

**CLASS - XII****SEMESTER – III****SUBJECT: MATHEMATICS [ MATH ]****FULL MARKS: 40****CONTACT HOURS: 100 Hours****COURSE CODE : THEORY**

| UNIT No. | TOPICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CONTACT HOURS | MARKS |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|
| UNIT-I   | RELATIONS AND FUNCTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20            | 7     |
|          | 1. Relations and Functions<br>Types of relations: Reflexive, symmetric, transitive and equivalence relations. One-to-one and onto functions, composite functions, inverse of a function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10            | 4     |
|          | 2. Inverse Trigonometric Functions<br>Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10            | 3     |
| UNIT- II | ALGEBRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25            | 10    |
|          | 1. Matrices<br>Concept, notation, order, equality, types of matrices, zero matrix, identity matrix, transpose of a matrix, symmetric and skew-symmetric matrices. Addition, multiplication and scalar multiplication of matrices; properties of addition, multiplication and scalar multiplication. Simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices. Existence of non-zero matrices whose product is a zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse (if it exists). (Here all matrices will have real entries). | 15            | 6     |
|          | 2. Determinants<br>Determinant of a square matrix (upto $3 \times 3$ matrices), properties of determinants, minors, cofactors and application of determinants in finding the area of a triangle.<br><br>Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples. Solutions of system of linear equations in two or three variables (having unique solution) using inverse of a matrix.                                                                                                                                                                                          | 10            | 4     |

# Wbchse 12th Math Syllabus 2015

**Zhe Xu**



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