



Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur - 441108

Accredited with NAAC A+Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



Department of Computer Science & Engineering

B.Tech. V Semester in Computer Science & Engineering

Course Name: BCS33507 (Introduction to Data Science)

BCS33507	Course Outcomes
CO1	Apply fundamentals of data science including its scope, evolution, lifecycle, roles, and ethical challenges.
CO2	Apply data preparation and preprocessing techniques using NumPy and Pandas to explore and manipulate raw data.
CO3	Analyze data through statistical methods including correlation, hypothesis testing, ANOVA, and distribution analysis using Python
CO4	Implement basic machine learning algorithms such as regression, clustering, classification, and decision trees to derive insights from data.
CO5	Visualize and interpret data using various advanced visualization techniques including scatter plots, histograms, box plots, pair plots, and 3D plots.