## Programme Structure

**M.A. Population and Development (Five Year Integrated) Programme**

**Programme Code: APOP51**

*(For students admitted from the academic year 2019-2020)*

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**Note:**
1. Students shall take both Department Electives (DEs) and Interdepartmental Electives (IDEs) from a range of choices available.
2. Students may opt for any Value-added Course listed in the University website.

### Elective Courses

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L- Lectures; P- Practical; C- Credits; CIA- Continuous Internal Assessment; ESE- End-Semester Examination
### Department Electives (DE)

### Interdepartmental Electives (IDE)

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Value Added Course

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Programme Outcomes

PO1: Critical thinking
PO2: cultivating cognitive skills required in the job market
PO3: Effective communication
PO4: Familiarity with ICT to thrive in the information age
PO5: Cultivating aptitude for research
PO6: Respect for alternate viewpoints including those conflicting with ones’ perspectives
PO7: Ability to work individually and as members in a team
PO8: Upholding ethical standards
PO9: Acting local while thing global
PO10: Commitment to gender equality
PO11: Commitment to sustainable development
PO12. Lifelong learning

Programme Specific Outcomes

At the end of the programme, the student will be able to

PSO1: Acquire the knowledge on the study areas of Population dynamics, Health education and Nutrition, Data management, Theories, Policies and Programmes.
PSO2: Demonstrate an understanding of the basic courses in Sociology, Psychology, Economics, Statistics, Public Health and Nursing
PSO3: Develop technical skill to collect, compile and analyse the Population Data.
PSO4: Exhibit the knowledge through survey research.
PSO5: Recognize to develop an aptitude for research.

ITAC 11 Part - I: Language Tamil/Hindi / French

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3> 6> 16> 18> 24> 28> 32> 37> 40> 54> 57> 60> 69> 74> 77> 83> 85> 93> 97> 99
(, UgJ ghly; fs; kl; Lk;)

myF:-2 - GwehD} W
ghly; vz; fs;-
9> 19> 27> 34> 38> 45> 51> 55> 66> 71> 76> 82> 86> 92> 96
(gjpide; J ghly; fs; kl; Lk;)

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md; Gelik; nra; ed; wp mpjy;> mlf; fKilik; Gwq; $whik; <i f>
mUSilik (MW mjphtqj; fs; kl; Lk;)
ehybahu; fy; tp; fy; yhik (20 ghly; fs;)

myF:-4 - fk; guhkhazk;
Ffg; glyk; (m Nahj; jpa; fhz; lk;)

myF:-5 – ciueil
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fhg; gpaj; jpwd; - Nrhk. , stuR

ghu; it E} y; fs;:
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2. GwehD} W - c. Nt. rh. gjpg; G
3. jpUf; Fws; - gupNkoyo; ciu
4. fk; guhkhazk; - mz; zhkiyg; gy; fiyf; fofg;
gjpg; G
PART – II: ENGLISH
IASL – 12: English Through Literature I: Prose

Objective:

To develop the communicative competence of learners in the English Language through training them in the skills of listening, speaking, reading and writing.

UNIT - 1

Bonnie Chamberlain “The Face of Judas Iscariot”
Swami Vivekananda “Speech at World Parliament of Religion”

UNIT - 2

Stephen Leacock “My Financial Career”
Bhimrao Ambedkar “Speech on 4th November 1948 in the Constituent Assembly”

UNIT - 3

Robert Lynd “On Forgetting”
Nirad C. Chaudhuri “Indian Crowds”

UNIT - 4

A. G. Gardiner “All about a Dog”
Ruskin Bond “My Eccentric Guests”

UNIT - 5

Martin Luther King (Jr.) “I Have a Dream”
Khushwant Singh “The Portrait of a Lady”

TEXT BOOK:

The students will be enable to

**LO1**: Describe about basic components of population change.

**LO2**: Explain the growth of population of the globe.

**LO3**: compare the distribution of population in various regions of the world.

**UNIT–1**
Introduction

**UNIT–2**
Population Growth
Population growth in the world, developed and developing countries; India's population growth; trends & differentials in States and Union territories; Factors responsible for decline of population growth in the developed nations and relatively high growth in India; Population prospects in the world and in India:

**UNIT–3**
Population Distribution
Basic measures of distribution; Population Distribution among the developing and developed regions of the world; Factors affecting population distribution in India.

**UNIT–4**
Population Characteristics
Religion, Casts, Language, literacy and educational attainment, occupational status and marital status. Differentials of these characteristics among the states in India.

**UNIT–5**
Population Structure (Age & Sex)
Age structure: Concepts, Uses, Measures; factors affecting age structure. Trends in age structure in India; aging and younging of population. Sex structure: concepts, uses and sources; measures; trends in sex ratio in developed and developing regions and in India; Determinants of sex ratio.

**TEXT BOOKS:**
SUPPLEMENTARY READINGS:


After completion of the course students will be able to:

CO1: Acquire the knowledge about basic components of population change.
CO2: Understand the growth of population of the globe.
CO3: Identify the distribution of population in various regions.
CO4: Demonstrate the population characteristics
CO5: Comprehend the linkages of age and sex structure

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Semester-I 19IPOSC14 SOURCES OF POPULATION DATA Credits: 5 Hours:5

LO1: Identify the sources of population data.
LO2: know the evolution of Census
LO3: Analyse the demographic and health surveys

UNIT–1
Introduction

Sources: Primary and Secondary sources, Uses and Limitations; Primary and Secondary data; Internet as a source of population information.

UNIT–2
Population Census

Census – Definitions, Scope and Features of Census; Evolution of Indian Censuses: Indian census: Census questionnaires, changes in individual slip over time; method of data
collection; Content of latest census; post–enumeration check and census tabulation; census publications, utility and limitations of census data.

UNIT–3
Registration Systems

Registration system: Vital statistics – Objectives; History of Civil Registration System – World and India; Organization, uses and Limitations; Sample Registration Scheme (SRS) in India: Objectives, uses and Limitations: Model Registration Scheme in India: Objectives, Coverage, uses and Limitations; Population Registers.

UNIT–4
Secondary Sources

Secondary sources: Demographic surveys, Statistical Year Book, Demographic year Book; National Sample Surveys (NSS) and other Sample Surveys, both National and International _ Advantages and Limitations.

UNIT–5
Selected Demographic and Health Surveys

World Fertility Surveys; Demographic Health Survey(DHS) National Family Health Survey, (NFHS – I & II) Reproductive Child Health Survey (RCHS).

TEXT BOOKS:


SUPPLEMENTARY READINGS


After completion of the course students will be able to:

CO1: Acquire the knowledge of sources of population data.
CO2: Impart knowledge on Census
CO3: Discuss the development of Vital Registration System
CO4: Gain knowledge on Secondary sources
CO5: Describe the different Demographic surveys

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The students will be enable to
LO1: Define the environment system
LO2: Classify the issues of environmental damage
LO3: Assess the resource depletion

UNIT: 1
The Environmental System
(1.1) The Services Provided by the Environmental System
(1.2) Ecosystems: Food Chains, Food Webs, Ecological Pyramids
(1.3) Biochemical Cycles: Hydrological Cycle, Carbon Cycle.

UNIT: 2
Environmental Damage- Pollution
Sources and impact of
(2.1) Air Pollution
(2.2) Water Pollution
(2.3) Land Pollution
(2.4) Municipal Solid Waste
(2.5) Noise Pollution

UNIT: 3
Resource Depletion
(3.1) Importance of Forests: Causes and Consequences of Deforestation.
(3.2) Bio Diversity: Meaning and Importance-Reasons and Consequences of Biodiversity Decline
(3.3) Consequences of Overdrawing Water Resources.

UNIT: 4
Global Climate Change
(4.1) The Science of Climate Change-The Green House Effect
(4.2) Sources and Impact of Climate Change
(4.3) Coping with Climate Change

UNIT: 5
Sustainable Development
(5.1) Concepts and Definition of Sustainable Development (Brundtland Commission Definition)
(5.2) Poverty, Population Growth and Environmental Damage
(5.3) Policies for Sustainable Development

TEXT BOOK:

SUPPLEMENTARY REDINGS:
After completion of the course students will be able to:
CO1: Impart an understanding the environmental system
CO2: Understand important issues of environmental damage
CO3: Understand the process of resource depletion
CO4: Describe the global climate change.
CO5: Become aware of sustainable development.

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Semester-I 19IPOSC16 PRINCIPLES OF SOCIOLOGY Credits: 3 Hours:3

The students will be enable to

LO1: Identify the basic knowledge of Social institution
LO2: Outline the issues of status of women
LO3: interpret the sociological theories of fertility

UNIT-1

UNIT - 2
Institutions

Social Institutions: Family, Marriage, Religion and their influence on population change. Impact of social mobility; primary and secondary groups; morns and values on population change.

UNIT – 3
Culture

Culture and Society: cultural patterns, functions and their influence on components of population change; Modernisation and its influence on contraception and fertility.

UNIT – 4
Status of Women

Dimensions of Status of Women: Concepts, Status affecting variables (SAVs) of Mahadevan. Its impact on Fertility.

UNIT – 5
Theories

Sociological Theories of Fertility: Social capillarity theory, theory of diffusion or cultural lag, theory of change and response; Social change: Factors of social change, Social change and Technology.

TEXT BOOKS:

SUPPLEMENTARY READINGS:

After completion of the course students will be able to :

CO1: Acquire the basic knowledge of Sociology
CO2: Describe the Social Institutions
CO3: Recognize society and its culture
CO4: Discuss the issues of status of women
CO5: Analyse the Sociological theories of fertility

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myF-4
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7. சாலிவீ சேலி கிளைமனி , துரி பெரிய பண்முன் கும்பணி , மண்டியமயிள் பாதி பாதி , பனித் தலை, 2005.

8. குமாரி பாளி, "ஹியார் வேலுகில் துரிப்பேசியகத் துரிப்பேசி நதி " - குமாரி பாதி, பாதி தலை.


10. மாதனா ஜி ஷி காகாசி - இத்திரி பெரிய பாதி பண்முன்வாதிகம் யமாகத்திய பாதி பாதி , பாதி பாதி , பாதி தலை.

11 சணி. வளி வளி குமாரி - இத்திரி பண்முன்வாதிகம் யமாகத் துரிப்பேசி பாதி, பாதி தலை 2004.

12. சாலிவீ சேலி கிளைமனி - குமாரி பெரிய பண்முன்வாதிகம், மண்டியமயிள் பாதி பாதிய பாதி தலை-2005


14. வெளிச்சம் வி த்ரா - இத்திரி பண்முன்முனர் வி த்ரா, அபிஜைத்தி சுற்று அக்கின் லட்சம், பாதி தலை.
PART – II: ENGLISH
IENC– 22: English Through Literature II: Poetry

Objective:
To ensure and enhance:
- the ability of the learner to comprehend and appreciate poems in English
- the competence of the learner in using English language, and
- the interest of the learner in human values and perceptions

UNIT –1
1. William Shakespeare “Sonnet 29”
2. William Blake “A Poison Tree”
3. Robert Bridges “A Red, Red Rose”

UNIT-2
4. PB Shelley “Ozymandias”
5. Alfred Tennyson “The Brook”
6. HillaireBellock “Matilda”

UNIT –3
7. Robert Frost “Stopping by Woods on a Snowy Evening”
8. Walt Whitman “O Captain, My Captain”
9. Sylvia Plath “Mirror”

UNIT –4
10. Toru Dutt “The Lotus”
11. A. K. Ramanujan “A River”
12. Keki N. Daruwala “Pestilence in Nineteenth Century Calcutta”

UNIT –5
13. Gabriel Okara “Once Upon a Time”
15. Robert Finch “Peacock and Nightingale”

TEXT BOOK:

Semester II 19IPOSC23 FERTILITY Credits: 4
Hours: 4
The students will be enable to

**LO1.** Know the basic knowledge about fertility.
**LO2.** Summarize levels and trends of fertility
**LO3.** Distinguish the theories fertility.

**UNIT – 1**
**Fertility – Introduction**

Fertility: Concepts and Definitions, Importance of the study of fertility; Data sources and errors; Factors important in the analysis of fertility.

**UNIT – 2**
**Fertility Measures**

Measures of Fertility: Crude Birth Rate, General Fertility Rate, Age Specific Fertility Rate, Total Fertility Rate, Rates adjusted for Age and Sex; Child Woman Ratios, Children ever born, Measures of Reproduction: Gross Reproduction Rate; Net Reproduction Rate.

**UNIT – 3**
**Factors Affecting and Fertility**

Physiological, Social, Economic, and Cultural factors affecting fertility; Value of Children; Davis-Blake's Intermediate Variables Framework; Bongaart's Proximate Variables.

