



WMO ARTS AND SCIENCE COLLEGE

MUTTIL, WAYANAD, KERALA-673122

DEPARTMENT OF ECONOMICS

BRIDGE COURSE FOR UG (2022-2023)

(BASIC MATHEMATICS AND STATISTICS FOR ECONOMICS)

Module I : Mathematics

Number system- Integers,real,rationals,irrationals
Basic operations-addition,subtraction,multiplication,division
Equations - simple,quadratic,simultaneous
Exponents - multiplication,division and power rules
Set theory - definition,types,operations
Matrices - definition,types,equality,addition,subtraction
Graphs - lines,curves
Differentiation - standard results,problems with simple functions

Module II :Statistics

Definition,collection,classification,tabulation.
Presentation -graphs and diagrams.
Analysis - methods,measures and tools
Measures -central tendency,dispersion,skewness,kurtosis.
Introduction -Correlation and regression,index numbers,time series.
Population,sample,Census,sampling and its methods.

Module III :Introduction of Softwares used for statistical data processing.

MS Office spreadsheet/Open office calc,R,SPSS,Python,Latek