Title of the Course : Data Science using SPSS
Course Code
Nature of the Course :
Total Credits : 02
Distribution of Marks : 40 (End Sem) + 10 (In-Sem)
COURSE OBJECTIVES:

- To be familiar with basic tools of SPSS and data analytic techniques.
- To apply the tools for real-life data analysis projects and reporting.

| UNITS | CONTENTS | L | T | P | Total <br> Hours |
| :---: | :--- | :--- | :---: | :---: | :---: |
| 1 | Starting SPSS, Working with data file, Different data <br> types, Scale of measurements, Dialogue boxes. <br> Preparing the Data file, Creating data file, Entering data, <br> (08 Marks) <br> Mariable types in SPSS, Defining the variables, <br> Modifying data file, Import data. Screening and cleaning <br> data, Manipulation of data. | - | 04 | 08 |  |
| 2 | Variable Transformation/Recoding, Recoding <br> Categorical String Variables using Automatic Recode, <br> Grouping or Splitting Data, Replacing missing values, <br> Computing new variables, Selecting cases, Sorting <br> cases, Merging files, Generating random number. |  |  |  |  |
| (08 Markss |  |  |  |  |  |

MODES OF IN-SEMESTER ASSESSMENT:

- One Internal Examination -
- Others
- 
- Group Discussion/Assignment


## LEARNING OUTCOMES:

After the completion of this course:

- Students are expected to develop a clear understanding of the fundamental concepts of Data Analytics.
- Students will also learn SPSS tools, handling various types of data and their graphical representation.
- Students are expected to apply different data analytic tools in real life problems.


## SUGGESTED READINGS:

1. Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino, Wiley Publication
2. SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley.
3. SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech Press.
