

**MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH****Coursework Syllabus**

For Pre-PhD programme as per  
National Education Policy 2020

For

Doctor of Philosophy

In

**Geography**

Effective from 15-02-2024



Prepared and approved by:  
Board of Studies of Geography  
Shibli National College  
Maharaja Suhel Dev State University  
Azamgarh-276128, Uttar Pradesh, India

Prepared on 13-02-2024

**Prepared by**

**Dr. Ehteshamul Haque**

Convener, Board of Studies of Geography  
Shibli National College  
Maharaja Suhel Dev State University  
Azamgarh-276001

**Prof. Ahmad Ali**

Member, Board of Studies of Geography  
Shibli National College  
Maharaja Suhel Dev State University  
Azamgarh-276001



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Dr. Hasibur Rahaman  
Invited Member as an expert  
Department of Geography  
Shibli National College  
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**Prof. Ahmad Ali**

Member, Board of Studies of Geography  
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**MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH**

List of all papers of Pre-Ph.D. course work or Post graduate diploma in Research (PGDR) in Geography

Year	Sem.	Course Code	Course Title	Theory/ Research	Credit	Max. Marks
6	XI	A111101T	Themes in Physical Geography	Theory	6	100 [25(CIE)+75(UE)]
		A111102T	Themes in Human Geography	Theory	6	100 [25(CIE)+75(UE)]
		A111103T	Research Methodology, Research Publication Ethics and Computer Applications	Theory	4	100 [25(CIE)+75(UE)]
		A111104R	Research Project	Research	-	100 [25(CIE)+75(UE)]

**Credit system:**

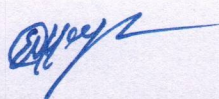
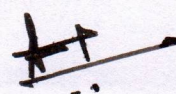
- A four (4) credit theory course/paper will have four Lectures/periods (of one hour) in a week. In one full semester the course will be covered in 60 Lectures.
- Similarly, a six (6) credit theory course/paper will have six Lectures/periods (of one hour) in a week. In one full semester the course will be covered in 90 Lectures.

**Continuous Internal Evaluation (CIE) of 25 marks:**

- Continuous internal evaluation will be performed by the teacher/ course coordinator concerned.
- CIE shall be 25% of total assessment in a Theory paper and research project.
- 25 marks shall be distributed as 5 marks for attendance, 5 marks for presentation and assignment and remaining 15 marks for class test.

**Marking system:**

- All papers will have a total maximum mark of 100, including both CIE and University Examination (UE). Maximum marks of 25 will be allotted to CIE and 75 to UE in a theory paper/ research project.
- The CIE of the research project shall be evaluated by the research supervisor and co-supervisor (if any).



- 75 marks of **research project** shall be distributed as 50 marks (project work and presentation) and a viva voce of 25 marks.
- The evaluation (Max Marks 75 UE) of the research project shall be done by internal examiner/s (Supervisor and Co-supervisor (if any)) and one external examiner appointed by the University.

#### Research Project Submission:

- The evaluated research project report in two sets of hard copy (spiral binding) must be prepared. One copy of it shall be submitted to the university if it demands. A second copy of the evaluated research project report must be in the records of the college/research centre.
- The format of university Ph.D. thesis writing guidelines can be used as format of Research project writing guidelines.

<b>Programme:</b> Post graduate diploma in Research (PGDR)		<b>Year:</b> six (6)	<b>Semester:</b> XI
Subject: Geography			
Course Code: <b>A111101T</b>		<b>Course Title:</b> Themes in Physical Geography	
<b>Course Outcomes ( COs)</b>			
CO1: To measure and understand the physical basis of selected space			
CO2: To discuss physical environment for meaningful human life			
CO3: To observe changing nature of weather and climate			
<b>Credits: 6</b>		<b>Core Compulsory</b>	
<b>Max. Marks: 25 (CIE) + 75(UE)</b>		<b>Min. Passing marks: 55</b>	
<b>Total number of lectures:</b> Lectures-Tutorial-Practical (6 hours in a week) L-T-P: 6-0-0 (90 hr#)			
<b>Unit</b>	<b>Topics</b>		<b>No. of Lecture Hrs.</b>
I	<b>Geology and Soil:</b> Statigraphy, Types of Rocks, Nature of Rocks, Types of Soil and their characteristics		15
II	<b>Physiography:</b> Mountains & Hills, Plateau, Plain and other landforms, Morphology and Slope		15
III	<b>Weather and Climate:</b> Types of seasons, Temperature, Rainfall, Humidity, Climatic Disaster		15
IV	<b>Drainage:</b> Types of Drainage, Pattern and Morphology, Sinusity Index, Perennial and Ephemeral rivers		15
V	<b>Natural Vegetation:</b> Area, Growth, Distribution of natural Forest, Types and Nature of forest, Forest Programs		15
VI	<b>Animal and Livestock:</b> Major types of Wild Animals, Cattle and Bird		15

