



# UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A ++' GRADE UNIVERSITY)  
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: [academicsectionja14@gmail.com](mailto:academicsectionja14@gmail.com)

## NOTIFICATION (25/July/Adp./17)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the syllabi and courses of studies for **Post Graduate Programme** in **Geography** under **NEP-2020** as per details given below:-

### Two Year Post Graduate Programme under NEP-2020

Subject	Semester	For the examinations to be held in the year
Geography	Semester-I	December 2025, 2026 and 2027
	Semester-II	May 2026, 2027 and 2028
	Semester-III	December 2026, 2027 and 2028
	Semester-IV	May 2027, 2028 and 2029

### One Year Post Graduate Programme under NEP-2020

Subject	Semester	For the examinations to be held in the year
Geography	Semester-I	December 2026, 2027 and 2028
	Semester-II	May 2027, 2028 and 2029

The Syllabi of the courses are also available on the University website:  
[www.jammuuniversity.ac.in](http://www.jammuuniversity.ac.in)

Anju Ghosh  
21/7/2025  
DEAN ACADEMIC AFFAIRS

No. F. Acd/II/25/9370-72

Dated: 23/7/25

Copy for information and necessary action to:

1. Dean, Faculty of Science
2. Director/Convener, Board of Studies in Geography
3. Director, Centre for IT Enabled services and Management, University of Jammu for information and for uploading on University Website.
4. All members of the Board of Studies
5. Joint Registrar (Evaluation/P.G. Exam.)
6. Programmer, Computer Section, Examination Wing

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18/7/25  
19/7/25  
17/7/25



DEPARTMENT OF GEOGRAPHY UNIVERSITY OF JAMMU		
Course Structure under New Pattern of NEP for Two Year PG Programme ( 2025-26)		
Semester-I		
Course Code	Title	Credit
P2GETC101	GEOMORPHOLOGY	4
P2GETC102	BIOGEOGRAPHY	4
P2GETC103	REGIONAL GEOGRAPHY OF INDIA	4
P2GETE104	GEOGRAPHY OF NORTH AMERICA	4
P2GETE105	GEOGRAPHY OF SOUTH AMERICA	
P2GETE106	GEOGRAPHY OF EUROPE	
P2GEPC107	QUANTITATIVE TECHNIQUES IN GEOGRAPHY	2
P2GEPC108	CARTOGRAPHY	2
<b>Total Credit</b>		<b>20</b>

Semester-II		
Course Code	Title	Credit
P2GETC201	CLIMATOLOGY	4
P2GETC202	HISTORY OF GEOGRAPHICAL THOUGHT	4
P2GETC203	REGIONAL DEVELOPMENT & PLANNING	4
P2GETE204	POPULATION GEOGRAPHY	4
P2GETE205	RURAL GEOGRAPHY	
P2GETE206	URBAN GEOGRAPHY	
P2GEPC207	PHYSICAL SURVEY	4
P2GEPC208	FUNDAMENTALS OF REMOTE SENSING	4
P2GEVC251	MAP DIGITIZATION AND LAYOUT	4
<b>Total Credit</b>		<b>28</b>

Semester-III		
Course Code	Title	Credit
P2GETC301	OCEANOGRAPHY	4
P2GETC302	ECONOMIC GEOGRAPHY	4
P2GETC303	GEOGRAPHY OF RURAL DEVELOPMENT	4
P2GETC304	GEOGRAPHY OF ASIA	4
P2GETE305	TOURISM GEOGRAPHY	4
P2GETE306	POLITICAL GEOGRAPHY	
P2GETE307	GLACIAL GEOMORPHOLOGY	
P2GEPC308	SOCIO-ECONOMIC SURVEY	4
P2GEPC309	FUNDAMENTAL OF GIS & GPS	4
P2GEMO351	MOOC/SWAYAM	4
<b>Total Credit</b>		<b>32</b>

Semester-IV		
Course Code	Title	Credit
P2GETC401	MOUNTAIN GEOGRAPHY	4
P2GETE402	GENDER GEOGRAPHY	4
P2GETE403	AGRICULTURE GEOGRAPHY	
P2GETE404	ENVIRONMENTAL PLANNING & MANAGEMENT	
P2GERC405	DISSERTATION	8
P2GERC406	FIELD STUDY TOUR	4
P2GERC407	APPLICATION OF REMOTE SENSING & GIS IN GEOGRAPHICAL RESEARCH	4
<b>Total Credit</b>		<b>24</b>
<b>Total Credit (I+II+III+IV)</b>		<b>104</b>

