**DAV Police Public School, Hisar**

**Subject:-MATHEMATICS**

**Class- XI (2025-26)**

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| **Month** | **Wd** | **Tp** | **Units** | **Chp./ topic** | | | **Activity** | | **Assignments** | Related to other subjects |
| APRIL | **22** |  | I (SETS  RELATION AND FUNCTIONS | CHAPTER 1  SETS  CHAPTER-2 RELATIONS AND FUNCTIONS | | | TO REPRESENT SET THEORETIC OPERATIONS USING VENN-DIAGRAMS  TO DISTINGUISH BETWEEN A RELATION AND A FUNCTION. | | EXTRA QUESTIONS FROM OTHER BOOKS | Computer Science: Set theory basics, logical operations and functions |
| MAY | 24 |  | II (ALGEBRA) | CHAPTER 4  (COMPLEX NUMBERS AND QUADRATIC EQUATIONS)  CHAPTER 11  INTRODUCTION TO THREE DIMENSIONAL GEOMETRY | | | TO INTERPRET GEOMETRICALLY THE MEANING OF AND ITS POWERS.  TO PREPARE A MODEL  ON REPRESENTATION OF THREE DIMENSIONAL GEOMETERY | | EXTRA QUESTIONS FROM OTHER BOOKS.  ASSIGNMENT FROM OTHER BOOKS | Physics: Quadratic equations in kinematics.  Computer Graphics |
| JUNE | **SUMMER VACATIONS** | | | | | | | | |  |
| JULY | 24 |  | ALGEBRA | | | CHAPTER 3  TRIGONOMETRIC FUNCTIONS | GRAPHICAL REPRESENTATION OF TRIGONOMETRIC FUNCTIONS | ASSIGNMENT FROM OTHER BOOKS +  NCERT Questions & Worksheet | |  |
|  |  |  | ALGEBRA | | | CHAPTER 5  LINEAR INEQUALITIES |  | WORK  SHEET NO.11 | | Economics |
| AUG. | 22 |  |  | | | CHAPTER 6  PERMUTATIONS AND COMBINATIONS |  | QUESTIONS FROM OTHER BOOKS. | | Computer Science: Permutations/combinations in algorithms. |
|  |  |  | II  (ALGEBRA) | | | CHAPTER 7  BINOMIAL THEOREM  REVISION OF  HALF YEARLY  EXAM | TO CONSTRUCT A  PASCAL’S TRIANGLE  AND TO WRITE BINOMIAL EXPANSION FOR A GIVEN POSITIVE INTEGRAL EXPONENT. | QUESTIONS FROM OTHER BOOKS.  QUESTIONS FROM OTHER BOOKS. | | Computer Science |
| SEP | 23 | REVISION & EXAMS(HALF- YEARLY) | | | | | | | |  |
| OCT | 19 |  |  | | Chapter-8  SEQUENCE  AND SERIES | | TO DEMONSTRATE THAT THE A.M. OF TWO DIFFERENT POSITIVE NUMBERS IS ALWAYS GREATER THAN THE GEOMETRIC MEAN. | | QUESTIONS FROM OTHER BOOKS | Economics: Sequences in calculating compound interest, annuities. |
|  |  |  | II(ALGEBRA) | | CHAPTER 9  **STRAIGHT LINES** | |  | | QUESTIONS FROM OTHER BOOKS. | Physics: Motion in two and three dimensions. |
| NOV. | 22 |  |  | | CHAPTER 10  CONIC SECTION | | TO CONSTRUCT AN ELLIPSE USING A RECTANGLE. | | ASSIGNMENT FROM OTHER BOOKS | Computer Graphics (CS optional): Coordinate systems. |
|  |  |  | CALCULUS | | CHAPTER 12  **LIMITS AND DERIVATIVES** | | TO FIND ANALYTICALLY | | QUESTIONS FROM OTHER BOOKS. | Physics: Concepts of instantaneous rate of change, velocity. |
| DEC | 24 |  | VI (STATISTICS  & PROBABILITY | | CHAPTER 13  STATISTICS | |  | | QUESTIONS FROM OTHER BOOKS. | Economics/Business Studies: Data analysis, market predictions. |
|  |  |  | VI (STATISTICS  & PROBABILITY | | CHAPTER 14  PROBABILITY | | TO WRITE THE SAMPLE SPACE, WHEN A DIE IS ROLLED ONCE, TWICE,….. | | ASSIGNMENT FROM OTHER BOOKS. | Computer Science: Probabilistic models, AI algorithms. |
| JAN | REVISION & PRE-ANNUAL EXAM | | | | | | | | | |
| FEB | ANNUAL EXAM | | | | | | | | | |

**ABBREVIATION: MON=MONTH, WD=WORKING DAYS, TP=TEACHING PERIODS, CHP=CHAPTER, ASSIGN=ASSIGNMENT, WS- WORKSHEET**

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| **EXAM DATES** | **EXAMS** | **CHAPTERS** |
| MAY  JULY | UNIT TEST –I  UNIT TEST-I | 1. SETS 2. RELATION &FUNCTION |
| SEPTEMBER | HALF-YEARLY EXAMS | 1. SETS  2. RELATION &FUNCTION  3. TRIGONOMETRY  4. COMPLEX NUMBERS  5. LINEAR INEQUALITES  6. PERMUTATION & COMBINATION  7 BINOMIAL THEOREM  11 INTODUCTION TO 3D |
| NOVEMBER | UNIT TEST - II | 6. PERMUTATION & COMBINATION  7. BINOMIAL THEOREM |
| JAN. | UNIT TEST - II | 12. LIMITS & DERIVATIVES |
| MARCH | FINAL EXAMS | **FULL SYLLABUS** |