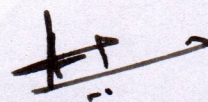
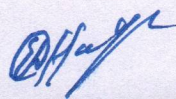


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# One credit is equivalent to 15 lecture hours as per NEP norms in theory classes. Number of hours in each unit 15 hours may vary as per the content of the unit.

**Suggested Readings:**

1. Chorley, R.J. : Spatial Analysis in Geomorphology, Methuen, London, 1972.
2. Cooke, R.U. and Doornkamp, C. : Geomorphology in Environmental Management : A Introduction, Clarendon Press, Oxford, 1974.
3. Haroon, M. Pathak, G : Geomorphology (Hindi), Wisdom Publication, Varanasi 2022.
4. Stoddart, D.R.: (ed) Process and Form in Geomorphology, Routledge New York, 1996.
5. Skinner, B. J. and Porter, S.C.: The Dynamic Earth, JohnWiley, New York, 1995.
6. Anhert, Frank: Introduction to Geomorphology, Routledge, New York, 1998.
7. Sharma, H.S.; Perspective in Geomorphology, Concept, New Delhi, 1980.
8. Thornbury, W. D.: Principles of Geomorphology, Jhon Wiley New York, 1960.
9. Singh, S: Geomorphology (Hindi, English) Pravalika Prakashan, Paryag 2015.
10. Thornbury ,W. : Principals of Geomorphology, New Age International Publisher 2018
11. Hagget ,RJ : Fundamentals of Geomorphology, Taylor and Francis New Delhi 2016
12. Rawat, M S : Environmental Geomorphology and Watershed Management, Concept Publishing Company, New Delhi 2021
13. Barry R.G. and Chorley R.J. : Atmosphere, Weather and Climate Routledge, London and New Year, 1998
14. Critchfield, J.H.: General Climatology, Prentice Hall, New Delhi, 1993
15. Lal, D.S: Climatology, Chaitanya Publications, Allahabad, 1986
16. Lydolph, P.E.: The Climate of the Earth, Rowman. 1985.
17. Robinson P.J. and Henderson S: Contemporary Climatology Henlow, 1999
18. Addison H: Land, Water and Flood, Chapman and Hall, London, 1961.
19. Chorley R.J.: Water, Earth and Man, Methuen, London, 1967.
20. Jones J.A.A.: Global Hydrology: Process, Resources and Environmental Management, Longman, London, 1997





21. Todd., D.K. : Ground Water Hydrology, John Wiley, New York, 1959.
22. Savindra Singh, : Climatology, Parvalika Prakashan, Paryagaraj, 2021
23. Triwartha, G.T.: An Introduction to Climate, MC Graw Hill, 1968
24. Mather J.R. : Climatology: Fundaments and Application, Mac Graw Hill, NewYork, 1974

<b>Programme:</b> Post graduate diploma in Research (PGDR)		<b>Year:</b> six (6)	<b>Semester:</b> XI
Subject: Geography			
Course Code: <b>A111102T</b>		Course Title: Themes in Human Geography	
<b>Course Outcomes ( COs)</b>			
CO1: To depicts human dynamics from different research concerns			
CO2: To elaborate human environment at spatio-temporal context			
CO3: To synthesize the nature of change in human environment.			
<b>Credits: 6</b>		<b>Core Compulsory</b>	
<b>Max. Marks: 25 (CIE) + 75(UE)</b>		<b>Min. Passing marks: 55</b>	
<b>Total number of lectures:</b> Lectures-Tutorial-Practical (6 hours in a week) L-T-P: 6-0-0 ( <b>90 hr</b> )			
<b>Unit</b>	<b>Topics</b>		<b>No. of Lecture Hrs.</b>
I	<b>Political Aspects:</b> Extension, Border and Neighbor, Administrative and Political regions, Physiographic regions		15
II	<b>Historical Aspects:</b> Name-Etymological, Administrative and Political Boundary, Headquarters, Core-Periphery		15
III	<b>Demographic Aspects:</b> Population size, Growth, Distribution, Density, Age-Sex composition, Child, Adult and Old Age population		15
IV	<b>Economic Aspects:</b> Occupational Structure, Sources of Income, Nature of Income, Types of Labor Forces, Agriculture, Industry, Services and others		15
V	<b>Socio-cultural Aspects:</b> Literacy, Religion, Language, Race, Castes and Ethnicity		15
VI	<b>Transport and Communication Aspects:</b> Roadways, Railways and others		15