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DEPARTMENT OF GEOGRAPHY UNIVERSITY OF JAMMU				
Course Structure under New Pattern of NEP for Two Year PG Programme ( 2025-26)				
Semester-I				
Course Code	Title	Credit	Level	Remarks
P2GETC101	GEOMORPHOLOGY	4	400	Global
P2GETC102	BIOGEOGRAPHY	4	400	Global
P2GETC103	REGIONAL GEOGRAPHY OF INDIA	4	400	Regional
P2GETE104	GEOGRAPHY OF NORTH AMERICA	4	400	Regional
P2GETE105	GEOGRAPHY OF SOUTH AMERICA			
P2GETE106	GEOGRAPHY OF EUROPE			
P2GEPC107	QUANTITATIVE TECHNIQUES IN GEOGRAPHY	2	200	Skill
P2GEPC108	CARTOGRAPHY	2	200	Skill
<b>Total Credit</b>		<b>20</b>		

Semester-II				
Course Code	Title	Credit	Level	Remarks
P2GETC201	CLIMATOLOGY	4	400	Global
P2GETC202	HISTORY OF GEOGRAPHICAL THOUGHT	4	400	Global
P2GETC203	REGIONAL DEVELOPMENT & PLANNING	4	400	Global
P2GETE204	POPULATION GEOGRAPHY	4	400	Global
P2GETE205	RURAL GEOGRAPHY			
P2GETE206	URBAN GEOGRAPHY			
P2GEPC207	PHYSICAL SURVEY	4	400	Local Skill
P2GEPC208	FUNDAMENTALS OF REMOTE SENSING	4	400	Skill
P2GEVC251	MAP DIGITIZATION AND LAYOUT	4	400	Vocational Based
<b>Total Credit</b>		<b>28</b>		

Semester-III				
Course Code	Title	Credit	Level	Remarks
P2GETC301	OCEANOGRAPHY	4	400	Global
P2GETC302	ECONOMIC GEOGRAPHY	4	400	Global
P2GETC303	GEOGRAPHY OF RURAL DEVELOPMENT	4	400	Global
P2GETC304	GEOGRAPHY OF ASIA	4	400	Regional
P2GETE305	TOURISM GEOGRAPHY	4	400	Global
P2GETE306	POLITICAL GEOGRAPHY			
P2GETE307	GLACIAL GEOMORPHOLOGY			
P2GEPC308	SOCIO-ECONOMIC SURVEY	4	400	Skill
P2GEPC309	FUNDAMENTAL OF GIS & GPS	4	400	Skill
P2GEMO351	MOOC/SWAYAM	4	400	Skill
<b>Total Credit</b>		<b>32</b>		

Semester-IV				
Course Code	Title	Credit	Level	Remarks
P2GETC401	MOUNTAIN GEOGRAPHY	4	400	Global
P2GEPC402	GENDER GEOGRAPHY	4	400	Global
P2GEPC403	AGRICULTURE GEOGRAPHY		400	Global
P2GEPC404	ENVIRONMENTAL PLANNING & MANAGEMENT		400	Global
P2GERC405	DISSERTATION	8	800	Dissertation (Research)
P2GERC406	FIELD STUDY TOUR	4	400	Project (Research)
P2GERC407	APPLICATION OF REMOTE SENSING & GIS IN GEOGRAPHICAL RESEARCH	4	400	Project/Internship (Research)
<b>Total Credit</b>		<b>24</b>		

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UNIVERSITY OF JAMMU  
DEPARTMENT OF GEOGRAPHY  
SYLLABUS FOR POSTGRADUATE PROGRAMME IN GEOGRAPHY  
(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020  
M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETC101  
Credit: 4

Title: Geomorphology  
Max. Marks: 100

**Objectives:**

Making the students aware about the basic concepts of Geomorphology and background knowledge of geology. Understanding the crustal mobility and tectonics with special emphasis on their role in landform development. Establishing the relationships between landforms, processes and underlying structure. Overview and critical appraisal of landform development.

Exploring how landforms and geomorphic processes vary under different climatic regimes. Develop understanding of fluvial, glacial, Aeolian and Marine geomorphic processes together with emphasis upon the applied aspect of geomorphology and hazard management.