**UNIT – 4**
**Levels, Trends and Differentials in Fertility**

Levels and Trends in fertility in World, Developed and Developing Countries and in India; Causes and Consequences; Fertility differentials by age, religion, literacy, residence, occupation, income, and by status of women.

**UNIT – 5**
**Theories of Fertility**


**TEXT BOOKS:**

SUPPLEMENTARY READINGS


After completion of the course students will be able to :

CO1. Acquire the basic knowledge about fertility.
CO2. Understand the measures of fertility
CO3. Analyze the levels and trends of fertility in World and differentials in fertility.
CO4. Define the concept of the theories of fertility.

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Semester-II 19IPOSC 24 MORTALITY Credits:4 Hours:4

The students will be enable to

LO1. Define the basic knowledge of mortality.
LO2. Explain the measures of mortality.
LO3. Relate the levels and trends of mortality.

UNIT - 1
Introduction
Mortality: Importance of study; concepts, definition, data sources and limitations; Factors important in the analysis;

UNIT – 2
Measures
Measures: Crude Death Rate, Specific death rates by Age, Sex, Causes of Death, Marital status and other characteristics; Standardization of Death Rates: Comparative Mortality Index and Standardized Mortality Ratio; Lexis Diagram and its Importance.

UNIT-3
Infant and Maternal Mortality
Importance of study; Measures; Perinatal, neo-natal and Post-neo-natal mortality rates; child mortality; Causes: endogenous and exogenous; Trends and differentials in developed and developing countries and in India; Prospects of decline; maternal mortality rates: Levels and trends and future prospects.

UNIT - 4
Mortality Levels, Trends and Differentials
Levels and trends in mortality in developed and developing countries and in India; Prospects of mortality decline in developed and developing countries and in India. Mortality differentials by age, sex, residence and socio-economic characteristics

UNIT - 5
Life Tables
Life Table: Concepts, definition types, assumptions and columns. Current and Cohort of Construction of Life tables from Age Specific Death Rate: Construction of life table on the basis of Single Census and two Censuses: Conversion of Abridged Life table into complete life table.

REFERENCES:

SUPPLEMENTARY READINGS

**After completion of the course students will be able to:**
- **CO1**. Inculcate the basic knowledge of mortality.
- **CO2**. Understand the measures of mortality.
- **CO3**. Analyze the levels and trends of mortality.
- **CO4**. Explore the differentials in mortality.
- **CO5**. Recognize the basic knowledge of life table.

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**Semester-II  19IPOSC25  MIGRATION**

**Credits:** 4
**Hours:** 4

**LO1.** Define the basic knowledge of migration.
**LO2.** Explain the theories migration.
**LO3.** Relate the policies of migration

**UNIT – 1**
**Introduction**

Migration: Concepts, Definitions; Importance of Study; Sources and Quality of Data; Forms and Types of Migration.

**UNIT – 2**
**Internal Migration**

Internal Migration: Migration Patterns; Characteristics of Migrants in developing countries with special emphasis to India. Measures of Internal Migration: Direct and Indirect Methods of Estimation; Advantages and limitations.

**UNIT – 3**
**Determinants of Migration**
Factors influencing Migration. Determinants of Internal migration: Demographic, Economic, Social, and Political at the place of origin and destination. Consequences of migration both at Micro and Macro levels.

UNIT – 4
Theories and Models


UNIT – 5
Policies

International Migration - Immigration and Emigration; Factors affecting International Migration; consequences; Policies in Developed and Developing Countries Refugees - Problems.

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:
CO1 Impart the knowledge on Migration.
CO2. Provide an Overview of different types of Migration.
CO3. Understand the determinants of migration
CO4. Explore the theories of migration
CO5. Assess the policies of migration

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Semester-II 19POSC26 PRINCIPLES OF ECONOMICS Credits: 3 Hours:3
The students will be enabled to
LO1. Outline the concepts of economics
LO2. Recognize the concepts of economic development
LO3. Illustrate different human resource development

UNIT – 1
Basic Concepts in Economics
1.1. Scarcity and Opportunity Cost
1.2. Rational Behaviour – Marginalism – Incremental Concepts
1.3. The Goals of an Economic System – What to produce? How to Produce? How to distribute?

UNIT – 2
Principles and Concepts of Economic Development
2.1. Concept of Development – Measures of Economic Development
2.2. Common Characteristics of Developing Economies
2.3. Factors in development – Capital, Natural Resources, Cultural Values and Human Resources.

UNIT – 3
Theories of Population
3.1. Malthus Theory – Contemporary Relevance
3.2. Theory of Demographic transition
3.3. Theory of optimum population.
3.4. Becker’s Household theory of fertility – Demand for children in developing countries.

UNIT – 4
Human Resource Development
4.1. Concept of Human Capital
4.2. Role of Health and Education in human development
4.3. Distinction between Human Development & Human Resource Development.

UNIT – 5
Population and Sustainable Development
5.1. Macro economic model of population growth – Coale and Hoover model.
5.3. Poverty and Inequality.
5.4. Population and Global Environment

TEXT BOOKS:
SUPPLEMENTARY READINGS:


After completion of the course students will be able to:

- **CO1**: Acquaint the concepts and importance of Economics.
- **CO2**: Recognize the Principles and Measures of Economic Development.
- **CO3**: Explore the theories of Population related Economic theories.
- **CO4**: Identify and differentiate Human Resource Development.
- **CO5**: Learn the Macroeconomic model of Population growth.
SEMESTER III

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UNIT 1

1. Charles Dickens: Great Expectations

UNIT 2

1. The Robe of Peace (O’ Henry)
2. The Miracle of Puran Bhagat (Rudyard Kipling)

UNIT 3

1. The Truth about Pyecraft (H.G. Wells)
2. Quality (John Galsworthy)

UNIT 4

1. Mabel (William Somerset Maugham)
2. The Far and the Near (Thomas Wolfe)

UNIT 5

2. A Devoted Son (Anita Desai)

TEXT BOOKS:

PART – II: ENGLISH

IASL 32 – English Through Literature III: Drama

Objective:
To enhance the conversational competence of the learner by introducing to him to dramas in English

UNIT - 1
Stanley Houghton “The Dear Departed”
Kenneth Sawyer Goodman “The Game of Chess”

UNIT - 2
A. A. Milne “The Princess and the Woodcutter”
Anton Chekhov “A Marriage Proposal”

UNIT - 3
Arnold Bennett “The Stepmother”
Arthur Miller “Grandpa and the Statue”

UNIT - 4
William Shakespeare \textit{King Lear}(Act I, Scene i)
William Shakespeare \textit{Julius Caesar} (Act III, Scene ii)

UNIT - 5
Frances Goodrich & Albert Hackett \textit{The Diary of Anne Frank}(Act I)
Betty Keller “Tea Party”

TEXT BOOK:


Semester-III 19IPOSC33 URBANIZATION AND URBAN PLANNING Credits: 4

The students will be enable to

LO1. Know the basic knowledge of Urbanisation.

LO2. Explain the changing patter of Urbanisation

LO3. Analyse the levels and trends of Urbanisation
UNIT – 1: Introduction


UNIT – 2: Urbanization

Meaning, Definition, and changing concept of urban. International comparision, concept of urban in the Indian censuses since 1872.

UNIT – 3: Measures

Degree of urbanization, Tempo of urbanization, size of locality of residence of the median inhabitants, population potentials, Rank-size Rule, Lorenz curve and Gini's concentration & co-efficient, Determinants of urbanization.

UNIT 4: Levels and Trends of Urbanization

Levels and Trends of Urbanization in Developed an Developing countries and in India; Urban and rural growth differentials; implications of rural localities for urban growth Role of transportation in affecting urbanization, size and spacing of urban centers; Problems of urbanization and over-urbanization.

UNIT – 5: Urban Planning

Concepts, approaches choice of a suitable strategy; Demographic considerations in urban planning; Policies and Programmes affecting urbanization, urbanization and multi-level planning, Relationship to economic growth, urban growth, rural growth, Population density etc.

TEXT BOOKS:


SUPPLEMENTARY READINGS


After completion of the course students will be able to :

CO1: Demonstrate basic knowledge about urbanization
CO2: Understand the changing pattern in the concept of urbanization.
CO3: Develop to analyse the measures of urbanization.
CO4: Identify the levels and trends of urbanization
**CO5**: Appreciate the various approaches of urban planning

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Semester-III 91IPOSC34 Title POPULATION POLICIES AND PROGRAMMES Credits: 4 Hours: 4
The students will be enable to
LO1. Describe the knowledge about the population policies
LO2. Classify organisation structure of FPP
LO3. Outline the role of different agencies in FPP

UNIT - 1
Population policies; Definition; Types; policy Goals; world population and Health conferences; overview of population policies in Developed and Developing countries; India’s Population Policy; Pre-Independence and post-Independence Era; Policy during Emergency and After, new population policies.

UNIT - 2
Family Planning

Family Planning: Meaning, Objectives, Principles, Characteristics; Need for Family Planning: History of Family Planning Movement in the World, Developed and Developing Countries; Evolution of Family planning Programme in India.

UNIT - 3
Organization structure, Approaches and FP methods

Organization Structure: Central, State, District levels and implementation at the Primary Health Centre; Approaches to Family Planning: Clinical Approaches, Extension Approach, Camp Approach, Cafeteria Approach and Integrated Approach; RCH approach; Target free Approach; community Needs Assessment approach; Targets and Achievements, Target Approach and its importance; Funds allocation, Targets and Achievements under various plan periods; Family planning methods.

UNIT - 4
Acceptance Trends, Factors and Evaluation

Trends in the family Planning Programme: Trends in the acceptance of Family Planning methods, Socio-economic, cultural and psychological factors influencing acceptance of family planning; Research Studies.

Family Planning Evaluation; Concepts, definition, Acceptance, Use-effectiveness and extend-use-effectiveness; Characteristics; Family planning programme impact measures: Acceptance rate, percent protected coups Years protection. Life table continuation rates, Fertility indices and Birth Averted;

UNIT – 5: Different Agencies in Family Planning Promotion

Role of Different Agencies in the promotion of Family Planning: Role of Government Agencies: Mass Media; Family Planning Association of India (FPAI); Population Foundation of India and IASP; Educational & Research Institutions; Role of World Agencies: UN, World Bank, WHO, IUSSP, UNFPA, UNICEF, etc.; Non-Governmental organization; International Planned parenthood Federation; Rockefeller Foundation and the Population Council etc.

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:

CO1: Acquire the knowledge about Population Policies
CO2: Understand the Evolution of Family planning
CO3: Recognize the Organizational structure, approaches and FP methods.
CO4: Critically evaluate the FP programmes
CO5: Demonstrate the role of different agencies in Family planning programme
The students will be enable to
LO1. Know the history of social development
LO2. Classify the social policies
LO3. Discriminate the theories of development in social change

UNIT – 1: History of Development

India in the early days – Early Industries - The conquest of India by the British Economy during the British Period - Decline of Indian handicrafts – Social Development : Evaluation, Progress and Development.

UNIT - 2: Development of Economics

Criteria of underdevelopment – Characteristics of under development – Obstacles to Economic development – Concept of development - Stages of Economics development.

UNIT -3: Development of Society

Importance of the study of social Policy – Social Developing: Evolution, Progress and Development –Human needs and quality of Life, Key issues in development polices

UNIT - 4: Theories of Development


UNIT -5: Policy and Prospects

Agriculture, Industrial Trade and Manpower Development Policy Global Inter dependence on future planning - Machineries for coordination and integrated Development. Growth versus Development

TEXT BOOKS:


SUPPLEMENTARY READINGS
4. Sankar Rao C.N. Sociology New Delhi: Chand and Company Ltd.,

After completion of the course students will be able to:

CO1: Gain knowledge on the history of India’s Social development
CO2: Understand the concept of Under-development and Development
CO3: Discuss the Social policies in development of society
CO4: Apply the theories of development in social change
CO5: Describe the policy and prospectus on future planning

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Semester-III 19IPOSC36 COMPUTER AND ITS APPLICATION Credits: 3
Hours:3

The students will be enable to
LO1. Define the devices computers
LO2. Classify the operating system of computers.
LO3. Choose data communication elements

UNIT - 1
UNIT - 2

UNIT - 3
Personal Productivity Software: Introduction to MS-Office - MS-Word - MS-Excel - MS-Power Point - MS-Access.

UNIT - 4
Data Communication: Elements - Computer Network - Types (LAN, MAN and WAN) - Topology - Transmission Media – Guided Medium (Twisted Pair, Coaxial Cable and Fiber Optic Cable) – Wireless Transmission.

