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## **MPS COURSE UNIT STRUCTURE (Syllabus)**

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### **MPS – 01: STATISTICAL METHODS FOR POPULATION STUDIES**

#### **Block 1: Some Basic Mathematical Tools**

Unit 1: Elementary Mathematical Tools in the Field of Population

Unit 2: Interpolation and Graduation

Unit 3: Elementary Matrix Algebra

Unit 4: Concepts of Differentiation and Integration

#### **Block 2: Basic Measures of Statistics, Elements of Probability Theory & Probability Distributions**

Unit 5: Basic Measures of Statistics

Unit 6: Elements of Probability Theory

Unit 7: Probability Distributions

#### **Block 3: Statistical Methods Used in Population Data Analysis**

Unit 8: Correlation and Regression

Unit 9: Multivariate Techniques-I

Unit 10: Multivariate Techniques-II

#### **Block- 4: Sampling Design and Statistical Inference**

Unit 11: Sampling Designs

Unit 12: Statistical Inference

Unit 13: Tests of Significance

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### **MPS-02: CONCEPTS IN SOCIAL SCIENCES AND SOME IMPORTANT ISSUES IN INDIAN SOCIETY, CULTURE AND ECONOMY**

#### **Block1: Anthropology, Sociology, Psychology and Some Issues in Indian Society and Culture**

Unit 1: Basic Concepts and Forces of Social Change and Caste System in India

Unit 2: Marriage and Family in India

Unit 3: Scheduled Tribes in India: Situation, Problems and Policies

Unit 4 Social Psychological Concepts and Issues in Population Sciences

#### **Block 2: Economics and Some Issues in Indian economy**

Unit 5: Basic Concepts in Economics

Unit 6: Economic Development Strategies through Five Year Plans

Unit 7: Indian Economy: Issues and Policies

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### **MPS-03: INTRODUCTION TO POPULATION STUDIES**

#### **Block 01: Introduction to Population Studies and Sources of Population Data.**

Unit 1: Introduction to Population Studies

Unit 2: Sources of Population Data

#### **Block 02: Age-Sex Structure and Evaluation and Adjustment**

Unit 3: Age-Sex Structure and Population Composition

Unit 4: Appraisal of the Quality of Age Sex-Data

Unit 5: Evaluation and Adjustment of Errors in Age-Sex Data

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## **MPS-04: NUPTIALITY AND FERTILITY**

### **Block 01: Nuptiality: Concepts & Measures**

Unit 1: Concepts and Basic Measures of Nuptiality  
Unit 2: Estimation of Age at Marriage  
Unit 3: Age at Marriage in India

### **Block 02: Basic Concepts and Measures of Fertility and Reproduction**

Unit 4: Fertility Studies: Concepts and Sources of Data  
Unit 5: Measures of Fertility and Reproduction  
Unit 6: Indirect Methods of Estimation of Fertility

### **Block- 03: Framework for and Synthesis of Fertility Analysis**

Unit 7: Age Pattern of Fertility: Empirical Pattern and Mathematical Modelling  
Unit 8: Framework for and Synthesis of Fertility Analysis  
Unit 9: Reproductive Motivations

### **Block- 04: Fertility Transition in Some Developed and Developing Countries**

Unit 10: Fertility Transition  
Unit 11: Large Scale Surveys: Substantive Findings

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## **MPS-05: MORBIDITY, MORTALITY AND PUBLIC HEALTH**

### **Block-01: Basic Concepts and Measures of Morbidity**

Unit 1: Basic Concepts and Analysis of Health and Morbidity Statistics  
Unit 2: International Classification of Diseases and Causes of Death  
Unit 3: Epidemiology and Public Health, Burden of Disease

### **Block-02: Basic Concepts and Measures of Mortality**

Unit 4: Importance of Mortality Studies: Concepts, Definitions and Differentials  
Unit 5: Health Transition, Mortality Concepts and Patterns  
Unit 6: Measures of Mortality

### **Block-03: Life Table and Indirect Methods of Mortality Estimation**

Unit 7: Life Table Techniques  
Unit 8: Model Life Table Systems, Multiple Decrement Life Tables  
Unit 9: Indirect Methods of Mortality Estimation

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## **MPS-06: SPATIAL DISTRIBUTION, MIGRATION AND URBANIZATION**

### **Block-01: Spatial Distribution: Measures and Patterns**

Unit 1: Spatial Distribution of Population

Unit 2: Population Redistribution

### **Block-02: Migration: Concepts, Measures, Determinants and Consequences**

Unit 3: Internal Migration: Concepts, Determinants and Consequences

Unit 4: Direct Methods of Estimating Migration

Unit 5: Indirect Measures of Net Internal Migration

Unit 6: Migration Models

Unit 7: International Migration: Trends, Types, Determinants and Consequence

### **Block-03: Urbanization: Concepts, Measures, Patterns and Consequences**

Unit 8: Urbanization: Concepts and Definitions

Unit 9: Measurements of Urbanization and Urban Structure

Unit 10: Urbanization process in Developed and Developing Countries

Unit 11: Recent Trends and Prospects of the Process of Urbanization

Unit 12: Urban Problems and Planning

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## **MPS-07: DYNAMICS OF AGE-SEX STRUCTURE AND POPULATION PROJECTIONS**