**Unit-I**

**Contract Hours**

- |  |     |
|--|-----|
| 1.1 Fundamental concepts in Geomorphology  | (3) |
| 1.2 Development of Geomorphic Thought: Classical and Modern, Catastrophism and Uniformitarianism | (3) |
| 1.3 Geosynclines and Mountain Building (Kober and Holmes)  | (3) |
| 1.4 Geomorphic Ideas of Davis and Penck  | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1. Theories of Isostasy and Global Isostatic Adjustment                               | (3) |
| 2.2. Continental Drift Theory: Critical Evaluation of the concept of Taylor and Wagener | (3) |
| 2.3. Plate Tectonics and Palaeomagnetism  | (3) |
| 2.3. Topographic expressions of folds and faulted structure                             | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1. Weathering and Mass Movement: Factors and types                   | (3) |
| 3.2. Types of Stream and Drainage Patterns                             | (3) |
| 3.3. Dynamics of Fluvial and Marine processes and resulting landforms  | (3) |
| 3.2. Dynamics of Glacial and Aeolian processes and resulting landforms | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1. Climate Change: Impacts on geomorphic processes and landforms        | (3) |
| 4.2. Geomorphic processes and Soil formation                              | (3) |
| 4.3. Geomorphology and hazard management                                  | (3) |
| 4.4. Application of Geomorphology in Urbanization and Mineral exploration | (3) |



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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETC101  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Geomorphology  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Chorley, R.J., Spatial Analysis in Geomorphology, Methuen, London, 10972.
2. Cooke, R.U. and Doornkamp J.C., Geomorphology in Environmental Management: an Introduction, Clarendon Press, Oxford, 1974.
3. Dury, G.H., The Face of Earth, Penduin Harmondsworth, 1959.
4. Fairbridge, R.W., Encyclopedia of Geomorphology, New York, 1968.
5. Goudie, A., The Nature of the Environment, Oxford and Blackwell, London, 1993.
6. Gerner, H.F., the origin of Landscape: A Synthesis of Geomorphology, Oxford University Press, London 1974.
7. Mitchell, C.W., Terrain Evaluation, Longman, London, 1973.
8. Ollier, C.D., Weathering, Longman, London, 1979.
9. Pitty, A.F., Introduction to Geomorphology, Methuen, London, 1971.
10. Stoddart, D.R., (ed): Process and Form in Geomorphology, Routledge, New York, 1996.
11. Skinner, B.J. and Porter, S.C., the Dynamic Earth, John Wiley, New York, 1995.
12. Sparks, B.W., Geomorphology, Longman, London, 1960.
13. Sharma, H.S., (ed): Perspectives in Geomorphology, Concept, New Delhi, 1980.
14. Singh, S., Geomorphology, Prayag Publication, Allahabad, 1998.
15. Thornbury, W.E., Principles of Geomorphology, John Wiley, New York, 1960.

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M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETC102  
Credit: 4

Title: Biogeography  
Max. Marks: 100

**Objective:**

**Objective:**

The objective of this course is to understand the role of historical factor in shaping biodiversity and to develop predictive capacities for gauging biodiversity in rapidly changing world. It also helps in understanding the abiotic and biotic factors governing species diversity across space through time.

**Unit-I**

**Contract Hours**

- |  |     |
|--|-----|
| 1.1 Nature, Scope, Significance and Development of Bio-Geography.      | (3) |
| 1.2 Biosphere: World of living things including plant and animal life. | (3) |
| 1.3 Bio-Geographical cycles: Carbon, Oxygen and Hydrological cycle.    | (3) |
| 1.4 Concept of Ecosystem (Mountain and Aquatic Ecosystem).             | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Evolution of life, Lamark and Darwin's Theory.  | (3) |
| 2.2 Factors influencing growth and distribution of plants in the world.                       | (3) |
| 2.3 Phytogeography of the world: Tropical Rainforests and Temperate Deciduous forests.        | (3) |
| 2.4 Plant Succession: Meaning and concept of primary and secondary successions With examples. | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 Plant and their Classification, Taxonomic Classification, Ecological Classification, Raunkiaer's and Grime's Classification. | (3) |
| 3.2 Evolution, Dispersal and Migration of animals.   | (3) |
| 3.3 Zoogeographical realms of the world  | (3) |
| 3.4 Remote Sensing in Bio-Geography.   | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 National Parks, Wild life Sanctuaries and Bio serves in India | (3) |
| 4.2 National Forest Policy of India.                              | (3) |
| 4.3 Human Impact on Natural Ecosystem.                            | (3) |
| 4.4 Conservation measures of Biosphere Reserve.                   | (3) |