UNIT - 5
Introduction to Internet: Browser and Its types - World Wide Web (WWW) - Internet Service Provider (ISP) - HTTP - Electronic Mail - Introduction to Multimedia - HTML - Creation of Web Pages.

TEXT BOOKS:

SUPPLEMENTARY READINGS:

After completion of the course students will be able to:

CO1: Acquire the knowledge on history of computers and its devices
CO2: Understanding the operating systems of computer
CO3: Analyse the personal productivity software
CO4: Identify Data communication elements
CO5: Explain the internet introduction

Semester-III 19IPOSC37 POPULATION PSYCHOLOGY Credits: 3 Hours: 3

The students will be enable to
LO1: List out the psychological perspectives on value of children
LO2: Illustrate the theories of motivation
LO3: Distinguish the theories of learning

UNIT – 1: Children: Psychological Perspective

UNIT – 2: Theories of Motivation
Theories of Motivation Maslow's theory, Hull's Drive - Reduction theory, and Theory of Achievement Motivation. Linkage of these theories to fertility and contraceptive behavior.
Mechanism of cognition. Cognitive consonance theory, cognitive dissonance theory and balance theory. Selective perception and it's influence on fertility and contraceptive behavior.

UNIT – 3: Measurement Techniques

UNIT – 4: Theories of Learning
Theory of connectionism, theory of contiguous conditioning, and theory of operant conditioning. Application of learning theories in contraceptive behavior

UNIT – 5 Leadership
Definition and categories of Leadership. Characteristics of Leaders, functions of leaders. Role of leaders in propagation of ideals of family welfare

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to :
CO1: Explain the psychological perspectives on value of children
CO2: Understand the theories of motivation
CO3: Discuss the measurement techniques
CO4: Describe the theories of learning
CO5: Prepare themselves for leadership

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IENC-42 PART – II: ENGLISH

IASL 42 – English Through Literature IV: Short Story

Objective:

To develop the communicative competence of learners in the English Language through training them in the skills of listening, speaking, reading and writing

UNIT – 1

1. O' Henry  "After Twenty Years"
2. Ernest Hemingway  “A Day’s Wait”

UNIT - 2

1. Flora Annie Steel  “Valiant Vicky”
2. Oscar Wilde  “The Selfish Giant”

UNIT- 3

2. ShashiDeshpande  “I Want”

UNIT - 4

1. Leo Tolstoy  “Where Love is God is”
2. Somerset Maugham  “The Ant and the Grasshopper”

UNIT –5

1. Chinua Achebe  “Marriage is a Private Affair”
2. Bessie Head  “Heaven is not closed”

TEXT BOOK:
The students will be able to
LO1: Recognize the concepts of ecology and ecosystem
LO2: Monitor the environmental crises
LO3: Generalize the ecological imbalances

UNIT – 1: Ecology and Eco-System
Ecology and Ecosystem; Human Geography and its relevance to Population Studies; Residential and Social Environment: Elements of Social Environment; Patterns of Social contact, Examination of the relationship among these factors. Human Ecology and its relevance to population studies.

UNIT – 2: Population Distribution
Special distribution of population: Importance of the study, measures of density, factors affecting special distribution. Population distribution in India and in the World.

UNIT – 3: Land and Research
Land use: Changing patterns, conservation and management of resources. Policies and programmes for better management.

UNIT – 4: Environmental Degradation
Environmental crisis; Air-pollution, water pollution and Noise pollution depletion of biotic resources, ecological imbalances etc.

UNIT – 5: Population Growth and Ecological imbalance
Global warming, Green house effect, El-nino effect, Soil erosion, Deforestation, Desertification, Salinity and water logging. Man's Perception and adjustment to ecological imbalances;

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:
**CO1:** Understand the ecology and eco-system.
**CO2:** Demonstrate the knowledge of population distribution.
**CO3:** Cultivate the appreciation of uses of the Environment.
**CO4:** Recognize the environmental crisis.
**CO5:** Acquire enhanced awareness about ecological imbalance.

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**Semester-IV**

**19IPOSC44 HEALTH EDUCATION AND NUTRITION**

Credits: 4
Hours: 4
The students will be enable to
LO1: Recognize the importance Public Health
LO2: Classify the nutritional requirements
LO3: Organize the health educational programmes

UNIT 1
Public Health
Concepts, Definition, Importance of Public Health; personal hygiene; Various health aspects: curative, Promotive and Preventive; Indicators of Health.

UNIT -2
Environment and Health

UNIT -3
Nutrition
Food and its classification; concept of nutrition, process, Concepts, Nutritients, Functions and Sources; Balanced Diet; Nutritional requirements of special groups, pregnant and lactating women and infant and children

UNIT –4
Malnutrition
Factors, Nutritional Deficiency Diseases; Recommended Nutrition Standards; Supplementary Nutritional Programs: Applied Nutrition Programmes; Nutritional feeding Programmes etc.

UNIT - 5
Health Education
Health Education: Concepts, definitions, objectives, scope, principles and contents; Health Education Methods; Role of Health Educator; Development of Health Education Programmes; Evaluation of Health Education Programmes; Agencies involved in the Health Education.

TEXT BOOKS :

SUPPLEMENTARY READINGS

After completion of the course students will be able to:

CO2. Understand the hygienic practices.
CO3. Provide an overview about nutrition.
CO4. Recognize the various nutrition programs.
CO5. Demonstrate the knowledge of health education

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Semester-IV 91IPOSC45 POPULATION AND DEVELOPMENT PLANNING Credits: 4 Hours: 4
The students will be able to
LO1. Recognize the economic development
LO2. Explain the consequences of population growth on national income
LO3. Identify the different types planning for socio-economic development.

UNIT - 1
Basic Concepts in Development
Concept and indicators of social and economic development, classical and Harrod-Domar model of economic growth. Approaches to development; changing concept - emphasis on distributive aspects, Social aspects, Physical Quality of life Index (PQLI), PQLI, Human Development Index modernization process.

UNIT - 2
Population and Development
Consequences of population growth on national and per capita income, Income distribution, Capital formation, Rate of savings and investment, Allocation of resources, size of the labour force, Industrialization, Malthusian and Boserupian perspectives; Demographic behaviour in the context of socio-economic change.

UNIT - 3
Development Planning and Population
Concept of planning, Approaches, Choice of a suitable strategy, Population planning as an integral part of overall development planning, Demographic considerations in planning for different sectors.

UNIT - 4
Planning for Food and Housing
Population and Food security; Food requirements and production, supply and distribution, poverty and malnutrition; agricultural development;

UNIT - 5
Planning for Other Aspects of Development in India
Planning for education, employment and manpower, rural development, urbanization, environmental and other aspects.

TEXT BOOKS:

SUPPLEMENTARY READINGS
13. World Development Reports

After completion of the course students will be able to:

**CO1.** Acquire knowledge on basic concepts and development
**CO2.** Describe the consequences of population growth on national income
**CO3.** Recognize the different types of planning.
**CO4.** Explore Population growth with food production and supply
**CO5.** Enlighten the planning for Socio-Economic development

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Semester-IV  91IPOSC46 EVALUATION AND ADJUSTMENT OF POPULATION DATA Credits: 4
Hours: 4
The students will be enable to
LO1. Recognize the evaluation of demographic data
LO2. Recall the factors of completeness in statistical registration.
LO3. Generalize the graduation of demographic data

UNIT - 1
Evaluation of data
   Errors of coverage content, general methods for detecting errors comparison of individual data, re-enumeration survey.
   Consistency of totals at successive censuses: Analyzing the rate of change between two censuses, comparing rates of change during the interval between three or more censuses.

UNIT - 2
Factors Affecting Completeness of Census
   Consistency of census totals with vital statistics and migration statistics. Balancing equation: definition and limitations - use of the balancing equation.

UNIT - 3
Factors Affecting Completeness of Birth and Death Registration
   Appraisal of birth and death statistics balancing equation. Direct checks on completeness of vital statistics registration - Chandrasekar and Deming formula.

UNIT - 4
Evaluation and Measurement of Errors in Age Reporting
   Whipple's index, Myer's index and United Nations age accuracy index. Uses and limitations.

UNIT - 5
Adjustment and Gradation of Data
   Interpolation - Method of adjustment - curve fitting, interpolation: Linear Interpolation; Newton's Formulas.
   Graduation of age and sex data, Methods of Graduation: Graphic Method, Moving average method and mathematical methods.

TEXT BOOKS:

SUPPLEMENTARY READINGS
2. Registrar General of India, 1997 Civil Registration System in India.
After completion of the course students will be able to:

CO1. Acquire knowledge on evaluation of demographic data

CO2. Understand the factors affecting completeness of census data

CO3. Acquaint to learn the completeness of statistical registration

CO4. Assess the measurement of errors in age reporting

CO5. Interpret the adjustment and graduation of data

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Semester-IV  19IPOSA47  DIMENSION OF RURAL DEVELOPMENT  Credits: 3

LO1: Recognize the history of Rural development and planning
LO2: Demonstrate the Principles of rural development planning
LO3: Select the concept of PRA in rural development

UNIT – 1

Rural Development - Conceptual framework, objectives and scope - Evolution of rural development in India - Brief review of pre and post independent attempts towards rural development and its overall impact. Limitations of rural development efforts in India.

UNIT – 2

Poverty in India - Concept and dimensions of poverty - causes and consequences of poverty - Gender and poverty - constrains in poverty alleviation. Poverty alleviation measures
pursued in India (a brief review of development programmes is expected). Now economic reforms and it's impact on rural development.

UNIT - 3

Rural Development planning - Concept and dimensions - dynamics of panning and development in India. Decentralised planning and its relevance - principles and methodology of multi-level planning. Five Year plans and rural development.

UNIT - 4

Empowerment of rural poor - Concept and dimensions of empowerment -Sources of disempowerment and need for empowering rural poor - approaches and constraints in empowerment of rural people.

UNIT - 5

Participatory development - Concept and meaning of peoples participation - need for participation development - methods and techniques of peoples participation. Participatory Rural Appraisal (PRA) - Concepts and relevance of PRA - relevance of PRA in rural development.

TEXT BOOKS:


SUPPLEMENTARY READINGS


After completion of the course students will be able to:

CO1: Describe the history of Rural development and its impact
CO2: Recognize poverty and its impact in rural India
CO3: Explain the principles of rural development planning.
CO4: Analyse the empowerment of rural masses
CO5: Discuss the concept PRA in rural development.

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Semester-V 91POSC51 POPULATION GEOGRAPHY Credits: 4 Hours: 4
The students will be enable to

**LO1:** Describe the importance of geographical approaches
**LO2:** classification of physical divisions of India
**LO3:** Outline the concept of Social space

**UNIT-1**
Importance of Geographical factors- Physical factors (relief, rainfall, temperature, soil and vegetation) Economic and Social factors (Mineral resources and industrialization, transport, language, religion and caste/tribe); the influence of geographical factors on population.

**UNIT-2**
Geographical approaches: the concept of region- formal and functional regions; the concept of growth pole and regional development; core and periphery; distance and decay function; Maps- scale, choropleth, isopleths and distribution maps.

**UNIT-3**
Physical divisions of India; administrative organization of India. Historic-Cultural regions; Agro-climatic regions; NSS regions.

**UNIT-4**
Theoretical Perspectives in Geography- Place of geography in Social sciences; man and nature relationship- determinism and possibilism; Positivism (quantification) and Phenomenology; and Radical and Postmodern Geography.

**UNIT-5**
Concept of Social Space; Social Structure and Spatial Structure; Role of time and space in social sciences.

**TEXT BOOKS:**

**SUPPLEMENTARY READINGS**

After completion of the course students will be able to:
   CO1: Understand the importance of Geographical factors
   CO2: Critically analyse the geographical approaches
   CO3: Recognize the Physical division of India
   CO4: Discuss the theoretical perspectives in geography
   CO5: Relate the concept of social space

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Semester-V  91POSC52 POPULATION ESTIMATES AND PROJECTIONS  Credits: 4  Hours:4
The students will be enable to growth and measurement
LO2: Estimate the population growth
LO3: Interpret the linkage of ratio method and specific projections

UNIT - 1
Population Growth, Measurement
Dynamics of Population Growth: Balancing equation, Population growth Rate; Linear, Geometric and Exponential; Doubling time, Location of events in time; Lexis diagram and its uses.

UNIT - 2
Population Estimates
Nature, uses, types, methods of estimates; Model Life Table Technique, Stable Population Models and Methods based on data from censuses and surveys.

UNIT - 3
Mathematical Method
Assumptions, types; Linear, Geometric and Exponential, Modified exponential, Logistic curve, Gompertz law.

UNIT - 4
Component Method
Assumptions, Projections of Fertility, Mortality and Migration;

UNIT - 5
Ratio Method & Specific Projections
Ratio Method; Assumptions and importance specific projections: school going population projection of working age population and other socio-economic characteristics; Evaluation of projections.

