

# Syllabus

## Panjab University, Chandigarh

### SOC O 532 : Basic Methods in Population Studies

#### Unit-I

Sources of Demographic Data: Census, Civil Registration, Population Surveys, and UN Sources of Demographic Data. Nature and Quality of these Data Sources. Changes in Population Size: Intercensal Change, Average Annual Growth Rate, Linear Growth Rate, Geometric Growth Rate, Exponential Growth Rate; Interpolation and Extrapolation.

#### Unit-II

Population Composition and Distribution: Literacy Rate, Rural-Urban, Labour Force Participation Rate. Age and Sex Composition: Problems related to Age Data, Age Distribution, Age Heaping Effects, and Adjustment of Age Data. Dependency Ratios. Construction of Age-sex pyramids, Sex Ratio.

#### Unit-III

Measures of Mortality: Computation of Crude Death Rate, Age-Specific Death Rates; Infant Mortality Rate, Perinatal, Neonatal, Post-Neonatal Mortality Rate. Direct and Indirect Standardized Death Rate.

Life-Table Method: Types of Life Tables, Basic Columns of Life Tables and their computation. Relationship between various life-table columns, Life Table Stationary Population. Application of Life Table approach.

#### Unit-IV

Measures of Fertility: Computation of Crude Birth Rate and its uses, General Fertility Rate, Age-specific Fertility Rate, Total Fertility Rate; Gross Reproduction Rate, Net Reproduction Rate, Child Woman Ratio.

Contraceptive Prevalence Rate, Abortion Rate & Foetal Wastage Measure of Marriage & Divorce: Crude Marriage Rate, Divorce Rate. Mean and Median Age at Marriage from Census and Survey Data.