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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETC102  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Biogeography  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Agarwal, D.P. Man and Environment in India Through Ages, Brooks and Brooks, 1992.
2. Ambasht, R.S. Olant Econogy, Students, Friends and Co., Landa: Varanasi-5, 1987.
3. Chapman, J.L. and Reiss, M.J. Ecology, London: Cambridge University Press, 1997.
4. Cox, C.D. and Moore, P.D., Biogeography: An Ecology and Evolutionary approach, 5<sup>th</sup> Edn. Blackwell, 1993.
5. Hagget, R.J. Fundamentals of Biogeography, Routledge, U.S.A. 1998.
6. Hoyt J.B. Man and Earth Prentice Hall, U.S.A. 1992.
7. Illies, J. Introduction to Zoogeography, McMillan, London, 1974.
8. Khoshoo, T.N. and Sharma, M.(eds), Indian Geosphere-biosphere, Har-Anand Publication, Delhi, 1991.
9. Kormody, E.J. Concepts of Ecology, Puyblished by Asoke K. Ghosh, New Delhi, India, 2000.
10. Lapedes, D.N. Ed. Encyclopedia of Environment Science, London: McGraw Hill, 1974.

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(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020  
M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETC103  
Credit: 4

Title: Regional Geography of India  
Max. Marks: 100

**Objectives:** To provide an understanding of

- The concept of region and regionalization and to make them aware about drainage system, soil and vegetation types of India.
- The resource regions, multipurpose projects and population characteristics of the country.
- The agriculture impact of the green revolution and about the industrial development in the country.
- The geographical personality of Indo-Gangetic plains, Himachal Pradesh, coastal regions and islands of Andaman Nicobar and Lakshadweep.

**Unit-I**

**Contract Hours**

- |  |     |
|--|-----|
| 1.1 Basis of Regionalization of India                                    | (3) |
| 1.2 The question of regional disparity and identity in India             | (3) |
| 1.3 Himalayan and Peninsular Drainage Systems of India.                  | (3) |
| 1.4 Soil, Vegetation, Forest Types, their Distribution and Conservation. | (3) |

**Unit-II**

- |  |     |
|--|-----|
| 2.1 Resource Regions of India: Production, Reserves and Distribution of Coal, Petroleum and Hydro-Electricity. | (3) |
| 2.2 Production and Distribution of Iron Ore, Bauxite and Mica.   | (3) |
| 2.3 Multipurpose Projects: the Damodar Valley, Bhakra Nangal and Sardar Sarovar Dam.                           | (3) |
| 2.4 Distribution Growth and Density of Population with Special references to Post-Independence Period.         | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 Main characteristics, and problems of Indian Agriculture           | (3) |
| 3.2 Green Revolution and its Spatial Dimensions.                       | (3) |
| 3.3 Industrial Regions and Special Economic Zones of India.            | (3) |
| 3.4 Location Pattern of Iron and Steel, and Textile Industry of India. | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 Regionalization of Indo-Gangetic Plain.                               | (3) |
| 4.2 Regional Geography of Himachal Pradesh.                               | (3) |
| 4.3 Comparative Analysis of Eastern and Western Coastal Regions of India. | (3) |
| 4.4 Study of India's Islands: Andaman Nicobar & Lakshadweep.              | (3) |



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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETC103  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Regional Geography of India  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Center for Science and Environment (1988) State of India's Environment, New Delhi.
2. Chand, M. and Puri, V.K. (2000) Regional Planning in India, Allied Publishers Limited.
3. Deshpande, C.D., (1992). India's Regional Interpretation, ICSS and Northern Book Center.
4. Dreze Jean & Amartya Sen (ed) (1966). India Economic Development and Social Opportunity, Oxford University Press, New Delhi.
5. Hussain, M.(2014) Geography of India (5<sup>th</sup> Ed), McGraw Hill Education.
6. Khullar, D.R.(2011) India: A Comprehensive Geography, Kalyani Publishers.
7. Kundu, A. Raza Moonis (1982) Indian Economy – The Regional Dimension, Spectrum Publishers, New Delhi.
8. Mandal R.B. (ed) (1990) Patterns of Regional Geography – An International Perspective. Vol. 3-Indian Perspective.
9. Robinson, Fransis (1989): The Cambridge Encyclopedia of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan and Maldives, Cambridge University Press, London.
10. Sdyasuk Galina and P. Sengupta (1967): Economic Regionalization of India, Census of India.
11. Sen, Amartya (2000) Development as Freedom, Random House, Toronto.
12. Singh, R.L., (ed) (1971) India – A Region: Geography, National Geographical Society, India, Varanasi.
13. Tirtha R. & Gopal Krishna (1996) Emerging India, Reprinted by Rawat Publications, Jaipur.
14. Tirtha, Ranjit (2002), Geography of India, Rawat Publishers., Jaipur & New Delhi.
15. Tiwari, R.C. (1999) Geography of India, Prayag Publishers, Allahabad.

