**DAV Police Public School, Hisar**

**Subject:-MATHEMATICS**

**Class- XII (2025-26)**

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| **Month** | **Wd** | **Tp** | **Units** | **Chp./ topic** | | **Activity** | **Assignments** | Related to other subjects | |
| APRIL | 22 |  | I(RELATIONS AND FUNCTIONS)  II  (ALGEBRA | CHAPTER 1  RELATIONS AND FUNCTIONS  CHAPTER 3  MATRICES  CHAPTER -4  DETERMINANTS | | TO VERIFY THAT THE RELATION IN THE SET L OF ALL LINES IN A PLANE, DEFINED BY R = {(l,m): l is parallel to m} IS AN EQUIVALENCE RELATION.  TO DEMOSTRATE A FUNCTION WHICH IS NOT ONE -ONE BUT IS ONTO. | **MCQ**  VALUE BASED QUESTIONS  VALUE BASED QUESTIONS  VALUE BASED QUESTIONS | Computer Science: Functions, relations.  Computer Science: Matrices in data storage, graphics, and AI.  Physics: Solving systems of equations in mechanics and circuits. | |
| MAY | 24 |  |  | CHAPTER 2  INVERSE TRIGONOMETRIC FUNCTIONS    CHAPTER 5  CONTINUITY AND DIFFRENTIABILITY | | TO DRAW THE GRAPH OF , USING THE GRAPH OF SINX AND DEMONSTRATE THE CONCEPT OF MIRROR REFLECTION.  TO FIND ANALYTICALLY |  | Physics: Trigonometric applications in waves.  Physics : Motion, electric circuits. | |
| JUNE | **SUMMER VACATIONS** | | | | | |  |  | |
| JULY | 24 |  | III  (CAL CULUS) | | CHAPTER 6  APPLICATIONS OF DERIVATIVES | TO CONSTRUCT AN OPEN BOX OF MAXIMUM VOLUME FORM A GIVEN RECTANGULAR SHEET BY CUTTING EQUAL SQUARES FROM EACH CORNER. |  | Physics : Motion, electric circuits, growth/decay problems. | |
| AUG. | 22 |  | V  (LINEAR PROGRAM-MING)  III  (CALCULUS) | | CHAPTER 12  LINEAR PROGRAMMING  CHAPTER 7  INTEGRATION  **REVISION OF HALF YEARLY EXAM** | TO EVALUATE THE DEFINITE INTEGRAL AS THE LIMIT OF A SUM AND VERIFY IT BY ACTUAL INTEGRATION. | TO MAKE DIFFERENT L.P.P.S ON DAILY LIFE SITUATIONS | Economics: Resource optimization.  Business Studies: Production planning. |
| SEP | 23 |  | **Term I** | |  |  |  |  |
| OCT. | 19 |  | III  (CALCULUS)  IV  (VECTORS | | CHAPTER 8  APPLICATION OF INTEGRALS  CHAPTER 9  DIFFRENTIAL EQUATIONS  CHAPTER 10  VECTORS | TO VERIFY THE ANGLE IN A SEMI CIRCLE IS A RIGHT ANGLE, USING VECTOR METHOD. | VIDEOS | Economics: Marginal cost, revenue, consumer/producer surplus.  Physics : Motion in space, force and Momentum.  Computer |
| NOV. | 22 |  | IV  THREE  DIMENSIONAL  GEOMETRY  VI  (PROBABILITY) | | CHAPTER 11  THREE DIMENSIONAL  GEOMETRY  CHAPTER-13  (PROBABILITY) | TO MEASURE THE SHORTREST DISTANCE BETWEEN TWO SKEW LINES AND VERIFY IT ANALYTICALLY.  TO WRITE THE SAMPLE SPACE, WHEN A DIE IS ROLLED ONCE, TWICE,…..  TO EXPLAIN THE COMPUTATION OF CONDITIONAL PROBABILITY OF A GIVEN EVENT A,WHEN EVENT B HAS ALREADY OCCURRED, THROUGH AN EXAMPLE OF THROWING A PAIR OF DICE. |  | Graphics : 3 D modelling, Transfomations.  Economics: Risk analysis, decision making. |
| DEC  JAN |  | **PRE- BOARD EXAMS** | | | | | |  |
| FEB  MARCH |  | **BOARD EXAMS** | | | | | |  |

**Abbreviation: Mon=Month, WD=Working Days, TP=Teaching Periods, CHP=Chapter, TPR- Teaching Period Required, ASSIGN=Assignment, Ws- Worksheet**

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| EXAM DATES | EXAMS | SYLLABUS |
| MAY | U T 1 | 3. MATRICES  4. DETERMINANT |
| JULY | U.T. II | 1. RELATION & FUNCTION |
| SEPTEMBER  DECEMBER | HALF YEARLY EXAM  PRE- BOARD EXAMS | 1. RELATION & FUNCTION  2.INVERSE TRIGNOMETRIC FUNCTIONS  3. MATRICES  4.DETERMINANTS  5.CONTINUITY AND DIFFRENTIABILITY  6. APPLICATIONS OF DERIVATIVES  12. LINEAR PROGRAMMING  **FULL SYLLABUS** |
| FEB-MARCH | FINAL EXAMS | FULL SYLLABUS |