SYLLABUS :-

Course Contents

Introduction; Theory of Sampling; Analysis of Variance – Definition and Sources of Variation, Techniques in One-way and Two-way Classifications of Data, Non-parametric Tests in ANOVA; Statistical Quality Control - Types of Quality Measures, Control Charts, Tolerance Limits, Sampling Inspection, Elements of Reliability, Total Quality Management; Index Number - Meaning and Types, Methods of Construction and Problems, Tests of Index Number, Chain Base Methods, Cost of Living Index, Base Shifting, Splicing and Deflation; Time-Series Analysis - Components of a Time-Series, Measurement of Secular Trend and Seasonal Fluctuations, Changing Seasonal Patterns, Measurement of Cyclical Fluctuations, Harmonic Analysis, Moving Average and Cyclical Fluctuations, Randomness, Serial Correlation and Correlogram; Vital Statistics – Introduction, Rates of Vital Events, Measurement of Mortality, Life Table, Fertility, Population Growth and Morbidity.