TEXT BOOKS:

SUPPLEMENTARY READINGS
8. -----------, Statistical Year Books (Various years).
9. -----------, Demographic Year Books (Various years).

After completion of the course students will be able to:

CO1: Demonstrate the knowledge of population growth and measurement
CO2: Describe Population estimates
CO3: Explain the mathematical methods
CO4: Identify Component Method for population projection
CO5: Comprehend the linkages of Ratio method and specific projections

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Semester-V 91IPOSC53 POPULATION THEORIES Credits: 5 Hours:
The students will be enable to
LO1: Recognize the theories related to population
LO2: Explain the socio-economic theories
LO3: summaries the modern theories

UNIT - 1
Pre-Malthusian and Ancient Thought on Population
Ancient thought on Population issues; Confucius and other Chinese Writers, Greek thought, Indian and Roman thought; Religion and Population issues; Pre-Malthusian views: Mercantilists, Physiocrats and others.

UNIT – 2
Malthusian and Neo-Classical Population Theories
Malthusian theory and criticism and relevance; The Neo-classical school and the Population issue; Marxian views on population issues; Biological Theories: Sadler's theory; Donbleday's Diet Theory, Carrodo Gini's Theory,.Herbert Spencer's theory; Castro's theory of protein consumption.

UNIT - 3
Socioeconomic Theories
Social capillarity theory; theory of change and Response, theory of diffusion or cultural lag, Optimum theory, Threshold hypothesis, Logistic Curve.

UNIT - 4
Modern Theories - I
Theory of demographic Transition - critical evaluation and applicability; Leibenstein's critical minimum effort thesis; Lewis theory and Coale and Hoover Models.

UNIT - 5
Modern Theories – II
Becker's theory, Ronald Freedman conceptual models, Caldwell's model on fertility.
TEXT BOOKS:


SUPPLEMENTARY READINGS


5. Rele, J.R. and Tara Kanitkar, Fertility and Family Planning in Greater Bombay (Bombay; Popular Prakashan 1982)


After completion of the course students will be able to:

**CO1:** Understand the Pre-Malthusian and ancient thought on population

**CO2:** Demonstrate Malthusian and Neo-Classical theories.

**CO3:** Understand the Socio-economic theories

**CO4:** Explore the theory of Demographic Transition

**CO5:** Enlighten modern theories

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**Semester-V**  91IPOSC54  **BASIC STATISTICAL METHODS**  

**Credits:** 4  
**Hours:** 4
The students will be enable to
LO1: Recognize the theories related to population
LO2: Explain the socio-economic theories
LO3: Summaries the modern theories

UNIT –1: Introduction Diagrammatic Representation
Introduction to statistics: Descriptive and Inductive statistics. Concept of variables, Nominal, Ordinal and Interval scale variables. Tabulation of data, conversion of raw data into frequency distribution, graphical presentation of nominal, ordinal data.

UNIT - 2: Descriptive Statistics
Measures of Central Tendency: Mean (arithmetic, geometric, harmonic) Median, Mode; Merits and demerits of different measures. Measures of dispersion: Range, Variance, Standard Deviation; Merits and demerits of different measures of dispersion. Measures of Skewness and Kurtosis. Techniques of analyzing bivariate nominal and ordinal level data: Contingency table, odds ratios; partial odds.

UNIT- 3: Probability and Distribution

UNIT- 4: Sampling and Test of Significance

UNIT – 5: Analysis of variance, Correlation and Regression

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:
CO1: Explain the introduction to Statistics
CO2: Understand to compute the measures of Central tendency and Dispersion
CO3: Find out the relevance of probability and distribution
CO4: Classify sampling and Test of significance
CO5: Work out analysis of variance, Correlation and Regression

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Semester-V  91IPOSC55  POPULATION EDUCATION AND COMMUNICATION  Credits: 4
Hours: 4
The students will be enable to

LO1: Describe the communication approaches
LO2: Recognize the knowledge on population education
LO3: Develop the Population education extension programmes

UNIT – 1: Communications

Meaning, Basic elements in communication process, Problems of communication, channels, Types, merits and limitations.

UNIT – 2: Communication Approaches

Information transmission approach, Persuasion approach and dialogue, Diffusion model of innovations: Adoption process, stages, criticism; Innovation: Decision, meaning, stages, role of mass media, peer groups and opinion leaders; Adopters of innovation: categories and their characteristics.

UNIT – 3: Communication and Social Changes

Barriers of communication in family planning. Husband -Wife communication in family planning - Factors influencing - demographic souci-economic, cultural, familial and psychological

UNIT – 4: Population Education


UNIT – 5: Extension Programme

Meaning, definition, objectives, scope and its organization: Selection of content and strategies and Training. Role of different Agencies in Population Education.

TEXT BOOKS :

1. Park, J.E. and K. Park, Preventive and Social Medicine (New Delhi: Bannersidas Bhanot and Company Ltd., 1976)

SUPPLEMENTARY READINGS


After completion of the course students will be able to:

**CO1:** Acquire the knowledge of elements in communication process
**CO2:** Understand the various communication approaches
**CO3:** Describe the communication and social changes
**CO4:** Acquire the knowledge of Population education
**CO5:** Understand the importance of Population Education in extension programmes.

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Semester-V 91IP05C06 PRACTICAL I Credits: 4 Hours: 4
**LO1:** Outline the skill of computing the rate of the components of population change and family planning

**FERTILITY**

1. Crude Birth Rate
2. Age Specific Birth Rate
3. Gross Reproduction Rate
4. Net Reproduction Rate
5. Child-woman Ratio
6. Sex-age adjusted birth rate
7. Standardized birth rate and General Fertility Rate

**NUPTIALITY**

8. Singulate mean age at marriage
9. Age at Divorce, Separation & Remarriage
10. Age at Widowhood

**MORTALITY**

11. Crude Birth Rate & Age Specific Death Rate
12. Standardized Death Rate
13. Life Table: Complete Life Table & Abridged Life Table
14. Infant Mortality Rate: Conventional method & Cohort method

**MIGRATION**

15. In-migration and out migration rate
16. Gross migration and Net migration rate
17. Forward survival ratio method
18. Reversal survival ratio method

**FAMILY PLANNING**

19. Acceptance rate
20. Couple Protection Rate (couple currently protected & couple effectively protected)

**After completion of the course students will be able to:**

**CO1:** Acquire the knowledge of elements in communication process

**CO2:** Understand the various communication approaches

**CO3:** Describe the communication and social changes
CO4: Acquire the knowledge of Population education
CO5: Understand the importance of Population Education in extension programmes.

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Semester-VI 91IP61 STATISTICAL APPLICATIONS Credits: 4
Hours: 4
The students will be enable to
LO1: Describe the software and its related advantages to demography.
LO2: Classify the large scale data with SPSS-facilities
LO3: Evaluate the Survey analysis and demonstrate basic functions of GIS.

UNIT 1
Basics of MORTPAK4, SPECTRUM and applications.

UNIT 2
Introduction to SPSS-facilities, creating database structure, data entry, specifying scales, validation of data entry, importing and exporting data. Data Manipulation – recoding creating new variable, sorting, filtering and selection of specific data, generating simple frequencies, use of syntax editor. Large scale data handling – (using NFHS, DLHS-RCH, NSSO) Merging, splitting data and formatting.

UNIT 3

UNIT 4
Introduction to STATA, generating, variables, commands and do file editor. Survey analysis – estimation of mean, proportion, design effect and probit analysis and standard non-parametric test.

UNIT 5
Concept of data hierarchy and multilevel analysis. Introduction to MLwiN, importing and formatting data. Illustration of 2 and 3 level analysis using NFHS, DLHS-RCH, NSSO data. Introduction to GIS and illustration.

TEXT BOOKS:
1. SPSS 14.0 Brief Guide – SPSS Inc.
2. SPSS regression models 11.0 - SPSS Inc.
3. SPSS advanced models 11.0 - SPSS Inc.

SUPPLEMENTARY READINGS

After completion of the course students will be able to:
CO1: Acquire the knowledge of software and its related advantages to demography.
CO2: Demonstrate to apply the large scale data with SPSS-facilities
**CO3**: Interpretate the results through Correlation and regression analysis.
**CO4**: Understand the Survey analysis
**CO5**: Demonstrate basic functions of GIS and illustration.

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Semester VI  
91IPOPC62 REPRODUCTIVE AND CHILD HEALTH  
Credits: 4  
Hours: 4
The students will be enable to
LO1: Recognize about human reproduction and reproductive health.
LO2: Explain the gynecological problems.
LO3: Outline the Sexual Transmitted Diseases and health programmes.

UNIT- 1
Anatomy and Physiology of Human Reproduction, Mechanism of conception and pregnancy.

UNIT- 2

UNIT- 3
Sexually Transmitted Diseases (STD) and HIV / AIDS - Prevalence rate, Medical and Social aspects. Commercial sex workers and other vulnerable groups. Interventions by Governmental, Non-governmental organizations.

UNIT- 4
Reproductive Health Programme Management: Assessment of community needs , Health seeking behavior.
Special groups - Focus on Reproductive Health of Women with special reference to Commercial Sex Workers, Truck drivers, Jail in-mates and street children. Policy issues and quality of care.

UNIT- 5
RCH Programmes in India:
Research Studies on Reproductive Health.

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:
CO1: Acquire the knowledge about human reproduction and reproductive health.
CO2: Understand the gynecological problems.
CO3: Identify the Sexual Transmitted Diseases.
CO4: Understand the reproductive health programmes and management.
CO5: Demonstrate RCH programmes and research studies.

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Semester-VI 91IPOSC63 DEMOGRAPHIC MODELS

Credits: 5
Hours: 5

The students will be enable to
LO1. Recognize the Life-table and its types.
LO2. Analyse the intrinsic rate of natural increase.
LO3. Estimate the fertility, Mortality and Migration by direct and indirect methods

UNIT – 1
Model Lifes Tables and Fertility Models
Coale and Demeny regional model life tables and stable population, United Nations model life tables for developing countries, Brass Model. Multiple decrement life tables, Fertility models: Coale-Trussell, Brass, Rele Model.

UNIT – 2
Stable Population
Definition, intrinsic rate of natural increase, intrinsic birth rate and death rates, mean length of generation, stable age distribution net reproduction rate, computation of rate of growth and birth rate of stable population from the fertility and mortality schedules.

UNIT – 3
Indirect Methods of Estimating Mortality

UNIT – 4
Indirect Methods of Estimating Fertility
Reverse survival methods of estimating fertility, stable population methods, estimating fertility from children ever-born data, Own children method of estimating fertility, estimating
fertility from survey data on births and children-ever-born, current fertility estimate from pregnancy histories.

**UNIT – 5**  
**Measuring Migration**

Place of birth approach, place of last residence approach, duration of stay-approach, combinations of the three, indirect methods of estimating migration; growth rate method, vital statistics method, life table and census survival ratio methods.

**TEXT BOOKS:**


**SUPPLEMENTARY READINGS**

8. UN/UNES: Estimating Future School Enrolment in Developing Countries.

**After completion of the course students will be able to:**

**CO1.** Acquire the knowledge about Life-table and its types.
**CO2.** Understand the steps to compute the intrinsic rate of natural increase.
**CO3.** Explore to Estimate the fertility by indirect methods
**CO4.** Explore the Indirect Methods of Estimating Mortality.
CO5. Provide the relevant method of Migration estimation.

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Semester-VI  91IPOSC64 DATABASE MANAGEMENT AND ANALYSIS USING SPSS Credits: 4
Hours: 4
The students will be enable to
LO1: Identify SPSS main menus and functions
LO2: Categorize files in SPSS and Edit data.
LO3: Illustrate the data and interpretate.

UNIT-1
SPSS Main Menus and Functions:
Operation commands, Data definition and manipulation commands, Procedure commands

UNIT-2
Creating Data Files in SPSS
Data File Types, Opening data file options, Reading Database files, Saving data files

UNIT-3
Editing Data
Data View, Variables, Variables View, Editing data in Data view, Identifying missing values and replacement, Consistency checking - checking of range of codes for variable

UNIT-4
Data Transformation
Compute Variable, Creating new variable by transformation, Recoding values, Categorize variables, Select Cases, Weight Cases

UNIT-5
Elementary Analysis of Data and Interpretation
Working With Command Syntax. Frequencies, Description. Cross-tabs, Summarize, Means, Correlations, Chi-Square, t-Test. Introduction to Linear Regression and Interpretation.

