**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 1RELATIONS AND FUNCTIONSCHAPTER 3MATRICESCHAPTER -4DETERMINANTS | 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 QUESTIONSVALUE BASED QUESTIONSVALUE 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 5CONTINUITY 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 6APPLICATIONS 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 12LINEAR PROGRAMMINGCHAPTER 7INTEGRATION**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 8APPLICATION OF INTEGRALSCHAPTER 9 DIFFRENTIAL EQUATIONSCHAPTER 10VECTORS | 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 |  | IVTHREEDIMENSIONALGEOMETRYVI(PROBABILITY) |  CHAPTER 11THREE DIMENSIONAL GEOMETRYCHAPTER-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. |
| DECJAN |  | **PRE- BOARD EXAMS** |  |
| FEBMARCH |  | **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 |
| SEPTEMBERDECEMBER | HALF YEARLY EXAMPRE- BOARD EXAMS | 1. RELATION & FUNCTION2.INVERSE TRIGNOMETRIC FUNCTIONS3. MATRICES4.DETERMINANTS5.CONTINUITY AND DIFFRENTIABILITY6. APPLICATIONS OF DERIVATIVES12. LINEAR PROGRAMMING**FULL SYLLABUS** |
| FEB-MARCH | FINAL EXAMS | FULL SYLLABUS |