

ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00) College with Potential for Excellence by UGC DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

Bachelor of Business Administration

SUBJECT: BBA

B.B.A. II Semester

Paper-Elective

Data Analysis using Advance Excel

Course Outcomes

CO. No.	Course Outcomes	Cognitive
		Level
CO 1	Students will learn fundamental Excel functions and data manipulation	U, Apply,
	techniques.	Analyze
CO 2	Students can learn to introduce charting and visualization methods for data	K,Apply
	analysis.	
CO 3	To explain data validation and conditional formatting for data integrity	U,K
CO 4	To teach advanced Excel techniques such as PivotTables, PivotCharts, and	U,
	What-If analysis and data consolidation	Analyze
CO 5	To cover advanced charting and visualization methods, macros for task	U
	automation and efficiency.	

Credit and Marking Scheme

	Cradita	Ma	rks	Total Marka
	Creuits	Internal	External	T OTAT MATKS
Theory	3	40	60	100
Practical	1	40	60	100
Total	4		200	

Evaluation Scheme

	Marks		
	Internal	External	
Theory	3 Internal Exams of 20 Marks	1 External Exams	
	(During the Semester)	(At the End of Semester)	
	(Best 2 will be taken)		
Practical	3 Internal Exams	1 External Exams	
	(During the Semester)	(At the End of Semester)	
	(Best 2 will be taken)		





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Content of the Course

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.

Maximum Marks: 60

Units	Topics	No. of
		Lectures
Ι	Basic Functions and Data Management:	15
	Introduction to Excel functions: SUM, AVERAGE, COUNT.	
	Logical functions: IF, AND, OR for decision-making in formulas.	
	Sorting and filtering: Organizing and analyzing data to identify patterns.	
	Text Functions: Utilizing functions like CONCATENATE, LEFT, RIGHT, MID for	
	text manipulation.	
	Date and Time Functions: Using functions such as TODAY, NOW, DATE, TIME	
	for handling date and time data effectively.	
II	Charts and Graphs: Creating basic charts: Column, bar, and pie charts to visualize data.	15
	Customizing charts: Formatting elements, axes, titles, and legends for clarity. Adding	
	trendlines: Visualizing trends and forecasting future data points.	
III	Advanced Functions and Analysis: Lookup functions: VLOOKUP, HLOOKUP, INDEX,	15
	MATCH for advanced data retrieval. Conditional summing and counting: SUMIF, SUMIFS,	
	COUNTIF, COUNTIFS for targeted analysis. Statistical Functions: Using functions such as	
	MIN, MAX, MEDIAN, and MODE for statistical analysis.	
IV	Data Validation and Conditional Formatting: Setting validation rules: Controlling	15
	data entry and ensuring accuracy. Custom validation criteria: Creating complex	
	validation scenarios for data integrity. Applying conditional formatting: Highlighting	
	trends, patterns, and anomalies in data.	
	Macros and Automation Introduction to macros: Understanding macros and their role	
	in automating tasks. Recording and editing macros: Recording and modifying macros	
	to automate repetitive processes.	

References

• Text Books

- 1. Advanced Excel Essentials, Jordan Goldmeier, Apress
- 2. Data Analysis with Excel, Manisha Nigam, BPP publications
- Reference Books
 - 1. Advanced Excel Formulas, Murray Alan, Apress
 - 2. Mastering Advanced Excel, Ritu Arora, BPB





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List of Practical

- 1. Create a marksheet in MS-Excel and calculate total marks and percentage of all 5 subjects.
- 2. Create a table student having columns first Name , Last Name , DOB merge first Name and Last Name columns.
- 3. Create a sales table in MS-Excel showing the monthly sales made by salesman and convert it into bar graph showing legend ,X-Axis , Y-Axis , Chart Title and Numbers over the bars.
- 4. Create a list of name and marks of two sections apply VLOOKUP function to search for a specific value of name and marks from first column and retrieve the corresponding values from another column.