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 Practical: 17**

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.Familarize 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:
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.

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, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
December 2024	16/12/2024	21/12/2024	01	Lookup function	Assignments topics related to index and match functions.	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
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, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
January 2025	6/01/2025	11/01/2025	01 Hour	COUNTIFS and COUNT Function	Exercise on COUNTIFS and COUNT Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
January 2025	13/01/2025	18/01/2025	01 Hour	COUNTA Function	Exercise on COUNTA Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.

January 2025	20/01/2025	25/01/2025	01 Hour	COUNTBLANK Functions	Exercise on COUNTBLANK Functions	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
January 2025 and February 2025	27/01/2025	1/02/2025	01 Hour	SUMIF Function	Exercise on SUMIF Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd 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 Hour	AVERAGEIF Functions	Exercise on AVERAGEIF Functions	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd 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 Hour	SUMIFS Function	Exercise on SUMIFS Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
February 2025	17/02/2025	22/02/2025	01 Hour	AVERAGEIFS Functions	Exercise on AVERAGEIFS Functions	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
February 2025 and March 2025	24/02/2025	1/03/2025	01 Hour	OFFSET Function	Exercise on OFFSET Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business1Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative

							approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025	3/03/2025	8/03/2025	01 Hour	INDIRECT Function	Exercise on INDIRECT Function	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025	10/03/2025	15/03/2025	01 Hour	Sorting in Spreadsheet	Exercise on Sorting in Spreadsheet	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025	17/03/2025	22/03/2025	01 Hour	Tables Managing	Exercise on Tables Managing	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025	24/03/2025	29/03/2025	01 Hour	Spin Buttons and Scroll Bars	Exercise on Spin Buttons and Scroll Bars	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
March 2025 and April 2025	31/03/2025	5/04/2025	01 Hour	Option Buttons and Check Boxes	Exercise on Option Buttons and Check Boxes	SmartScreen, Greenboard, PowerPoint.	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.
April 2025	7/04/2025	11/04/2025	01 Hour	Combo boxes and Group List	Exercise Combo boxes	SmartScreen, Greenboard	Winston, W, Microsoft Excel 2010: Data Analysis and Business Modelling, 3rd ed,2011. Redmond, WA: Microsoft Press. Introduction

					and Group List	, PowerPoint.	to Management Science: Quantitative approaches to Decision making, by David Anderson, Dennis J. Sweeney Thomas.

	Component	Max Marks
Assessment Rubrics	ISA 1	7.5 Marks
	ISA 2	7.5 Marks
	Semester End Exam	60 Marks