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:

CO1: Acquire the knowledge of SPSS main menus and functions
CO2: Create the data files in SPSS.
CO3: Bring an understanding to Edit data
CO4: Understand the data transformation
CO5: Analyse the data and interpretate

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The students will be enable to
LO1 Identify the life status of rural masses
LO2 Understand the design and conduct a survey
LO3 Analyze the data and suggest solutions to issues

After completion of the course students will be able to:

CO1. Understand the life status of the rural community
CO2. Design and conduct survey
CO3. Discuss the conclusions from the findings
The students will be enable to

LO1: Identify the importance of value education.
LO2: Explain conscientiousness and conscience.
LO3: Appraise the relevance of ethics and value of life.

UNIT - 1
1. Value education – Meaning – Nature and Purpose
2. Importance of Value Education

UNIT – 2
1. Basic Features of Rational Ethics
2. Moral Consciousness and Conscience
3. Love – The Ultimate Moral Norm

UNIT – 3
2. God, Religion and Morality

UNIT – 4
1. Social Ethics: Value of Life and Human Beings
2. Liberty, Equality and Fraternity

UNIT – 5
1. Ethical Issues Today: Religious Ethics, Family Ethics
2. Political Ethics - Business Ethics
3. Ethics and Culture.

TEXT BOOKS:

SUPPLEMENTARY READINGS

After completion of the course students will be able to:

CO1: Acquire knowledge on importance of value education.
CO2: Recognize conscientiousness and conscience.
CO3: Interpretate human freedom and moral responsibility
CO4: Engage on comparison of value of life and human beings
CO5: Show an appreciation of the relevance of ethics.
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Learning Objective (LO):

The student will be able to

- Recall the Scientific research.
- Draw research design and sampling techniques
- Classify the methods of processing and analysis

UNIT – 1 Scientific Research and Hypothesis

Social Research: Meaning, Nature, Scope Assumptions: Utilities of research; Types of research: Pure, Applied and Action Research; Theory and facts; Major steps in Social Research; Formulation of a Research Problem; Framing of Objectives; Hypothesis: concepts, definition, types, sources, characteristics of a usable hypothesis problem in the formulation of hypothesis, Testing of Hypothesis.

UNIT – 2 Research Design and Sampling Techniques

Research Design: Meaning, importance and Types: Exploratory, Descriptive and Experimental; Method of investigation: Social Survey method, Experimental methods, Statistical methods, Case study method; Sampling techniques: Meaning, Definition, Need; Types of Probability: Single, Random, Systematic and Stratified, cluster, multistage Non-Probability Sampling: purposive, quota, snow ball etc.

UNIT – 3 Data Collection and Scaling Techniques

Data Collection: Type of data: Primary and Secondary; Method of data collection; Observation: Participant and Non-participant, Interview Technique, Focus Group Discussion, Case Study, Tools of data collection: Schedule and Questionnaire; Construction Problems; Advantages and disadvantages; Scaling Techniques: Problems of Measurement; Types of Scales used in Social Research; Organization of Field Survey and Data Collection.

UNIT – 4 Processing and Analysis

Editing, Coding and Tabulation; Analysis of data; The use of Computer Choice of Statistical tools;

UNIT – 5 Interpretations and Report Preparation

Interpretation of results and Report Writing; Purpose, Writing style and content; Uses of reference materials; Bibliography and its compilation; Research Proposals preparation; Techniques of Preparation of research article.
TextT Books


Supplementary Readings:


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the knowledge of scientific research. |
| CO2: | Understand research design and sampling techniques |
| CO3: | Recognize data collection and scaling techniques |
| CO4: | Identify the methods of processing and analysis. |
| CO5: | Explore the knowledge of interpretation and report preparation. |

Outcome Mapping

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Semester-VII  

Learning Objective (LO):

The student will be able to

1. Know the basic knowledge of ecology
2. Explain the environmental hazards
3. Describe the management of resources

UNIT-1 Introduction

Basic concepts of ecology, Ecosystem and its Functions, Biosphere; Atmosphere, Hydrosphere and Lithosphere, ecology and environment. Meaning and concepts of environment, Types of Environment; Physical and cultural environment, Environmental Degradation and Conservation

UNIT-2 Environmental Hazards

Hazards; Meaning and types, Causes and effects of environmental hazards, effect of human activities on environment - environmental pollution - global and local (Soil pollution, water pollution, air pollution, noise pollution) Green House effect –Ozone layer depletion –acid rain, pillar melting, rise of sea level and their implications -. El-nino effect.

UNIT-3 Management of Resources

Concept and scope of Environmental Management, Environmental Management of Resources: Water, forest, biological, mineral and agricultural; Environmental management of chemical, mining and manufacturing industries –petroleum, coal, cement, paper, fertilizer.

UNIT-4 Approaches to Management

Approaches to environmental management, Pollution Management, Waste Management. Waste water treatment process, industrial waste management, Hospital waste management, nuclear waste management, National acid precipitation assessment programmes. Strategies adopted to manage the health problems caused by environmental hazards in India.

UNIT-5 Environmental Policy

History, constitutional provisions and the environment, environmental protection and fundamental rights, judicial remedies and procedures, Emerging environmental issues. Government Agencies & Programs –The Tiwari committee creation of NCEPC, Department of Environment & Forest Function of State Pollution Control Board.
TextT Books

2. Beychok, Milton R. “A data base for dioxin and furan emissions from refuse incinerators” Atmospheric Environment, January 1987
3. Bowler, Cabherine and peter Brimblecome, “Control of Air Pollution in Manchester prior to the Public health act, 1875” Environment and History, 2000

Supplementary Readings:


Course Outcomes

At the end of the course, the student will be able to

<table>
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<tr>
<th>CO1: Acquire the knowledge of ecology</th>
<th>CO2: Recognize the environmental hazards</th>
<th>CO3: Understand the management of resources</th>
<th>CO4: Enlighten the approaches of environmental management</th>
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Outcome Mapping

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Learning Objective (LO):

The student will be able to

- Find the basic aspects of ageing.
- Categorize the social aspects of ageing.
- Classify the Economic and health aspects of ageing

UNIT - 1: Basic Aspects

Concepts and measures of ageing. Components of population ageing and their interrelation with age structure; Ageing trends and patterns in India.

UNIT - 2: Social Aspect of Ageing

Social Status and Roles of Elderly, Family Structure, Intergenerational relations, Kinship and family support, Social Security; Living Arrangements of Elderly, Old Age Homes, Social Networks, and Contribution of elderly; Dependency, Gender Dimensions and Discrimination, Widows, elderly abuse, Vulnerability, Legislations to protect elderly in India.

UNIT - 3: Economic aspects of Ageing Population

Implications of population ageing on labor force, pressures on public finance - government health expenditure, health insurance and health financing for elderly, health care costs, housing, pension and social security.

UNIT - 4: Health Aspects of Ageing

Ageing and life expectancy, pattern of mortality, health adjusted life expectancy; Ageing and burden of chronic diseases, burden of non-communicable diseases, disabilities, mental health problems, cognition and memory loss; Ageing and health risk factors - nutrition, diet and physical activities; Ageing health care utilization, public and private health services availability and accessibility, institutional care, health care costs.
UNIT- 5: Policies and Programmes for Ageing


TextT Books

2. Irudaya Rajan, Social Security for the Elderly Experiences from South Asia, Routledge, New Delhi2007

Supplementary Readings:


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the basic knowledge of basic aspects of ageing |
| CO2: | Understand the social aspects of ageing |
| CO3: | Enlighten the economic aspects of ageing |
| CO4: | Highlights the health aspects of ageing |
| CO5: | Provide an overview of the policies and programmes for ageing |

Outcome Mapping

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Semester- VII  19IPOSC74: PRINCIPLES OF PUBLIC HEALTH  Credits: 5  Hours:5

Learning Objective (LO):

The student will be able to

- Define the mortality and health transitions.
- Classify the theories of mortality and child survival framework.
- Recognize the cause of death.

UNIT-1: Public Health

Definition of public health, importance of public health, History of public health, planning implementing and evaluating public health programs, various health aspects. Curative, promotive and preventive. Indicators of public health.

UNIT- 2 Community Health

Definitions of community health, purpose of community health, scope of community health, objectives of community health, Determinants of community health, health care services in rural community, principles of community health.

UNIT-3: Communicable Disease and Public Health

Definition of communicable and non communicable disease, history, causes and epidemiology of communicable diseases from a broad public health perspective, Methods to prevent and control infection diseases management using surveillance, screening and vaccination strategies.

UNIT-4: Health Education Programs

Basic concepts of health education, Difference Between information Education and propaganda, Aims of health education, principles of health education, Approaches to health education, Steps in carrying out a health education programme in community, Methods of Health education, Administration of health education in India.

UNIT-5: Immunization Programme
Definition of Immunization, historical Background of immunization, classification of immunity, universal immunization program, the national immunization schedule, immunization of pregnant women, immunization of children, preservation of vaccines in cold chain system.

**Text Books**

1. Piyush Gupta Amir and Maroof Khan. Community Medicine, CBS Publisher and Distributors. 2016

**Supplementary Readings**


**Course Outcomes**

At the end of the course, the student will be able to

| CO1 | Impart the knowledge about the mortality and health transitions |
| CO2 | Understand the theories of mortality and child survival framework |
| CO3 | Acquaint the knowledge about the causes of death |
| CO4 | Bring an understanding about the morbidity and disease burden |
| CO5 | Explore the concept public health and Epidemiology |

**Outcome Mapping**

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ELECTIVE COURSE
Learning Objective (LO):

The student will be able to

- Describe population dynamics and business studies.
- Detect business organizations and its functions.
- Differentiate the marketing research process

UNIT -1 Introduction

Meaning, Scope and Nature, Relevance of Population Dynamics in business studies and marketing; Population as producer and consumer; Market for consumer goods and labour market; Population Dynamics and its implications on sizes and composition of business organizations.

UNIT -2 Demographic Database

Population size, Growth rate, Sex ratio, Composition of population by age, Educational levels, Occupational categories. Household size and composition; Relevance of these factors for marketing different products.

UNIT -3 Business Organizations

Evolution, Role and functions; Marketing; Different levels; Types; Population factor in marketing activity, Life style and consumer behavior, marketing strategies.

UNIT –4 Market Analyses

Spatial distribution of population and market location; Geo-Demographic System; Geographic methods of market analysis; Size Analysis, process - product planning & market segmentation.

UNIT – 5 Marketing Research Process

Market forecast; Population projection total and sub-national; Suitable methods; Market forecast for products and activities related to children, aged and Gender specific needs.
TextT Books


Supplementary Readings


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Able to get the knowledge of population dynamics and business studies |
| CO2: | Provide an overview of demographic data base with relevance on marketing. |
| CO3: | Familiarize business organizations and its functions |
| CO4: | Bring an understanding about market analysis |
| CO5: | Highlight the marketing research process, |

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Semester- VIII

19IPOSC81: HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT
Learning Objective (LO):

The student will be able to

- Identify Human Resource Management
- Draw the relevance of training and personal development
- Develop grievance handling procedures.

UNIT–1 Human Resource Management

Concept, definition, scope and functions; human resource planning. Need and scope for human resource planning, recruitment and selection.

UNIT-2 Communication and Motivation

Communication Techniques and Barriers; Motivation theories - Maslow’s Hierarchy of Needs, Herzberg’s Two factor model, Alderfer’s E-R-G Model.

UNIT-3 Training and Development

Training and Personnel Development, training policies. Wage structure - Wages, wage fixation, allowances, bonus fixation procedures.

UNIT-4 Grievances Handling

Grievance procedure, enquiries and disciplinary action, industrial standing orders.

UNIT–5 Performance Appraisal

Personnel records, performance appraisal and counselling; Personnel Problems - Health, absenteeism, productivity.

Text Books


Supplementary Reading:

Course Outcomes

At the end of the course, the student will be able to

| CO1: Acquire the knowledge of Human Resource Management |
| CO2: Understand communication techniques and barriers through various models |
| CO3: Understand the relevance of training and personal development |
| CO4: Identify grievance handling procedures |
| CO5: Recognize personal appraisal methods |

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Semester- VIII    19IPOSC83 : MORBIDITY AND EPIDEMIOLOGY

Credits: 5

Hours: 5

Learning Objective (LO):

The student will be able to
Describe the basic concepts of mortality and changing pattern.

Explain the epidemiology and the measurements.

classify the communicable and non communicable diseases and the relevant health programs.

UNIT-I: Introduction

Morbidity: Concepts, definition Need and importance of study, sources of data, factors of disease, International classification of disease, components of disease process, monitoring and surveillance: definition, objectives, different levels of prevention of disease, changing pattern of diseases in developed and developing countries.

UNIT-2 Epidemiology

Concepts, definition, history of epidemiology, components of epidemiology, Aims of epidemiology, epidemiological approach.


