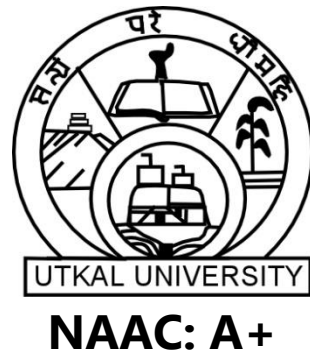


Syllabus for M. Phill. Geography



**P. G. Department of Geography
Utkal University, Bhubaneswar**

M.Phil. Geography Syllabus
P.G. Department of Geography
Utkal University, Vani Vihar, Bhubaneswar
Year: 2021-22

The Course will comprise two theory papers each of four hours of duration carrying 100 Marks, one term paper and Dissertation Carrying 100 Marks and one dissertation to be submitted before filling up the forms carrying 100 marks. The papers are as follows:

Semester-I

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|-------------------------------------|-----------|
| 1. Research Methodology | 100 Marks |
| 1. Term paper and Research proposal | 100 Marks |

Semester-II

- | | |
|----------------------|-----------|
| 2. Applied Geography | 100 Marks |
| 3. Dissertation | 100 Marks |

Semester-1
Paper-1
Research Methodology

Unit-1: (Fundamentals)

- 1.1 Preliminaries of Geographical Research
The issue, Problem Identification of Statement of Problem, Research Rational Scope and Limitation. Assumption or premise, Research objectives Hypothesis, Budgeting and working with a supervisor
- 1.2 Approaches to Geographical Research
Historical, Case Study, Descriptive and Experimental
- 1.3 Methods of Geographical Research
Ex-post factor, Laboratory Experiments, Field Experiments, Field study, Survey Research, Evaluation Research and Action Research

Unit-II: (Research Design/Plan)

- 2.1. Literature Review
- 2.2. Survey Design
- 2.3. Coordination Schema (Format, Approach, Techniques, Steps, Function and Utilization)
 - a. Problem Area
 - b. Parameter
 - c. Variable
 - d. Values

Unit-III: (Data Collection and Information Gathering)

- 3.1. Secondary Sources
- 3.2. Reconnaissance and Field Observation
- 3.3. Rapid Rural Appraisal and Participatory Rural Appraisal
- 3.4. Structured Conversation and Scheduled Interview
- 3.5. Standardized Questionnaire Survey (Questionnaire Development, Survey Logistics and Survey Design)
- 3.6. Visual Documentation, Document Screening and Content Analysis

Unit-IV: (Sampling Issues)

- 4.1. Basic Considerations
- 4.2. Probabilities and Non-probability Sampling
- 4.3. Sampling Frames
- 4.4. Sample Size
- 4.5. Areal Sampling Methods

4.6. Choice of Sampling Method

Unit-V: (Data Analysis and Report Writing)

- 5.1. Data Analysis: Definition, Role, Purpose, Types and data and Their Place in analysis Logical inference and analysis
- 5.2. Statistical Manipulation of Data
Summaries (Grouping Techniques, Central Tendency and Measures of Dispersion)
Comparison: (Covariance Correlation and Regression, The Null Hypothesis and Chi-square)
Significance: (Standard Errors, Probability Levels, Student's test. charts and models)
- 5.3. Preparation of Maps, diagrams graphs, charts and models
- 5.4. Report writing (Introduction, Report Structure, Style of Writing, Reproducing the report, Preparing for an oral Presentation/ Examination)
- 5.5. Role of Computers in Report Reproduction and Data Analysis

Selected References

1. Methods and Issues in Social Research- James A Black and Dean J Champion, John Wiley and Sons 1976
2. Handbook of Research Design and Social Measurement –Delbert C. Miller Longman, USA 1983
3. CATMOG Series NO17 and 18 –C Dixon and B. Bleach, Institute of British Geographers, London ,1977
4. Techniques in Human Geography- Paper Toyne and Peter T., Newby, Macmillan Education London 1977
5. Science in Geography (Series 1 to 4) General Editor Brian P Fitz Gerald Oxford University Press, London,1975
6. Research and Survey Format Design: An Introduction- Karl E. Weber and I.P Tiwari, ALT, Bangkok
7. Survey Research for Geographers- I.M. Sheskin, Association of American Geographers, Washington, 1985
8. Social Research Techniques for Planners- Thomas L Bruton and Gordon E Chery, George Allen and Unwin Ltd. London, 1970