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M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETE104  
Credit: 4

Title: Geography of North America  
Max. Marks: 100

**Objectives:** The basic objective of this course is to make the students familiar with locations, physiography, industrial belts, drainage patterns, vegetation, soil etc. The course attempts to give regional as well as spatial perspective for synthesizing physical and social relationships.

**Unit-I**

	<b><u>Contract Hours</u></b>
1.1 Physiographic Divisions of North America	(3)
1.2 Climate types of North America	(3)
1.3 Drainage Systems	(3)
1.4 Soils and Vegetation Types	(3)

**Unit-II**

2.1 Population Distribution and Density	(3)
2.2 Population Structure and Composition	(3)
2.3 Agriculture in North America	(3)
2.4 Production and Distribution of major crops (Rice, Wheat and Tea)	(3)

**Unit-III**

3.1 Resources in North America; (Iron ore and Coal)	(3)
3.2 Major industries and industrial Regions	(3)
3.3 Urbanization Trends and Megacities	(3)
3.4 Urbanization- Challenges and Opportunities	(3)

**Unit-IV**

4.1 Geopolitical Importance of North America	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 Asia's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)



**UNIVERSITY OF JAMMU**  
**DEPARTMENT OF GEOGRAPHY**  
**SYLLABUS FOR POSTGRADUATE PROGRAMME IN GEOGRAPHY**  
**(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020**  
**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETE104  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Geography of North America  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. John Cole. "Geography of World's Major Regions".
2. Goseph J. Hobbs & Others. "World Regional Geography".
3. Hepner, G.F. "World Regional Geography: A global approach".
4. Tikka, Bali and Sekhon. "World Regional Geography".
5. Dr. Alka Gautam. "World Geography".
6. Majid Hussain. "World Geography".
7. Mehtani & Sinha. "Geography of the world".
8. R.N. Chohan. "World Geography".
9. E.A. Boateng. "A Political Geography of Africe".
10. B.S. Negi. "Economic and Commercial Geography of the World".
11. W.J. King. "The British Isles".

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M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETE105  
Credit: 4

Title: Geography of South America  
Max. Marks: 100

**Objectives:** The basic objective of this course is to make the students familiar with locations, physiography, industrial belts, drainage patterns, vegetation, soil etc. The course attempts to give regional as well as spatial perspective for synthesizing physical and social relationships.

**Unit-I**

**Contract Hours**

1.1 Physiographic Divisions of South America	(3)
1.2 Climate types of South America	(3)
1.3 Drainage Systems	(3)
1.4 Soils and Vegetation Types	(3)

**Unit-II**

2.1 Population Distribution and Density	(3)
2.2 Population Structure and Composition	(3)
2.3 Agriculture in South America	(3)
2.4 Production and Distribution of major crops (Rice, Wheat and Tea)	(3)

**Unit-III**

3.1 Resources in South America; (Iron ore and Coal)	(3)
3.2 Major industries and industrial Regions	(3)
3.3 Urbanization Trends and Megacities	(3)
3.4 Urbanization- Challenges and Opportunities	(3)

**Unit-IV**

4.1 Geopolitical Importance of South America	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 Asia's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)



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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETE105  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Geography of South America  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. John Cole. "Geography of World's Major Regions".
2. Goseph J. Hobbs & Others. "World Regional Geography".
3. Hepner, G.F. "World Regional Geography: A global approach".
4. Tikka, Bali and Sekhon. "World Regional Geography".
5. Dr. Alka Gautam. "World Geography".
6. Majid Hussain, "World Geography".
7. Mehtani & Sinha. "Geography of the world".
8. R.N. Chohan. "World Geography".
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M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER

(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code: P2GETE106

Title: Geography of Europe

Credit: 4

Max. Marks: 100

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**Objectives:** The basic objective of this course is to make the students familiar with locations, physiography, industrial belts, drainage patterns, vegetation, soil etc. The course attempts to give regional as well as spatial perspective for synthesizing physical and social relationships.

