

**Course Name: Foundations of Data Science (Cluster Elective),**

**Year: III, Semester: VI**

Semester	Course Code	Course Title	Hours	Credits
VI	C8	Foundations of Data Science	60	3

**Course Objectives:**

- Modern scientific, engineering, and business applications are increasingly dependent on data,
- existing traditional data analysis technologies were not designed for the complexity of the
- modern world. Data Science has emerged as a new, exciting, and fast-paced discipline that
- explores novel statistical, algorithmic, and implementation challenges that emerge in
- processing, storing, and extracting knowledge from Big Data.

**Course Outcomes:**

- 1.Able to apply fundamental algorithmic ideas to process data.
- 2.Learn to apply hypotheses and data into actionable predictions.
- 3.Document and transfer the results and effectively communicate the findings using visualization techniques.