Paper-II

Term paper and Research Proposal

- | | |
|--|----------|
| 2.1 Development of Research and seminar presentation | 50 Marks |
| 2.2 Term paper based on literature Review | 50 Marks |

Semester-II
Paper-III
Applied Geography

Unit-I: (Environmental Management and Sustainable Development)

- 1.1 Environmental Planning at regional level and national level, Techniques for Environmental Management and Planning
- 1.2 Concept of Sustainable Development, Principles of Sustainable Society.
- 1.3 The Role of Women's Participation in environmental conservation and movement with special reference to India.

Unit-II: (Integrated Watershed Development and Management)

- 2.1. Concept and Framework, rationale of watershed approach, component of a watershed, steps in watershed management (basic information, development component organization, involvement of people, co-ordination among various agencies)
- 2.2. Policy, and Socio-economic issues in watershed management in India (forest policy, rural development and poverty alleviation policy, rural employment generation policy and program, DPAP)

UNIT-III: (Natural Disasters and Its Management)

- 3.1 Basic knowledge of major natural hazards and human induced hazards relationship between disaster and national development issues
- 3.2 Components of comprehensive disaster preparedness plans (contingency planning national plan and legislation, warning system, community participation) community-based disaster management, role of govt NGDOS in disaster management.

Unit-IV: (Remote sensing and Geographical Information System)

- 4.1. Basics of remote sensing (history, energy sources and radiation principles and EMR) Remote sensing applications (Land use planning environmental monitoring rural road connectivity Urban planning and natural disaster management.)
- 4.2. Basic components of a GIS system relationship between geography and interactive techniques for explorative spatial data analysis in GIS measuring benefits and costs in GIS
- 4.3. Applications of GIS (land suitability transpiration, telecommunication. Land use change urban planning and disaster management)

Unit-V (Regional and Rural Development Planning)

- 5.1. The concept and rationale of Planning Methodologies of planning (Sectoral and spatial), the concept of Centralization and decentralization planning. the impact of decentralization planning on rural poverty in Asia.
- 5.2. The concept of rural development the role of government and voluntary organization in process of rural development. people participation in the rural development, the guiding principles for monitoring and evaluation of rural development projects and programs (framework and organizational structure steps and indicators)

Selected References

1. Watershed Management –V. V Dhruvanarayana, G.S Sastry and U.S Pattnaik Publication and Information Division, ICAR, PUSA, New Delhi.1997
2. Manual for development of model watershed projects DRDA, Kandhamal 1995
3. The path (Watershed Development) DRDA, Koraput-2000
4. Guidelines for Watershed Development –Ministry of Rural Development Govt. of India 1994
5. Modalities for Implementation of watershed Development Projects in KBK Districts, Agriculture Department. GOVT. of Orrisa,1998
6. Geographical Information system (Vol1 and Vol-2) Longley Goodchild et. Al John Wiley and sons, 1999.
7. Geographical Information System: A Management Perspective – Stan Arnoff WDL Publications, Canada,1989
8. Remote sensing and Image Interpretation –T.M Lillesand and R.W Kiefer, John Wiley and Sons,1987
9. An Introduction to Development Planning in the Third World- Diana Conmyers and peter Hills, John Wiley and Sons,1984
10. Regional Planning concepts, Techniques Polices and Case Studies R.P Mishra, Concept Publishing Company, New Delhi,1992
11. Impact of Decentralization on Rural Poverty: An Asian Perspective Centre on Integrated Rural Development of Asia and Pacific, 1992
12. Grammar of Planning concepts and Applications P. RF Dubashi, IIPA, New Delhi,1983
13. Natural Hazards Local National and Global- J.F White. Oxford University Press, London,1974

14. Environmental Geography Indian Context K.SK Valdiya, Tata
McGraw Hill 1987

15. Background to an Integrated Plan of action on Human Resources
Development for the ESCAP Region UNESCAP-1988

Paper – IV

1. Dissertation

100 Marks