

GEOGRAPHY

SEMESTER – I

PAPER	:	MJC-1 (T)	Full Marks: 100
TITLE OF THE PAPER	:	GEOMORPHOLOGY	ESE: 70
CREDIT	:	4	CIA: 30

COURSE OBJECTIVES :

1. To understand the concept of various landforms and physical features.
2. To examine and correlate information about Geomorphic processes.
3. To provide a theoretical and empirical framework for understanding landscapes evolution.

COURSE OUTCOMES :

After completion of the course students will be able to -

1. Develop an idea of Geomorphology and its fundamental concepts.
2. Understand various theories regarding the origin of the earth.
3. Understand various processes of natural and anthropogenic factors.
4. Understand the role of structure, process and stages in shaping the landforms.
5. Explain different types of Geomorphic processes like weathering and cycle of erosion.
6. Understand the processes of erosion, deposition and resulting landforms.

Unit	Topics	No. of Lectures
I	Nature and Scope of Geomorphology, Origin of the Earth: Nebular, Tidal and Big Bang Theory, Internal Structure of the Earth	10
II	Isostasy: Concept of Airy and Pratt, Wagner's Continental Drift Theory, Plate Tectonics.	10
III	Mountain Building: Theories of Kohler and Holmes, Earthquake and Volcanoes.	08
IV	Geomorphic Processes: Weathering and Erosion, Normal Cycle of Erosion-Davis and Penck, Evolution of Landforms:- Glacial, Arid and Karst Topography.	12
Total		40

Suggested Readings:

1. Bridges E.M.(1990),World Geomorphology,Cambridge University Press,Cambridge.
2. Dayal,P. A Text Book of Geomorphology, Rajesh Publication, New Delhi.
3. Gauram Alka(2007), Bhaskari Vigyan, Rastogi Publications.
4. Hussain M.,(2002), Fundamentals of Physical Geography, Rawat Publication, Jaipur.
5. Kale V.S.and Gupta A., (2001), Introduction to Geomorphology,Orient Longman, Hyderabad.
6. Khullar D.R.,(2011),Physical Geography, Kalyani Publishers, New Delhi.
7. Mookhouse,F.J.(2009),Principles of Physical Geography,Platinum Publishers,Kolkata.
8. Singh Savindra(2017),Bhouthik Bhoogol, Vastunbhara Prakashan,Gorakhpur
9. Strahler A. N and Strahler A.H.(2008), Modern Physical Geography, John Wiley & Sons, New York.
10. Thornbury W. D.,(1968),Principles of Geomorphology, John Wiley & Sons, New York.

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GEOGRAPHY **SEMESTER - I**

PAPER	:	MJC-1 (P)	Full Marks- 100
TITLE OF THE PAPER	:	GEOMORPHOLOGY	ESE- 70
CREDIT	:	2	CIA: 30

COURSE OBJECTIVES :

1. To understand the basic characteristics of Rocks and Minerals for their identification.
2. To understand various land forms, relief and Geomorphic process.
3. To understand Topographical Maps through Conventional signs and Symbols.

COURSE OUTCOMES :

After completion of the course students will be able to -

1. Understand the concept and properties of various types of Rocks and Minerals.
2. Identify various types of Rocks and Minerals.
3. Understand the various land forms and other Geomorphic processes.
4. Understand and interpret Topographical maps.

Unit	Topics	No. of Lectures
I	Scale and its types, Rocks and Mineralic Properties and Identification.	04
II	Contour lines, Cross-Sections and Representation of Relief.	08
III	Interpretation of Topographical Maps and Use of Conventional Signs and Symbols.	08
Total		20

Suggested Readings:-

1. Singh R.L., Singh Rana P.B. (2020). Elements of Practical Geography, Kalyani Publishers.
2. Sharma J.P., (1991-92) Prayogik Bhinag (Practical Geography) Rastogi & Company Meerut.
3. Sinha, MMP & Bala, Seema (2017) Uchh Cartography, Rajesh Publication, New Delhi.
4. Sarkar, A (2015) Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd. New Delhi.

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GEOGRAPHY

SEMESTER – II

PAPER	: MJC-2 (T)	Full Marks-100
TITLE OF THE PAPER	: CLIMATOLOGY & OCEANOGRAPHY	ESE: 70
CREDIT	: 4	CIA: 30

COURSE OBJECTIVES :

- 1.To understand different layers and composition of atmosphere.
- 2.To critically examine various aspects of climate and its classification.
- 3.To understand oceanic relief features and composition of ocean water.

COURSE OUTCOMES :

After completion of the course students will be able to -

1. Understand the structure and composition atmosphere.
2. Understand the various climatic phenomena.
3. Understand causes of climate change.
4. Understand Ocean, its features and properties.

Unit	Topics	No. of Lectures
I	Composition and Structure of Atmosphere, Insolation.	08
II	Air Masses and Fronts- Concepts, Classification and Properties, Tropical and Temperate Cyclones.	10
III	Classification of Climate- Koppen's and Thornthwaite's, Climatic Change: Causes and evidences.	10
IV	Relief of the Ocean floor: Continental Shelf, Slope and Deep Sea Plain, Bottom Relief of Indian and Atlantic Ocean, Factors of Salinity of Oceans.	12
Total		40

Suggested Readings:

