CLASS – 12

MATHEMATICS SYLLABUS

2024-2025

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| MONTH | CHAPTER | PERIOD | ACTIVITY \ TOPIC | PT \M. T | INTERNAL ASSESSMENT | MARKS DISTRIBUTION | |
| SUBJECT ENRICHMENT  NOTE BOOK |
| TERM 1  80 | PRE BOARED  80 |
| APRIL | CH – 1  RELATION AND FUNCTION  CH -2  INVERSE TRIGNOMETRIC FUNCTION | 15  15 | INTRODUCTION , TYPE OF FUNCTION , TYPE OF RELATION , COMPOSION OF FUNCTION AND INVERTIBLE FUNCTION  DEFINATION , RANGE , DOMAIN , PRINCIPAL VALUE , GRAPHS , ELEMENTARY PROPERTIES |  | ACTIVITY :  NEAR AND CLEAN WORK REGULARITY  MAKE PROJECT ON TRIGNOMETRIC FORMULA  COPY CHECKING |  | 08 |
| MAY | CH – 3  MATRICES  CH – 4  DETERMINANTS | 25  25 | INTRODUC TION , MATRIC , TYPE OF MATRIC, OPERATION MON METRICES , SYMETRIC AND SKEW SYMMETRIC , INVERTIBLE MATRICES  INTRODUCTION , DETERMINANT , AREA OF TRIANGLE , MINORS , COFACTORS , ADJOINT AND INVERSE OF A MATRIX , APPLICATION OF DETERMINANTS AND METRICES | 13/05/24 | ACTIVITY :  MAKE PROJECT ON THIS CHAPTER  NEAT AND CLEAN WORK REGULARITY |  | 10 |
| JUNE | CH -5  CONTINUITY AND DIFFERENTIABILITY  CH – 6  APPLICATION OF DERIVATIVES | 20  10 | INTRODUCTIOM , CONTINUITY , DIFFERENTIABILITY , EXPONENTIAL AND LOGARITHMIC FUNCTION , DERIVATIVES OF FUNCTION IN PARAMETRIC FORM S , SECOUND ORDER DERIVATIVE  INTRODUCTION OF DERIVATIVE , RATE OF CHANGE OF QUANTITIES , INCREASING AND DECREASING FUNCTION , MAXIMA AND MINIMA . |  | DRAW GRAPH OF THE TFUNCTION AND PROJECT ON CONTINUITY  MAKE ASSIGNMENT ON THIS CHAPTER |  | 35 |
| JULY | CH – 7  INTEGRALS  CH – 8  APLLICATION O0F INTEGRALS  C H – 9  DIFFERENTIAL EQUATION | 20  15  15 | INTRODUCTION , INTRIGRATION AS ON INVERSE PROCESS OF DIFFERENTION , METHOD OF INTEGRATION , INTEGRALS OF SOME PARTICULAR FUNCTION , INTEGRACTION BY PARTIAL FRACTION , INTRIGRATION BY PARTS , DEFINITE INTEGTALS , FUNDAMENTAL THEOREM OF CALCULUS EVALUTION OF DEFINITE INTEGRALS BY SUBSTITUTION , SOME PROPERTIES OF DEFINITE INTEGRALS .  INTRODUCTION , AREA UNDER SIMPLE CURVERS , AREA SECTION TWO CURVES  INTRODUCTION, BASIC CONCEPTS , GENERAL AND PARTICULAR SOLUTIONS OF A DIFFERENTIAL EQUATION WHOSE GENERALS SOLUTION IN GIVEN , METHOD NOF SOLVING FIRST ORDER DEGREE DIFFERENTIAL EQUATIONS . |  | COLLECT ALL TRIGNOMETRIC FORMULA OF INTEGTALS AND WRITE ON CHART PAPER  NEAT AND CLEAN WORK REGULARITY  MAKE ASSIGNMENT ON DIFFRENTIAL EQUATION |  |  |
| AUGUST | CH - 10  VECTOR SPACE  CH – 11  THREE DIAMENTIONAL GEOMETRY | 15  15 | INTRODUCTION , SOME BASIC CONCEPT , TYPES OF VECTORS , ADDITION OF VECTORSS , MULTIPLICATION OF VECTORS BY SCALAR , PRODUCT OF TWO VECTORS  INTRODUCTION , DIRECTION COSINES AND DIRECTION RATIO OF A LINE , EQUATION OF A LINE IN SPACE , SHORTEST ,DISTANCE BETWEEN TWO LINES ,PLANE , COPLANARITY OF TWO LINES , ANGLE BETWEEN TWO PLANES , ANGLE BETWEEN TWO PLANES AND A PLANE . |  | MAKE MODEL ON THIS CHAPTER  NEAT AND CLEAN WORK  MAKE PROJECT ON THIS CHAPTER |  | 14 |
| September | TERM – 1 EXAM CHAPTER 1 TO 11  CH – 12  LINEAR PROGRAMMING | 20 | INTRODUCTION , LINEAR PROGRAMMING PROBLEM AND ITS MATHEMATICAL FORMULATION , DIFFERENT TYPE OF LINEAR PROBLEMS |  | MAKE ASSIGNMENT ON THIS CHAPTERS |  | 05 |
| October | CH – 13  PROBABILITY | 30 | INTRODUCTION , CONDITIONAL PROBABILITY , MULTIPLICATION THEOREM ON PROBABILITY , INDEPENDENT EVENTS , BAYES THOREM , RANDOM VARIABLES AND ITS PROBABILITY DISTRIBUTION , NBERNOULLI TRIALS AND BIONOMIAL DISTRIBUTION . |  | MAKE PROJECT ON THIS CHAPTER  NEAT AND CLEAN WORK |  | 08 |
| NOVMBER | REVISION FOR EXAM |  |  | 25/11/24 |  |  |  |
| December | FINAL TERM |  |  |  |  |  |  |
| FEBERARY AND MARCH | REVISION AND EXAMINATION |  |  |  |  |  |  |

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| UNIT TEST -1 | CH – 1 TO 3 |
| UNIT TEST -2 | CH – 4 TO 7 |
| UNIT TEST – 3 | CH – 8 TO 13 |

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| HALF YEARLY | CH – 1 TO 11 |
| YEARLY | CH 1 TO 13 |