



**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.



# F321 Jan 20ums Boundaries

**M Carnoy**



**F321 Jan 20ums Boundaries:**

## **F321 Jan 20ums Boundaries** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**F321 Jan 20ums Boundaries**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/files/publication/HomePages/Honda%20Gx2service%20Manual.pdf>

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