UNIT-3 Epidemiology of Communicable Diseases

Definition, concepts, types of infectious diseases, determinants, Dynamics of disease transmission, modes of transmission, clinical features, Disease control measures, immunization programmes, investigation of an epidemic, screening and its uses.

UNIT-4 Epidemiology of Non-Communicable Diseases

Epidemiology of non-communicable disease: Definitions, concepts, history, types of non-communicable diseases, determinants, transmission, clinical features, signs, symptoms, risk factors, strategies for prevention & control.

UNIT-5 Health Programmes

National Vector Borne disease control programme – Malaria control activities, strategic action plan, surveillance and case management. Filarial control strategy, strategies to control Dengue, chikungunya, Leprosy eradication programme, Tuberculosis Control Programme, National AIDS control programme. in India

Text Books


**Supplementary Reading**


**Course Outcomes**

At the end of the course, the student will be able to

| CO1: Acquire the knowledge about mortality |
| CO2: Understand the measurements in epidemiology |
| CO3: Identify the communicable and non communicable diseases |
| CO4: Identify the diseases control measures |
| CO5: Enlighten the various health programmes |

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Semester- VIII  19IPOSC84: GENDER EQUITY AND WOMEN EMPOWERMENT

Credits: 5
Hours: 5

Learning Objective (LO):

The student will be able to

- Describe the gender issues and theories of feminism.
- Recognize the autonomy, empowerment and women status
- Identify the different forms of gender based violence.

UNIT -1 Gender Equity

Difference between sex and gender, Importance of the study, definition of concepts (gender, unequal gender relations, gender equity, gender disparities, gender inequalities, gender main streaming, gender sensitive planning and gender balance).

Patriarchy and Matriarchy, Kinship Structure and gender roles; Gender stratification in traditional and modern societies; Theories of feminism.

UNIT -2 Autonomy, Empowerment and Status of Women

Definition of concepts, measurement, various indicators; Status of Women and Population Dynamics: Inter-linkages; Gender Sensitive Development; Gender and Social Institutions in India; Marriage customs and patterns, dowry system, segregation and seclusion of women; Purdha system; Sex preference, Implications for sex ratio trends and patterns in India, sex selective abortion.
UNIT -3 Gender Inequalities

Gender inequalities in education, employment, decision-making, mortality (children, adults, and aged), morbidity, nutrition, and health care utilization;
Implications of gender inequalities for development - equal access to and utilization of services; equal participation in social development, equal access and control over capital for economic development; equal participation in policy and decision making process; equal distribution of political power.

UNIT -4 Gender based violence

Different forms of gender-based violence during lifetime; Gender mainstreaming, gender sensitive financing and budgeting; National and international programs, policies and laws favoring empowerment of women. National Policy of Women Empowerment.

UNIT -5 Gender Equity Approach

Right-based approach to gender equity and Reproductive Health and HIV/AIDS; Human rights related to gender, reproductive health rights; Gender as a key determinant of vulnerability to poverty, gender and HIV/AIDS vulnerability and its demographic impact;
Gender and mass media: Language, image and portrayal of women in different mass media and the changes over the time

Text Books
1. Anjali Sharma Human rights of women in India. Regal Publ. Delhi. 2013,
3. Dr. Sugitha, M. and Dr. Subramanian, C. Human Rights Aspectrum. Serials Publication, Delhi. 2015,

Supplementary Reading
1. Gupta, B.L. Women and Child Trafficking and Social work. Galary Book Company, Jaipur. 2016,
2. Rohit Balyani Women’s Economic Empowerment in India. Adhyayan Pub-Delhi. 2015,
4. R. Khanam and Rakesh Kumar Women Society and Law. Crescent Pub., Delhi. 2015,

Course Outcomes

At the end of the course, the student will be able to

| CO1: | Learn the gender issues and theories of feminism. |
| CO2: | Understand autonomy, empowerment and women status |
| CO3: | Identify gender inequalities. |
**CO4:** Enlighten the human equity approach  
**CO5:** Explore the different forms of gender based violence

## Outcome Mapping

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## ELECTIVE COURSE

**Semester- VIII**  
19IPOSE85: ELECTIVE  

**Credits:** 3  
**Hours:** 3
Learning Objective (LO):

The student will be able to

- Indicate the issues and epidemiological study designs
- Recognize the clinical trials
- Classify the infectious diseases

UNIT -1 Introduction and Measuring Health and Disease

Definition of epidemiology, historical context and contributions; Incidence, prevalence rates, attack rates, risk rates, odds ratios, absolute and relative risk.

UNIT -2 Issues and Epidemiological Study Designs


UNIT -3 Clinical Trails

Phase I, II, III, and IV trails; Randomized Control trails; Ethical Issues

UNIT-4 Modeling of Infectious Disease Process

Infectious diseases of human – malaria, tuberculosis, Hepatitis, HIV/AIDS; Deterministic modeling of infectious diseases

UNIT -5 Probit and Survival Analysis


Text Books

1. Gurumani, N An Introduction to Biostatistics. MJP Publication, Chennai. 2005,
2. Kulkarni, A.P. Basics of Bio-Statistics. CBC Publisher, New Delhi. 2016,
3. Pat Bazeley Qualitative Data Analysis Practical Strategies, Saga Publication, Delhi 2014,
Supplementary Reading


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the knowledge of measuring the health and diseases |
| CO2: | Explore the epidemiological study designs |
| CO3: | Enlighten the clinical trials |
| CO4: | Identify the modeling the infectious diseases |
| CO5: | Explain the survival analysis |

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Semester- IX 19IPOSC92: TAMIL NADU DEMOGRAPHY

Credits: 5
Learning Objective (LO):

The student will be able to

- Describe population situation and future prospects of future Tamilandu
- Recognize family welfare programmes
- Analyse socio-economic status and welfare policies

UNIT – 1 Population Situation

Tamil Nadu and Tamil Culture; Population Data availability and their quality. History of population growth, present situation and future prospects; Demographic profile of Tamil Nadu.

UNIT – 2 Mortality and Health Transition

Mortality levels, trends and differentials, in Tamil Nadu; sex, age patterns of mortality. Infant and child mortality - levels and trends; causes of death; Incidence of female feticide and infanticide Health situation, Health policies and programmes.

UNIT – 3 Fertility and Family Welfare

Fertility levels, trends and differentials in Tamil Nadu state, customs and practices affecting fertility, value of children and women status, factors responsible for the recent decline in birth rates, Family welfare programme performance, Practices related to age at marriage and MTP, Birth Averted due to family welfare programme.

UNIT – 4 Migration and Urbanization

Migration transition in Tamil Nadu; inter and intra-state migration; inter and intra-district migration factors; urbanization in Tamil Nadu: Levels and trends Problems and policies; problems of slums and related policies.

UNIT – 5 Socio-Economic Status and Policies & Programmes

Per Capita Income and Poverty - Trends policies and programmes; Literacy and Education, Trends policies and Programmes; Women's status and policies and programmes; Economic activity rates - trends, occupational categories and policies programmes; Nutritional Status; Nutrition Programmes; Suppleimntry Nutrition Programme: Applied Nutrition Programme, Chief Ministers Noon-Meal Programme, ICDS, Anganwadi and Balwadi Centres etc.

Text Books


Supplementary Reading


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Impart the knowledge of population situation and future prospects of future Tamilandu |
| CO2: | Understand the mortality levels and trends differentials |
| CO3: | Provide an overview of fertility and family welfare programmes |
| CO4: | Identify the migration transition in Tamilnadu |
| CO5: | Engage in closely analysis socio-economic status and policies & Programmes |

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Learning Objective (LO):

The student will be able to

- Estimate of population projections
- Explain the construction of life table
- Interpretate mortality estimates through various techniques

Content

1. Assessment of digit preference - Computation of Whipples' index and Myers' indexes.
2. Computation of age ratios and U.N Age Sex Accuracy Index.
4. Chandrasekar - Deming method
5. Interpolation, graphical, and mathematical methods
6. Indirect estimation of Mortality - Children ever born and children surviving
7. Population Projections by Component Methods & Mathematical Methods
8. Technique of construction of life table from age specific death rates.
9. Construction of Life table on the basis of single Census and two censuses;
10. Computation of Intrinsic Rate of Natural Increase and Construction of stable age distribution;
13. Mortality estimates from children ever born and children surviving
14. Indirect measures of internal migration: Natural growth rate method and Life Table and census survival ratio method
Learning Objective (LO):

The student will be able to

- Identify the life status of rural masses
- Design to conduct survey
- Provide policy suggestions on various issues

Course Outcomes

At the end of the course, the student will be able to

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Semester- IX 19IPOSS96: SOFT SKILLS

Credits: 3

Learning Objective (LO):

The student will be able to

- Describe personality development
- Extend communication and interpersonal skill
- Follow the employability and professional skills

UNIT -1 Soft Skills and Personality Development

Listening: Types of Listening, Effective Listening and Barriers to Listening – Assertive Communication.

UNIT -2 Communication Skills

Non-verbal Communication: Body Language and Proxemics.

UNIT -3 Interpersonal Skills

Interpersonal Skills: Relationship Development and Maintenance and Transactional Analysis.

UNIT -4 Employability Skills

Goal Setting – Career Planning – Corporate Skills – Group Discussion – Interview Skills – Types of Interview - Email Writing – Job Application – Cover Letter - Resume Preparation.

UNIT -5 Professional Skills


Text Books

Supplementary Reading


Course Outcomes

At the end of the course, the student will be able to

| CO1:   | To acquire the knowledge on soft skills and personality development |
| CO2:   | Understand the communication skills |
| CO3:   | Explain the interpersonal skills |
| CO4:   | Classify the employability skills |
| CO5:   | Identify the professional skills |

Semester- X

19IPOSC101: SOCIO-ECONOMIC AND DEMOGRAPHIC IMPLICATIONS OF HIV/AIDS

Credits: 5
Hours: 5

Learning Objective (LO):

The student will be able to
- Describe the components and determinants of reproductive health
- Recognize the levels and trends of HIV/AIDS
- Classify the role of agencies involved in HIV/AIDS control programs

UNIT - 1
Reproductive Health: Concepts, Components and reproductive health rights. Socio and cultural determinants of Reproductive Health

UNIT -2
HIV/AIDS: Definition, importance of study; Problem statement: At global and National level, Estimation of HIV infection among adult population; Mode of transfusion: Sexual transmission, Blood contact, maternal – foetal transmission, injecting drugs

UNIT -3
Diagnosis of AIDS: Clinical and Laboratory diagnosis; Prevention of HIV/AIDS: IEC strategy, Targeted intervention, Care of HIV/AIDS patients

UNIT -4
HIV Risk and vulnerability: Risk and vulnerability, High risk situation, behaviour; Health and demographic effects, Social and economic impact; Living with HIV/AIDS: Nutritional care and Support of people living with HIV/AIDS

UNIT -5
Agencies involved in HIV/AIDS programme: Governmental and Non-Governmental Organisations, Role of International originations in HIV/AIDS programme

Text Books

Supplementary Reading
1. UNAIDS 2008 Report of the global AIDS epidemic
Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the knowledge of the components and determinants of reproductive health |
| CO2: | Understand the levels and trends of HIV/AIDS |
| CO3: | Familiarize with HIV/AIDS |
| CO4: | Identify the preventive and curative steps to control HIV/AIDS |
| CO5: | Highlight the role of agencies involved in HIV/AIDS control programme |

Semester- X  19IPOSC102: POPULATION LAW AND HUMAN RIGHTS

Credits: 4
Hours: 4

Learning Objective (LO):

The student will be able to

- Label population law and its historical views
- Define UN charter of human rights
- Outline the various farms of human rights

UNIT – 1 Population Law

Meaning, definition, nature, and its scope; Relevance of legal studies to population dynamics; Need for population law; Historical and contemporary views; population law: World and in India.

UNIT – 2 Constitutional provisions

Constitutional provisions relating to population issues; legislations relating to population issues, Law-making bodies: Parliament and legislative Assembly; functions and obligations.

UNIT -3 Human Rights

Meaning, definition, nature and scope; Basic principles, Human rights and population dynamics; Historical and contemporary views on Human rights;
UNIT -4 UN and Human Rights

UN Charter of Human rights; Human rights standard setting; International bodies; Associations and Human rights; Rights and Duties; Citizen, Child, Youth, Adolescent, Adult, Married and the aged; Quality of life; Gender issues.

UNIT -5 Human Rights and Population Dynamics

Human rights and Fertility, Human rights and Mortality, Human rights and Morbidity and Health, Human rights and International Migration, Human rights and Refugees, Human rights and Reproductive Health and Abortion.

