

**M.A./M.Sc. Geography**  
**First Semester**  
**Paper-II Principles of Geomorphology(GEG801DSCT)**

**Unit – I**

Nature and Scope of Geomorphology. History of Geomorphology, Fundamental Concepts. Genesis of the earth feature.

**Unit – II**

Isostasy: Airys and Pratt's Hypothesis, Warps and folds, Revival Continental drift theory, Plate tectonic theory, Geomorphic processes: Diastrophism.

**Unit – III**

Denudation, Classification of Weathering and produced landforms, Mass Wasting: Types and result. Development & Approaches of Slope, views of W. Pank. A wood & A.N. Strahler.

**Unit – IV**

Morphometric Analysis of land forms: Drainage basin, Drainage Density, Stream ordering, Bifurcation ratio, Concept of Rejuvenation and multicyclic landscape.

**Unit – V**

Erosional and Dispositional Land form : Fluvial Land Forms, Glacial and Glaciofluvial Land Forms , Under ground water Land Form, Aeolian processes and Land Forms.

**Reference :**

1. W. D. Thornbury – Principles of Geomorphology, Wiley Eastern Ltd., New Delhi , 1993.
2. P. G. Worcester – A text book of Geomorphology, East - West Press Pvt. Ltd., New Delhi , 1961.
3. A. K. Lobeck - Geomorphology , Mc Graw Hill Book Co., Ltd., New York , 1969.
4. Wooldridge & Morgan – Physical basis of Geography , Longmans Green & Co., London , 1937.
5. A. N. Strahler – Physical Geography, John Wiley & Sons, New York , 1965.
6. Butser , K. W. – Geomorphology from the Earth , Longmans , London 1963 , Harper & Row Publishers, New York , 1976.
7. Sparks – Geomorphology , S. Steers – unstable Earth , Methuen & Co., London 1953.
8. Arthur Holmes – Physical Geology , Thomas Nelson & Sons Ltd. , London , 1976.
9. C. A. M. King – Perspective on Landform Evolution (Benchmark series in Geology) – Dowden, Hutchinson & Ross Inc. Pennsylvania , U.S.A., 1976.
10. K. Siddhartha – Earth Dynamic Surface (Transworld Media & Communications – Publication – Patna (1994)
11. Sharma J.P- Geomorphology, Rastogi publications Meerut, 2016.
12. सिंह सविद, भू-आकृति विज्ञान का स्वरूप
13. गौतम अलका, भू-आकृति विज्ञान का स्वरूप

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*  
*[Signature]*

**M.A./M.Sc. Geography**  
**First Semester**  
**Paper-II : Principles of Economic Geography (GEG812DSCT)**

**Unit -I**

Definitions , Nature and Scope of Economic Geography. Approaches and Recent Trends in Economic Geography. Classification of Economies – Sectors of Economy, Primary Secondary, Tertiary & Quaternary occupations, types of farming, subsistence agriculture.

**Unit -II**

Location – Importance ,Christaller – Central Place Theory, Movement & Interaction in the simplified economic landscape, Significance & Elements of Production Cost – Raw materials, Labour, Capital, Technical Knowledge –Spatial variation in Production costs & locational impact: Spatial Variation in transportation Cost-location factors & Structure of transport cost.

**Unit- III**

World Agricultural Regionalization – Whittlesey's classification of Agricultural region, Subsistence Intensive Agriculture, Mediterranean Agriculture & Tropical Plantation, Commercial grain farming and Corn region of USA

**Unit – IV**

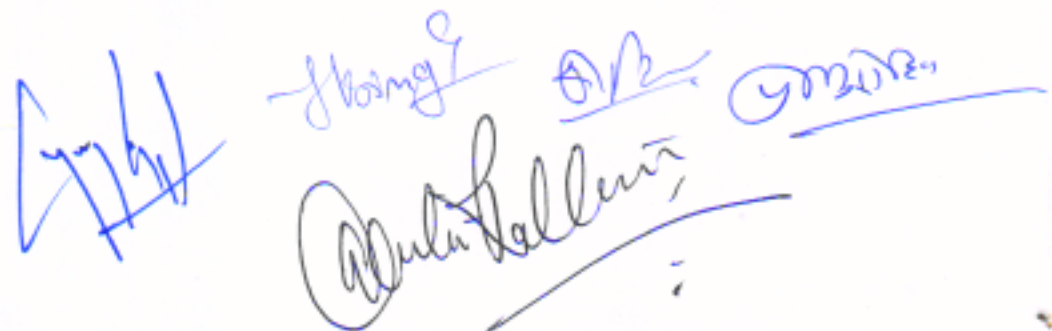
Major Industrial regions of the World : Study of Great lake industrial region of USA, Study of Ruhr Industrial region, Study of Industrial region of Ukraine, Study of Industrial belt of Japan

**Unit - V**

Means of transportation: Factors affecting the choice of particular means of Transport, World pattern of water transportation & Trade: Oceanic Transport routes, International trade : Types of trade, Economic region of the world

**References: •**

1. Alexander, J. W., Economic Geography, Prentice Hall of India, New Delhi
2. Alien, S. W. and Leonard, J. W., Conserving Natural Resources, McGraw Hill
3. Bengston, N. A. and M. W. Royen, Fundamentals of Economic Geography, Prentice Hall
4. Berry J. L. Geography of Market Centres and Retail Distributions, Prentice Hall, New York, 1967
5. Berry, B. J. L., et al. D.M. Economic Geography, Prentice Hall
6. Boesch, H., A Geography of World Economy, D. Van, Nostrand
7. Chatterjee, S. R. Economic Geography of Asia, Allied Book Agency, Calcutta, 1984
8. Chisholm, M., Geography and Economy, G. Bell, London
9. Chorley, R. J. and P. Haggett (ed.), Network Analysis in Geography, Arnold, 1969
10. Chorley, R. J., Water, Earth and Man, Methuen
11. Dreze, J. and A. Sen, India: Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996



