

Lecture Plan							
Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa							
Name of Faculty: Ms. Sampada Desai				Subject: Economics			
Paper code: ECO141 Data Analysis I				Program: FYBA		Division: A	
Academic year: 2026-2027				Semester: I		Total Lectures: 15	
Course Objectives: 1. Learn the tools for analyzing data 15 Understand the use of spreadsheets							
Course Outcome: 1. Summarize and explore data in spreadsheets 2. Measures of association in spreadsheets							
Student Learning Outcome: 1. Students will be able to summarize and explore data in spreadsheets. 2. Students will be able to measure of association in spreadsheets							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignm ent	ICT Tools	Reference books
JULY	01/07/2026	04/07/2026	1	Module 1: Introduction to statistical concepts: Defining statistics, Reasons for Using Statistical Methods	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	06/07/2026	11/07/2026	1	Understanding Probability and Random variables, Population vs Sample,	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	13/07/2026	18/07/2026	1	Descriptive and Inferential statistics, Sample Statistics and Population Parameters, Idea	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition,

				of statistical significance,			Himalaya Publishing House Pvt. Ltd, Mumbai
	20/07/2026	25/07/2026	1	Classification of data (variables): Quantitative (Discrete and Continuous) and Qualitative (categorical);	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	27/07/2026	31/07/2026	1	Primary and Secondary data sources,	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
AUGUST	01/08/2026	01/08/2026	1	Data representation: Commonly used Tables and Graphs	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	03/08/2026	08/08/2026	1	Module 2: Descriptive statistics: Measures of Central Tendency: Mean, Median and Mode);	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	10/08/2026	15/08/2026	1	Measures of Dispersion: Range, Inter Quartile Range, Semi Quartile Range	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	17/08/2026	22/08/2026	1	Mean Deviation, Variance and Standard Deviation.	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of

							Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	24/08/2026	29/08/2026	1	Measures of Position: The Quartiles and Other Percentiles, The Interquartile Range	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
SEPTEMBER	01/09/2026	05/09/2026	1	Measures of Symmetry: Skewness and Kurtosis.	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	07/09/2026	12/09/2026	1	Module 3: Analysis using Spreadsheets and OS softwarel: (Practical Component) Data Processing in spreadsheets: Editing, Coding;	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	21/09/2026	26/09/2026	1	Data representation: Commonly used Tables and Graphs (with interpretation),	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	28/09/2026	30/09/2026	1	generating descriptive statistics	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai

OCTOBER	01/10/2026	03/10/2026	1	Gretl interface, importing data to Gretl,	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	05/10/2026	10/10/2026	1	exploring inbuilt datasets for descriptive statistics and their interpretation	.	PowerPoint presentation/ Smart board	Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	12/10/2026	17/10/2026	1	Revisiom			Gupta S.C. (2016): Fundamentals of Statistics, 7th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai
	Component	Max Marks					
Assessment Rubrics	ISA 1	5					
	ISA 2	5					
	Project						
	Semester End Exam	20					