1. Barry R. G. and Carlson A. M., (2001) *Synoptic and Dynamic Climatology*, Routledge, UK.
2. Barry R. G. and Corby J. J., (1998) *Atmosphere: Weather and Climate*, Routledge, New York.
3. Crutfield H. J., (1987) *General Climatology*, Prentice-Hall of India, New Delhi.
4. Langston F. K., Turback E. J. and Tinn D., (2009) *The atmosphere: An Introduction to Meteorology*, Prentice-Hall, Englewood Cliffs, New Jersey.
5. Oliver J. E. and Holder J. J., (2002) *Climatology: An Atmospheric Science*, Pearson Education, New Delhi.
6. Tewartha G. T. and Hame L. H., (1980) *An Introduction to Climate*, McGraw-Hill, US.
7. Gupta L. S., (2000) *Jalvayu Vigyan, Hindi Madhyam Kanyaravay Nalibhaya*, Delhi Vidya Vidyalyaya, Delhi.
8. Lal, D.S., (2000) *Jalvayu Vigyan*, Prayag Pustak Bhawan, Allahabad.
9. Vatal, M., (1988) *Bhauk Bhagol*, Central Book Depot, Allahabad.
10. Singh S (2009) *Jalvayu Vigyan*, Prayag Pustak Bhawan, Allahabad.

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GEOGRAPHY SEMESTER -II

PAPER	: MDC-2 (P)	Full Marks- 100
TITLE OF THE PAPER	: CLIMATOLOGY & OCEANOGRAPHY	EST: 70
CREDIT	: 2	CIA: 30

COURSE OBJECTIVES

1. To understand different weather phenomena through graph and diagrams.
2. To get acquainted with different weather measuring instruments.
3. To understand and analyse spatial weather conditions.

COURSE OUTCOMES

After completion of the course students will be able to -

1. Understand the various weather phenomena.
2. Interpret weather conditions of a place or region.
3. Understand the functions of various weather instruments.

Unit	Topics	No. of Lectures
I	Graphical Representation of Wind Rose, Cyclone and Anticyclone	06
II	Interpretation of Weather Maps, Climatograph and Hythergraph	06
III	Metrological Instruments - Functions of Wind Vane and Anemometer, Barometer, Dry and Wet Bulb Thermometer	08
Total		20

Suggested Readings:-

1. Singh R.L., Singh Rana P.B. (2020). Elements of Practical Geography, Kalyani Publishers.
2. Sharma J.P. (1991-92) Pragogy Bhogol (Practical Geography) Raviji & Company Meerut.
3. Sirha, MMP & Bala, Seema (2017) Uchh Cartography, Rajesh Publication, New Delhi.
4. Sarkar, A (2015) Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd, New Delhi.

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SEMESTER -III

TYPE OF COURSE	: MJC-3 (T)	Full Marks: 100
NAME OF COURSE	: ECONOMIC GEOGRAPHY	ESE - 70 Marks
CREDIT	: 5	CIA - 30 Marks

COURSE OBJECTIVES:

1. To understand the concept and spatial distribution of economic activities in the world.
2. To analyse the factors affecting the economic activity focusing on Von Thunen and Weber theory.
3. To describe in the details the regionalization of different economic activities.

COURSE OUTCOMES:

After learning, students will be able to:

1. Distinguish to different types of economic activities and their significance.
2. Identify the factors responsible for the location and distribution of activities.
3. Examine the significance and relevance of various locational theories.

UNT	TOPICS	No. of Lectures
I	Meaning and Scope of Economic Geography: Concept and Classification of Economic Activities- Primary, Secondary and Tertiary.	12
II	Locational Theory of Agriculture (Von Thunen); Intensive Subsistence Farming, Commercial Grain Farming and Dairy Farming	12
III	Industrial Location Theory (Weber): Major Industries - Iron and Steel, Cotton Textile, Automobile Industry and Information Technology.	14
IV	Major Oceanic Routes- Suez and Panama. International Trade and WTO, Special Economic Zone(SEZ)	12
	TOTAL	50

Suggested Readings:

1. Alexander J. W., (1963) *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Coe N. M., Kelly P. F. and Young H. W., (2007) *Economic Geography: A Contemporary Introduction*, Wiley-Blackwell
3. Combes P., Mayer T. and Thiore J. F., (2008) *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
4. Wheeler J. O., (1994) *Economic Geography*, Wiley.
5. Bagchi-Sen S. and Smith H. L., (2006) *Economic Geography: Past, Present and Future*, Taylor and Francis
6. Willington D. E., (2008) *Economic Geography*, Harbad Press.
7. Singh K.N & Jagdish Singh (2020), *Aarshik Bhagol ke Mool Toru*, Prayag Publication.
8. Jit B.C., (2020) *Aarshik Bhagol*, Malik Book Company Jyapat.
9. Gauran Aka., (2022) *Aarshik Bhagol ke mool aur, suda panak bhawan, prayag*
10. Maurya S.D., *Aarshik Bhagol*, Prastika Publication,

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GEOGRAPHY

SEMESTER -III

TYPE OF COURSE	: MIC-4 (T)	Full Marks: 100
NAME OF COURSE	: CARTOGRAMS, MAP PROJECTION AND SURVEYING	ESE - 70 Marks CIA - 30 Marks
CREDIT	: 3	

Course Objectives:

1. Develop an understanding for construction of maps through cartographic conventions.
2. Develop an understanding of the concepts regarding map projections to suit map purposes.
3. Better understanding of survey and surveying.

Course Outcomes:

This is a theory paper, when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their uses.
3. Develop an understanding and importance of surveying.