12. Eckarsley, R. (ed.), Markets, the State and the Environment, McMillan, London, 1995
13. Garnier, B. J. and A. Delobez, A Geography of Marketing, Longman, London, 1979
14. Guha and Chatterjee, A New Approach to Economic Geography of Resources
15. Hamilton, F. E. I. (ed.), Resources and Industry, Oxford University Press, New York, 1992
16. Hamilton, F. E. I., Spatial Perspectives on Industrial Organisation and Decision Making, John Wiley, New York, 1974
17. Hurst, E., Transport Geography: Comments and Readings, McGraw Hill, New York, 1974
18. Janaki, V. A., Economic Geography, Concept Publishing Co., New Delhi
19. Jarret, H. R., A Geography of Manufacturing, MacDonald & Evans
20. Jones, G. G. and C. F. Darkenwald, Economic Geography, Mac Milan
21. Learmonth, T. A., Mysore State: Regional Synthesis, Asia Pub. House
22. Lloyd, P. and P. Dicken, Location in Space: A Theoretical Approach to Economic Geography, Harper and Row
23. Me-Carty, M. H. and J. B. Luidberg, A Preface to Economic Geography, Prentice Hall
24. Morgan, W. B. and R. J. C. Munton, Agricultural Geography, Methuen, London, 1977
25. Pachuri, R. K., Energy and Economic Development in India, Praeger, New York, 1977
26. Paterson, J. H., Land Work and Resources: An Introduction to Economic Geography, Arnold
27. Robertson, D. (ed.), Globalisation and Environment, E. Elgar Co., U.K., 2001.
28. Robinson, H., Economic Geography, MacDonald and Evans
29. Rostow, W. W., The Stages of Economic Growth, Cambridge University Press, London, 1960
30. Singh J. and S. S. Dhillon, Agricultural Geography, McGraw Hill, India, New Delhi, 1984
31. Singh, G., Economic and Commercial Geography, Manol Talao
32. Symons, L., Agricultural Geography, Bell and Sons, London, 1972
33. Thomas, R. S., The Geography of Economic Activity, McGraw Hill, New York,
34. Wheeler, J. O. et al, Economic Geography, John Wiley, New York, 1995
35. Whitbeck, R. S. and Finch, V. L., Economic Geography, McGraw Hill, New York
36. Zimmermann, E. W., World Resources and Industries, Harber



**M.A./M.Sc. Geography**  
**First Semester**  
**Principles of Population and Settlement Geography (GEG813DSCT)**

**Unit – I**

Meaning, scope and development of population geography. Sources of data: population counts and census; sample data; reliability of data data errors and their detection and correction. Population growth determinants and trends, population distribution and density.

**Unit – II**

Age structure and sex composition, Educational composition, economic composition, Rural Urban composition Literacy composition, Mortality analysis, patterns and its determinants, Fertility analysis, fertility patterns and its determinants, Migration: types and determinants, population policy of India

**Unit – III**

Demographic transition theory and population growth models, Growth of population in India: patterns, components and determinants, concept of optimum population, concept of over population, concept of under population, population resource regions.

**Unit –IV**

Definition and scope of settlement Geography, Evolution, size and spatial distribution pattern of human settlements and related theories and models, Physical structure of settlements; internal characteristics and external forms.

**Unit - V**

Functional structure of settlements; functional classification of towns and functional typology of villages; functional landscape of settlements, Settlement hierarchy: concept and contributing factors, Determination of spacing.

**References:**

1. Bhende, Asha A. and Tara Kanitkar, Principles of Population Studies, Himalaya Publishing House
2. Bilashborrow, Richard E. and Daniel Hogan, Population and Deforestation in the Humid Tropics, International Union for the Scientific Study of Population, Belgium, 1999
3. Bogue, D. J., Principles in Demography, John Wiley and Sons, New York, 1969
4. Bose, Ashish et al, Population in India's Development: 1947-2000, Vikas Publishing House, New Delhi, 1974
5. Census of India, India: A State Profile, 1991
6. Chandana, R. C., Introduction to Population Geography, Kalyani Publishers, Ludhiana, 2000
7. Chisholm, M. (1962): 'Rural Settlements and Land use', London
8. Clarke, John I., Population Geography and the Developing Countries, Pergamon Press Inc., Oxford, 1971
9. Clarke, John I., Population Geography, Pergamon Press Inc., Oxford, 1973
10. Crook, Nigel, Principles of Population and Development, Pergamon Press, New York, 1997



11. Daugherty, Helen Gin, and Kenneth C. W. Kammeyir, An Introduction to Population, The Guilford Press, New York, 1998
12. Demko, Geogre, J. et al, Population Geography, A Reader, McGraw Hill, New York, 1970
13. Garnier, Beaujeu J., Geography of Population, Longman, London, 1970
14. Hudson, R. S. (1970): 'A Geography of Settlements', McDonald and Sons, London
15. Kochhar, Rajesh, The Vedic People: Their History and Geography, Orient Longman Ltd., New Delhi, 2000
16. Mamoria, C. B., India's Population Problems, Kitab Mahal, New Delhi, 1981
17. Mitra, Asok, India's Population: Aspects of Quality and Control, Volume I & II, Abhinav Publications, New Delhi, 1978
18. Pathak, K. B. and F. Ram, Techniques of Demographic Analysis, Himalaya Publishing House
19. Peterson, William, Population, Macmillan Publishing Company, Inc., New York, 1975
20. Premi, M. K., India's Population: Heading Towards a Billion, S. R. Publishing Corporation, New Delhi, 1991
21. Shryock, Honry, S et al, The Methods and Materials of Demography, Volume I & II, U. S. Bureau of the Census
22. Srinivasan, K. and M. Vlassoff, Population Development Nexus in India: Challenges for the New Millennium, Tata McGraw Hill, New Delhi, 2001
23. Srinivasan, K., Basic Demographic Techniques and Applications, Sage Publications, New Delhi, 1998
24. Sundaram K. V. and Sudesh Nangia (eds.), Population Geography, Heritage Publications, Delhi, 1986
25. Trewartha, G. T., A Geography of Population: World Patterns, John Wiley & Sons, New York, 1973
26. Trewartha, Glenn T. (ed.), The More Developed Realm, A Geography of its Population, Pergamon Press, Oxford, 1978
27. UNDP, Human Development Report, Oxford University Press, Oxford, 2000
28. United Nations, Methods for Projections of Urban and Rural Populations, No VIII, New York 1974
29. United Nations, The Determinants and Consequences of Population Trends, Volume I, Population Studies No 50
30. Woods, Robert, Population Analysis in Geography, Longman, London, 1979
31. Zelinsky, Wilbur, A Prologue to Population Geography, Prentice Hall, 1966

**M.A./M.Sc. Geography**  
**First Semester**  
**Paper-IV Advanced Cartography (Practical) GEG814/DSCP**

**Unit – I**

Nature, scope & History of cartography, Techniques & Tools of Cartography, Maps and their classification : Distributional maps, Representation of Statistical Data: Diagrams-One, Two, Three Dimensional

(3 exercises)

**Unit – II**

Geomorphic aspects based on toposheets of 1:50000 or 1:25000: Stream orders and basin demarcation, Drainage density and texture, Slope : average slope map according to Wentworth's method, Profiles : serial, composite, super- imposed, & projected Profiles

(4 exercise )

**Unit – III**

Climatic aspects: Rainfall variability graphs, Rainfall dispersion diagram, Climatograph

(3 exercises)

**Unit – IV**

Socio-Economic & Demographic aspects - at least with 20 administrative units .Population distribution (Dot method), Density map (Choropleth maps), Nearest neighbour analysis, Traffic flow cartogram

(4 Exercises)

