ACADEMIC PLANNER (APPLIED MATHEMATICS-XI, 2024-25)

| Month (WD) | Content |  <br> Assignment | Practical/Project Work |
| :---: | :--- | :---: | :--- |
| July | UNIT - 2 ALGEBRA |  |  |
| $\mathbf{1 - 1 5 ( 1 2 )}$ | Sets |  |  |
|  | Introduction to sets - definition, Representation of sets, <br> Types of sets and their notations, Subsets, Intervals, <br> Venn diagrams, Operations on sets | Exercises of <br> Chapter from <br> CBSE Book |  |
| $\mathbf{1 6 - 3 1 ( 1 3 )}$ | Relations |  | Exercises of <br> Chapter from <br> CBSE Book |
|  | Project on any one topic <br> from the List of Projects <br> suggested by CBSE |  |  |
|  | UNIT- 6 DESCRIPTIVE STATISTICS |  |  |
|  | Data Interpretation: Measure of Dispersion, Skewness <br> and Kurtosis | Exercises of <br> Chapter from <br> CBSE Book | creating pictographs, <br> drawing pie chart, bar <br> graphs uaing Excel |


| August | UNIT - 2 ALGEBRA |  |  |
| :---: | :---: | :---: | :---: |
| 1-15 (11) | Sequence and Series |  |  |
|  | Sequence and Series, Arithmetic Progression, Geometric Progression, Applications of AP and GP | Exercises of Chapter from CBSE Book |  |
| 16-31 (12) | UNIT - 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS |  |  |
|  | Numbers \& Quantification |  |  |
|  | Binary Numbers, Indices, Logarithm and Antilogarithm, Laws and properties of logarithms, Simple applications of logarithm and antilogarithm | Exercises of Chapter from CBSE Book | Collect the data on weather, price, inflation, and pollution. Sketch different types of graphs and analyze the results |
| September | UNIT - 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS |  |  |
| 1-15(11) | Numerical Applications |  |  |
|  | Averages, Clock, Calendar, Time, Work and Distance, Mensuration, Seating arrangement | Exercises of Chapter from CBSE Book | Calculating average Using Excel |
| 16-30 (12) | HALF YEARLY EXAMINATIONS |  |  |


| October | UNIT -3 MATHEMATICAL REASONING |  |  |
| :---: | :--- | :--- | :--- |
| $\mathbf{1 - 1 5}(\mathbf{9})$ | Logical reasoning - <br> $\bullet$ Odd man out <br> $\bullet$ Syllogism <br> $\bullet$ Blood relations <br> $\bullet$ Coding Decoding | Exercises of <br> Chapter from <br> CBSE Book | Prepare a report card using <br> scores of the last four <br> exams and compare the <br> performance using Excel |
| $\mathbf{1 6 - 3 1 ( 1 2 )}$ | UNIT - 2 ALGEBRA |  |  |
|  | Permutations and Combinations |  |  |
|  | Factorial, Fundamental Principle of Counting, <br> Permutations, Combinations | Exercises of <br> Chapter from <br> CBSE Book |  |


|  |  |  |  |
| :---: | :--- | :--- | :--- |
| November | UNIT - 4 CALCULUS |  | Exercises of <br> Plot the graph of functions <br> on excel. Study the nature <br> of function at various <br> points, drawing lines of <br> tangents |
| $\mathbf{1 0 1 5}$ | Graphical representation of functions, Concepts of <br> limits and continuity of a function |  |  |
| $\mathbf{1 6 - 3 0}$ (13) | UNIT - 4 CALCULUS | CBSE Book |  |

TERMWISE SYLLABUS

| UT 1 (July) | UNIT - 1 (NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS), UNIT - 2 <br> (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 (FebMarch) | COMPLETE SYLLABUS |