#### Suggested Readings:

1. Berry B.J.L. And Horton F.F. : *Geographical Perspectives on Urban Systems* , Prentice Hall ,Englewood clifts , N.J. 1970
2. Dickinson R.E. *City and Region* , Routledge , London , 1964



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3. Gibbs, J.P. *Urban Research Methods*, Van Nostrand Co Princeton, N.J. 1961.
  4. Hall p : *Urban and Regional Planning*, Roulade London 1992
  5. Kundu, A : *Urban Development and Urban Research in India*, Khanna Publications, 1992
  6. Smailes A.E. : *The Geography of Towns*, Hutchinson, London 1953.
  7. Misra, RP and Misra, k.(eds.) 1998. *Millions Cities of India*, Vol.I/II, Sustainable Foundation New Delhi.
  8. Shaw, A, 2005. Peri-urban interface of India cities. Growth governance and local initiative. Economic and Political weekly 40 (2), 129-136.
  9. Hall, T. 1988, *Urban Geography*, London
  10. Misra, R.P. (2002): *Regional Planning*, Concept Publishing Company, New Delhi.
  11. Bhat, L.S. (1972) *Regional Planning in India*, Indian Institute, Calcutta.
  12. Gosal G.S. and Krishnan G: *Regional Disparities in Levels of Socio-Economic Development in Punjab*, Vishal Publications Kurukshetra, 1984.
  13. Kuklinshki A.R.(ed) : *Growth Poles and Growth Centres in Regional Planning*, Mounonj, The Hague, 1972
  14. Kundu A and Raza M: *Indian Economy: The Regional dimension* Spectrum Publishers, New Delhi, 1982.
  15. Losch, A: *The Economics of Location*, University Press, New Haven, 1954.
  16. Mishra, R.P. *Regional Planning: Concepts, Techniques and Policies*, University of Mysore, 1969.
  17. Mishra R.P. and Others (ed): *Regional Development-Planning in India: Strategy*, Institute of Development Studies, Mysore, 1974.
  18. Mahmood, Aslam, (1986), *Statistical Methods in Geographical Studies*. Rajesh Publications, New Delhi.

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<b>Programme:</b> Post graduate diploma in Research (PGDR)		<b>Year:</b> six (6)	<b>Semester:</b> XI
<b>Subject:</b> Geography			
<b>Course Code:</b> A111103T		<b>Course Title:</b> Research Methodology, Research Publication Ethics and Computer Applications	
<b>Course Outcomes ( COs)</b>			
<b>CO1:</b> With the help of this course, students will be able to decide the research field, topic, design, and pros and cons of research, sampling, and data collection techniques.			
<b>CO2:</b> The student will be able to understand the research process and acquire the skill of writing research articles.			
<b>CO3:</b> The course will enable you to execute the best practices, morals, and ethical values in scientific conduct and avoid publication misconduct.			
<b>CO4:</b> With the help of this course, students will be able to learn about the standards of journals for good-quality publications of their research work.			
<b>CO5:</b> After this course, the students will be able to learn how to use computers and different application software for manuscript writing.			
<b>CO6:</b> This course will enable the students to learn about reference management and the maintenance of academic integrity using scientific tools. They will be familiar with the protection of the machines from computer hazards.			
<b>Credits: 4</b>		<b>Core Compulsory</b>	
<b>Max. Marks: 25 (CIE) + 75(UE)</b>		<b>Min. Passing marks: 55</b>	
<b>Total number of lectures:</b> Lectures-Tutorial-Practical (4 hours in a week) L-T-P: 4-0-0 (60 hr)			
<b>Unit</b>	<b>Topics</b>		<b>No. of Lecture Hrs.</b>
I	<b>Research Methodology:</b> Definition, and Objectives, Motivation and Significance of Research, Types of Research, Truth and Facts of Research, Similarity and Contrast in Literary Research and Scientific Research, Research and Criticism, Research Problem and Research Design, Sampling Design and Methods of Data Collection.		12
II	<b>Research standards:</b> Layout of the Research Report, Research Process: subject Selection, Outline of the Research, Review of Literature, Material Collection; Testing and Classification, Analysis, Discussion and Conclusions, Precautions in Writing Synopsis/Research Paper/Thesis/Research Report.		12
III	<b>Philosophy, Ethics, Scientific Conducts and misconducts:</b> Moral Philosophy, Nature of Moral Judgments and Reactions, Publication Ethics, Best Practices/Standards Setting Initiatives and Guidelines: Committee on Publication Ethics (COPE), World Association of Medical Editors (WAME) etc., Intellectual Honesty and Research Integrity: Falsification, Fabrication and Plagiarism (FFP), Open Access Publishing, and Publication Misconduct.		08
IV	<b>Databases and Research Metrics:</b> Databases: Indexing Databases, Citation Databases: Web of Science, Scopus etc., Research Metrics: Impact Factor of Journal as Per Journal Citation Report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-		08