UNIT	TOPICS	No. of Lectures
I	Nature and Scope of Cartography, Bar Diagram - Types and Uses,	06
II	Map and its Types, Distribution Maps - Dot, Choropleth and Isoleth.	08
III	Map Projection : Concept, Classification and Properties.	08
IV	Surveying - Concept, Types and its significance.	08
	TOTAL	30

Suggested Readings:-

1. Aron R. and Ormeling F. J., (1990) *International Cartographic Association: Basic Cartographic Vol.* Pergamon Press.
 2. Gupta K.K. and Tyagi, V. C., (1992) *Working with Map*, Survey of India, DST, New Delhi.
 3. Maitiyar, K. K & Maitiyar S. R., (2019) *Concept of Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
 4. Mishra R.P. and Ranesh, A., (1999) *Fundamentals of Cartography*, Concept, N Resource & Economic Geography in Delhi.
 5. Monkhouse F. J. and Wilkinson H. R., (1971) *Maps and Diagrams*, Methuen, London.
 6. Rhind D. W. and Taylor D. R. F., (eds), (1989) *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
- Robinson A. H., (2009) *Elements of Cartography*, John Wiley and Sons, New York.
- Sharma J. P., (2010) *Practical Maps*, Rastogi Publishers, Meerut.

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Anil
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9. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
10. Sinha, M.M. P., (2017) *Utch Cartography*, Rajesh Publication, New Delhi.
11. Sackar, A. (2015) *Practical geography: A systematic approach*, Orient Black Swan Private Ltd, New Delhi.
12. Singh R L & Singh Rana P B, (1991) *Prayogmatk Bhugol ke Mool Tatva*, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) *Prayogmatk Bhugol ki Kosprukta*, Rastogi Publications, Meerut.
14. Singh, R L & Datta, P K (2012) *Prayogmatk Bhugol*, Central Book Depot, Allahabad.

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GEOGRAPHY

SEMESTER -III

TYPE OF COURSE	: MJC-4 (P)	Full Marks: 100
NAME OF COURSE	: CARTOGRAMS, MAP PROJECTION AND SURVEYING	ESE - 70 Marks CIA - 30 Marks
CREDIT	: 1	

Course Objectives:

1. Learning to construct maps through cartographic conventions.
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of Prismatic Compass Survey.

Course Outcomes:

This is a practical, hands-on course; when students complete it, they will be able to:

1. Construct maps and various Diagrams.
2. Learn the construction and use of some common map projections.
3. Understand and perform Prismatic Compass Survey.

UNIT	TOPICS	No. of Lectures
I	Bar Diagram, Pie Diagram and Choropleth.	03
II	Map Projection : Simple Conical One Standard Parallel, Cylindrical Equidistant Projection, Zenithal Equidistant Projection.	04
III	Prismatic Compass Survey: Open and Closed Traverse.	03
IV	Record of Practical Work & Viva-voce.	--
	TOTAL	10

Suggested Readings:-

1. Anon R. and Ormullig F. J., (1994) *International Cartographic Association: Basic Cartographic File* Progress Press.
2. Gupta K.K. and Tyagi, V. C., (1992) *Working with Map*, Survey of India, DST, New Delhi.
3. Mahiyar, K. K & Mahiyar S. R., (2019) *Concept of Cartography, Remote Sensing and GIS* English publication, New Delhi.
4. Mishra R.P. and Ramesh, A., (1989) *Fundamentals of Cartography, Concept, N Resources & Economic Geography* etc Delhi.
5. Monkhouse F. J. and Wilkinson H. R., (1973) *Maps and Diagrams*, Methuen, London.
6. Elind D. W. and Taylor D. R. F., (eds.), (1989) *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
- Robinson A. H., (2009) *Elements of Cartography*, John Wiley and Sons, New York.
- Sharma J. P., (2010) *Geographic Blagad*, Rainco Publishers, Meerut.

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9. Singh R. L. and Singh R. P. B., (1999) *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
10. Sinha, M.M. P., (2017) *Geoh Cartography*, Rajesh Publication, New Delhi.
11. Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., New Delhi.
12. Singh R L & Singh Rana P B, (1991) *Prayogmatk Bhugol ke Mool Tarika*, Kalyani Publishers, New Delhi.
13. Sharma, J P (2010) *Prayogmatk Bhugol ki Koshprekha*, Rastogi Publications, Meerut.
14. Singh, R L & Datta, P K (2012) *Prayogmatk Bhugol*, Central Book Depot, Allahabad.

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5. Sharma, T. C. 2003: *India - Economic and Commercial Geography*. Vikas Publ., New Delhi.
6. Singh R. L., 1971: *India: A Regional Geography*. National Geographical Society of India.
7. Singh, Jagdish 2003: *India - A Comprehensive & Systematic Geography*. GyandayaPrakashan, Gorakhpur.
8. Spate O. H. K. and Leamonth A. T. A., 1967: *India and Pakistan: A General and Regional Geography*. Methuen.
9. Sinha, V.N.P et al., (2013), Bihar: Land, People and Economy, Rajesh Publication, New Delhi
10. Sinha, V.N.P et al., (2014), Bihar Ka Itihast, Rajesh Publication, New Delhi
11. Sharma, Nandeshwar (2007), Bihar ki BhugolikSamiksha, Vansidhars Prakashan, Gorakhpur

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GEOGRAPHY**SEMESTER -IV**

TYPE OF COURSE	:	MIC-7 (T) Full Marks: 100
NAME OF COURSE	:	Statistical Methods in Geography ESE: 70
CREDIT	:	JCIA: 30

COURSE OBJECTIVES :

1. Enable the students to differentiate between quantitative and qualitative information
2. To understand the various data sets, its sources and methods of data collection.
3. To enhance the study of Geography in quantitative terms with the use of statistical methods

COURSE OUTCOMES :