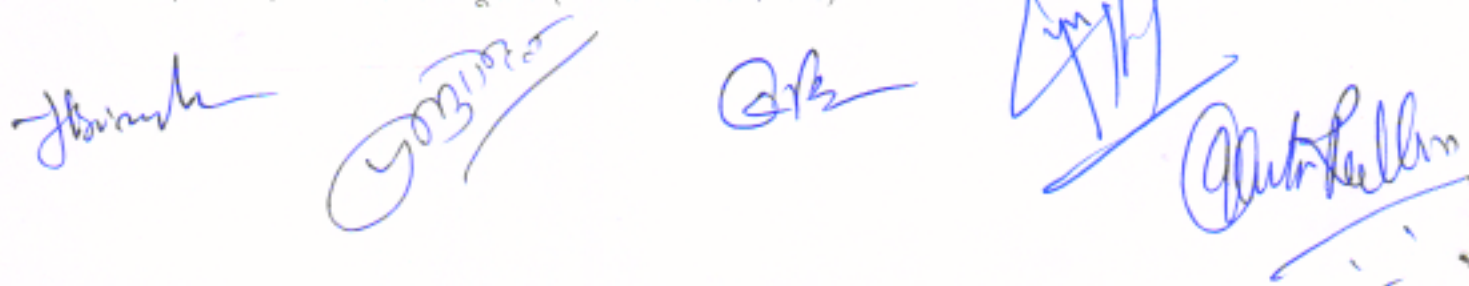
**Unit – V**

Map projections – Characteristics, use and mathematical, Constriction along with outline maps of the following projections, Bonne's projection, Conical projection –two standard parallel, Gall's projection, Mollweide's projection

(5 Exercises)

**References:**

1. Arthur G., Advance Practical Geography, Heinemann.
2. Campbell, J., Introductory Cartography, Prentice Hall Inc., New York.
3. Govt. of Rajasthan, District Census Handbooks, latest as well as of previous Census.
4. Keates, J. S., Cartographic Design and Production, Longman, London.
5. Loxton, J., Practical Map Production, John Wiley & Sons, New York.
6. Mishra, R. P. and A. Ramesh, Fundamentals of Cartography, Concept Publishers, New Delhi.
7. Monkhouse, F. J. and H. R. Wilkinson, Maps and Diagrams, Methuen & Co., London.
8. Raisz, E., General Cartography, McGraw Hill Book Co., New York.
9. Robinson, A. H., Elements of Cartography, Chapman & Hall.
10. Sing, R. L., Elements of Practical Geography, Kalyani Publishing.
11. Singh, R. N., Map Work and Practical Geography, Central Book Depot.
12. शर्मा, जे. पी., प्रयोगात्मक भूगोल (रस्तोगी पब्लिशर्स, मेरठ)





**M.A./M.Sc. Geography**

**First Semester**

**Paper-V: Industrial Geography GEG815ADS ET**

**Unit - I**

Nature and scope of Industrial Geography, recent Development in Industrial Geography, Elements and factors of Industrial localization, Centralization and decentralization of Industrial enterprises, Horizontal, Vertical and diagonal linkages of industries

**Unit-II**

Demand, supply and price, marginal cost and average cost, Critical review of theories, and Models of Industrial Location: A. Weber, E.M. Hoover, August Losch, A. Fetter, G.T. Renner, D.M. Smith, E.M. Rawstron.

**Unit-III**

Copper, Aluminium and Iron and steel, Textile, Oil refining, Software industries, Locations analysis of Zink and cement industries of Rajasthan.

**Unit-IV**

Industrial location and spatial distribution analysis and measures : Coefficients of localisation; Specialisation, Geographic association and index of diversification, Delimitation of industrial regions, indices and methods, Major industrial regions of India, Study of Major industrial regions of the world, Great lakes region and Ruhar region

**Unit-V**

Impact of industrial on economic development, Environmental degradation and hazards caused by manufacturing industries, Role of globalisation on manufacturing sector in less developed countries.

**Reference :**

1. Adam, Watter, Structure of American Industry, Macmillan & Co., New York.
2. Alexander, J.W. Economic Geography, Prentice Hall, New York.
3. Boesch, H., A Geography of World Economy, D. Van-Nostrand Co., New York, 1964
4. Britton, John N.H., Regional Analysis and Economic Geography, G. Bell & Sons.
5. Hoover, E.M., The Location of Economic Activity, McGraw Hill, New York, 1948
6. Joshi, Hemlata, Industrial Geography of India: A Case History of Fertiliser Industry, Rawat Publishers, Jaipur.
7. Losch, August, The Economics of Location, Yale University Press, London, 1973.
8. McCarty, Harold H. and Lindberg, A Preface to Economic Geography, Prentice Hall, New York.
9. Miller, E.W., A Geography of Manufacturing, Prentice Hall, New Yor, 1962.
10. Riley, RC., Industrial Geography, Chatto and Windus, London, 1973.
11. Smith, D.M., Industrial Location: An Economic Geographical Analysis, Wiley, New York, 1971
12. Weber, Alfred, Alfred Weber's Theory of Location of Industries, Chicago University, Press, Chicago, 1929.
13. कुमार, प्रमिला एव शर्मा श्रीकमल, औद्योगिक भूगोल, मध्यप्रदेश हिन्दी ग्रन्थ अकादमी
14. लोढा राजमल, औद्योगिक भूगोल, राजस्थान हिन्दी ग्रन्थ अकादमी

7. Dubey, S. C., Indian Society, National Book Trust, New Delhi, 1991
8. Geddes, A. and A. T. A. Learmonth (eds.), Man and Land in South Asia, Concept Publishing Co., New Delhi
9. Government of India, Economic and Socio-Cultural Dimensions of Regionalization, Census of India, Census Centenary Monograph No.7, 1974
10. Government of India, Report on Development of Tribal Areas, Planning Commission, 1981
11. Gregory, D and J. Larry, (eds.) Social Relations and Spatial Structures, McMillan, 1985
12. Guha, B. S., Racial Elements in India's Population, Oxford University Press, London
13. Haq, Mahbubul, Reflections on Human Development, Oxford University Press, New Delhi
14. Jones, E. (ed.), Readings in Social Geography, Oxford University Press, London
15. Jones, E. and J. Eyles, An Introduction to Social Geography, Oxford University Press, London
16. Maloney, Clarence, People of South Asia, Winston, New York, 1974
17. Rao, M. S. A., Urban Sociology in India, Orient longman, 1970
18. Rao, M. S. A., Urbanisation and Social Change, Orient Longman
19. Rao, Subba, Personality of India: Pre and Proto Historic Foundation of India and Pakistan, M. S. University Baroda, Vadodara, 1958
20. Risley, H., The People of India, Reprint Corporation
21. Schwartzberg, Joseph, An Historical Atlas of South Asia, University of Chicago Press, Chicago, 1978
22. Sen, Amartya and Dreze Jean, Indian Development: Selected Regional Perspectives, Oxford University Press, London, 1996
23. Singh, K. S., Tribal Situation in India, IIAS, Shimla
24. Smith, David, Geography: A Welfare Approach, Edward Arnold, London, 1977
25. Sopher, David: An Exploration of India, Cornell University Press, 1980