	Index, i-10 Index, and Altimetric.	
V	<b>Fundamentals of Computers and application Softwares:</b> Types Of Computers, Computer Peripherals and internal component, Types of Operating Systems, Web Browser, Web Search Engine, Spreadsheet Processing, Presentation (MS Power Points Preparation or Beamer or Libre Office (Optional), Project/Thesis/Report writing, Using MS-Word or LaTeX or Libre Office documentation style Labeling, References Style, Footnotes etc.	12
VI	<b>Scientific Softwares:</b> Use of Reference Management Software Like Mendeley, Zotero, Reference Manager, Endnote, Authorea Etc. Anti-Plagiarism Software Like Turnitin, iAuthenticate, Urkund, Ebooks and Virtual Library, UGC-Infonet, Computer Hazards and Security	08

### Suggested Readings:

1. C.R. Kothari, *Research methodology Methods and Techniques*, 4<sup>th</sup> Edition, New Age International (P) Ltd. Publisher, 2014.
2. W. Creswell (1999) *Research Design, Qualitative, Quantitative and mixed method approaches*, 3rd Edition, Sage Publications, Inc.
3. D.B. Resnik, (2011) what is ethics in research & Why is it important. National institute of Environmental Health Science, 1-10 Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>.
4. Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN:978-81-939482-1-7. [https://www.insaindia.res.in/pdf/Ethics\\_Book.pdf](https://www.insaindia.res.in/pdf/Ethics_Book.pdf).
5. Reema Thareja (2019) *Fundamentals Of Computers* (2<sup>nd</sup> Edition), Oxford University Press.
6. Microsoft Office 365 : A complete Guide to Master Word, Excel, and PowerPoint 365 for Beginners, Matt Vic.
7. Leslie Lamport, *LaTeX, A Document Preparation System*, 2<sup>nd</sup> Edition, Addison-Wesley Professional Publisher, July, 1994.
8. Latex tutorials <https://www.tug.org/twg/mactex/tutorials/ltxprimer-1.0.pdf>.
9. Libre Office tutorial: [www.documentation.libreoffice.org/en/english-documentation](http://www.documentation.libreoffice.org/en/english-documentation)



Suggested equivalent online courses: <https://epgp.inflibnet.ac.in/>

<b>Programme:</b> Post graduate diploma in Research (PGDR)	<b>Year: six (6)</b>	<b>Semester: XI</b>
<b>Subject: Geography</b>		
<b>Course Code: A111104R</b>	<b>Course Title: Research Project</b>	
<b>Course Outcomes (COs)</b> CO1: To execute research in a systematic manner. CO2: To reach at research findings based on scientific processes. CO3: To suggest evidence based policy intervention in accordance of research findings.		
<b>Credits: Non -Credit</b>	<b>Core Compulsory</b>	
<b>Max. Marks: 25 (CIE) + 75(UE)</b>	<b>Min. Passing marks: 55</b>	

#### Suggested Readings:

Suggested equivalent online courses: From E-Edu platforms.

Further Suggestions: Various Online Journals