### **Block-01: Dynamics of Age-Sex Structure**

Unit 1: Dynamics of Age Structure

Unit 2: Dynamics of Sex Structure

### **Block 2 : Population Estimates and Projections**

Unit 3: Population Estimates and Projections

Unit 4: Sub-National Population Projections

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## **MPS-08 : POPULATION AND DEVELOPMENT**

### **Block-01: Population and Development: Linkages and Theories**

Unit 1 (a): Concepts and Indicators of Development  
Unit 1 (b): Population Growth and Development: Interrelationship  
Unit 2: Population Theories  
Unit 3: Theories of Population and Development

### **Block – 02: Population and Development: Resources and Planning Perspectives**

Unit 4: Natural and Capital Resources  
Unit 5: Human Resources: Qualitative Aspects  
Unit 6: Human Resources: Quantitative Aspects

### **Block – 03: Social Development and Environment: Concepts & Implications**

Unit 7: Concepts of Social Change and Development  
Unit 8: Link Between Population Growth, Environment and Social Imbalances  
Unit 9: Environmental Degradation: Policy and Programme for Better Environment  
Unit 10: Sustainable Development and Resources, Effect of Population Growth and Industrialization

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## **MPS-09: POPULATION POLICY, PROGRAMME MANAGEMENT AND EVALUATION**

### **Block-1: Population Policies & Programmes**

Unit 1: Population Policy : Concepts and Issues  
Unit 2: Fertility Influencing Policies  
Unit 3: Mortality Influencing Policies  
Unit 4: Migration Influencing Policies  
Unit 5: Population Policies and Programmes in Some Selected Countries

### **Block-2: Population Programme Management**

Unit 6: Management: A Brief Introduction  
Unit 7: Features of Population Programme Management  
Unit 8: Quality of Care in Family Planning Programme

### **Block-3: Evaluation of Family Planning Programme**

Unit 9: Evaluation of Family Planning Programme: Concept, Definitions and Data Requirements  
Unit 10: Evaluation of Family Planning Programme Execution  
Unit 11: Economic Evaluation of Family Planning Programmes  
Unit 12: Evaluation of Intermediate Impact Objective  
Unit 13: Evaluation of Fertility Impact of Family Planning Programmes

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## **MPS-10: RESEARCH METHODOLOGY**

### **Block – 01: Basic Concepts and Sampling Techniques**

Unit 1: Introduction to Research Methodology  
Unit 2: Measurement  
Unit 3: Some Elementary Ideas about Sampling Techniques and their Applications  
Unit 4: Qualitative Research Methods

### **Block – 02: Research Methods**

Unit 5: Research Design  
Unit 6: Methods of Data Collection  
Unit 7: Data Processing, Analysis and Report Writing

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## **MPS-11: COMPUTER APPLICATIONS TO POPULATION DATA**

### **Block-01: Computer Applications: Concepts and Demographic Packages**

Unit 1: Introduction to Computer  
Unit 2: Introduction to Micro-Soft Office (MS-Office)  
Unit 3: Demographic Software Packages  
Unit 4: Introduction to Internet and Info-POPLINE

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## **MPS-12: GENDER ISSUES IN POPULATION STUDIES**

### **Block-01: Gender Issues in Population Studies**

Unit 1: Gender Issues in Population Studies  
Unit 2: Autonomy, Empowerment and Status of Women  
Unit 3: Gender Issues in Population: Evidence from India

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## **MPS-13: REPRODUCTIVE HEALTH**

### **Block-01: Reproductive Health: Concepts, Theories and Issues**

Unit 1: Introduction to Reproductive Health and Physiology of Human Reproduction  
Unit 2: Maternal Mortality, Morbidity and Menopause  
Unit 3: Infertility: Causes, Consequences and Measurements  
Unit 4: Reproductive Health Issues and Sexually Transmitted Infections  
Unit 5: Theories on Reproductive Health Behaviour and Reproductive Rights

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## **MPS-14: BIO-STATISTICS (Optional)**

### **Block-01: Bio-statistical Concepts and Methods**

Unit 1: Introduction to Biostatistics  
Unit 2: Study Designs used in Medical Statistics  
Unit 3: Survival Analysis

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## **MPS-14: URBAN AND REGIONAL PLANNING (Optional)**

### **Block-01: Concepts, Theories & Issues**

Unit 1: Human Settlements

Unit 2: Concepts and Theories of Urban Development

Unit 3: Urban Planning: Concepts and Elements

Unit 4: Regional Planning: Theories

Unit 5: Regional Development: Concepts and Needs

Unit 6: Planning for Metropolitan City and Region: A Case of Mumbai

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## **MPS-15: HISTORICAL DEMOGRAPHY**

### **Block-01: Historical Demography**

Unit 1: Introduction to Historical Demography

Unit 2: Sources of Historical Data

Unit 3: Methods of Historical Demographic Research

Unit 4: Biological and Historical Migration

Unit 5: Census Administration in British India

Unit 6: History of Indian Population

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