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*



**M.A./M.Sc. Geography**  
**First Semester**  
**Paper-V: Social Geography GEG815BDSET**

**Unit – I**

Nature, scope and development of social geography, philosophical bases of social geography, Positivist, structuralist and radical, Humanist, post-modern, and post-structuralist, Social geography in the realm of social sciences

**Unit – II**

Space and society, Understanding society and its structure and processes, Geographical bases of social formations; power relations and space, Contribution of social geography to social theory

**Unit – III**

Towards a social geography of India; nature and problems of social geographic data, Social differentiation and region formation; evolution of socio-cultural regions in India, Bases of social region formation; role of caste, ethnicity, religion, dialect and languages, Indian unity and diversity; social transformation and change in India.

**Unit IV**

Concepts of social well-being and physical quality of life, Human development: concept, components, indices and measurement, Patterns and bases of rural and urban society; rural-urban deprivation with respect to shelter, health and education, Social exclusion, deprivation and discrimination issues relating to women and underprivileged groups

**Unit – V**

Spatial distribution of social groups: tribes, castes, religious and language groups, Social groups and power relations in India, Review of five-year plans and area plans towards social policy in India, Strategies to improve social well-being in tribal, hill and drought prone areas; social and environmental impact assessment of development projects

**References:**

1. Ahmad, Aijazuddin, Social Geography, Rawat Publication, New Delhi, 1999
2. Casino, Vincent J. Del, Social Geography: A Critical Introduction, Wiley-Blackwell, 2009
3. Churye, B. S., Caste and Class in India, Popular Prakashan
4. Davis, K., Population of India and Pakistan, Princeton University Press
5. de Blij, H. J., Human Geography, John Wiley and Sons, New York
6. Dreze, Jean and Amartya Sen, Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996

**MA Previous  
Semester-I  
Reading and Seminar**

**Course Outcomes:**

This course will develop the skill of reading subjective books and research papers in the library, through this course student able to understand reading editorials of English and Hindi newspapers and develop the ability to understand and read literature on subjective issues and topics on computers and smart phones. Student will be able to learn subjective dialogue by having group discussions on subjective terminology.

Foundation Course	
Year: MA Previous	Semester: I
Subject: G E O G R A P H Y	
Type of Paper :Reading and Seminar (0+0+2)= 02 Credits Per Course MM 50	
Paper Code:GEG816RDS/P	Nomenclature: Reading Aptitude
SN	Topics
1	Reading course books and research papers in the library.
2	Reading editorials of English and Hindi newspapers.
3	Reading literature on current issues and topics on computers and smart phones related to the subject
4	Enhancing subject knowledge through group discussions, dialogues on terminology, keywords literary terms of the subject
5	Preparing Report and its Presentation in seminar using various aids and modes

**This course is open for all.**

**Suggested Reading:**

- Allison, B., Hilton, A., O'Sullivan, T., Owen, A., Rothwell, A. (2016). Research Skills for Students. United Kingdom: Taylor & Francis.
- O'Dochartaigh, N. (2007). Internet Research Skills: How To Do Your Literature Search and Find Research Information Online. United Kingdom: SAGE Publications.
- Dochartaigh, N. (2012). Internet Research Skills. United Kingdom: SAGE Publications.
- Developing Research Skills: Key Readings and Critical Thinking Exercises. (2017). United States: Cognella Academic Publishing.
- Specht, D. (2020). The Media and Communications Study Skills Student Guide. United Kingdom: University of Westminster Press.

**Suggested Continuous Evaluation Methods:**

Practical file evaluation, main focus on presentation, content and proper use of research methodology & Viva.

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*



**Suggested Continuous Internal Evaluation Methods:**

- Invited Lecture
- Seminar/Assignment on any topic of the above syllabus.
- Test with multiple choice questions / short and long answer questions.
- Research Orientation of the student.
- Quiz

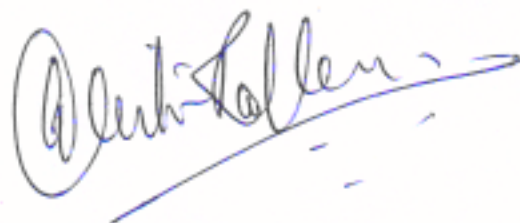
**Internal Assessment:**

This course is Practical in nature  
Practical file evaluation: 30 Marks  
Presentation : 20 Marks

**Suggested equivalent online courses:**

IGNOU and other centrally/state operated universities/MOOC platform such as "SWAYAM" in India and Abroad.

The SWAYAM platform provides opportunities to learners, researchers and students to learn skills and value added courses in online mode. The certificate obtained by the students who have done the course through this platform under the NEP 2020 system is valid when presented to the university.



**M.A. PREVIOUS Semester: I**  
**Additional Course**

**Course Outcomes:**

The syllabus is designed to introduce students to get themselves engaged in the field work and project work so that they are equipped with the practical knowledge about the field work and research project. This will be an empirical learning for those who aspire to become future Social Scientists and Humanitists

Foundation Course	
Year: M.A Previous	Semester: I
Subject: G E O G R A P H Y	
Type of Paper: Additional Course (0+0+3=03) Credits Per Course	
MM 50	
PAPER Code: GEG817ADLC/P	Nomenclature: Formulation of Research Problem
SN	Topics
1	Knowing about field View, Knowing about Text View
2	Formulation of research problem for Research project
3	Estimation of resources: Time, Budget human resource.
4	Conducting field survey / Research. Necessary gadgets and equipments
5	Preparation of file, Presentation .

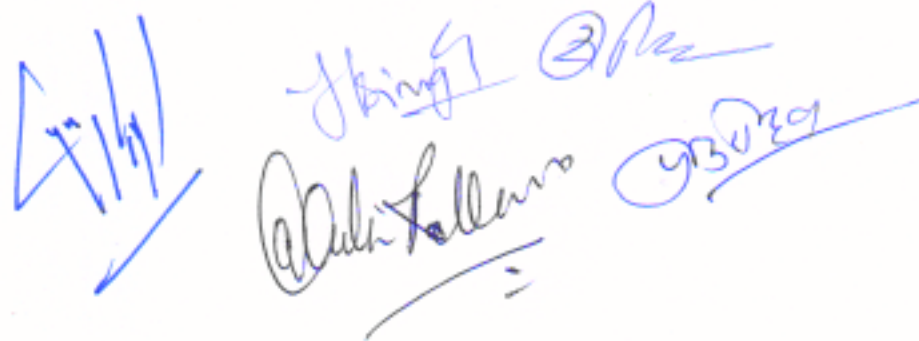
**SUGGESTED READINGS:**

- Goode and Hatt, 2006: Methods in Social Research.
- Young Pauline, 1988 Scientific Social Surveys and Research Practice.
- Silverman David, 1985 Gower, Vermont Qualitative Methodology and sociology.
- Sachdev Meetali, 1987: Qualitative Research in Social Sciences.
- Rennie, F., Smyth, K. (2016). How to Write a Research Dissertation. United Kingdom: CreateSpace Independent Publishing Platform.
- McMillan, K., Weyers, J. (2007). How to Write Dissertations & Project Reports. United Kingdom: Pearson Prentice Hall.
- Peoples, K. (2020). How to Write a Phenomenological Dissertation: A Step-by-Step Guide. United States: SAGE Publications.