After completion of the course students will be able to:-

1. Know the various types of data and its sources
2. Present data in graphical and pictorial form
3. Produce various types of data tabulation

Unit	Topics	No. of Lectures
I	Use of Data in Geography: Significance of Statistical Methods in Geography, Sources and Types of Data, Scale of Measurement.	8
II	Measures of Central Tendency: Mean, Median, Mode - Concept and Properties; Measures of Dispersion	8
III	Sampling Methods: Types of Sampling- Probability & Non-Probability Sampling	8
IV	Correlation: Meaning and Types -Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation Coefficient and Scatter Diagram; Regression Analysis	8
Total		30

Suggested Readings:

1. Berry B. J. L. and Marble D. F. (eds.): *Spatial Analysis - A Reader in Geography*.
2. Ebdon D., (1977) *Statistics in Geography: A Practical Approach*.
3. Hammond P. and McCullagh P. S., (1978) *Quantitative Techniques in Geography: An Introduction*. Oxford University Press.
4. King L. S., (1969) *Statistical Analysis in Geography*, Prentice-Hall.
5. Mahmood A., (1977) *Statistical Methods in Geographical Studies*. Concept.

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- E. Silk J., (1979) *Statistical Concepts in Geography*, Allen and Unwin, London.
9. Spiegel M. R.: *Statistics, Schaum's Outline Series*.
10. Yeates M., (1974) *An Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, New York.
11. Shikha, Indira (2007) *Samkhyikibhugol*, Discovery Publishing House, New Delhi

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GEOGRAPHY

SEMESTER -V

TYPE OF THE COURSE : MJC-8 (T) **Full Marks: 100**
NAME OF THE COURSE : ENVIRONMENTAL GEOGRAPHY **ESE: 70**
CREDIT : 5 **CIA: 30**

COURSE OBJECTIVES :

1. To understand the Environmental Geography - its concepts and Components.
2. To critically examine Environmental degradation and pollution.
3. To provide a theoretical and empirical framework for understanding environmental law.

COURSE OUTCOMES :

After completion of the course, students will be able to-

- 1: Develop an idea about Environment and different fundamental concepts
- 2: Understand its environmental degradation and various types of pollutions
- 3: Assess the role of anthropogenic activities producing pollution.
- 4: Explain different types of environmental crisis and Bio-diversity.
- 5: Understand the processes of natural hazards and disasters.

UNIT	TOPICS	No. of Lectures
I	Environmental Geography: meaning and concept, Environmental degradation, Bio-diversity: Hot Spots, Heat island, Components of environment and their inter-relationship, Concepts and types of Eco-system, Ecological balance, Bio-energy Cycle.	12
II	Environmental pollution : Air pollution, Water pollution, Noise pollution, Sound pollution, and their remedial measures, International standard of Drinking water	12
III	Environmental Degradation: Causes and Impacts, Natural Disasters: Drought, Flood and Earthquake, Environmental Pollution : Air Pollution, Water Pollution, Environmental management and policies.	14
IV	Sewage disposal, Clearing of rivers, Natural hazards and disasters, Radiation hazards, Gas leak, Acid rain, Environmental laws.	12
Total		50

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Suggested Readings:-

1. Chandra R. C., (2002)*Environmental Geography*, Kalyani, Lucknow.
2. Cunningham W. P. and Cunningham M. A., (2004)*Principals of Environmental Science: Inquiry and Applications*, Tata McGraw Hill, New Delhi.
3. Goudie A., (2001)*The Nature of the Environment*, Blackwell, Oxford.
4. Mal, Suresh, and Singh, R.B. (Eds.) (2009) *Biogeography and Biodiversity* Rawat Publications, Jaipur.
5. Miller G. T., (2004)*Environmental Science: Working with the Earth*, Thomson Brooks/Cole, Singapore.
6. MoEF, (2006)*National Environmental Policy-2006*, Ministry of Environment and Forests, Government of India.
7. Singh, R.B. and Hietala, R. (Eds.) (2014) *Livehood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India*. *Advances in Geographical and Environmental Studies*, Springer.
8. Odum, E. P. et al. (2001)*Fundamentals of Ecology*, Cengage Learning India.
9. Singh S., (1997)*Environmental Geography*, PrayagPustakBhawan, Allahabad.
10. UNEP, (2007)*Global Environment Outlook: GEO4: Environment for Development*, United Nations Environment Programme.
11. Singh, M., Singh, R.B. and Hossain, M.I. (Eds.) (2014) *Climate change and Biodiversity: Proceedings of ICGI Rohak Conference, Volume 1*. *Advances in Geographical and Environmental Studies*, Springer.
12. Singh, R.B. (1998) *Ecological Techniques and Approaches to Vulnerable Environment*, New Delhi, Oxford & IBH Pub.
13. Singh, Savitri 2001. *Paryavaran Vigyan*, PrayagPustakBhawan, Allahabad. (in Hindi).

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GEOGRAPHY

SEMESTER -V

TYPE OF THE COURSE :	MJC-9 (T)	Full Marks: 100
NAME OF THE COURSE :	CARTOGRAPHIC TECHNIQUES	ESE: 70
CREDIT :	3	CIA: 30

COURSE OBJECTIVES :

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of topographical and weather maps.

COURSE OUTCOMES :

This is a practical, hands-on course; when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their use.
3. Understand and perform interpretation of topographical maps and weather maps.

