

NORTH MAHARASHTRA UNIVERSITY, JALGAON  
SYLLABUS FOR M.A./M.Sc. GEOGRAPHY PART-I  
(w.e. From June, 1997)

SEMESTER-I

COURSE - Ge.: 101 PRINCIPLE OF ECONOMIC GEOGRAPHY

- 1) Introduction to Economic Geography  
Nature, Scope of Eco.Geography.  
Meaning, Dynamic nature scope and Approaches of Eco. Geography. (4)
- 2) Economic Landscape  
i) Historical Evolution.  
ii) Location of Economic activity.  
Homstead, Tribal & village economy, Modern Economic landscape and Von Thuen and webers models.. (6)
- 3) Factors of Production and related aspects.  
i) Land, Labour, & capital  
Significance of land, labour & capital in different economic activities, spatial variation in the factor. cost.  
ii) Economies of scale & growth poles  
External & External economies of scale.. (10)
- 4) Transportation  
Various types of transportation  
Variation in cost of transportation spatial variation in demand. (4)
- 5) Economic Development  
i) Spatial & Temporal views of economic development.  
ii) Models of economic development.  
Measures of economic development, classification of countries.  
i) Rostow's model, ii) Myrdal's model (8)
- 6) The Economic Environment  
Economic environment & economic development in the world.  
i) Technically advanced countries,  
ii) Less developed countries. (4)
- 7) International Trade  
Spatial & Temporal Aspects.  
Factors Promoting international trade, Structure, Problems & prospects, Records Theory of International trade.

**BOOKS :-**

- 1) Hartshorne, T.A. and J.W. Alexander (1988) Economic Geography; Prentice Hall.
- 2) Janaki, V.A. (1985) Economic Geography, Concept Publishing Co.
- 3) Lloyd, P, and P, Dicken (1972) - Location in space : A theoretical approach to Economic Geography. Harper and Row, New York.
- 4) McCarty, H.H. and J.B. Lindberg (1966) - A Preface to Economic Geography, Englewood Cliffs, N.J. Prentice.
- 5) Thoman, Conkling and Yeates (1974) Geography of Economic Activity, McGraw Hill, New York.
- 6) Knox, P and J. Agnew (1990) The Geography of the World Economy.

**COURSE Gg.102 PRINCIPLES OF POPULATION AND SETTLEMENT GEOGRAPHY**

- 1) Introduction to population Geography.  
Nature, scope to population Geography.  
Meaning, objectives, Nature and Scope of population Geography  
Various approaches of study, sources of data Indian census. (4)
- 2) History of world population.  
Population distribution in different stages  
a) Man's evolution.  
b) Civilization. (4)
- 3) Population distribution  
A) Factors influencing the distribution of population  
A) Physical, B) Economic, C) Historical,  
D) Social & Cultural, E) Demographic, F) Political factors. (4)  
B) i) History of world of population growth  
Various stages of population growth concept, scope & application & relevances. (2)  
ii) Models of Population growth  
Demographic Transition model. (2)
- C) Population Theories.  
a) Malthusian Theory, b) Marxian Theory. (4)
- 4) Introduction to settlement Geography.  
Nature, scope and Evolution of Settlement Geography. (3)  
Definition, objectives, nature, scope of settlement geography and Evolution of settlement geography. (1)
5. Settlement patterns  
Changes patterns of settlement  
a) Evolution of human settlement science the dawn of civilization.  
b) Various patterns of settlement  
c) Effect of technology on shelter and pattern from Neolithic to Modern (6)

6. Dispersion and Nucleation  
 Factors influencing the dispersion and nucleation  
 a) Physical  
 b) Economic  
 c) Social and cultural  
 d) Methods to measure degree of dispersion Nearest neighbour method. (4)
7. Concepts related to settlements
- i) Settlement Theories  
 a) Christaller Theory                      b) Losch's model (3)
- ii) Various concepts  
 a) Nodality  
 b) Methods of measuring centrality  
 c) 'K' Model  
 d) Range  
 e) Threshold and Hierarchy  
 f) Rank size distribution  
 g) Rural service centres  
 h) Urban centres. (4)

### Books

1. Garnier - B. J. Geography of Population Longman Group Ltd. London 1966.
2. Chandana R.C. A Geography of Population, concepts, Determinants and patterns, Kalyani Publishers. New Delhi 1986.
3. Clark J.I. Population Geography (Second edition) Pergamon Press Ltd. Oxford 1972.
4. Clark J.I. (edited) Geography of population Approaches and applications Pergamon Press, Oxford 1984.
5. M.G. Bradford and W.A. "Human Geography" Theories and their applications, Oxford University Press.
6. L.S. Bourne R. Sinclair "Urbanization and K. Dziewonski (ed-1984) Settlement Systems, International perspectives, Oxford University Press.
7. F.S. Hudson (1777) "Geography of Settlements" MacDonal and Evans.
8. R.B. Mandal (1979) "Introduction to rural settlements" Concept Publishing Company, New Delhi.
9. R.P. Mishra (General Editor) K.V. Sundaram Sudesh Nagia (Eds. 1983) Population Geography, Heritage Pub. New Delhi.
10. R.P. Mishra (General Editor) K.V. Sundaram Sudesh Nagia (eds 1983) contributions to Indian Population Geography. Heritage Pub. New Delhi.
11. Charles whyne. Hammanond (1979) "Elements of Human Geography", George Allen and Union London.

1. Introduction  
Environmental Science An overview  
a) Definition  
b) Nature & Scope  
c) Various approaches of study  
    i) Environmental Deterministic Approach  
    ii) Possibilistic Approach  
    iii) Ecological Approach
  
2. Ecology of natural system  
a) Introduction  
b) Ecosystem  
    i) Definition, Nature & scope of ecology  
    ii) Components of ecosystem  
    iii) Functions of ecosystem  
    iv) Energy exchange in ecosystem  
    v) Nutrient cycling-carbon, Nitrogen and phosphorous. (8)
  
3. Environmental Resources  
a) Classification  
    i) Conventional  
    ii) Non conventional  
  
    Conventional Resources  
    i) Forest  
        Utilization and environmental degradation.  
  
    ii) Water  
        Natural water cycle, ground water resources utilization  
        of water resource and Need of conservation.  
  
    iii) Soil  
        Utilization, soil erosion and degradation,  
        desertification and conservation of soil. (4)
  
    b) Non-conventional energy resources (2)  
  
        Energy from sun, plants, wind, wave and earth.  
4. Pollution  
Meaning & Types of Pollution  
  
Definition, factors of pollution & types of pollution.  
  
i) Air  
  
Source of air pollution, types of air pollution, Pollution smogs  
and acid rain, effects of air pollution and control of air  
pollution.  
  
ii) Water  
  
Definition - Source of waste pollutants, nature and types of  
water pollution, Inland water pollution, Ground water pollution  
ocean water pollutions, effect of water pollution and control of  
water pollution.  
  
iii) Solide waste  
  
Defination - Sources, types of solidwast substances, Disposal on  
land and in occan, Energy from rfuse, Recycling and managemet of  
solidwastes.

iv) Noise

Definition - measurement of noise level, sources of noise pollution, Types of noise pollution, effects of noise pollution and control of noise pollution.

[12]

5. Environmental problems

- i) Global warming -
- ii) Acid Rain -
- iii) Depletion of ozone -

[3]

6. Environmental planning

Environmental Management.  
Concept and approaches to environment, Resource management

[2]

7. Environmental impact assessment

Case studies

- i) Sarada Sarovar project
- ii) Tehri High-Dam project
- iii) Trans Alaskea pipeline

(3)

Books -

- 1) Environmental Science : Turk and Turk. Witness and Witness, London.
- 2) Introduction to Environmental Studies : Truk Jonathan.
- 3) Environmental Geography : Savindra Singh, Prayag Bhavan, Allahabad.
- 4) Environmental Science : Nebet
- 5) Applied Geomorphology : Hart M.J.
- 6) Applied Geomorphology : Hails and Carr.

Course Gg : 104 Physical and Regional Geography of India

1. Physical setting

i) Location and geological structure

- a) Location, space relations and geopolitical importance
- b) Geological structure

(2)

ii) Physiographic : Relief and drainage

Relief and drainage of the triple tectonic divisions

- 1) The Northern mountainous
- 2) The Northern great plains
- 3) The peninsular plateau and The coastal plains

(6)

iii) Climate

- 1) Meaning and genesis of the Indian monsoon with reference to recent views.
- 2) Rhythm of seasons -
  - i) The seasons of hot and dry weather.
  - ii) The monsoon (The season of hot and wet weather.
  - iii) The season of retreating monsoons
  - iv) The season of cool weather.

