MURGAON EDUCATION SOCIETY'S
VASANT JOSHI COLLEGE OF ARTS & COMMERCE
Zuarinagar, Goa – 403726

Affiliated to Goa University

ACADEMIC YEAR 2024 – 2025

Course Title: Thirty-Hours Short-Term Certificate Course on "Data Analysis and Reporting".

Learning Objective:
This Course is designed to Master the use of Jamovi, Gretl, and JASP to efficiently clean, transform, analyze, and visualize data, perform key statistical tests and multivariate methods, and effectively derive and communicate data-driven insights.

Duration: 29th July 2024 to 08th October 2024
Schedule: 1:00 p.m. to 2:30 p.m. on every Monday and Tuesday.
No. of Seats: 32 Students
Target Group: Current M.Com. Part I & II of M.E.S. Vasant Joshi College of Arts & Commerce, Zuarinagar Goa.
Resource Person: Asst. Prof. Mr. Suraj Prakash Tuyekar from the Post Graduate Department of Commerce (M.Com.)
*External resource person as per the availability and the topic.
Certificate Course Fees: NIL
Remuneration to Resource Person: NIL

Course Content: Syllabus

Sr. No.	Syllabus	Hours Allotted Per Unit
1	Unit I- Foundations of Data Analysis	05 Hours
2	Unit II- Data Handling and Pre-processing	05 Hours
3	Unit III- Descriptive Statistics and Data Exploration	05 Hours
4	Unit IV- Hypothesis Testing	05 Hours
5	Unit V- Regression Analysis	05 Hours
6	Unit VI- Multivariate Analysis and Final Project	05 Hours
	Total	30 Hours

Modus Operandi:
➢ Sessions – Two Days a week
➢ Days – Monday and Tuesday
➢ Timing – $1\frac{1}{2}$ hour (One and half hour)

➢ Total number of sessions: 20

<u>Modes of Evaluation: -</u>
➢ An examination will be conducted on the entire syllabus at the end of the "**Data Analysis and Reporting"** certificate course.

<u>Outcomes of the Short-Term Certificate Course:-</u>
At the end of the course students will be able to:
CO1: Effective use of Jamovi, Gretl, and JASP for comprehensive data analysis.
CO2: Skills in cleaning, transforming, and visualizing data for accurate analysis.
CO3: Ability to perform and interpret various statistical tests and models.
CO4: Competence in multivariate methods such as PCA and Factor Analysis,
CO5: Enhanced ability to derive insights, make data-driven decisions, and present findings clearly.