

1. PG Diploma in Bio-Statistics and Population Studies (PGDBSPS)

Course Structure:

Paper No.	Course Code	Title of the Course	Terminal Examination	Assignment/Internal	Total	Credits
	PGDBSPS-01	Population Studies: Concepts, Issues and Developments	70	30	100	8
	PGDBSPS-02	Concepts of Demography	70	30	100	8
	PGDBSPS-03	Research Methodology	70	30	100	8
	PGDBSPS-04	Bio-Statistics	70	30	100	8
	PGDBSPS-05	Practical and Viva voice	70	30	100	8
	Total		350	150	500	40

PGDBSPS-01 Population Studies: Concepts, Issues and Developments

Block- 1: Population, Resources and Development

Unit-1: Need to Study the Population, Classification of Natural Resources, Capital Resources, Human Resources, Role of UN and Other International Agencies, etc.

Unit-2: Definition and Scope of Development, Indicators of Developments, Concept of Sustainable Development, Theories of Development.

Block- 2: Population Projection and Policies

Unit-1: Concepts of Population Projection, its uses, Different Methods of Population Projection, Gompertz curve and Growth Rate Models.

Unit-2: Principle Features of Policies, Policy, Formulation, Policy Indicators, National Population Policies, National Health Policy, National Rural Health Mission, National Health and Family Planning Programmes, etc.

PGDBSD-02 Concepts of Demography

Block- 1: Introduction to Demography

Unit-1: Definition and Scope of Demography, Sources of Demographic Data: Censuses, National Sample Survey, Simple Registration System, Demographic Health Surveys, Others, Basic Demographic Concepts,

Unit-2: Dynamics of Age Sex Structure, Factors Affecting the Structure, Aging of Population, Factors Affected Age Structure

Unit-3: Errors in Census and Vital Statistics and their Adjustment, Whipples and Myer's Indices, Chandrasekharan Deming Formulae to Check of Registration Data.

Block- 2: Demographic Parameters

Unit-1: About Fertility, Different Measurements of Fertility, Basic Fertility Measures, Cole Fertility Indices, Reproduction Measures, Bongarts Proximate Determination, Birth Interval Analysis

Unit-2: About Mortality, Different Measurements of Mortality, Basic Measures, Infant Mortality Rate, Maternal Mortality Rate, Basic Concepts of Life Table its types and forms, Model Life Table

Unit-3: Concept of Mobility and Migration, Types of Migration, Different Measurements of Migration, Basic Measures, Causes and Consequences of International Migration.

PGDBSPS-03

Research Methodology

Block- 1: Introduction to Research Methodology

Unit-1: Meaning and Types of Research, Significance of Research, About Research Problem and its Selection.

Unit-2: Dynamics of Age Sex Structure, Factors Affecting the Structure, Aging of Population, Factors Affected Age Structure, Meaning and Need for Research Design.

Block- 2: Sampling Design

Unit-1: About Sampling, Different Types of Sampling Designs.

Unit-2: Methods of Data Collection, Meaning and Techniques of Interpretation.

Unit-3: Meaning and Measurement of Scaling. Scale Construction Techniques.

PGDBSPS-04

Bio-Statistics

Block- 1: Descriptive Statistics

Unit-1: About Statistics, Measures of Central Tendency, Measures of Dispersion, Measures of Asymmetry.

Unit-2: Measures of Relationship, Regression Analysis Association of Attributes.

Block- 2: Testing of Hypothesis

Unit-1: About Hypothesis and its Types, Level of Significance, Chi-Square Tests, t-tests, z-tests.

Unit-2: Analysis of Variance and Co-Variance, Basic Principles of ANOVA and ANCOVA. (One Way, Two Way and Three Way Analysis)

Unit-3: Non Parametric Tests, Sign Tests, Run Tests, Wilcoxon Tests, Kendall Tests. Etc.

PGDBSPS-05

Practical and Viva voice

Based on PGDBSPS- 01, 02, 03 and 04