UNIT	TOPICS	No. of Lectures
I	Nature and Scope of Cartography, Scale- Concept and Application, Graphical Construction of Simple, Comparative and Diagonal Scales.	8
II	Weather Map - Difference between Climate and Weather, Significance of weather maps, Study and Interpretation of Weather Maps, Cloud types, Methods of interpretation of daily weather maps, Development of weather forecasting technology	8
III	Map Projections - Concept, Classification and Properties, Graphical Construction of Cylindrical Equidistant and Equal Area Projection, Conical Projection with One and Two Standard Parallels, Zenithal Equi-Distant and Equal Area Projection.	8
IV	Topographical Map - Development of topographical mapping in India, Maps of Survey of India, Methods of study of the Topographical maps, Interpretation of Topographical Maps.	6
Total		30

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Suggested Readings:-

1. Anon, R. and Ormeling, F. J., (1994) International Cartographic Association: Basic Cartographic Vol. Program Press.
2. Gupta, K.K. and Tyagi, V. C., (1992) Working with Maps, Survey of India, DST, New Delhi.
3. Maitiyar, K. K. & Maitiyar S. R., (2019) Concept of Cartography, Remote Sensing and GIS, Rajesh publication, New Delhi.
4. Mishra, R.P. and Ramach, A., (1999) Fundamentals of Cartography, Concept, NResource & Economic Geography New Delhi.
5. Monkhouse, F. J. and Wilkinson H. R., (1973) Maps and Diagrams, Methuen, London.
6. Rhind, D. W. and Taylor D. R. F., (eds.), (1989) Cartography: Past, Present and Future, Elsevier, International Cartographic Association.
7. Robinson, A. H., (2009) Elements of Cartography, John Wiley and Sons, New York.
8. Sharma J. P., (2010) Prayogic Bhugol, Ratogi Publishers, Meerut.
9. Singh R. L. and Singh R. P. B., (1999) Elements of Practical Geography, Kalyani Publishers, New Delhi.
10. Sinha, M.M.P., (2017) Uchh Cartography, Rajesh Publication, New Delhi.
11. Sarkar, A. (2015) Practical geography: A systematic approach, Orient Black Swan Private Ltd., New Delhi.
12. Singh R.L. & Singh Rana P.B., (1991) Prayogmakbhugol ke Mool Tatva, Kalyani Publishers, New Delhi.
13. Sharma, J.P. (2010) Prayogmakbhugol ke Roopretha, Ratogi Publications, Meerut.
14. Singh, R.L. & Datta, P.K. (2012) Prayogmakbhugol, Central Book Depot, Allahabad.

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GEOGRAPHY

SEMESTER -V

TYPE OF THE COURSE :	MJC-9 (P)	Full Mark: 100
NAME OF THE COURSE :	CARTOGRAPHIC TECHNIQUES	ESE: 70
CREDIT :	3	CIA: 30
COURSE OBJECTIVES :		

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;
2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes;
3. Better understanding of the techniques for interpretation of topographical and weather maps.

COURSE OUTCOMES :

This is a practical, hands-on course; when students complete it, they will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography
2. Recognize the benefits and limitations of some common map projections and their use.
3. Understand and perform interpretation of topographical maps and weather maps.

UNIT	TOPICS	No. of Lectures
I	Nature and Scope of Cartography, Scale- Concept and Application, Construction of Simple, Comparative and Diagonal Scales.	15
II	Topographical Map - Study and Interpretation of Topographical Maps, Map Projection: Cylindrical Equal Area and Equal Area Projection, Conical Projection with One and Two Standard Parallels, Zenithal Equal-Distant and Equal Area Projection.	15
III	Practical Record and Viva-voce	
Total		30

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GEOGRAPHY
SEMESTER - VI

TYPE OF COURSE : MAC-10 (T)

FULL MARKS: 100

NAME OF COURSE : EVOLUTION OF GEOGRAPHICAL THOUGHT

ESE- 70 MARKS

CREDIT : 8

CIA- 30 MARKS

Course Objectives:

1. Understanding historical evolution of geographic thought.
2. Detailed analysis of different paradigms in geography.
3. Evaluating the contemporary trends in geographical studies

Course Outcomes:

After studying, students will be able to:

1. Understand the evolution of geographical thought and relation of Geography with other Sciences.
2. Detailed knowledge about the paradigms and debates in the geographical studies.
3. Understanding of recent traditions in geography.

UNIT	TOPICS	NUMBER OF LECTURES
I	Meaning and Definition of Geography, Relation of Geography with Other Sciences.	10
II	Contribution of Geographers: Eratosthenes, Ptolemy, Strabo, Al-Idrisi, Al-Masudi, Humbolt, Ritter, Ratzel, Blache and Mackinder.	15
III	Dualism in Geography- Physical Vs Human Geography, Determinism Vs Possibilism, Neo-Determinism, Systematic Vs Regional.	10
IV	Concept and Methodological development in Geography, Quantitative Revolution, Behaviouralism, Applied Geography.	15

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GEOGRAPHY SEMESTER - VI

TYPE OF COURSE : MAC- 11 (T)

FULL MARKS: 100

NAME OF COURSE : RESEARCH METHODOLOGY AND FIELD WORK

ESE- 70 MARKS

CREDIT : 4

CIA- 30 MARKS

Course Objectives:

1. To understand concept and various techniques of research methodology in geography;
2. Detailed analysis of different field survey techniques.
3. Understanding of the report writing and field tools.

Course Outcomes:

After learning, students will be able to:

1. Detailed exposure of new geographical landscape in study area.
2. In-depth knowledge of different field techniques.
3. Understanding the field ethics and different tools of field study.

