

## Academic Planner ( Mathematics-XII, 2017-18)

Month(WD)	Content	Mode of Assesment	Homework & Assignment
<b>April (20)</b> <b>1-15 (8)</b>	<b>CH-3 MATRICES</b> Matrix, Types of Matrices, Operations on Matrices, Transpose of a Matrix, Symmetric and Skew Symmetric Matrices, Elementary operation of a Matrix, Invertible Matrices	Oral Test Class Test	NCERT Exercices of Chapter Miscellaneous Exercise
<b>16-30 (12)</b>	<b>CH-4 DETERMINANTS</b> Properties of Determinants, Area of a Triangle, Minors and Cofactors, Adjoint and Inverse of a Matrix, Applications of Determinants and Matrices System of linear equations in three variables	Oral Test Class Test	NCERT Exercices of Chapter Miscellaneous Exercise
<b>May (9)</b> <b>1-15 (9)</b>	<b>CH-12 LINEAR PROGRAMMING</b> Linear Programming Problem and its Mathematical Formulation, Different Types of Linear Programming Problems	Oral Test Class Test	NCERT Exercices of Chapter Miscellaneous Exercise
<b>July(25)</b> <b>1-15 (12)</b>	<b>CH-5 CONTINUITY AND DIFFERENTIABILTY</b> Continuity, Differentiability, Exponential and Logarithmic Functions, Logarithmic Differentiation, Derivative of Funtions in Parametric Forms, Second Order Derivative, Mean Value Theorem, Derivatives of logarithmic and exponential functions by First Principle	Oral Test Class Test  Oral Test  Class Test	NCERT Exercices of Chapter Miscellaneous Exercise  NCERT Exercices of Chapter Assignment Miscellaneous Exercise
	<b>CH-6 APPLICATION OF DERIVATIVES</b>		

	Rate of change of Quantities,Increasing and decreasing Functions, Tangents and Normals,Approximations,Maxima and Minima		
<b>August (24)</b> <b>1-15 (10)</b>	<b>CH:1 RELATIONS AND FUNCTIONS</b> Relations ; Binary Operations	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercices of Chapter</b> <b>Miscellaneous Exercise</b>
<b>16-31 (14)</b>	CH-2: Inverse Trigonometric Functions: Basic Concepts , Properties of inverse trigonometric functions <b>CH-13 PROBABILITY</b> Conditional Probabilty,Multiplication Theorem on Probability, Independent Events,Baye's Theorem,Random Variables and its Probability Distributions,Bernoulli's Trials and Binomial Distribution ( <b>REVISION</b> )	<b>Oral Test</b> <b>Class Test</b>	<b>Assignment</b> <b>NCERT Exercices of Chapter</b> <b>Miscellaneous Exercise</b>
<b>September(21)</b> <b>1-15 (11)</b>	<b>EXAMINATION (HY)</b>		
<b>16-31 (10)</b>	<b>CH-7 INTEGRALS</b> Integrals of some Particular Functions,Integration by Parts,Definite Integral		<b>NCERT Exercices of Chapter</b>
<b>October(20)</b> <b>1-15 (09)</b>	<b>CH-7 INTEGRALS</b> Fundamental Theorem ofCalculus,Evaluation of Substitution,Some Properties of Definite Integrals	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercices of Chapter</b> <b>Miscellaneous Exercise</b> <b>Assignment</b>
<b>16-31 (11)</b>	<b>CH-8 APPLICATION OF INTEGRALS</b> Area under Simple Curves, Area Between Two Curves	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercices of Chapter</b> <b>Miscellaneous Exercise</b>
<b>November(24)</b> <b>1-15(11)</b>	<b>CH-9 DIFFERENTIAL EQUATIONS</b> Basic Concepts,General and Particular Solutions of a Differential Equation, Formation of a Differential	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercices of Chapter</b> <b>Miscellaneous Exercise</b>

<b>16-30 (13)</b>	Equation whose General Solution is given, Methods of , First Degree Differential Equations <b>(REVISION)</b>		<b>Assignment</b>
	<b>CH-10 VECTOR ALGEBRA</b> Some Basic Concepts, Types of Vectors, Addition of Multiplication of a Vector by a Scalar, Product of Two Vectors <b>(REVISION)</b>	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercises of Miscellaneous Exercise Assignment</b>
	<b>CH-11 THREE DIMENSIONAL GEOMETRY</b> Direction Cosines and Direction Ratios of a Line, Equation of a Line in Space, Angle Between Two Lines, Shortest Distance Between two Lines, Plane, Coplanarity of Two Lines, Angle Between Two Planes, Distance of a Point From a Plane, Angle between a Line and a Plane, Coplanarity of Vector and Scalar Triple Product of Vectors	<b>Oral Test</b> <b>Class Test</b>	<b>NCERT Exercises of Chapter Miscellaneous Exercise Assignment</b>

<b>TERMWISE SYLLABUS</b>	
<b>U. T 1 (May)</b>	<b>Ch. 3 , 4</b>
<b>U. T 2 (July)</b>	<b>Ch. 12, 5</b>
<b>Half Yearly(Sep.)</b>	<b>Ch. 1(relations &amp; binary operations), 2, 3, 4, 5, 6, 7(Ex. 7.1 to 7.3), 12</b>
<b>Assessment Test(Dec.)</b>	<b>Ch. 1(Functions), 3, 4, 7, 8, 9, 10, 11, 12, 13</b>
<b>Pre-board (Jan.)</b>	<b>Complete Syllabus</b>