**Unit-I**

**Contract Hours**

1.1 Physiographic Divisions of South America	(3)
1.2 Climate types of South America	(3)
1.3 Drainage Systems	(3)
1.4 Soils and Vegetation Types	(3)

**Unit-II**

2.1 Population Distribution and Density	(3)
2.2 Population Structure and Composition	(3)
2.3 Agriculture in South America	(3)
2.4 Production and Distribution of major crops (Rice, Wheat and Tea)	(3)

**Unit-III**

3.1 Resources in South America; (Iron ore and Coal)	(3)
3.2 Major industries and industrial Regions	(3)
3.3 Urbanization Trends and Megacities	(3)
3.4 Urbanization- Challenges and Opportunities	(3)

**Unit-IV**

4.1 Geopolitical Importance of South America	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 Asia's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)

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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GETE106  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Geography of Europe  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. John Cole. "Geography of World's Major Regions".
2. Goseph J. Hobbs & Others. "World Regional Geography".
3. Hepner, G.F. "World Regional Geography: A global approach".
4. Tikka, Bali and Sekhon. "World Regional Geography".
5. Dr. Alka Gautam. "World Geography".
6. Majid Hussain. "World Geography".
7. Mehtani & Sinha. "Geography of the world".
8. R.N. Chohan. "World Geography".
9. E.A. Boateng. "A Political Geography of Africa".
10. B.S. Negi. "Economic and Commercial Geography of the World".
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M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER  
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code P2GEPCL107  
Credit: 2

Title: Quantitative Techniques in Geography  
Max. Marks: 50

**Objective:**

The objective of this course is to overlay descriptive aspect of geography for developing scientific approach by quantifying man environment relationship. It helps to measure reality and deviation of spatial patterns and distribution.

**Unit-I**

**Contract Hours**

- 1.1 Measure of dispersion: variability, Range, mean deviation, Quartile deviation 12  
1.2 Standard deviation, Sampling theory, Central tendency,  
1.3 Basic concepts of probability, significance 't' test & 'chi square' test,  
1.4 Basics of Microsoft Excel and SPSS software's

**Unit-II**

12

- 2.1 Correlation: Karl Pearson & Spearman's  
2.2 Regression analyses Cartography  
2.3: Choropleth, star & scatter diagrams,  
2.4 Ergographs, flow line diagrams.

**Scheme of Examination:**

Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
<b>Practical / Research (thesis/project/patent)</b>			
Internal Examination	100%	2 hours	25
External Examination	100%	2 hours	25
Total			50

1	Internal	Break up of marks
(i)	Daily Evaluation of Practical Record	10
(ii)	Attendance	05
(iii)	Test+Viva-Voce+Practical Records (6+2+2)	10
2	External	
(i)	Test	18
(ii)	Viva	05
(iii)	Practical record	02
<b>Total</b>		<b>50</b>

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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code P2GEP107  
Credit: 2  
Duration of Examination: 2 hrs.

Title: Quantitative Techniques in Geography  
Max. Marks: 50  
(a) Internal: 25  
(b) External: 25

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**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
2. Gregory S., Statistical Methods and the Geographer, Longman, London, 1978.
3. Hammond R., and P.S. McCullagh, Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford, 1974.
4. John, Peole and Cuchlaine A.M. King, Quantitative Geography, John Wiley, London, 1973.
5. Johnson, R.J., Multivariate Statistical Analysis in Geography, Longman London, 1973.
6. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
7. Peter, Hagget, Andrew D. Cliff and Allan Frey, Location Methods Vol. 1 and II, Edward Arnold, London, 1977.
8. Aslam Mahmood, Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.

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**UNIVERSITY OF JAMMU**  
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**SYLLABUS FOR POSTGRADUATE PROGRAMME IN GEOGRAPHY**  
**(2<sup>ND</sup> YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020**  
**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

Course Code: P2GEPe108  
 Credit: 2

Title: Cartography  
 Max. Marks: 50

**Objectives:**

- The main objective of this course is to make students aware about different cartographic techniques for representation of data pertaining to physical and human landscape.
- An effort is made to help them to develop manual skills of drawing maps based on data related to physical and human aspects of Geography.