UNIT	TOPICS	NUMBER OF LECTURES
I	Research - Meaning and its Types, Hypothesis, Research Methodology: Merits and demerits of Quantitative and Qualitative techniques.	12
II	Field Techniques: Merits, Demerits and Selection, Observation, Questionnaire, Schedule and Interview Method, Sampling and its Types.	10
III	Case Study Method of Research: Definition, Nature and Field Tools.	8
IV	Field Report: Aims and Objectives, Data Analysis, Interpretation and Report Writing, Bibliography.	10
Total		40

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Suggested Readings

1. Creswell J., (1994) *Research Design: Qualitative and Quantitative Approaches* Sage Publications.
2. Dikshit, R. D. (2003) *The Art and Science of Geography: Integrated Readings*. Prentice-Hall of India, New Delhi.
3. Evans M., (1988) "Participant Observation: The Researcher as Research Tool" in *Qualitative Methods in Human Geography*, eds. J. Eyles and D. Smith, Polity.
4. Kothari C.R., (2004) *Research Methodology: Methods and Techniques*. New Age: New Delhi.
5. Mukherjee, Neela, (1993) *Participatory Rural Appraisal: Methodology and Application*, Concept Publs. Co., New Delhi.
6. Mukherjee, Neela (2002) *Participatory Learning and Action: with 100 Field Methods*. Concept Publs. Co., New Delhi
7. Robinson A., (1998) "Thinking Straight and Writing That Way", in *Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences*, eds. by F. Prysak and R. Bruce Prysak, Publishing: Los Angeles.
8. Special Issue on "Doing Fieldwork" *The Geographical Review* 91:1-2(2001).
9. Stoddard R. H., (1982) *Field Techniques and Research Methods in Geography*. Kendall/Hunt.
10. Wolcott H. (1995) *The Art of Fieldwork*. Alta Mira Press, Walnut Creek, CA.

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GEOGRAPHY
SEMESTER -VI

TYPE OF COURSE	: MJC-12 (T)	FULL MARKS: 100
NAME OF COURSE	: REMOTE SENSING AND GIS	ESE: 70
CREDIT	: 3	CTA: 30

Course Objectives:

1. The course aims to give basic technical knowledge and practical experience in digital remote sensing.
2. Knowledge and practical experience in handling satellite images focusing on hands-on experience of image pre-processing, enhancement and classification.
3. Better understanding the techniques for the study of land use land cover and urban study.

Course Outcomes:

After studying this course students will be able to:

1. Explain principles of remote sensing, different satellite systems and sensors.
2. Understand concept and methods of image processing, enhancement and classification and interpretation of satellite images.
3. Application of image preprocessing techniques for land use land cover and urban studies.

UNIT	TOPICS	NO OF LECTURES
I	Remote Sensing: Basic Concept, Historic Development and Significance, Elements of Satellite Imageries.	07
II	Process and Stages of Remote Sensing: Electromagnetic Spectrum, Interaction of EMR with Earth Surface Features.	07
III	Sensors and their Types; Platforms; Application of Remote Sensing.	06
IV	Geographic Information System (GIS): Definition, Basic Elements, Functions and Uses, Raster and Vector data Structure, Application of GIS.	10
Total		30

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Suggested Readings:

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guilford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
3. Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
5. Mahiyar, K. K. & Mahiyar S. R., (2019) *Concept of Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
6. Nag P. and Kudra, M., (1998) *Digital Remote Sensing*, Concept, New Delhi.
7. Rees W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) *Practical geography: A systematic approach*, Orient Black Swan Private Ltd., New Delhi.
11. Channiyal, D.D. (2010) *Sadar Samvestitesevamlhogolik Sochana Pratali*, Sharda Patali Bhawan, Allahabad.

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GEOGRAPHY
SEMESTER -VI

TYPE OF COURSE : MJC-12 (P)

FULL MARKS: 100

NAME OF COURSE : REMOTE SENSING AND GIS

ESE- 70 MARKS

CREDIT : 2

CEA- 30 MARKS

Course Objectives:

1. The course aim is to give basic technical knowledge and practical experience in digital remote sensing and GIS;
2. Knowledge and practical experience in handling spatial data;
3. Better understand the techniques for the study of land use land cover and urban study.

Course Outcomes:

This is a practical, hands-on course; after studying this course students will be able to:

1. Learning the use of GIS technique for image interpretation.
2. Create line, point and Polygon using GIS technique.
3. Application of Image processing technique for land use and land cover for urban studies.

UNIT	TOPICS	NO OF LECTURES
I	Geo-referencing, Aerial Photo Interpretation.	6
II	Creating Point, Line and Shape files.	6
III	Creating Point Data from table; Creating Buffer, Choropleth Map, Satellite Image Classification and Interpretation.	8
IV	Practical Record and Viva-voce	-
Total		20

Suggested Readings:

1. Campbell J. B., (2007) *Introduction to Remote Sensing*, Guildford Press.
2. Jensen J. R., (2004) *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
- Joseph, G. (2005) *Fundamentals of Remote Sensing*, United Press India.
- Lillesand T. M., Kiefer R. W. and Chipman J. W., (2004) *Remote Sensing and Image*

Interpretation, Wiley. (Wiley Student Edition).

5. Maltiyar, K. K & Maltiyar S. R., (2019) *Concept of Cartography, Remote Sensing and GIS*, Rajesh publication, New Delhi.
6. Nag P. and Kadra, M., (1998) *Digital Remote Sensing, Concept*, New Delhi.
7. Ross W. G., (2001) *Physical Principles of Remote Sensing*, Cambridge University Press.
8. Singh R. B. and Murai S., (1998) *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
9. Wolf P. R. and Dewitt B. A., (2000) *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
10. Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., New Delhi.
11. Chauriyal, D.D. (2010) *Sudar Satrsvedan evam Bhogolik Suchana Pransli*, Sharda Pustak Bhawan, Allahabad.