Text Books


Supplementary Reading


Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the knowledge of population law and its historical views |
| CO2: | Impart the knowledge of constitutional provision |
| CO3: | Bring an understanding of human rights |
| CO4: | Explain the UN charter of human rights |
| CO5: | Identify the various farms of human rights |

Semester- X 19IPOSC103: COMPUTER APPLICATIONS IN DEMOGRAPHIC ANALYSIS

Credits: 4
Learning Objective (LO):

The student will be able to

- Identify the aspects of computer and its applications
- Explain the internet accessing & browsing
- Develop techniques in data analysis

UNIT – 1 Introduction

Computer: importance and applications; Organization of a Computer; input, output devices; CPU, Hardware and Software; Computer packages for Demographic Analysis.

UNIT – 2 Computer Applications

Introduction to Personal Computer, Operating System - Windows, MS-Word, MS-Excel - Creating a spreadsheet, entering data, editing, preparing data sheet suitable for SPSS, saving and printing, formulae, drawing graphics, preparation of age and sex pyramid using Excel.

UNIT – 3 Internet

Internet - Basic; Accessing & Browsing, E-mail Messaging (sending, receiving) techniques of searching, e. book; POPLINE - Bibliographical database.

UNIT – 4 Techniques of Data Analysis - I


UNIT – 5 Techniques of Data Analysis - II


Text Books


Supplementary Reading
Course Outcomes

At the end of the course, the student will be able to

| CO1: | Acquire the knowledge of basic aspects of computer and importance |
| CO2: | Understand the computer application and operating systems. |
| CO3: | Explore the internet accessing & browsing |
| CO4: | Bring an understanding of techniques of data analysis |
| CO5: | Understand the software for multivariate analysis |

Semester- X  19IPOSC104: PROJECT AND VIVA-VOCE

Credits: 5
Hours: 5

Learning Objective (LO):

The student will be able to

- Define Field Study and methods to evaluate a task.
- Recognize the conclusions from the findings.
- Determine to contribute for research

Field Trip Submission of Dissertation

Course Outcomes

At the end of the course, the student will be able to

| CO1: | Develop in-depth knowledge of Field Study. |
| CO2: | Understand the plan and use adequate methods to evaluate a task. |
| CO3: | Acquire the capability to present and discuss the conclusions from the findings |
| CO4: | Attain capability to contribute to research |
UNIT - I
Scientific Research and Hypothesis


UNIT - II
Research Design and Sampling Techniques

Research Design: Meaning, importance and Types: Exploratory, Descriptive and Experimental; Method of investigation: Social Survey method, Experimental methods, Statistical methods, Case study method; Sampling techniques: Meaning, Definition, Need; Types of Probability: Single, Random, Systematic and Stratified, cluster, multistage Non-Probability Sampling: purposive, quota, snow ball etc.

UNIT - III
Data Collection and Scaling Techniques

Data Collection: Type of data: Primary and Secondary; Method of data collection; Observation: Participant and Non-participant, Interview Technique, Focus Group Discussion, Case Study, Tools of data collection: Schedule and Questionnaire; Construction Problems; Advantages and disadvantages; Scaling Techniques: Problems of Measurement; Types of Scales used in Social Research; Organization of Field Survey and Data Collection.

UNIT - IV
Processing and Analysis

Editing, Coding and Tabulation; Analysis of data; The use of Computer Choice of Statistical tools;

UNIT - V
Interpretation and Report Preparation

Interpretation of results and Report Writing; Purpose, Writing style and content; Uses of reference materials; Bibliography and its compilation; Research Proposals preparation; Techniques of Preparation of research article.
REFERENCES:


* May be treated as text book.
UNIT I- Statistical Demography-Meaning and Scope

Meaning and Scope,

UNIT II- Fertility Analysis

Measures of Fertility:- Crude Birth Rate, General Fertility Rate, Age Specific Fertility Rate, Total Fertility Rate, Gross Reproduction Rate, Net Reproduction Rate, Standardised Fertility Measures, Cohort Measures. Indirect methods for estimating fertility.

UNIT III- Mortality Analysis

Measures of Mortality:- Crude Death Rate, Age Specific Death Rate, Infant Mortality Rate, Standardised death rate, standardised infant mortality rate. Life Table: - Complete and Abridged, Construction of Abridged Life Table. Uses of Life Tables

UNIT IV- Migration Analysis

Measures of Migration: - Crude Migration Rate, Age Specific Migration Rate, Migration Stream, efficiency of migration streams. Indirect estimation of internal migration: - National Growth rate method, vital statistics method, Census survival ratio method and Life table Survival ratio method.

UNIT V- Population Estimation and Projection


REFERENCES:

3. Relevant U.N. Manuals
UNIT I: Basic Aspects

Concepts and measures of ageing. Components of population ageing and their inter-relation with age structure; Ageing trends and patterns in India.

UNIT II: Social Aspect of Ageing

Social Status and Roles of Elderly, Family Structure, Intergenerational relations, Kinship and family support, Social Security; Living Arrangements of Elderly, Old Age Homes, Social Networks, and Contribution of elderly; Dependency, Gender Dimensions and Discrimination, Widows, elderly abuse, Vulnerability, Legislations to protect elderly in India.

UNIT III: Economic aspects of Ageing Population

Implications of population ageing on labor force, pressures on public finance - government health expenditure, health insurance and health financing for elderly, health care costs, housing, pension and social security.

UNIT IV: Health Aspects of Ageing

Ageing and life expectancy, pattern of mortality, health adjusted life expectancy; Ageing and burden of chronic diseases, burden of non-communicable diseases, disabilities, mental health problems, cognition and memory loss; Ageing and health risk factors - nutrition, diet and physical activities; Ageing health care utilization, public and private health services availability and accessibility, institutional care, health care costs.

UNIT V: Policies and programmes for Ageing


REFERENCES:

UNIT -I: Mortality and health transitions

Levels and trends in mortality by regions, with special reference to India; age and sex specific mortality with a focus on excess female mortality; differentials by residence and socio-economic factors (occupation, income, education, etc); historic mortality transitions as experienced by developed countries (Europe); Factors responsible for mortality transition; Prospects for transition in developing countries including India; Relationship between mortality and health transition.

UNIT -II: Theories of Mortality and Child survival framework

Theories: Benjamin Gompertz law, Makeham’s law, Perks law and Beard’s law.
Estimation of Child Mortality rates using data classified by age and duration of marriage.
Mahadevan’s conceptual model on mortality; Mosely and Chan’s Conceptual Model on the Child Survival.

UNIT -III: Causes of death

Importance of causes of death statistics; definition and sources of causes of death statistics; a brief history of the International statistical classification of diseases, injuries and causes of death (ICD); an overview of ICD – X (1990); global leading causes of death (with a focus on Asia and India); cause of death statistics in India (RG: Rural and MCCD); distribution of deaths by main causes by age, development, life expectancy (UN).

UNIT -IV: Morbidity and Disease Burden

Need and importance of the morbidity study; sources of morbidity data; concepts and definitions of health and morbidity; conditions as proposed by WHO and other social scientists.
Need for morbidity indices; various measures of morbidity: incidence and prevalence rates; interrelationships between measures of morbidity; other measures related to working day loss etc.
Burden of Diseases: Need for the study; basic concepts; measurement and current global scenario.

UNIT -V: Public Health and Epidemiology

Basic concepts of community health; principles of Epidemiology- basic concepts and definitions; types of Epidemiology: descriptive and analytical; epidemiology of communicable and non-communicable diseases; Disease cycle, Spectrum of disease, Levels of prevention, Sources of infection and modes of transmission; Pathogenesis of causes of death (sexually transmitted Diseases); nutrition and health, environment and health; occupation and health.

REFERENCES:


IPDC – 75: ELECTIVE
UNIT – I: Introduction

Meaning, Scope and Nature, Relevance of Population Dynamics in business studies and marketing; Population as producer and consumer; Market for consumer goods and labour market; Population Dynamics and its implications on sizes and composition of business organizations.

UNIT – II: Demographic Database

Population size, Growth rate, Sex ratio, Composition of population by age, Educational levels, Occupational categories. Household size and composition; Relevance of these factors for marketing different products.

UNIT – III: Business Organization

Evolution, Role and functions; Marketing; Different levels; Types; Population factor in marketing activity, Life style and consumer behavior, marketing strategies.

UNIT – IV: Market Analysis

Spatial distribution of population and market location; Geo-Demographic System; Geographic methods of market analysis; Size Analysis, process - product planning & market segmentation.

UNIT – V: Marketing Research Process

Market forecast; Population projection total and sub-national; Suitable methods; Market forecast for products and activities related to children, aged and Gender specific needs.

REFERENCES:

   * May be treated as text book.
IPDC - 82: HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT

Objectives
To teach the students the importance of human resources in the developmental process.

UNIT–I


UNIT–II

Communication and Motivation - Communication Techniques and Barriers; Motivation theories - Maslow’s Hierarchy of Needs, Herzberg’s Two factor model, Alderfer’s E-R-G Model.

UNIT–III


UNIT–IV

Grievances Handling - Grievance procedure, enquiries and disciplinary action, industrial standing orders.

UNIT–V

Performance Appraisal - Personnel records, performance appraisal and counselling; Personnel Problems - Health, absenteeism, productivity.

TEXT BOOKS


REFERENCES:


IPDC – 83: ADVANCES STUDIES IN MORTALITY & EPIDEMIOLOGY

UNIT – I: Mortality

Levels and trends in mortality by regions, with special reference to India; age and sex specific mortality with a focus on excess female mortality; differentials by residence and socio-economic factors (occupation, income, education, etc); mortality transitions as experienced by developed countries (Europe); Factors responsible for mortality transition; Prospects for transition in developing countries including India.

UNIT - II: Theories of Mortality

Theories: Benjamin Gompertz law, Makeham’s law, Perks law and Beard’s law.
Estimation of Child Mortality rates using data classified by age and duration of marriage. Mahadevan’s conceptual model on mortality; Mosely and Chan’s Conceptual Model on the Child Survival.

UNIT – III: Causes of death

Importance of causes of death statistics; definition and sources of causes of death statistics; a brief history of the International statistical classification of diseases, injuries and causes of death (ICD); an overview of ICD – X (1990); global leading causes of death (with a focus on Asia and India); cause of death statistics in India (RG: Rural and MCCD); distribution of deaths by main causes by age, development, life expectancy (UN).

UNIT – IV: Morbidity

Need and importance of the morbidity study; sources of morbidity data; concepts and definitions of health and morbidity; conditions as proposed by WHO and other social scientists. Need for morbidity indices; various measures of morbidity: incidence and prevalence rates.

UNIT – V: Epidemiology

Principles of Epidemiology- basic concepts and definitions; types of Epidemiology: descriptive and analytical; epidemiology of communicable and non-communicable diseases; Disease cycle, Spectrum of disease, Levels of prevention, Sources of infection and modes of transmission; Pathogenesis of causes of death (sexually transmitted Diseases).
REFERENCES:
IPDC – 84: GENDER ISSUES AND WOMEN EMPOWERMENT

UNIT I: Gender Issues

Difference between sex and gender, Importance of the study, definition of concepts (gender, unequal gender relations, gender equity, gender disparities, gender inequalities, gender main streaming, gender sensitive planning and gender balance).

Patriarchy and Matriarchy, Kinship Structure and gender roles; Gender stratification in traditional and modern societies; Theories of feminism.

UNIT II: Autonomy, Empowerment and Status of Women

Definition of concepts, measurement, various indicators; Status of Women and Population Dynamics: Inter-linkages; Gender Sensitive Development; Gender and Social Institutions in India; Marriage customs and patterns, dowry system, segregation and seclusion of women; Purdha system; Sex preference, Implications for sex ratio trends and patterns in India, sex selective abortion.

UNIT III: Gender inequalities

Gender inequalities in education, employment, decision-making, mortality (children, adults, and aged), morbidity, nutrition, and health care utilization;

Implications of gender inequalities for development - equal access to and utilization of services; equal participation in social development, equal access and control over capital for economic development; equal participation in policy and decision making process; equal distribution of political power.

UNIT IV: Gender Equity Approach

Right-based approach to gender equity and Reproductive Health and HIV/AIDS; Human rights related to gender, reproductive health rights; Gender as a key determinant of vulnerability to poverty, gender and HIV/AIDS vulnerability and its demographic impact;

Gender and mass media: Language, image and portrayal of women in different mass media and the changes over the time

UNIT V: Gender based violence

Different forms of gender-based violence during life time; Gender mainstreaming, gender sensitive financing and budgeting; National and international programme, policies and laws favoring empowerment of women. National Policy of Women Empowerment.