**Evaluation Methods:**

**The Course is Practical in nature**

- Project file evaluation, main focus on presentation, content and proper use of research methodology, Viva.
- File Submission : 30 Marks



- Presentation of work : 20 Marks  
(The presentation of work done by the student will be presented in the seminar or department or the Internal Assessment Committee constituted by the concerned department or University along with audio-visual, PPT or modern equipments ).

**Suggested E-resources**

E-pathashala modules [www.inflibnet.org](http://www.inflibnet.org)

**Suggested equivalent online courses:**

IGNOU and other centrally/state operated universities/MOOC platform such as "SWAYAM" in India and Abroad.

7/11/17 Hsing AB  
Abul Kalam Omprakash



**M.A./M.Sc. Geography**  
**Second Semester**  
**Paper-I Evaluation of Geographical Thought (GEG821DSCT)**

**Unit – I**

Definition, Philosophy and nature of geography. Detailed study of Greek and Roman scholars. Nature of Geographical Thoughts in Ancient India

**Unit – II**

Geographical knowledge during the Ancient & medieval period. Dark age of Geography. The Arabic period, Contribution of Varenus and Kant

**Unit – III**

Main characteristics of German school of thoughts- Contribution of Alexander von Humbolt Contribution of Carl Ritter & Ratzel, Main characteristics of French school of thought- Contributions of Paul Vidal de la Blache, Contribution of Jean Brunhes

**Unit – IV**

Main characteristics of American school of thoughts- Contribution of W. M. Davis, Contribution of Carl O. Sauer. Main characteristics of British school of thoughts.

**Unit – V**

Environmental determinism, possibilism and neo-determinism. Concept of Region. Study of aerial differentiation, Dichotomies in geography, Systematic and Regional, & Physical-Human geography. Impact of Positivism, Humanism & Radicalism in Geography.

**References:**

1. Abler, Ronald F. et al, Geography's Inner Worlds: Pervasive Themes in Contemporary American Geography, Routledge, New Jersey, 1992
2. Ali, S. M., Arab Geographers, Institute of Islamic Studies
3. Ali, S. M., The Geography of Puranas, People's Publishing House, New Delhi
4. Chatterjee, S. P., Fifty Years of Geography in India, Indian Science Congress, New Delhi
5. Dickinson, R. and O. J. R. Howarth, Making of Geography, Calarendon Press
6. Dickinson, R. E., The Makers of Modern Geography, Routledge and Kegan Paul, London, 1969
7. Dikshit R. D., Geographical Thought: A Contextual History of Ideas, Prentice Hall of India Pvt. Ltd. 2000
8. Dikshit R. D., The Art and Science of Geography: Integrated Readings, Prentice Hall of India, New Delhi, 1994
9. Dohrs, F. E. and Sommers, L. W. (eds.) Introduction to Geography, Thomas Y. Crowell Co., New York, 1967

*Hoingh*  
*Gobin*

*GR*

*Anil*  
*Chait Kallan*

12. Fuson, R. H., A Geography of Geography: Origins and Development of the Discipline, W. M. C. Brown Company
13. Gregory, D., Ideology, Science and Human Geography, Hutchinson, London, 1978
14. Gregory, D., Geographical Imaginations, Blackwell, Oxford, 1994
15. Hartshorne, Richard, The Nature of Geography, Association of American Geographers, Lancaster, Pennsylvania, 1939
16. Hartshorne, Richard, Perspective on the Nature of Geography, Rand McNally and Co., Chicago, 1959
17. Harvey, David, Explanation in Geography, Edward Arnold, London, 1969
18. Harvey, M. E. and B. P. Holly (eds.), Themes in Geographic Thought, Rawat Publications, Jaipur, 1999
19. Holt-Jensen, A., Geography: Its History and Concepts, Longmans, 1980
20. Husain, Majid, Evolution of Geographical Thought, Rawat Publications, Jaipur, 1984
21. James, P. E. and C. F. Jones, American Geography: Inventory and Prospects, Syracuse University Press
22. James, P. E., All Possible Worlds: A History of Geographical Ideas, Sachin Publication, Jaipur, 1980
23. Jensen, A. H., Geography: Its History and Concepts, Harper & Row
24. Johnston, R. J., Philosophy and Human Geography: An Introduction to Contemporary Approaches, Edward Arnold, London, 1983
25. Johnston, R. J. and R. Claval (eds.), Geography Since the Second World War, Croom Helm, London/Bernes and Noble, N. J., 1984
26. Johnston, R. J., Geography and Geographers: Anglo-American Geography Since 1945, Edward Arnold (Publishers) Ltd., London, 1983
27. Jones, P.A., Field Work in Geography, Longmans, 1968
28. Kothari, C. R., Research Methodology, Methods and Techniques, Wiley Eastern Ltd., New Delhi
29. Ley, D. and M. Samuels (eds.), Humanistic Geography: Prospects and Problems, Maarouffa, Press, Chicago, 1978
30. Livingstone, D. N., The Geographical Tradition, Blackwell, Oxford, 1992
31. Lownsbury, J. F. and F. T. Aldrich, Introduction to Geographical Methods and Techniques, Charles Merrill, Columbus, 1979
32. Mandal, R. B. and V. N. P. Sinha, Recent Trends and Concepts in Geography (three volumes), Concept Publishing Company, New Delhi
34. Minshull, R., The Changing Nature of Geography, Hutchinson University Library, London, 1970
35. Mishra, R. P., Contributions to Indian Geography, Heritage Publishers, New Delhi,
36. Peet, R., Modern Geographical Thought, Blackwell, Oxford, 1998
37. Prasad, H., Research Methods and Techniques in Geography, Rawat Publications, Jaipur
38. Preston James, All Possible Worlds: A History of Geographical Ideas, John Wiley & Sons, New York, 1981

जैन, एस.एम. : भौगोलिक चिन्तन का विकास (साहित्य भवन, आगरा)  
 कौशिक, एस.डी. : भौगोलिक विचारधारा एवं विधि तंत्र (रस्तोगी प्रकाशन, मेरठ)  
 माथुर एवं जोशी : भौगोलिक विचारधाराओं का इतिहास (आर.बी.एस. पब्लिशर्स, जयपुर)