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3. Friedmann J. and Alonso W. (1975) *Regional Policy - Readings in Theory and Applications*, MIT Press, Massachusetts.
4. Gore C. G., (1984) *Regions in Question: Space, Development Theory and Regional Policy*, Methuen, London.
5. Gore C. G., Köbler G., Reich U-P. and Ziesemer T., (1996) *Questioning Development: Essays on the Theory, Politics and Practice of Development Intervention*, Metropolis- Verlag, Marburg.
6. Hayes J., (2008) *Development Studies*, Polity Short Introduction Series.
7. Johnston E. A. J., (1970) *The Organization of Space in Developing Countries*, MIT Press, Massachusetts.
8. Poot R., (1999) *Theories of Development*, The Guilford Press, New York.
9. UNDP (2001-04) *Human Development Report*, Oxford University Press, New York.
10. World Bank (2001-05) *World Development Report*, Oxford University Press, New York.

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GEOGRAPHY
SEMESTER - VII

TYPE OF COURSE	: NJC-13 (T)	FULL MARKS: 100
NAME OF COURSE	: REGIONAL PLANNING AND DEVELOPMENT	EST- 70 MARKS
CREDIT	: 3	CIA- 30 MARKS

Course Objectives:

1. To understand the concept of Region and Regional Planning.
2. To familiarize the students with Theories and Models for Regional Planning.
3. To develop understanding about concept of development and different programmes and policies of development and planning.

Course Outcome:

After studying, students will be able to:

1. Conceptualize the Regional Planning and its theories.
2. Get the overview of Sustainable Regional Development.
3. Have sound knowledge for Development Policies and Programmes.

UNIT	TOPICS	NUMBER OF LECTURES
I	Concept of Region, Types of Regions, Regional Hierarchy, Need for Regional Planning.	10
II	Indicators of Development, Regional Disparity in India, Planning Region: Characteristics of an Ideal Planning Region, Regionalization: Concept and Methods of Delineation.	15
III	Planning of Remote and Problem Regions: Hilly Regions, Tribal Region and Flood Prone Region.	10
IV	Model of Regional Planning - Growth Pole Model of Perroux, Rostow's Model; Concept of PIRA; Public participation in regional Planning; Panchayat Raj System.	15
Total		50

Suggested Reading:

1. Digby J. De. (1971) *Geography: Regions and Concepts*, John Wiley and Sons.
2. Cleavel P.L. (1998) *An Introduction to Regional Geography*, Blackwell Publishers, Oxford and

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SUGGESTED READING:

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters. Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters. Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Saha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stohrman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications, Dordrecht.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007. Publisher-LK. International Pvt. Ltd. S-25, Green Park Extension, Uptown Cinema Market, New Delhi, India (www.lkbooks.com)

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GEOGRAPHY

SEMESTER -VII

TYPE OF THE COURSE :	MJC-15 (P)	Full Marker: 100
NAME OF THE COURSE :	DISASTER MANAGEMENT	ESE: 70
CREDIT :	2	CIA: 30
COURSE OBJECTIVES :		

1. Understanding the basic concepts of disaster management;
2. Detailed analysis about the different types of disasters in India;
3. Evaluating the role of institutional frameworks to mitigate the disasters in the country.

COURSE OUTCOMES :

After completion of the course, students will be able to-

1. Understanding about the various disasters in the country.
2. Providing thorough understanding about the human responses to the disasters.
3. Human responses and mitigating measures to both natural and manmade disasters.
4. Understanding the processes of natural hazards and disasters.
5. Explaining different types of environmental crisis.

ESE will consists of 70 marks out of which 40 marks will be on written test and 30 marks for Viva-voce on Project Report.

UNIT	TOPICS	No. of Lectures
I	Field Work and Preparation of Project Report on any one of the following: Flood, Drought, Earthquake, Erosion by rivers, Human induced Disasters: Fire Hazards, Electric shorts, Bursting of domestic Gas Cylinder, Chemical disasters, Industrial accidents, Road - Rail accidents, Problem of solid Waste.	10
II	Natural Disasters in India: Causes, Impact and Distribution; Flood, Drought, Earthquake and Cyclone.	10
III	Project Report and Viva-voce	
Total		20

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Suggested Reading :

1. Government of India. (1997) *Vulnerability Atlas of India*. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) *Vulnerable India: A Geographical Study of Disasters*, Sage Publication, New Delhi.
3. Modi, S. (2010) *Managing Natural Disaster: Hydrological, Marine and Geological Disasters*. Macmillan, Delhi.
4. Singh, R.B. (2005) *Risk Assessment and Vulnerability Analysis*, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) *Natural Hazards and Disaster Management: Vulnerability and Mitigation*, Rawat Publications, New Delhi.
6. Sarda, A. (2001), *Disaster Management: Lessons Drawn and Strategies for Future*, New United Press, New Delhi.
7. Stoffman, J.P. et al. (2004) *International Perspectives on Natural Disasters*, Kluwer Academic Publications, Dordrecht.
8. Singh Jagbir (2007) *Disaster Management Future Challenges and Opportunities*. Publisher- I.K. International Pvt. Ltd. 5-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com)
9. Singh, R. B. (ed.), (2006) *Natural Hazards and Disaster Management: Vulnerability and Mitigation*, Rawat Publications, New Delhi.
10. Sarda, A. (2001). *Disaster Management: Lessons Drawn and Strategies for Future*, New United Press, New Delhi.

