**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 1SETSCHAPTER-2 RELATIONS AND FUNCTIONS | TO REPRESENT SET THEORETIC OPERATIONS USING VENN-DIAGRAMSTO 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 11INTRODUCTION TO THREE DIMENSIONAL GEOMETRY | TO INTERPRET GEOMETRICALLY THE MEANING OF $i=\sqrt{-1}$ AND ITS POWERS.TO PREPARE A MODEL ON REPRESENTATION OF THREE DIMENSIONALGEOMETERY | EXTRA QUESTIONS FROM OTHER BOOKS.ASSIGNMENT FROM OTHER BOOKS | Physics: Quadratic equations in kinematics.Computer Graphics |
| JUNE | **SUMMER VACATIONS** |  |
| JULY | 24 |  | ALGEBRA | CHAPTER 3TRIGONOMETRIC FUNCTIONS | GRAPHICAL REPRESENTATION OF TRIGONOMETRIC FUNCTIONS | ASSIGNMENT FROM OTHER BOOKS +NCERT Questions & Worksheet |  |
|  |  |  | ALGEBRA | CHAPTER 5LINEAR INEQUALITIES |  | WORKSHEET NO.11 | Economics |
| AUG. | 22 |  |  | CHAPTER 6PERMUTATIONS AND COMBINATIONS |  | QUESTIONS FROM OTHER BOOKS. | Computer Science: Permutations/combinations in algorithms. |
|  |  |  | II(ALGEBRA) | CHAPTER 7BINOMIAL THEOREMREVISION 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-8SEQUENCE 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 10CONIC 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 $\lim\_{x\to c}f\left(x\right)=\frac{x^{2}-c^{2}}{x -c}$ | QUESTIONS FROM OTHER BOOKS. | Physics: Concepts of instantaneous rate of change, velocity. |
| DEC | 24 |  | VI(STATISTICS &PROBABILITY | CHAPTER 13STATISTICS |  | QUESTIONS FROM OTHER BOOKS. | Economics/Business Studies: Data analysis, market predictions. |
|  |  |  | VI(STATISTICS &PROBABILITY | CHAPTER 14PROBABILITY | 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** |
| MAYJULY | UNIT TEST –IUNIT TEST-I | 1. SETS
2. RELATION &FUNCTION

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| SEPTEMBER | HALF-YEARLY EXAMS | 1. SETS2. RELATION &FUNCTION3. TRIGONOMETRY4. COMPLEX NUMBERS 5. LINEAR INEQUALITES6. PERMUTATION & COMBINATION7 BINOMIAL THEOREM11 INTODUCTION TO 3D |
| NOVEMBER | UNIT TEST - II | 6. PERMUTATION & COMBINATION7. BINOMIAL THEOREM |
| JAN. | UNIT TEST - II | 12. LIMITS & DERIVATIVES |
| MARCH | FINAL EXAMS | **FULL SYLLABUS** |