*Handwritten signatures and initials in blue ink.*

*Handwritten initials in blue ink.*

*Handwritten signatures and initials in blue ink.*



**M.A./M.Sc. Geography**

**Second Semester**

**Paper-I/World Regional Geography (GEG822/DSCT)**

**Unit - I - Asia**

Asia in the context of the world , Terrain and drainage, Climate, natural vegetation and soils, Spatial distribution of population and economic base of the continent, in general Regional study - West Asia

**Unit- II - Europe**

Europe in the context of Asia and Africa, Terrain and drainage, Climate, natural Vegetation and Soils, Demographic and economic characteristics regional study Western Europe

**Unit- III - Africa**

Africa in the context of Europe and North America, Terrain and Drainage, Climate, natural vegetation and soils, Demographic and economic characteristics regional study Southern Africa

**Unit- IV - North and South America**

North and South America in the context of the Atlantic and Pacific Rim states, Terrain and drainage, Climate, natural Vegetation and Soils, Demographic and economic characteristics regional study of Middle America

**Unit- V -Oceania; Global issues**

Australia & New Zealand in the context of Polynesia, Micronesia and South Asia, Terrain and drainage, Climate, natural vegetation and soils, Demographic and economic characteristics; Globalization and W. T. O.; population, environment and sustainable development

**Reference:**

1. Cole, J., A Geography of the World's Major Regions, Routledge, London, 1996
2. Cole, J.P. , Latin America- Economic and Social Geography, Butterworth , USA, 1975
3. Cole, M.M. , South Africa, Dutton, New York, 1961
4. Blij, H.J. , Geography: Regions and Concepts, John Wiley & Sons Inc., New York, 1994
5. Dickenson, J.P. et al, The Geography of the Third World Routledge, London, 1996
6. Gourou, R. , The Tropical World, Longman, London , 1980
7. Jackson, R.H. and L. E. Hudman, World Regional Geography: Issues for Today, John
8. Kolb, A., East Asia : Geography of a Cultural Region, Methuen, London, 1977
9. Minshull, G. N., Western Europe, Hodder & Stoughton, New York, 1984
10. Patterson, J. H., Geography of Canada and the United States, Oxford University Press, 1985
11. Songquiao, A., Geography of China, John Wiley & Sons Inc., New York, 1994
12. Ward, R. W. and A. Miller, World Regional Geography: A Question of Place, John Wiley & Sons Inc. , New York, 1989



**M.A./M.Sc. Geography**  
**Second Semester**  
**Paper-III Surveying and leveling (GEG823DSCP)**

**Unit - I**

Surveying: Definition, History, Classification, Surveying as an arts and Science and Principles of surveying.

**Unit - II - Plane Table :**

Plane table survey: Instrument, survey operation, Radiation method, Inter section method, open traverse methods, Close traverse methods and resection methods : One point problem, two point problem, three point problem, tracing paper methods.

**Unit - III - Clinometer**

Part and Methods of using the Indian clinometers methods of contouring, measuring spot height and determining, the height of Distant points; Drawing of profiles. (3 Exercise)

**Unit - IV - Dumpy level**

Leveling: Mining, Instruments and parts of a dumpy level. Adjustment of the dumpy level, methods of leveling. Level book, computation of reduced level, Plotting of profiles. ( 3 Exercise).

**Unit - V - Theodolite and Technometer**

Types of theodolite as an Instrument of Surveying and leveling; Procedure of theodolite Surveying, Computation of theodolite bearing- Telemetry: Stadia and tential.

**Book Recommended**

**Text Book.**

1. Kanethkar, T.P. & Kulkiarni, S.V., Surveying and Levelling Vol. 1, A.V. Gria Prakashan, Poona.
2. Deshpande, R.S., A text books of Surveying and Levelling, United Book Corporation, Poona.
3. B.C. Punmia, Surveing and Field Work, Vol. 1, Standard Book Depot, Delhi.

**Reference:**

1. Breed, C.B. and Hosmer, G.L., The Principles of Surveying, Vol. I & II, New York.
2. Davis, R.E. and Foot, F.S., Surveying Theory and Practice, McGraw Hill Book Col, New Yor.,
3. T.R. Tracy, Surveying Theory and Practice, John Willey and Sons., Inc., New York.
4. Thrilfall, H.S.N., Text Book of Surveying and Levelling, Charies Grafflin, London.
5. Roorkee Engineering College, Manual of Surveying.
6. N.C. Gautam, Urban Land Use Studies through Airphoto Interpretation Techniques, Pink Publishing House, Mathura.
7. शर्मा, जे. पी., प्रायोगिक भूगोल
8. खुल्लर - प्रायोगिक भूगोल
9. यादव हिरालाल प्रायोगिक भूगोल की रूपरेखा

**M.A./M.Sc. Geography**  
**Second Semester**  
**Paper-IV: Agricultural Geography** *676824ADSET*

**Unit - I**

Nature and Scope of Agricultural Geography, Development and Basic concept of Agricultural Geography, Approaches in Agricultural Geography.

**Unit - II**

Origin and Dispersal of Agriculture in different parts of the world, Physical factor affecting agriculture, Non-Physical Factors affecting Agriculture.

**Unit - III**

Concept of Land use, Vonthunen's Agricultural model of Agricultural land use and recent modification in it, Olaf Jonasson's Agricultural Model and Diffusion model.

**Unit - IV**

Major Agricultural System of the world, Whittesey's Agricultural Types : Characteristics and distribution in the world, Agriculture typology-Concept and Techniques of Delimitation of Agricultural Region, Agricultural Region in India.

**Unit - V**

Agricultural Productivity and efficiency levels. Crop combination, Green revolution, White revolution and its impacts on Indian Agricultural, Agricultural Problems & Policy in India.

