ums Boundaries
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of F321 Jan 20ums Boundaries
 - Fact-Checking eBook Content of F321 Jan 20ums Boundaries
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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