

Lecture Plan		
Name of the college: Government College Arts science and commerce Sanquelim Goa		
Name of Faculty:GAURI VERNEKAR	Subject: DECISION MAKING WITH SPREADSHEET 2	
Paper code:ECO321	Program: BA(MINOR)	Division:
Academic year: 2026-27	Semester: V	Total Lectures: 75
Course Objectives: Familiarize students with forecasting methods in spreadsheets		
• Introduce students to decision-making models in spreadsheet		
Expected Course Outcome: Students are expected to learn various time series forecasting tools		
Sdent Learning Outcome: At the end of the course, students will be able to:		
Students will be able to:1. Apply statistical tools		
2. Execute time series forecasting		
3. Execute forecasting methods		
4. Undertake advanced models of decision making in spreadsheetsresources for business.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
JUNE	22/6/2026	30/6/2026	5	Unit I: Statistics and Decision Making – Importing & Validating Data, Histograms, Descriptive Statistics	Data validation exercise	MS Excel / LibreOffice Calc	Anderson, Sweeney & Williams – Statistics for Business & Economics
				Unit I: PivotTables, Slicers, Summarizing Data, Filtering & Removing Duplicates	PivotTable practice	MS Excel / LibreOffice Calc	Anderson, Sweeney & Williams
JULY	1/7/2026	8/7/2026	6	Unit I: Straight Line Relationships, Exponential Growth, Power Curve		Graph plotting exercises	
JULY	9/7/2026	15/7/2026	5	Unit I: Correlations, Multiple Regression, Qualitative Factors, ANOVA (One-way & Two-way)	Regression analysis assignment	MS Excel / LibreOffice Calc	Anderson, Sweeney & Williams
JULY	16/7/2026	22/7/2026	5	Unit II: Time Series – Moving Averages, Winters Method, Forecasting Special Events	Time series forecasting exercise	MS Excel / LibreOffice Calc	Anderson, Sweeney & Williams
JULY	23/7/2026	31/7/2026	7	Unit I: Correlations, Multiple Regression,	Regression analysis	MS Excel / LibreOffice	Anderson, Sweeney

				Qualitative Factors, ANOVA (One-way & Two-way)	assignment	Calc	& Williams
AUGUST	1/8/2026	8/8/2026	5	Unit II: Time Series – Moving Averages, Winters Method, Forecasting Special Events	Time series forecasting exercise	MS Excel / LibreOffice Calc	Anderson, Sweeney & Williams
AUGUST	10/8/2026	17/6/2026	5	Unit II: Random Variables – Binomial, Hypergeometric, Negative Binomial	Probability exercises	MS Excel / LibreOffice Calc	Ross – Introduction to Probability Models
AUGUST	18/8/2026	24/6/2026	5	Unit II: Poisson & Exponential Random Variables, Normal, Weibull & Beta Distributions	Simulation exercises	MS Excel / LibreOffice Calc	Ross – Introduction to Probability Models
AUGUST	25/8/2026	31/8/2026	5	Unit II: Machine Life Models, Project Forecasts	Project forecasting exercises	MS Excel / LibreOffice Calc	Ross – Introduction to Probability Models
SEPTEMBER	1/9/2026	8/9/2026	5	Unit III: Decision Analysis – Lognormal Distribution, Monte Carlo Simulation	Monte Carlo simulation practice	MS Excel / LibreOffice Calc	Hillier & Lieberman – Introduction to Operations Research
SEPTEMBER	14/9/2026	19/9/2026	GANESH BREAK				

SEPTEMBER	21/9/2026	30/9/2026	7	Unit III: Stock Options, Determining Customer Value	Case study: customer value	MS Excel / LibreOffice Calc	Hillier & Lieberman
October	1/10/2026	7/10/2026	5	Unit IV: Advanced Decision Models – EOQ, Inventory Modeling, Queuing Theory	Inventory modeling exercises	MS Excel / LibreOffice Calc	Nahmias – Production and Operations Analysis
october	8/10/2026	14/10/2016	5	Unit IV: Mathematics of Waiting Line, Estimating Demand Curve	Queuing problem exercise	MS Excel / LibreOffice Calc	Nahmias