

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa		
Name of Faculty: Dr. Guruprasad Ramakrishna Naik	Subject: Economics	
Paper code: ECO 221 (Decision Making with Spreadsheet-I)	Program: S.Y.B.A.	Division: -
Academic year: 2024-2025	Semester: IV	Total Lectures:16
Course Objectives: The objectives of the course is to introduce the students with decision making tools using spreadsheet.		
Course Outcome: Students will be able to 1.Familiarize with multiple spreadsheet commands for general day to day use. 2.Apply spreadsheet commands and functions in decision making. 3.Use a spreadsheet solver for optimisation problems. 4.Use advanced spreadsheet techniques for multiproblem solutions.		
Student Learning Outcome: Upon completing this course, students will be able to: <ol style="list-style-type: none"> 1. Apply spreadsheet tools for decision making. 2. Analyse data using various functions. 3. Evaluate investments using financial functions. 4. Conduct sensitivity analysis and scenario planning. 5. Optimize decisions using solver. 6. Develop advanced spreadsheet skills. 7. Apply decision analysis techniques to real world problems. 		

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Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December 2024	9/12/2024	14/12/2024	01	UNIT 1 Range Names	Exercises on Range Names and Lookup functions.	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Lookup Functions			
December 2024	16/12/2024	21/12/2024	01	Index function	Assignments topics related to index and match functions.	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Match Function			
January 2025	2/01/2025	4/01/2025	01	Text Function	Assignments topic related to date and dates functions.	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Dates and Date functions			
January 2025	6/01/2025	11/01/2025	01	Evaluating investments by using Net Present value criteria	Exercises on evaluating investments by using NPV and IRR	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Internal rate of returns			

January 2025	13/01/2025	18/01/2025	01	More functional functions	Exercises and examples on functional functions	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				More functional functions			
January 2025	20/01/2025	25/01/2025	01	Circular references	Assignment topic related to Circular reference .	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Circular references			
January 2025 and February 2025	27/01/2025	1/02/2025	01	Time and Time Functions	Examples on time and time functions.	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
February 2025	3/02/2025	8/02/2025	01	Paste special command	Assignments and even exercises given to this topic	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
February 2025	10/02/2025	15/02/2025	01	UNIT 2 Three Dimensional Formulas	Exercises on three dimensional formulas and	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				The Auditing Tools			

					auditing tool.		
February 2025	17/02/2025	22/02/2025	01	Sensitivity Analysis with Data Tables	Examples given on the Goal seek command .	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				The Goal Seek Command			
February 2025 and March 2025	24/02/2025	1/03/2025	01	Using the Scenario Manger for sensitivity analysis	Assignme nt on COUNTIF, COUNTIFS and COUNT Function	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				COUNTIF, COUNTIFS and COUNT Function			
March 2025	3/03/2025	8/03/2025	01	COUNTA and COUNTBLANK Function	Exercises on SUMIF and AVERAGEIF Functions	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				SUMIF and AVERAGEIF Functions			
March 2025	10/03/2025	15/03/2025	01	SUMIFS and AVERAGEIFS Functions	Exercises on Condition al Formattin g	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Conditional Formatting			
March 2025	17/03/2025	22/03/2025	01	OFFSET Functions	Exercises on OFFSET and	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision
				INDIRECT Function			

					INDIRECT Function		making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025	24/03/2025	29/03/2025	01	Sorting in Spreadsheet	Exercises on Sorting in Spreadsh eet and Tables and Spin Buttons	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Tables and Spin Buttons			
March 2025 and April 2025	31/03/2025	5/04/2025	01	Scroll Bars and option Buttons	Exercises on Scroll Bars and option Buttons and Check Boxes and Combo boxes	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Check Boxes and Combo boxes			
April 2025	7/04/2025	11/04/2025	01	Group List	Exercises on Group List.	SmartScreen, Greenboard , PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3 rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
				Revision			
Assessment Rubrics	Component	Max Marks					
	ISA 1	7.5 Marks					
	ISA 2	7.5 Marks					
	Semester End Exam	60 Marks					