REFERENCES:

IPDC – 85: ELECTIVE
IPDC – 91: BIOSTATISTICS

UNIT I:
Introduction and Measuring Health and Disease

Definition of epidemiology, historical context and contributions; Incidence, prevalence rates, attack rates, risk rates, odds ratios, absolute and relative risk.

UNIT II:
Issues and Epidemiological Study Designs


UNIT III:
Clinical Trails

Phase I, II, III, and IV trails; Randomized Control trails; Ethical Issues

UNIT IV:
Modeling of Infectious Disease Process

Infectious diseases of human – malaria, tuberculosis, Hepatitis, HIV/AIDS; Deterministic modeling of infectious diseases

UNIT V:
Probit and Survival Analysis


REFERENCES:

IPDC - 92: TAMIL NADU DEMOGRAPHY

UNIT - I
Population Situation

Tamil Nadu and Tamil Culture; Population Data availability and their quality. History of population growth, present situation and future prospects; Demographic profile of Tamil Nadu.

UNIT - II
Mortality and Health Transition

Mortality levels, trends and differentials, in Tamil Nadu; sex, age patterns of mortality. Infant and child mortality - levels and trends; causes of death; Incidence of female feticide and infanticide Health situation, Health policies and programmes.

UNIT - III
Fertility and Family Welfare

Fertility levels, trends and differentials in Tamil Nadu state, customs and practices affecting fertility, value of children and women status, factors responsible for the recent decline in birth rates, Family welfare programme performance, Practices related to age at marriage and MTP, Birth Averted due to family welfare programme.

UNIT - IV
Migration and Urbanization

Migration transition in Tamil Nadu; inter and intra-state migration; inter and intra-district migration factors; urbanization in Tamil Nadu: Levels and trends Problems and policies; problems of slums and related policies.

UNIT - V
Socio-Economic Status and Policies & Programmes

Per Capita Income and Poverty - Trends policies and programmes; Literacy and Education, Trends policies and Programmes; Women's status and policies and programmes; Economic activity rates - trends, occupational categories and policies programmes; Nutritional Status; Nutrition Programmes; Suppliemntry Nutrition Programme: Applied Nutrition Programme, Chief Ministers Noon-Meal Programme, ICDS, Anganwadi and Balwadi Centres etc.

REFERENCES:


* May be treated as text book.
**Overall Objectives:** To Train in various techniques of demographic tools and procedures and develop skills to apply them in appropriate situation.

1. Technique of construction of life table from age specific death rates.
2. Construction of Life table on the basis of single Census and two censuses;
3. Computation of Intrinsic Rate of Natural Increase and Construction of stable age distribution;
5. Standardization of birth rates and death rates and infant mortality rates.
7. Indirect measures of internal migration: Natural growth rate method and Life Table and census survival ratio method.
8. Computation of population growth rates and fitting population growth curves: Linear, Geometric, exponential and calculation of doubling time and location of events in time.
9. Population projection under mathematical method
10. Population projection under component method
OBJECTIVES:

1. To help understand the demographic, socio-economic, health, nutritional, habitat status of rural areas.
2. Providing practical training in designing, conducting and analyzing survey data and
3. To formulate and provide community education on various issues.

TASKS:

1. To plan and conduct a census survey of all the households in one Panchayat ward, demographic, socio-economic, health, nutritional and habitat characteristics of the households and felt needs of the community.
2. To analyse and interpret the data.
3. To formulate educational themes for the community.
4. To derive policy implications and provide a link between the community and services providers.
ISSC-96: Soft Skills

Objective:
To train students in soft skills in order to enable them to be professionally competent.

UNIT -I: Soft Skills and Personality Development

Listening: Types of Listening, Effective Listening and Barriers to Listening – Assertive Communication.

UNIT -II: Communication Skills

Non-verbal Communication: Body Language and Proxemics.

UNIT -III: Interpersonal Skills

Interpersonal Skills: Relationship Development and Maintenance and Transactional Analysis.

UNIT -IV: Employability Skills

Goal Setting – Career Planning – Corporate Skills – Group Discussion – Interview Skills – Types of Interview - Email Writing – Job Application – Cover Letter - Resume Preparation.

UNIT -V: Professional Skills


REFERENCES:


UNIT - I
Reproductive Health: Concepts, Components and reproductive health rights. Socio and cultural determinants of Reproductive Health

UNIT - II
HIV/AIDS: Definition, importance of study; Problem statement: At global and National level, Estimation of HIV infection among adult population; Mode of transfusion: Sexual transmission, Blood contact, maternal – foetal transmission, injecting drugs

UNIT - III
Diagnosis of AIDS: Clinical and Laboratory diagnosis; Prevention of HIV/AIDS: IEC strategy, Targeted intervention, Care of HIV/AIDS patients

UNIT - IV
HIV Risk and vulnerability: Risk and vulnerability, High risk situation, behaviour; Health and demographic effects, Social and economic impact; Living with HIV/AIDS: Nutritional care and Support of people living with HIV/AIDS

UNIT - V
Agencies involved in HIV/AIDS programme: Governmental and Non-Governmental Organisations, Role of International originations in HIV/AIDS programme

REFERENCES:
1. UNAIDS 2008 Report of the global AIDS epidemic
3. Park and Park

IPDC - 102: POPULATION LAW AND HUMAN RIGHTS

UNIT – I: Population Law
Meaning, definition, nature, and its scope; Relevance of legal studies to population dynamics; Need for population law; Historical and contemporary views; population law: World and in India.

UNIT – II: Constitutional provisions

Constitutional provisions relating to population issues; legislations relating to population issues, Law-making bodies: Parliament and legislative Assembly; functions and obligations.

UNIT – III: Human Rights

Meaning, definition, nature and scope; Basic principles, Human rights and population dynamics; Historical and contemporary views on Human rights;

UNIT – IV: UN and Human Rights

UN Charter of Human rights; Human rights standard setting; International bodies; Associations and Human rights; Rights and Duties; Citizen, Child, Youth, Adolescent, Adult, Married and the aged; Quality of life; Gender issues.

UNIT – V: Human Rights and Population Dynamics

Human rights and Fertility, Human rights and Mortality, Human rights and Morbidity and Health, Human rights and International Migration, Human rights and Refugees, Human rights and Reproductive Health and Abortion.

REFERENCES:
   * May be treated as text book.

IPDC - 103: COMPUTER APPLICTION IN DEMOGRAPHIC ANALYSIS

UNIT – I
Introduction

Computer: importance and applications; Organization of a Computer; input, output devices; CPU, Hardware and Software; Computer packages for Demographic Analysis. Mortpack
UNIT – II
Computer Applications

Introduction to Personal Computer, Operating System - Windows, MS-Word, MS-Excel - Creating a spreadsheet, entering data, editing, preparing data sheet suitable for SPSS, saving and printing, formulae, drawing graphics, preparation of age and sex pyramid using Excel.

UNIT - III
Internet

Internet - Basic; Accessing & Browsing, E-mail Messaging (sending, receiving) techniques of searching, e.book; POPLINE - Bibliographical database.

UNIT – IV
Techniques of Data Analysis - I


UNIT – V
Techniques of Data Analysis - II


REFERENCES:

IPDC - 104: PROJECT and VIVA-VOCE

ELECTIVES OFFERED

19IPOSX75 POPULATION AND HEALTH RESEARCH (3 CREDITS)

UNIT-I: Social Research

Scientific Method; Types of research: Pure, Applied and Action Research; Theory and facts; Major steps in Social Research; Selection of research problems, Formulation of Hypothesis.

UNIT-II: Research Design and Sampling

Research Design; Sampling techniques: Data collection: methods and tools; data processing, Scaling techniques, qualitative and quantitative methods

UNIT-III: Interpretation and Report Writing
Interpretation of results and report writing; Purpose of a Report, Writing style and content; Uses of reference materials; Bibliography and its compilation; Research Proposals preparation; Preparation of Manuscripts for a Scientific Journal.

UNIT-4: Integrating theory and methods in health research

A Theoretical basis for research on health; Integrating theory and Methods in population health research; age, period and cohort analyses of health-related behaviour; Intraindividual variability: Methodological issues for population health research.

UNIT-V: Index scales and statistical modeling

A methodological approach for assessing the stability of variables used in population research on health; validation of index scales for analysis of survey data: the symptom index; graphical interaction models: a new approach for statistical modeling.

REFERENCES:

7. P.V Young, Scientific Social Survey and Research (New York: Prentice Hall, 1949)

19IPOSX85 POPULATION DYNAMICS (3 CREDITS)

UNIT-I: Demography

Nature and Scope, Interdisciplinary Nature; Determinants of population change; sources of demographic data: Population Census, Registration systems, sample surveys, Secondary sources; population growth, population structure and characteristics in India.

UNIT-II: Fertility

Fertility, concepts, Basic measures of fertility. Fertility trends and differentials in India. Factors affecting fertility: Davis-Blake and Bongarts models; Theories of fertility: Threshold hypothesis and Social Capillarity theory and Theory of Demographic Transition;

UNIT-III: Mortality

Mortality: concepts, factors, basic measures of mortality; infant mortality: meaning, measures, factors affecting infant mortality; Mortality trends and differentials in India; Life Table: meaning, functions, and uses.

UNIT-IV: Migration and Urbanization
Migration: Meaning, concepts, types of Migration, migration streams, characteristics of migrants, trends in internal migration; Migration theories; urbanization: concepts, measures; levels, trends and differentials; problems of over urbanization;

UNIT-V: Population Policies and Programmes

Population Policy: goals and objectives; types: Population responsive policies; mortality, migration and fertility influencing policies: Pro-natalist and anti-natalist policies: direct and indirect policies; Population policy in India; Family Welfare Programmes: approaches, targets and achievements; Reproductive and Child health components.

REFERENCES:

Design, Structure, Principles, formal/informal types, Coordination within and outside. Span of control, centralization and decentralization, Staffing, job description, outlining role and responsibilities, Training, Placement and Evaluation.

UNIT – IV: Health Care Service

Preventive, promotive and curative services: Approaches adults in health care service: Risk and Epidemiological Health care services for Mother, adults and aged population & Children, industrial workers, Health legislation and social welfare.

UNIT – V: Health Programmes


REFERENCES:

- *Dutt P.R., rural Health Service in India, Primary Health Services (H.E.P, 1965).
- *Park J.E., Park K, Preventive and Social Medicine (Jabalpur Bannersidas Bhanot and company Ltd., 1995).

19IPOSX04 TAMIL NADU DEMOGRAPHY

UNIT – I: Population Situation

Tamil Nadu and Tamil Culture; Population Data availability and their quality. History of population growth, present situation and future prospects; Demographic profile of Tamil Nadu.

UNIT – II: Mortality and Health Transition

Mortality levels, trends and differentials, in Tamil Nadu; sex, age patterns of mortality. Infant and child mortality - levels and trends; causes of death; Incidence of female feticide and infanticide Health situation, Health policies and programmes.

UNIT – III: Fertility and Family Welfare
Fertility levels, trends and differentials in Tamil Nadu state, customs and practices affecting fertility, value of children and women status, factors responsible for the recent decline in birth rates, Family welfare programme performance, Practices related to age at marriage and MTP, Birth Averted due to family welfare programme.

UNIT – IV: Migration and Urbanization

Migration transition in Tamil Nadu; inter and intra-state migration; inter and intra-district migration factors; urbanization in Tamil Nadu: Levels and trends Problems and policies; problems of slums and related policies.

UNIT – V: Socio-Economic Status and Policies & Programmes

Per Capita Income and Poverty - Trends policies and programmes; Literacy and Education, Trends policies and Programmes; Women's status and policies and programmes; Economic activity rates - trends, occupational categories and policies programmes; Nutritional Status; Nutrition Programmes; Suppleiemntry Nutrition Programme: Applied Nutrition Programme, Chief Ministers Noon-Meal Programme, ICDS, Anganwadi and Balwadi Centres etc.

REFERENCES:


UNIT – I: Ecology and Eco-System

Ecology and Ecosystem; Human Geography and its relevance to Population Studies; Residential and Social Environment: Elements of Social Environment; Patterns of Social contact, Examination of the relationship among these factors. Human Ecology and its relevance to population studies.

UNIT – II: Population Distribution

Special distribution of population: Importance of the study, measures of density, factors affecting special distribution. Population distribution in India and in the World.

UNIT – III: Land and other Resources

Land use: Changing patterns, conservation and management of resources. Policies and programmes for better management.

UNIT – IV: Environmental Degradation

Environmental crisis; Air-pollution, water pollution and Noise pollution depletion of biotic resources, ecological imbalances etc.

UNIT – V: Population Growth and Ecological imbalance

Global warming, Green house effect, El-nino effect, Soil erosion, Deforestation Desertification, Salinity and water logging. Man's Perception and adjustment to ecological imbalances;

REFERENCES:

