

University of Pune

M.Phil. Geography Syllabus

Paper I : Major Concepts in Geography

Credits - 3

| Sr. No | Topic | Learning Points | Credits |
|--------|---|---|----------------------|
| 1 | Concepts in Economic Geography | 1. Significance of Natural and Human resources in Economic Development Theories of Industrial Location 2. Economic Regions and Regionalisation | 02 02 02 |
| 2 | Fundamental Concepts in Agricultural Geography | 1. Major agricultural types of the world and their characteristics and world distribution 2. Specific problems in Indian agriculture and their management and planning 3. Von Thunens model of Agricultural Landuse | 02 02 02 |
| 3 | Rural Settlements and concepts in Urban Geography | 1. Christallars central place theory 2. Settlement theory 3. Rural Urban Fringe 4. Problems of Urbanization with reference to India | 02 01 01 02 |
| 4 | Population Theories | 1. Population as resource (Size, Growth, Age, Education) 2. Demographic transition model 3. Problems of overpopulation with reference to India | 02 02 02 |
| 5 | Fundamental Concepts of landscape evolution | 1. Various Models of landscape evolution 2. Models of Slope evolution | 03 02 |
| 6 | New fields of study in Geomorphology | 1. Sea level changes 2. Beach Morphology 3. Morphology of fluvial landforms 4. Weathering and Mass movement | 02 02 03 02 |
| 7 | Global Warming | 1. Causes of Global Warming 2. Ozone Depletion | 02 01 |
| 8 | Origin of Monsoon | 1. Climatic Classification of India 2. Origin of Monsoon | 02 02 |

Books Recommended :

1. Bose Ashish (1972): Studies in Indian Urbanization, 1970-71, Tate Mc GrawHill, Bombay.
2. Bose Ashish (1978): Urbanization in India. Academic Books Ltd., Bombay.

3. Berry, B.J.L. and Kasarda, J.D. (1977): Contemporary Urban Ecology. Macmillan, New York.
4. Carter, H. (1972): The study of Urban Geography. Edward Arnold, London.
5. Dickinson, R.E. (1974): City and Region. Routledge and Kegan Paul Ltd. London.
6. Mishra, R.P. and others (1974): Regional Development Planning in India, Vikas Publishing, Delhi.
7. Ramachandran, R. (1989): Urbanization and Urban Systems in India. Oxford University Press, New Delhi.
8. Prakasa Rao, V.K.S. (1993): Urbanization in India: Spatial Dimension. Concept, New Delhi.
9. Rimsa, A. (1976): Town Planning in Hot Climate. Mir Publishers, Moscow.
10. Sinha, S.P. (1984): Processes and Pattern of Urban Development in India: A case Study.
11. Tiwari, V.K. and others (ed.)
12. McCart & Lindberg : A Preface to Economic Geography.
13. Smith, D.E.: Industrial Location – An Economic Geographical Analysis.
14. Hodder & Lee : Economic Geography.
15. Alexander, J.W. : Economic Geography, Prentice Hall, New York.
16. Guha & Chatterjee : A New Approach to Economic Geography.
17. Renner, T.H. & Other : World Economic Geography.
18. Robson, H. : Economic Geography, M.Sc. Donald, London.
19. Thoman, R.S. : The Geography of Economic Activity, McGraw Hill, New York.
20. Symons, L. : Agricultural Geography, Bell & Sons.
21. Morgan & Mouton : Agricultural Geography.
22. Kostrowicki, J. : World Types of Agriculture, Warsaw, Poland.
23. Gregar, H.F. : Geography of Agriculture : Themes in Research, Prentice Hall, London.
24. Hart, M. G. (1986): Geomorphology, Pure and Applied. George Allen and Unwin, London
25. Chouly, R. J., Schumm, S. A., Sugden, D. E. (1984): Geomorphology, Methuen, London.
26. Hails, J. R. (1977): Applied Geomorphology. Elsevier, Amsterdam.
27. Goudie, A. S. (2004): Encyclopedia of Geomorphology, Routledge, London.
28. Gregory, K. J. (2000): The Changing nature of Physical Geography, Arnold, London.

University of Pune

M.Phil. Geography

Paper II - Research Methodology in Geography

Credit 2

| Sr. No | Unit | Subunit | Learning points | Periods |
|--------|---------------------------------|-----------------------------------|---|---------|
| 1 | Research Methodology | Research Methodology- An Overview | 1. Procedure of Scientific research 2. Defining Research Problem 3. Formulating Hypothesis 4. Research Design | 04 |
| | | Methods of Data Collection | 1. Observation 2. Questionnaire 3. Schedule and Interview 4. Sources of Data in Different Branches of Geography | 04 |
| | | Sampling | 1. Need for Sampling Methods 2. Size of Sampling | 02 |
| | | Measurements | 1. Measurement in Research 2. Measurement Scales 3. Sources of Error in Measurement | 02 |
| 2 | Processing and Analysis of Data | Processing | 1. Editing, 2. Coding 3. Classification 4. Tabulation | 01 |
| | | Analysis | 1. Measurement of Central Tendency 2. Dispersion and deviation 3. Hypothesis Testing H_0 and H_1 4. Correlation and Simple Regression | 08 |
| | | GIS | Application of GIS techniques in Data analysis and mapping | 02 |
| 3 | Preparation of Research Reports | Stages of report writing | 1. Layout 2. Types of Reports 3. Survey of literature 4. Research methods applied 5. Analysis 6. Conclusions 7. References and Bibliography | 07 |

Reference Books

1. Selltitz, C.M. Jahoda, M. Deutsch and S. : Research Methods in Social Relations, Holt, . New York, 1961
- 2 Goode, W and P.K, Hatt : Methods in Social Research, Mc Graw Hill, .Tokyo, 1962
- 3 Harvey, David : Explanation in Geography, Edward Arnold, London, 1971
- 4 Chorley, R.J. and P. Haggett (ed) : Models in Geography, Methuen, London, 1967
- 5 Minshull, R.: Introduction to Models in Geography. Longman London, 1975
- 6 Sheskin, I.M. : Survey Research for Geographers Scisntific Publisher~, Jodhpur, 1987
- 7 Kothari, C. R.: Research Methodology : Methods and Techniques, Wishwa Prakashan, 1994
- 8 Misra H.N. and V.P. Singh: Research Methodology in Geography: Social, Spatial and Policy Dimensions, Rawat Publications New Delhi, 1998
- 9 Har Prasad: Research Methods and Techniques in Geography, Rawat Publications, New Delhi. 1992

University of Pune

M.Phil. Geography

Paper III – Recent trends and advances in Human Geography

Credit - 3

| Unit No | Unit | Subpoint | Learning Point | Periods |
|---------|----------------------------|---|---|---------|
| 1 | Advance Economic Geography | Concepts of economic geography | Nature and pattern of economic activities on the surface of the earth on micro and macro levels: primary, secondary and tertiary activities. | 03 |
| | | Geography of Manufacturing | Theories in Industrial location- Waber | 02 |
| | | Network Indices | Alpha, Beta, Gamma, Associated Number, Cyclomatic Number, Shimbol Index | 05 |
| 2 | Agricultural Geography | Fundamental Concepts in Agricultural Geography | Von Thunen's Model, | 02 |
| | | Crop combination Crop diversification Agricultural efficiency | Weaver, Thomas, Dois, Bhatia, Kendall | 03 |
| | | Agricultural policy | Indian Agricultural systems Agricultural policies in India | 03 |
| 3 | Settlement Geography | Rural Settlement | Indices Rank Size rule, Gravity Model Centrality Index, Urban Settlement | 03 |
| | | Concept and processes of Urban Growth | Processes of urban growth and structural models with special reference to India | 03 |
| | | Fundamental concepts in Urban Geography | Central Business District (CBD): Historical evolution, characteristics, Demarcation and redevelopment of CBD with special reference to Indian Cities. | 04 |

| | | | | |
|---|----------------------|-----------------------------|--|----------|
| | | Concept of Urbanisation | Problems of urbanisation Urban policies in India. | 02 02 |
| 4 | Population Geography | Population Theories | Malthus Transition Theory | 04 |
| | | Indices and projection | Age sex pyramid Child Women Ratio Dependency ration Infant Mortality Age Specific Mortality Population Growth Rate Population Projection | 06 |
| | | Concept of over -population | Causes and effects of overpopulation in India | 03 |

Books Recommended :

1. Bose Ashish (1972): Studies in Indian Urbanization, 1970-71, Tate Mc GrawHill, Bombay.
2. Bose Ashish (1978): Urbanization in India. Academic Books Ltd., Bombay.
3. Berry, B.J.L. and Kasarda, J.D. (1977): Contemporary Urban Ecology. Macmillan, New York.
4. Carter, H. (1972): The study of Urban Geography. Edward Arnold, London.
5. Dickinson, R.E. (1974): City and Region. Routledge and Kegan Paul Ltd. London.
6. Mishra, R.P. and others (1974): Regional Development Planning in India, Vikas Publishing, Delhi.
7. Ramachandran, R. (1989): Urbanization and Urban Systems in India. Oxford University Press, New Delhi.
8. Prakasa Rao, V.K.S. (1993): Urbanization in India: Spatial Dimension. Concept, New Delhi.
9. Rimsa, A. (1976): Town Planning in Hot Climate. Mir Publishers, Moscow.
10. Sinha, S.P. (1984): Processes and Pattern of Urban Development in India: A case Study.
11. Tiwari, V.K. and others (ed.)
12. McCart & Lindberg : A Preface to Economic Geography.
13. Smith, D.E.: Industrial Location – An Economic Geographical Analysis.
14. Hodder & Lee : Economic Geography.
15. Alexander, J.W. : Economic Geography, Prentice Hall, New York.
16. Guha & Chatterjee : A New Approach to Economic Geography.
17. Renner, T.H. & Other : World Economic Geography.
18. Robson, H. : Economic Geography, M.Sc. Donald, London.
19. Thoman, R.S. : The Geography of Economic Activity, McGraw Hill, New York.
20. Symons, L. : Agricultural Geography, Bell & Sons.
21. Morgan & Mouton : Agricultural Geography.
22. Kostrowicki, J. : World Types of Agriculture, Warsaw, Poland.
23. Gregar, H.F. : Geography of Agriculture : Themes in Research, Prentice Hall, London.