**Reference:**

1. Coppock, J.K., An Agricultural Atlas of England and Wales, Faber and Haber, London.
2. Gregor, H.P., Geography of Agriculture, Prentice Hall, New York, 1970.
3. Grigg, D.B., The Agricultural Systems of the World, Cambridge University Press, New York, 1974.
4. Hartshorne, T.N. and J.W. Alexander, Economic Geography, Prentice Hall, New Delhi, 1988.
5. Kostrowicki, J., World Types of Agriculture, Warsaw, Poland.
6. Morgan, W.B.R. and J.C. Norton, Agricultural Geography, Methuen, London, 1971.
7. Morgan, W.B.R., Agricultural in the Third World: A spatial Analysis, West View Press, Boulder, 1978.
8. Shafi, Mohammed, Agricultural Geography, Dorling Kindersley (India), Delhi, 2006
9. Singh, Jasbir, An Agricultural Atlas of India: A geographical Analysis, Vishal, Kurukshetra
10. Singh, Jasbir, An Agricultural Geography of Haryana, Vishal Kurukshetra
11. Singh, Jasbir and S.S. Dhillon, Agricultural Geography, Tata McGraw Hill Publishing Company Ltd., New Delhi, 1988

*[Handwritten signatures and initials in blue ink, including "Jasbir", "S.S. Dhillon", and others.]*

**M.A./M.Sc. Geography**  
**Second Semester**

**Paper-IV : Cultural Geography GEG824BDSET**

**Unit - I**

Definition, nature, development and scope of cultural geography, Divergence process and convergence process, Cultural changes: perception, behaviouralism and cultural relativism

**Unit - II**

Races of mankind: origin, traits and classification, Language: evolution, dispersion, classification and distribution, Religion: evolution, dispersion, classification and distribution

**Unit - III**

Industrial revolution and cultural development, Economy and society of tribal groups, theories of tribal groups; dwelling places as cultural explorations, Economy and cultural landscape

**Unit — IV**

Human settlements: relation to ideology, Social structure and technology, Pattern of rural & urban society, Social process in the city.

**Unit— V**

World cultural realms and regions, Cultural region of Europe, Cultural regions of Indian Sub-continent, Globalization and culture conflicts

**References:**

1. Broek, J.C. and J.W. Webb, Geography of Mankind, McGraw Hill, New York, 1978 .
2. Crang, Mike, Cultural Geography, Routledge Publications, London, 1998
3. Harmandorf, Tribes of India, Oxford University Press, Delhi, 1989
4. Hazra, (ed.), Dimensions in Human Geography, Rawat Publication, Jaipur, 1997
5. Massey, D and Jess P., A place in the World: Places, Cultures and Globalization, Oxford University Press, New York, 1995
6. Massey, D. et al (ed), Human Geography Today, Polity Press, Cambridge, 1999
7. Schwartzberg, J.E., Historical Atlas of South Asia, University of Chicago, 1978
8. Spencer, J.E. and William L. Thomas, Cultural Geography, John Willey and Sons, Inc., London, 1969
9. Wagner, Philip L. and Marvin W. Mikesell, Readings in Cultural Geography, The University of Chicago Press, Chicago, 1962



**M.A./M.Sc. Geography**  
**Second Semester**  
**Paper-V : Political Geography GEG825ADSET**

**Unit – I**

Nature and Scope of Political Geography, Development of Political Geography, Contributions of Alfred Thayer Mahan, H.J. Mackinder and Alexander-de-seversky, D.W. Meinig, N.J. Spykman & Hooson.

**Unit – II**

Recent trends in Political Geography, The functional approach in Political Geography, The unified field theory of Political Geography. Nature of Administrative areas.

**Unit – III**

Meaning and differences between frontiers & boundaries, Concept of nation, state and nation state, Physical elements (territory) of State-Location, shape, size of State.

**Unit – IV**

Political Geography and Geopolitics, Geo-Politics, Meaning and contributions of Emmanuel Kant Karl Ritter, Fredrick Ratzel, H.V. Triteschke, Rudolf Kjellen and Karl Haushofer, Globalization and WTO.

**Unit – V**

Electoral Studies in Political Geography, Conceptual Model of voting Decision, Gerrymandering in relation to India, Unitary and Federal State.

**Reference :**

1. Alexander, L.M., World Political Patterns, Ran McNally, Chicago, 1963.
2. Boggs, S.W., International Boundaries: A Study of Boundary Function and Problems, Columbia University, New York.
3. Carlson, L., Geography and World Politics, Prentice Hall, New York.
4. Deshpande C.D., India: A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
5. Dikshit, R.G., Political Geography: A Century of Progress, Sage, New Delhi, 1999.
6. Dikshit, R.D., Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi, 1996.
7. Fisher Charles A., Essays in Political Geography, Methuen, London, 1968.
8. Jackson, W.A.D., Politics and Geographic Relationships: Readings on the Nature of Political Geography, Prentice Hall, New York.
9. Jonson, R.L., Political, Electoral and Spatial Systems: An Essay in Political Geography, Oxford University Press, Oxford & New York.
10. Mackinder, H.J., Democratic Ideals and Reality, Norton & Company, New York.
11. Moodie, A.E., Geography Behind Politics, Hutchinson University Press, London.
12. Pounds N.J.G., Political Geography, McGraw Hill, New York, 1972.
13. Prescott, J.R.V., Political Geography, Methuen & Co., London.
14. Prescott, J.R.V., The Geography of Frontiers and Boundaries, Aldine, Chicago.
15. Sukhwai, B.L., Modern Political Geography of India, Sterling Publishers, New Delhi, 1986.
16. Taylor, P.J. and R.J. Johnston, Geography of Elections, Penguin London, Hammond Worth.
17. Taylor, Peter and John House, Political Geography: Recent Advances, Barnes and Nobel Books Totowa, New Jersey.
18. Taylor, Peter: Political Geography Longman, London, 1985.
19. pkSgku] ih- vkj-] jktuhfrd Hkwxsy %olU/kjk izdk'ku] xksj[kiqj/s
20. भट्टाचार्य, ए.एन. एवं आच्छा, एस.एल., राजनीतिक भूगोल (राजस्थान हिन्दी ग्रन्थ अकादमी जयपुर)
21. सक्सेना, एच.एम., राजनीतिक भूगोल (रस्तोगी पब्लिकेशन्स, मेरठ)
22. कोलोरोव, वी., राजनीतिक भूगोल (प्रगति प्रकाशन, मारको)
23. दीक्षित श्रीकान्त, राजनीतिक भूगोल (ज्ञानोदय प्रकाशन, गोरखपुर)

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

**M.A./M.Sc. Geography**  
**Second Semester**

**Paper-V : Transportation Geography GEG825BDSET**

**Unit - I**

Meaning, scope and development of transportation geography, Spatial interaction: Ideas of Edward Ullman; functional approach of M.E. Hurst, Concepts of distance, Measures of distance: Physical, time, economic and perceptual.

**Unit - II**

The functional region, linkages and nodes, diagrammatic representation of hinterlands and hierarchies, Transportation and spatial processes: regional specialisation and agglomeration economics, Cost of overcoming distance: Transportation cost, price and rate structure, Transportation cost as factor of production.

**Unit - III**

Net works as models, Type of connectivity: concept and indices of connectivity, Measures of nodal accessibility: the network as a matrix; degree of connectivity; direct and indirect connectivity, Indices of accessibility: accessibility matrix, matrix T, shortest path matrix and valued matrix; sinuosity.

**Unit - IV**

Gravity model: basic model and modifications related, Gravity Model and the traffic and commodity flow, Allocation Model: Transportation problem and optimum solution.

**Unit - V**

Negative impacts of transportation: social, accidents and other impairments, Economic and environmental aspects of urban transport problems and their control, Transport systems in the developing countries.

