

M. G. Science Institute, Ahmedabad

Autonomous | Affiliated to Gujarat University, Ahmedabad

(Managed by The Ahmedabad Education Society)

Department of Statistics

Bachelor of Science (Hons.) in Statistics

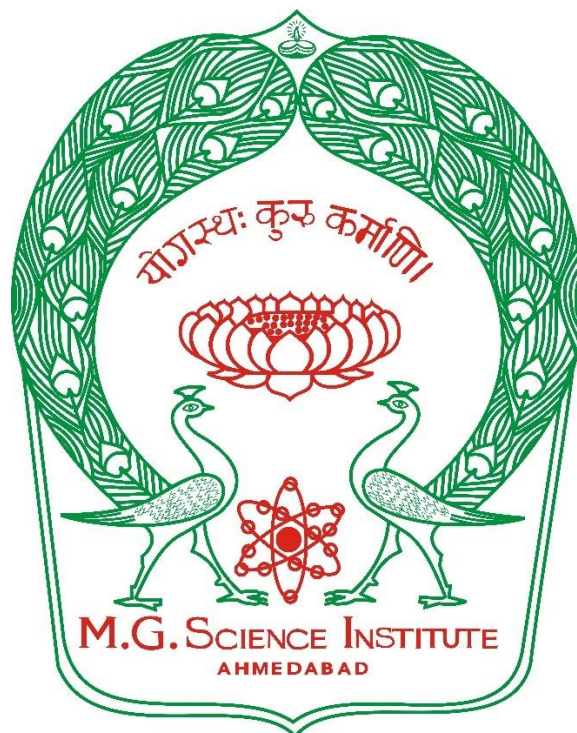
B.Sc. (Hons.) Statistics

4 Year, 8 Semester Full-Time Programme

Choice Based Credit System (CBCS) & Grading System

Outcome-Based Education Pattern

(Effective from Academic Year 2024-25)



Detailed Syllabus for STSEC126 Advanced Excel Skills for Data Science

Semester: II	Course Title: Advanced Excel Skills for Data Science	Credit: 2
Course No.: STSEC126		Hours: 2/week

Course Outcomes: On successful completion of the course the learner will be able to

CO	COGNITIVE ABILITIES	COURSE OUTCOMES
CO 1	REMEMBERING	Remember Excel functions, data validation tools.
CO 2	UNDERSTANDING	Understand Advanced Excel formula and other data validation tools.
CO 3	APPLYING	Apply pivoting technique to summarize the real-life data. Apply slicers to the data in excel. Applying page layout to excel worksheet.
CO 4	ANALYSING	Analysing data using advanced excel functions and techniques.
CO 5	EVALUATING	Summarize the data using suitable filtering and pivot table techniques.
CO 6	CREATING	Students can visualize the data using charts and slicers.

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	
CO 2	1	1	1	2	
CO 3	1	1	3	1	
CO 4	2	1	3	1	
CO 5	1	1	2	1	
CO 6	1	1	2	3	1

Unit	Detailed Syllabus	No. of Hours of Teaching
I	Advanced MS Excel <ul style="list-style-type: none"> Advance functions: ifs, sumif, sumifs, averageif, averageifs, lookup, vlookup and hlookup, xlookup. Data Validation Create and modify pivot tables, value field settings, Sorting and filtering pivot tables. Charts and Slicers. Page layouts, and page setup. 	15
II	Practical Based on Unit-I <ol style="list-style-type: none"> Use of advanced Excel functions: ifs, sumif, sumifs, averageif, averageifs. Use of lookup, vlookup, hlookup functions Creating and modifying pivot tables. Use of data validations. Charts and slicer 	30

Suggested Reference Books:

1. Microsoft Excel: Data Analysis and Business Model, PHI, Wayne, WL, 2019.

Microsoft Excel Formulas and Functions Dummies, Ken Bluttman, 2020.