

W M O Arts & Science College, Muttil

Department of Mathematics

Syllabus of Bridge Course for Complementary Mathematics (2022-23)

Duration : 12 Hours

Tentative Period: September 2022

Topics

1. Basic Arithmetic - Addition of rational numbers, Multiplication of rational numbers & division of rational numbers
2. Functions - Definition and Basic properties
3. Trigonometric functions - Identities and properties
4. Quadratic equations and solutions
5. Polynomial functions
6. Limits and continuity of functions
7. Differentiation
8. Integration
9. Basic geometry - Slope of a line, area, volume and surface area of solids
10. Fundamentals of graph - Graphing in cartesian coordinates
11. Linear inequalities
12. Matrices - Basic properties

Note : In addition to the sessions on the above topics, two entry level tests will be conducted to assess the level of students and necessary measures will be taken.