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GEOGRAPHY

SEMESTER -VII

TYPE OF COURSE	:	MJC-16 (T)	Full Marks: 100
NAME OF COURSE	:	SOCIAL GEOGRAPHY	ESE - 70 Marks
CREDIT	:	4	CIA - 30 Marks

COURSE OBJECTIVES:

1. To familiarise the student with the theoretical foundations and conceptual grounding of unique of social geography.
2. To appreciate the roles of geographic factors in socio-cultural diversity in terms of caste, class, religion etc.
3. To analyse in details the social wellbeing, problems and welfare programmes and policies.

COURSE OUTCOMES:

After studying, students will be able to:

1. Get Knowledge of the social geography and social diversity.
2. Appraise the key concepts of social geography in regional context; geographic factors underlying patterns of social well-being and inclusive development.
3. Explain the social problems and the welfare programs and policies.

UNIT	TOPICS	No. of Lectures
I	Social Geography: Concept, Nature and Scope, Migration: Causes and Consequences.	10
II	Social Categories: Caste, Religion, Race - their Spatial distribution.	10
III	Geography of Welfare and Social Wellbeing: Concept and Components, Healthcare, Housing and Education -Concept and Problems.	10
IV	Geography of Social Inclusion and Exclusion, Slums & Social Conflicts, Social Planning in India.	10
	TOTAL	40

Suggested Readings:-

1. Ahnold A., (1999) *Social Geography*, Rawat Publications.
2. Carosi V. I. D. Jr., (2009) *Social Geography: A Critical Introduction*, Wiley Blackwell.
3. Ceter J. and Jones T., (2000) *Social Geography: An Introduction to Contemporary Issues*, Hodder Arnold.
4. Hult L., (2011) *Geographies of Children, Youth and Families: An International Perspective*, Taylor & Francis.
5. Bazell R., (2004) *Social Geographies: From Difference to Action*, Sage.
6. Rachel P., Byrka M., Fuller D., Gough J., Macfarlane R. and Mowl G., (2001) *Introducing*

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Social Geographies, Oxford University Press.

- Smith D. M., (1977) *Human geography: A Welfare Approach*, Edward Arnold, London.
- Smith D. M., (1994) *Geography and Social Justice*, Blackwell, Oxford.
- Smith S. J., Pain R., Marston S. A., Jones I. P., (2009) *The SAGE Handbook of Social Geographies*, Sage Publications.
- Snyder, David (1983) *An Exploration of India*, Cornell University Press, Ithaca
- Valentine G., (2001) *Social Geographies: Space and Society*, Prentice Hall.

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Semester VII

MJC 14- Research Methodology (Social Sciences & Humanities)

Course credit- 05, Full mark- 100

Course Objectives:

CO1: The course intends to familiarize the students of the fundamentals and process of research.

CO2: to acquaint the students with research aptitude in knowledge seeking.

CO3: to enable students to scientifically assess the reliability and validity of facts.

CO4: To empower students to conduct a factual estimate of socially relevant issues in a scientific manner.

Course Outcomes

On completion of the Course, the students can undertake independent research with following Outcomes:

LOC 1: Students will gain skills of scientific analysis.

LOC 2: Students will gain contemporary and interdisciplinary knowledge.

LOC 3: Students will have global understanding of nuances of Research.

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Unit	Topics to be covered	No. of lectures
I	Research- Meaning, Purpose, Significance, Types, Stages of Research, Review of Literature, Ethical issues in Research, Plagiarism.	04
II	Research Design- Meaning and types, Identification of Research Problems and Types of variables. Hypothesis- Nature, Types, Sources, Importance, Characteristics of a good hypothesis.	10
III	Method and Tools of Data Collection Sources of Data- Primary and Secondary, Comparative method, Observation, Interview, Questionnaire, and Schedule Sampling Method- Concept, Types, Purpose, and Rationale	12
IV	Analysis and Processing of Data, Classification, and Tabulation of Data Measures of Central Tendency and Variability, Graphic representation Use of Internet and Computer technologies in Research- MS Word, MS Excel, Power point Presentation, SPSS	10
V	Report Writing and Thesis writing- Objective, Content, Layout, Research proposal/ Synopsis. Referencing- Endnote, Footnote, In-text citation, Index, Dierential work, Bibliography (MLA and APA formats), Weblography	10
Tutorial		10
Total		60

Suggested readings

1. Akeroff, R.L., (1953), " Design of social research" The University of Chicago Press, Chicago.
2. Goode, W. and Hatt, P.K., (1952), "Methods in Social Research" MC Graw-Hill.
3. Sharma, V.P. (2012), " Research Methodology" PanchsheelPrakashan, Jaipur.
4. Singh, A.K., "Test Measurements and Research Methods in Behavioural Sciences" Bharati Bhawan Publication.
5. मिश्रा , जयदेव : ऐतिहासिक अनुसन्धान, काशी प्रसाद जयसवाल शोध संस्थान , पटना।
6. अहूज, राम: सामाजिक अनुसन्धान, रायत प्रकाशन, जयपुर।
7. रणा सुनील कुमार सिंह - सामाजिक शोध की पद्धति।
8. सावित्री सिन्हा: अनुसन्धान का स्वल्प, मेधावत पब्लिशिंग हाउस , दिल्ली।
9. विनय जोहन शर्मा: शोध पद्धिधि , मेधावत पब्लिशिंग हाउस , दिल्ली।
10. सावित्री सिन्हा: अनुसन्धान की प्रक्रिया , विजयवद स्नातक, वीपी अनुवाद परिषद्।

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