**Unit-I**

**Contract Hours**

- 1.1 Cartography: Nature, history and recent trends. (12)  
 1.2 Types of data and symbols.  
 1.3 Representation of Relief and landforms: Elementary conventional Methods and Profile, Calculation of Gradient, Methods of slope analysis.

**Unit-II**

(12)

- 2.1 Mapping of Climatic data: Temperature and Rainfall.  
 2.2 Representation of Population data.  
 2.3 Representation of Agriculture data.

**Scheme of Examination:**

Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
<b>Practical / Research (thesis/project/patent)</b>			
Internal Examination	100%	2 hours	25
External Examination	100%	2 hours	25
Total			50

1	Internal	Break up of marks
(i)	Daily Evaluation of Practical Record	10
(ii)	Attendance	05
(iii)	Test+Viva-Voce+Practical Records (6+2+2)	10
2	External	
(i)	Test	18
(ii)	Viva	05
(iii)	Practical record	02
<b>Total</b>		<b>50</b>

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**M.A./M.SC. GEOGRAPHY, 1<sup>ST</sup> SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)**

**Course Code: P2GEP4108**  
**Credit: 2**  
**Duration of Examination: 2 hrs.**

**Title: Cartography**  
**Max. Marks: 50**  
**(a) Internal: 25**  
**(b) External: 25**

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**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Birch, T: Maps, Topographical and Statistical, Clarendon Press, Oxford, 1949.
2. Bolstad, P: GIS Fundamentals: A First Text on Geographic Information Systems, Second Edition, White Bear Lake, MN: Eider Press, 2005.
3. Brown, L.A.: The Story of Maps. Cressit Press, London. 1951.
4. Crampton, W.C.: Mapping: A Critical Introduction to Cartography and GIS, John Willy & Sons, New York, 2010.
5. Gregory, S: Statistical Methods and Geographer, Longmans, London. 1963.
6. Harvey. Francis: A Primer of GIS, Fundamental Geographic and Cartographic Concepts, The Guilford Press, 31 pp., 2008.
7. Heywood, I, Cornelius, S., and Carver, S.: An Introduction to Geographical Information Systems. Prentice Hall, 32rd Edition, 2006.
8. John Krygier and Denis Wood: Making Maps: A Visual Guide to Map Design for GIS. Guilform Publications, 2013.
9. Keates, J.S.: Cartographic Design and Production, Longman, London, 1998.
10. Misra, R.P. and Ramesh, A: Fundamental of Cartography. Concept Publishing Company, New Delhi, 1989.
11. Monkhouse, F.J: Maps and Diagrams, Methuen and Co., London, 1994.
12. Raisz, Erwin: Principles of Cartography, McGraw Hill, New York, 1962.
13. Robinson, A.H. and Others: Elements of Cartography, John Willy and Sons, New York, 6<sup>th</sup> Edition, 1992.
14. Singh, R.L. and Singh, R.P.B: Elements of Practical Geography, Kalyani Publishers, New Delhi, Reprint 2002.
15. Tamaskar, BG and Deshmukh, V.M.: Geographical Interpretation of Indian Topographical Maps, Orient Longman Ltd., New Delhi, 1974.

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER  
(Detailed syllabus for examination to be held in May 2026, 2027 2028)

Course Code: P2GETC201  
Credit: 4

Title: Climatology  
Max. Marks: 100

**Objective:**

The objective of this course is to study the unique characteristics of atmospheric conditions in controlling climate, origin, types, causes and processes influencing the climatic variation and their impact on humans' vice-versa.

**Unit-I**

**Contract Hours**

- |     |  |     |
|-----|--|-----|
| 1.1 | Nature and Scope of Climatology and its relationship with Meteorology  | (3) |
| 1.2 | Composition, mass and the structure of atmosphere  | (3) |
| 1.3 | Insolation, Heat balance of the earth and distribution of temperature<br>(Temporal, Vertical and Horizontal) | (3) |
| 1.4 | Atmosphere moisture and precipitation  | (3) |

**Unit-II**

- |     |   |     |
|-----|---|-----|
| 2.1 | Tropical, temperate and high latitude weather systems   | (3) |
| 2.2 | Concept of air masses and atmospheric disturbances  | (3) |
| 2.3 | Ocean interaction – El Nino-Southern Oscillation (ENSO) and La Nina<br>Monsoon winds, Norwesters and cyclones | (3) |
| 2.4 | Climate of India and its controls: Western disturbances   | (3) |