**Reference**

1. Abler, Adams and Gould, Spatial Organisation: The Geographer's View of the World, Prentice Hall, New York.
2. Haggett, P. and R.J. Chorley, Network Analysis in Geography, Arnold, London, 1968.
3. Hoyle, B.S. (ed.), Transport and Development, Macmillan, London, 1973.
4. Munby, D., Transport, Penguin.
5. Raza, Moonis and Y.P. Agrawal, Transport Geography of India, Concept Publishing Company, New Delhi, 1985.
6. Robinson, H. and C.G. Bamford, Geography of Transportation, McDonald and Evans, London, 1978.
7. Taafie, E.J. and H.L. Gauthier, Geography of Transportation, Prentice Hall Inc., New Jersey, 1973.
8. Ullman, E.L., American Commodity Flow, University of Washington Press, 1957.
9. White H.P. and M.L. Senior, Transport Geography, Longman, London, 1983.

*[Handwritten signatures and initials in blue ink, including "GTH", "J. King", "A. K.", "G. B.", and "G. B. S."]*



**MA Previous  
Semester-II  
Reading and Seminar**

**Course Outcomes:**

The conclusion summarizes the reviewer's overall thoughts and impressions of the book, restating key points and the main argument. It often includes a recommendation for potential readers and may provide final reflections or insights about the book's significance.

Bridge Course	
Year: MA Previous	Semester: II
Subject: G E O G R A P H Y	
Type of Paper :Reading and Seminar (0+0+2)= 02 Credits Per Course MM50	
Paper Code: GEG826RDS/P	Nomenclature:Academic Book Review
SN	Topics
1	Introduce the book writer and publisher details.
2	Purpose and content of the book.
3	Types of Book review
4	Parts of Book review
5	Lesson summary and Presentation in seminar

**This course is open for all.**

**Important guideline:**

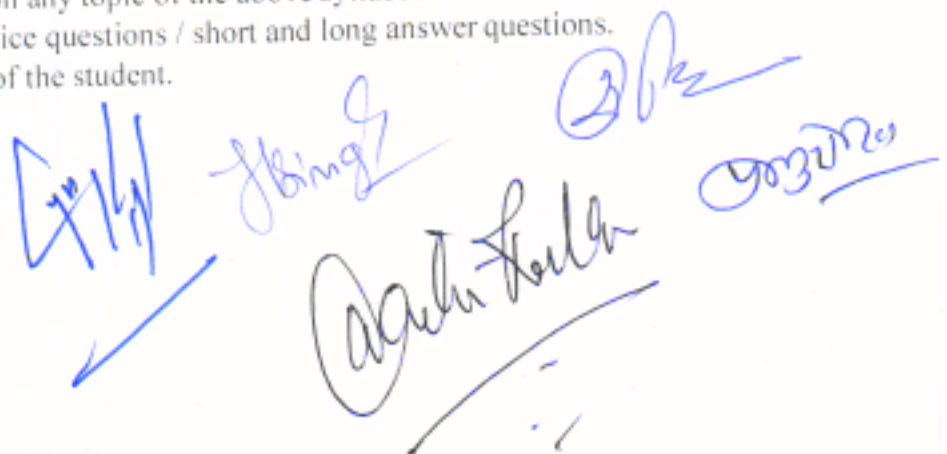
When references are necessary, citations should be made in the text of the book review and should include title, author, publisher, year, and page number, if necessary. City of publication should be omitted. When possible, refer to the author's name in the text of the review.

**Suggested Continuous Evaluation Methods:**

Practical file evaluation, main focus on presentation, content and proper use of research methodology & Viva.

**Suggested Continuous Internal Evaluation Methods:**

- Invited Lecture
- Seminar/Assignment on any topic of the above syllabus.
- Test with multiple choice questions / short and long answer questions.
- Research Orientation of the student.
- Quiz





**Internal Assessment:**

**This course is Practical in nature**

**Practical file evaluation: 30 Marks**

**Presentation : 20 Marks**

**Suggested equivalent online courses:**

IGNOU and other centrally/state operated universities/MOOC platform such as "SWAYAM" in India and Abroad.

The SWAYAM platform provides opportunities to learners, researchers and students to learn skills and value added courses in online mode. The certificate obtained by the students who have done the course through this platform under the NEP 2020 system is valid when presented to the university.



Four handwritten signatures in blue ink are present. The signatures are stylized and cursive. The largest signature at the bottom is 'Aashish Kulkarni'. Above it are three smaller signatures: one on the left, one in the middle, and one on the right.

**M.A. PREVIOUS Semester: II**  
**Additional Course**

**Course Outcomes:**

The syllabus is designed to introduce students to get themselves engaged in the field work and project work so that they are equipped with the practical knowledge about the field work and research project. This will be an empirical learning for those who aspire to become future Social Scientists

Bridge Course	
Year: M.A Previous	Semester: II
Subject: G E O G R A P H Y	
Type of Paper: Additional Course (0+0+3=03) Credits Per Course MM 50	
paper Code: GEG827ADLC/P	Nomenclature: Research Proposal and Report Writing
SN	Topics
1	Ways to develop Research Proposal and its Implementation.
2	Fundamentals of Primary & Secondary Sources,
3	Library based Activities about data
4	Report writing : Purpose and Importance, Skill of report writing
5	Research Proposal, Presentation.

**SUGGESTED READINGS:**

- Goode and Hatt, 2006: Methods in Social Research.
- Young Pauline, 1988 Scientific Social Surveys and Research Practice.
- Silverman David, 1985 Gower, Vermont Qualitative Methodology and sociology.
- Sachdev Meetal, 1987: Qualitative Research in Social Sciences.
- Rennie, F., Smyth, K. (2016). How to Write a Research Dissertation. United Kingdom: CreateSpace Independent Publishing Platform.
- McMillan, K., Weyers, J. (2007). How to Write Dissertations & Project Reports. United Kingdom: Pearson Prentice Hall.
- Peoples, K. (2020). How to Write a Phenomenological Dissertation: A Step-by-Step Guide. United States: SAGE Publications.

**Evaluation Methods:**

The Course is Practical in nature

*[Handwritten signatures and initials in blue ink]*

- Project file evaluation, main focus on presentation, content and proper use of research methodology, Viva.
- Research Project File Submission : 30 Marks
- Presentation of work : 20 Marks  
(The presentation of field work and report writing done by the student will be presented in the seminar or department or the Internal Assessment Committee constituted by the concerned department or University along with audio-visual, PPT or modern equipments).

#### Suggested E-resources

E-pathashala modules [www.inflibnet.org](http://www.inflibnet.org)

#### Suggested equivalent online courses:

IGNOU and other centrally/state operated universities/MOOC platform such as "SWAYAM" in India and Abroad.

*[Handwritten signatures in blue ink]*

Four signatures are visible at the top, and a larger, more prominent signature is at the bottom center.