

ACADEMIC PLANNER (APPLIED MATHEMATICS-XI, 2025-26)							
Month (WD)	Content	Learning outcomes	Assignment/ H.W	Practical/ Project work/ Mode of Assessment	Teaching Pedagogy	INTERDISCIPLINARY ASPECT	21ST CENTURY SKILLS/ SDG
May	UNIT – 2 ALGEBRA						
1-15 (11)	Sets	<ul style="list-style-type: none"> Defines set as well-defined collection of objects Understands different types of sets and their notations Applies set operations in real-world problems 	Exercises of Chapter from CBSE Book/M.L Bhargava	Project on any one topic from the List of Projects suggested by CBSE - venn Diagrams	Discussion, Real-life examples, Hands on (Venn Diagrams), Inquiry-based learning	Data Science (Set Theory in AI), Statistics (data representation), Computer Science (database queries), Economics (Market research)	Analytical Skills, Creative Thinking, Logical Reasoning
	Introduction to sets – definition, Representation of sets, Types of sets and their notations, Subsets, Intervals, Venn diagrams, Operations on sets						
16-25 (8)	Relations	<ul style="list-style-type: none"> Explains the significance of specific arrangement of elements in a pair Expresses relation as a subset of Cartesian product Finds domain and range of a relation 	Exercises of Chapter from CBSE Book/M.L Bhargava	Class Test/HW	Story telling Based	Data Science	Problem solving Skills
	Ordered pairs, Cartesian product of two sets, Relations						
July	UNIT- 6 DESCRIPTIVE STATISTICS						
1-15 (12)	Data Interpretation: Measure of Dispersion, Range, Quartile deviation, mean deviation, standard deviation	<ul style="list-style-type: none"> Differentiates between measures of dispersion Calculates measures of dispersion Calculates and interpret Percentile rank of scores in a given ungrouped data set Calculates Spearman's rank correlation for ungrouped data 	Exercises of Chapter from CBSE Book/M.L Bhargava	creating pictographs, drawing pie chart, bar graphs using MS Excel	Data collection , Data analysis, Presentation	Business Studies (Sales Analysis)	Data literacy, Evidence-based thinking
16-31 (14)	Percentile rank, Correlation						

February	Revision for Final Exams	
1-15 (12)		

TERMWISE SYLLABUS		
UT 1 (July)	UNIT - 1 (NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS), UNIT - 2 (ALGEBRA-SETS, RELATIONS)	
Half Yearly/Term 1 (Sep.)	UNIT- 1, 2 (ALGEBRA; NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS)	
UT 2 (November)	UNIT - 3, 4 (MATHEMATICAL REASONING; ALGEBRA- PERMUTATIONS & COMBINATIONS)	
Annual (Feb March)	COMPLETE SYLLABUS	