



M. Phil. Geography Syllabus from June 2017

Effective from June 2017

1. There shall be four theory papers and one dissertation.
2. Three theory papers shall carry hundred marks (70+30).
3. The candidate is required to submit research papers to the faculty for the third paper GEO603.
4. Two typed/computerised bound copies of the dissertation shall be submitted to the University during the final M.Phil.
5. Each theory paper is divided into five units. Each unit will have equal weightage while setting question paper. Question or its sub question including the options will be set from the same unit.
6. There shall be one study tour / field work during the academic term.
7. The fifth paper shall comprise of bound copy of dissertation thesis (200 marks).

Course No.	Course Name	Credits	Marks		
			Internal	External	Total
GEO 601	Research Methodology	4	30	70	100
GEO 602	Review Articles in Geography	4	30	70	100
GEO 603	Research Papers in Geography	4	30	70	100
GEO 604	Seminar/Assignment	4	100	-	100
GEO 605	Dissertation	8	60	140	200
Total		24	250	350	600

Code No: GEO 601

Title: Research Methodology

No. of Credits: 4

Sr. No.	Topics	Sub-topics (70 + 30 Marks)
I	Research: Meaning	<ul style="list-style-type: none">- Meaning of research; Philosophical frame for geographical research.- Approaches to geographical study and research: Landscape, Ecological (man-environment), Regional (Areal differentiation), Locational (Spatial), Geometric.
II	Model in Geography	<ul style="list-style-type: none">- Models, laws, hypothesis, Paradigm and paradigm shift
III	Theories in Geography	<ul style="list-style-type: none">- Theories and systems in Geography.
IV	Stages in Research	<ul style="list-style-type: none">- Stages in Geographical Research.- Methods of data collection: Primary data collection – observation, interview methods. Secondary data collection – characteristics of data, methods collection. Case study method.- Field work technique: Sampling, Questionnaire construction.
V	Quantitative Techniques	<ul style="list-style-type: none">- Normal frequency distribution curve & its characteristics; three standard deviation checks.- Transformation of data – rank transformation, standard score transformation.- Probability assessments under normal, binomial & poisson frequency distributions.- Methods of correlation- Spearman's rank correlation coefficient, Pearson's product moment correlation coefficient, correlation significance test.- Regression- straight line regression for two variables; standard errors & confidence limits. Regression Residual mapping- Composite Indices and Basics of Principal Component Analysis.

BOOKS RECOMMENDED

1. Dautherty, R: Science in Geography Data Collection (2)
2. Board, Christopher (Ed) (1969): Progress in Geography Volume 1-8. Edward, Oxford.
3. Chorley, R.J. & Haggett P.Eds. (1967): Models in Geography, Methuen & Co. Ltd., London.
4. Davis, P.: Science in Geography (3) Data description and presentation.
5. Harvey, David (1969): Explanation in Geography, Edward Arnold.
6. Kothari, C.R. (1993): Research Methodology: Methods & Techniques, Wiley Eastern Ltd., New Delhi.
7. Mc Callagh: Science in Geography (4) Data use and Interpretation
8. Mishra, R.P. : Handbook of Research Methodology in Human Geography.
9. Chorley, R.J. & Haggett, P. Eds. (1965): Frontiers in Geographical Teaching. Methuen, London.
10. Dickinson (1969): Makers of Modern Geography. Lyall Book Depot, Ludhiana.
11. Dikshit, R.D. (1994): The Art & Science of Geography. Prentice Hall of India, New Delhi.
12. Dautherty, R: Science in Geography Data Collection (2)

Code No: GEO 602

Title: Review Articles in Geography

No. of Credits: 4

Sr. No.	Topics	Sub-topics (70 + 30 Marks)
I	Advance Physical Geography	<ul style="list-style-type: none">- Geomorphology: Landforms associated with fluvial, arid, and coastal.- Climatology: Monsoon Theory in India; Tropical cyclones; Classification of Indian climates; Koppen's' and Thornthwaite's schemes.- Oceanography: Coral reefs; Temperature and salinity of the oceans; Tides and ocean currents.- Bio-Geography: World distribution of plants and animals; Forms and functions of ecosystem; Conservation and management of ecosystems; Problems of pollution.
II	Regional Planning and Development	<ul style="list-style-type: none">- Regional concept in Geography; Concept of planning regions; Types of regions; Methods of regional delineation;- Regional planning in India; Indicators of development; Regional imbalances; Evolution, nature and scope of town planning with special reference to India, and Fundamentals of Town and Country planning, Tribal Area Development Plan, Draught prone area Planning.
III	Economic/Agricultural/Industrial Geography	<ul style="list-style-type: none">- Sectors of Economy: Primary, secondary, Tertiary and quaternary; Natural resources: Renewable and non-renewable. Measurement of agricultural productivity and efficiency; Crop combination and diversification; Von Thunen Model.- Classification of industries: Weber's and Losch's approaches; Resource based and footloose industries. Models of transportation and transport cost: Accessibility and connectivity.
IV	Population/Social Geography	<ul style="list-style-type: none">- Nature, scope, subject matter and recent trends; Patterns in India; distribution, growth and density of population; Policy issues; Patterns and processes of migration; Demographic transition.- Social Geography: Social structure and social processes; Elements of Social Geography with special reference to India -ethnicity, tribe, dialect, language, gender, caste and religion; Concept of Social well-being.
V	Settlement Geography	<ul style="list-style-type: none">- Site, situation, types, size, spacing and internal morphology of rural and urban settlements; Ecological processes of urban growth; Urban fringe; City-region; Settlement systems; Primate city; Rank-Size rule; Settlement hierarchy; Christaller's Central Place theory; August Losch's theory of market centres

BOOKS RECOMMENDED

1. Gondie, S.A. (2004) (Eds): Encyclopedia of Geomorphology, Routledge, London.
2. Savindra Singh (2002): Geomorphology, Prayag Pustak Bhavan, Allahabad
3. Tarbuck, E. J. and Lutgens, F. K. (2009): Earth Science, Prentice Hall, New Jersey
4. Thornbury, W.D. (1960): Principles of Geomorphology, Mathuen, London
5. Lal, D.S. (1998): 'Climatology', Chaitanya Publishing House, Allahabad.
6. Sarindra Singh (2005): 'Climatology', Prayag Pustak Bhavan, Allahabad.
7. Thompson, R.D. and Allen, P. (1997): 'Applied Climatology: Principles and Practice', Routledge, London and New York.
8. Mathur, H. S. (2003): Essentials of Biogeography, Pointer Publishers, Jaipur
9. Savindra Singh (2000): 'Environmental Geography', Prayag Pustak Bhavan, Allahabad.
10. Hartshorne, T. A. and Alexander, J. W. (2010): Economic Geography, PHI Learning, New Delhi
11. Siddhartha, K. (2000): Economic Geography: Theories, Process and Patterns, Kisalaya Publications, New Delhi
12. Garrison, T. (1993): Oceanography – An Invitation to Marine Science, WadsworthPublication Co., California
13. Garrison, T. (2001): Oceanography – An Introduction to Marine Science, Books/Cole, Pacific Grove, USA.
14. Pinet, P. R. (2009): Invitation to Oceanography, Jones and Bartlett Publishers, Boston
15. Singh Savindra (2010): Oceanography, Allahabad.
16. Chandna R.C. (1986): Geography of Population – Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
17. Hussain, M. (1999): Human Geography, Rawat Publication, Jaipur
18. Deshpande, C.D. (1992): India: A Regional Interpretation, ICSSR & Northern Book Centre, New Delhi.
19. Gautam, A. (2006): Advance Geography of India, Sharda Pustak Bhawan, Allahabad.
20. Government of India (2007): National School Atlas, NATMO, Kolkatta.
21. Khullar D.R. (2005): India-A comprehensive geography, Kalyani Publishers, Ludhiana.
22. Tiwari, R.C. (2006): Geography of India, Prayag Pustak Bhavan, Allahabad.
23. Grigg, D. (1995): An Introduction to Agricultural Geography, Routledge, London
24. Hussain, M. (1978): Agricultural Geography, Rawat Publication, Jaipur
25. Vaidya, B. C. (1997): Agricultural Land use in India, Manak Publications, New Delhi
26. Ahmad, A. (2012): Social Geography of India, Concept Publishing Company, New Delhi
27. Aijazuddin Ahmeda (1999): Social Geography, Rawat Publications, New Delhi.
28. Panelli, R. (2004): Social Geographies: From Difference to Action, Sage Publications, London
29. Chand, M. and Puri, V. K. (2003): Regional Planning in India, Allied Publishers Pvt.Ltd., New Delhi
30. Glasson, J. and Marshall, T. (2007): Regional Planning, Routledge, New York
31. Mishra, H. N. (2005): Regional Planning, Rawat Publication, Jaipur
32. Mishra, R. P. (2002): Regional Planning in India- Concept Publication, New Delhi
33. Marcuse, P. and Kempen, R.V. (eds.) (2000): Globalising cities: A New Spatial order, Blackwell.
34. Misra, R.P. & Misra, K. (eds.)(1998): Million Cities of India, Sustainable development, Fd. New Delhi.
35. Pacione, M. (2009): Urban Geography, Routledge, New York
36. Siddharth, K. and Mukherjee, S. (2013): Cities, Urbanization and Urban System, Kisalaya Publishing, New Delhi

Code No: GEO 603

Title: Research Papers in Geography

No. of Credits: 4

Topics

Sub-topics (70 + 30 Marks)

Physical and Human Geography

- There shall be 20 research papers to be studied in this paper.

Code No: GEO 604

Title: Seminar/Assignment

No. of Credits: 4

Topics

Sub-topics (100 Internal Marks)

Assignment

Preparation and submission of review article based on research papers addressing a contemporary research problem. (Minimum 5)

Seminar

Seminar to be delivered on a specific theme provided to students. (Minimum 4)

Exposure Trip

Visit National/Research institute and interaction with experts. (Minimum 2)

Field Work

Field work to relevant Geographical Areas/ Field Trip (Minimum 1)

Other Activities

Attending National / International workshop / Symposium / Conferences or participation for oral / poster presentation or interaction with MA/MSc students for problem solving approaches (Minimum 2)

Code No: GEO 605

Title: Dissertation

No. of Credits: 8

Topics (140 + 60 Marks)

- Dissertation