(4)

- iv) Soils.
  - i) Soils types and distribution of soils.
  - ii) Soils degradation (their related problems)
  - iii) Soil conservation (Controlling measures)
- v) Natural vegetation
  - i) Classification of vegetation
  - ii) Forest types
  - iii) Importance of forest cover by economics, climate & erosion. (3)
- vi) The unity in diversity
  - The unity in diversity of physical environment. (1)

## 2. Economics Geography

- A) Agriculture
  - i) Agriculture as main economic activity.
  - ii) Development of agriculture in India.
  - iii) Agricultural Regions.
  - iv) Problems and achievements in the Indian agriculture (4)
- B) Minerals and Energy Resources
  - Distribution and their role in industrial development (2)
- C) Industries
  - 1) Their role in Indian economy
  - 2) Major Industrial Regions of India
  - 3) Major Industries
    - a) Cotton textile
    - b) Sugar Industry
    - c) Iron & steel
    - d) Ship-building (6)
- D) Trade
  - Internal & foreign trade of India Balance of Trade. (3)

## 3. Human Geography

- Population
  - i) Distribution and density of Population
  - ii) Population Regions.
  - iii) Problems of Indian Population
  - iv) The role of languages and religious in the national integration.
  - v) The unity in diversity of social environment. (5)

## Text Books :

- 1) National Atlas of India Vol. I to VII
- 2) Agriculture Atlas of India - Jasbir Singh
- 3) Regional Geography of India - R.L. Singh
- 4) Economic and commercial Geography of Indian - Sharma T.C.
- 5) Economic Geography of India - Mamoia C.B.
- 6) Industrial Geography - B.N. Sinha
- 7) India's water wealth - Y.K.R.V. Rao.
- 8) Geography of Resources - B.N. Negi.
- 9) Geography of states series - N.B.T. Publication
- 10) Population Geography - S.B. Sawant
- 11) Regional Geography of India Deshpande C.D.
- 12) India's population problems - Agrawal

Course Gg: 105 - Practical in Human Geography

A. Economic Geography

- i) Crop combination analysis  
Weaver, Thomas, Rafiullah's method and Dio's method
- ii) Index of concentration and diversification  
Bhattia's method
- iii) Measurement of Agricultural efficiency  
Kendall and Bhatia's method
- iv) Measurement of Industrial activity  
Location quotient and Lorenz Curve.
- v) Measures of level of Industrialization  
R.E.Medal's Method
- vi) Graph theoretic measures of transport network.  
Ratio measures alpha, beta, gamma, etc. associated number.
- vii) Connectivity Index  
King numbers

[20]

B. Population Geography

- Age-Sex pyramids, Child- Woman ratio, Net Reproductive Rate  
Dependency ratio Infant mortality rate. Population growth rate  
(NGR & AGR)

[8]

C. Settlement Geography

- i) Methods used to calculate degree of dispersion  
Damangeon, Bernard, Debouverie.
- ii) Nearest neighbour analysis  
Clark and Evan's method.
- iii) Gravity model
- iv) Rank - Size rule
- v) Functional classification of towns  
H.J.Nelson and (D.Harris method
- vi) Delimitation of C.B.D.  
Murphy Vance method
- vii) Calculation of centrality  
Christaller's method of central places, Devies method

(12)

Books :-

- 1) Statistics for Geography and social science - R.B. Mandal
- 2) Map & diagram - Monkhouse
- 3) Agricultural Geography - Masid Husain
- 4) The study of Urban Geography, Edward Arnold.
- 5) Fundamentals of Demography, Surjeet Publicators. Delhi Hans Raj (1978)
- 6) Hudson F.S. (1976) Geography of Settlements, Macdonald and Evans.
- 7) Michael E. and Eliot Hurse (ES) - Transportation Geography Comments and Readings.
- 8) Pollard, A.H. Farhat Yusuf and Polan L.N. (1974) - Demographic Techniques, Pergamon Press, Australia.
- 9) Singh R.L. - Reading in "Rural Settlement Geography".
- 10) Yeats, M.H. - An Introduction in Quantitative Analysis in Human Geography, McGraw Hill, New York.
- 11) Sing J. and Dillon S.S. (1984) - Agricultural Geography, Tata Hill Publishing Co. Ltd.

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