

Lecture Plan							
Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa							
Name of Faculty: Ms. Sampada K. Desai				Subject: Decision Making with Spreadsheets I			
Paper code: ECO 221				Program: BA		Division: -	
Academic year: 2025-26				Semester: IV		Total Lectures:30	
Course Objectives: To Introduce the students with decision-making tools using spreadsheets.							
<b>Student Learning Outcome: The students will be able:</b> 1. Familiarise with multiple spreadsheet commands for general day-to-day use. 2. Use a spreadsheet solver for optimisation problems 3. Use advanced spreadsheet techniques for multiproblem solutions							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December 2025	01/12/25	06/12/25	02	Unit 1: Introduction to Decision Making using spreadsheets: Range Names, Lookup Functions,	Practice with google sheets	PPT, smart board	-  1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press

	08/12/25	13/12/25	02	Index Function, Match Function,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	15/12/25	20/12/25	02	Text Functions, Dates and Date Functions		PPT, smart board <b>PC</b>	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	22/12/25	27/12/25	00				- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	29/12/25	03/01/26	01	Evaluating Investments by Using Net Present Value Criteria,			- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
<b>January 2026</b>	05/01/26	10/01/26	02	Internal Rate of Return	Calculate using formula	PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press

	12/01/26	17/01/26	02	More Financial Functions .		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	19/01/26	24/01/26	02	Circular References, If Statements,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	26/01/26	31/01/26	02	Time and Time Functions, Paste Special Command		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
<b>February 2026</b>	02/02/26	07/02/26	02	<b>Unit 3: Decision Analysis using Solver:</b> An Introduction to Optimization with Solver,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	09/02/26	14/02/26	02	Using Solver to Determine the Optimal Product Mix,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	16/02/26	21/02/26	02	Using Solver to Schedule Your Workforce,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	23/02/26	28/02/26	02	Using Solver to Solve Transportation or Distribution Problems,		PPT, smart board	-

							1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
<b>March 2026</b>	02/03/26	07/03/26	02	Using Solver for Capital Budgeting,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	09/03/26	14/03/26	02	<b>Unit 4: Advanced uses of solver for decision making:</b> Penalties and the Evolutionary Solver,		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	16/03/26	21/03/26	02	Warehouse Location and the GRG Multistart and Evolutionary Solver Engines		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
	23/03/26	28/03/26	02	The Traveling Salesperson Problem		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press
<b>April 2026</b>	30/03/26	04/04/26	02	Revision		PPT, smart board	- 1. Winston, W., Microsoft® Excel® 2010: Data Analysis and Business Modeling, 3rd ed., 2011. Redmond, WA: Microsoft Press

### Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
SEE	60