## SHRI RAMSWAROOD MEMORIAL UNIVERSITY DDORLEMSET – IV

Session : 2025-26(Odd Sem) Semester : III

Course : B.tech Subject Code : UCS 3804

Branch : DS + AI Subject Name : Data Analytics & reporting Group : ALL Name of Faculty Member : Mr. Sukhmander singh,

Ms. Deepika

Unit : IV Topics Covered : All Topics

- 1. What are the key features of Microsoft Excel that make it suitable for data manipulation and analysis?
- 2. Explain how sorting and filtering can be used to organize and explore large datasets in Excel.
- 3. Describe how to apply conditional formatting to highlight important trends or outliers in data.
- 4. What is a pivot table? How can it be used to summarize and analyze data in Excel?
- 5. Explain how to create and customize different types of charts in Excel to effectively visualize data insights.
- 6. List and explain at least five commonly used Excel functions for data analysis (e.g., VLOOKUP, COUNTIF, SUMIF, AVERAGE, IF).
- 7. What are pivot charts and how do they differ from regular charts in Excel?
- 8. How does Excel help with error checking and ensuring data accuracy? Provide examples of built-in error-checking tools.
- 9. What is data validation in Excel? How can it be used to maintain data integrity in large spreadsheets?
- 10. What are some best practices for organizing and managing large datasets in Excel to ensure consistency and clarity?

## **Supplementary Questions:**

- 1. Design an Excel worksheet that includes data entry validation, automatic error highlighting, a pivot table, and at least two charts. Explain each element and its purpose.
- 2. Discuss a real-life scenario where Excel was used for end-to-end data analysis from raw data entry to visualization and reporting.

## **TEXTBOOKS:**

- 1. Data Science and Analytics by V.K. Jain
- 2. IBM Courseware

## **REFERENCE BOOKS:**

1. Data Analytics Made Accessible by Anil Maheshwari

(Signature of the Faculty Member with date)

(Signature of the Dean with date)