**Unit-III**

- |     |  |     |
|-----|--|-----|
| 3.1 | Climatic classification of Koppen's  | (3) |
| 3.2 | Climatic classification of Thornwaite  | (3) |
| 3.3 | Atmospheric pollution and global warming                                     | (3) |
| 3.4 | Major climates of the World-tropical, temperate, desert and mountain climate | (3) |

**Unit-IV**

- |     |                           |     |
|-----|---------------------------|-----|
| 4.1 | Climate and vegetation    | (3) |
| 4.2 | Climate and Soil          | (3) |
| 4.3 | Climate and agriculture   | (3) |
| 4.4 | Climate and food security | (3) |

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**M.A./M.SC. GEOGRAPHY, 2nd SEMESTER**  
**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

Course Code: P2GETC201  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Climatology  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Barry, R.G. and Chorley P.J.: Atmosphere, Weather and Climate, Routledge, London and New York, 1998.
2. Critchfield, J.H.: General Climatology, Prentice Hall, India, New Delhi, 1993.
3. Das, P.K., Monsoons, National Book Trust, New Delhi, 1987.
4. Fein, J.S. and Stephens, P.N., Monsoons, Wiley Inter Science, 1987.
5. India met. Deptt. : Climatological Tables of Observatories in India, Govt. of India, 1968.
6. Lal, D.S.: Climatology, Chitanya Publications, Allahabad, 1986.
7. Lydolph, P.E.: The Climate of the Earth, Rowman, 1985.
8. Menon, P.A.: Our Weather, N.B.T., New Delhi, 1989.
9. Peterson, S.: Introduction to Meteorology, Mc Graw Hill Book, London, 1969.
10. Robinson, R.D. and Perry, A (ed): Applied Climatology, Principles and Practice, Routledge, London.



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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER  
(Detailed syllabus for examination to be held in May 2026, 2027 2028)

Course Code: P2GETC202  
Credit: 4

Title: History of Geographical Thought  
Max. Marks: 100

**Objective:**

The objective of this course is to understand the history and philosophy of geography, their general characteristics during ancient, medieval and modern periods, their origin, development and reconciling different vision of realities pertaining to areal differentiation, spatial organizations and different dichotomies.

<b>Unit-I</b>	<b>Contract Hours</b>
1.1 General Character of Geography in the Ancient Period-Contribution of Herodotus, Eratosthenes, Strabo and Ptolemy.	(3)
1.2 Contribution of Indian Scholars.	(3)
1.3 Concept of Geography in the Medieval Period-Dark Age for Science.	(3)
1.4 Arab Geographers.	(3)
<b>Unit-II</b>	
2.1 Beginning of Modern Geography – Verenius, Cluverius and Kant	(3)
2.2 Contributions of Humboldt and Ritter	(3)
2.3 Darwin's impact on Geography	(3)
2.4 Place, Space and Locality: The current Focus in Human Geography	(3)
<b>Unit-III</b>	
3.1 Shifting viewpoints in Geography during the second half of the 19 th Century.	(3)
3.2 Growth and Development of Dualism between Physical and Human Geography, Systematic and Regional Geography.	(3)
3.3 Determinism and Possibilism.	(3)
3.4 Different Concepts of Geography: (a) Neo-Determinism and Probabilism (b) Time Geography (c) Human Ecology	(3)
<b>Unit-IV</b>	
4.1 Geography as a Science of Distributions and as a science of areal differentiation.	(3)
4.2 Quantitative Revolution in Geography – Contemporary Relevance	(3)
4.3 Models in Geography (Significance and Types)	(3)
4.4 Modern Themes in Geographical Thought. (Radicalism, Postmodernism and Feminism)	(3)



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**M.A./M.SC. GEOGRAPHY, 2nd SEMESTER**  
**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GETC202**  
**Credit: 4**  
**Duration of Examination: 3 hrs.**

**Title: History of Geographical Thought**  
**Max. Marks: 100**  
**(a) Minor Test-I: 20**  
**(b) Minor Test-II: 20**  
**(c) Major Test: 60**

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Alber, Ronald: Adams, John S. Gould, Peter: Spatial Organization: The Geographer's View of the World, Prentice Hall, N.J., 1971.
2. Ali, S.M.: The Geography of Puranas, Peoples Publishing House, Delhi, 1966.
3. Amedeo, Douglas: An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A., 1971.
4. Dikshit, R.D.(ed): the Art & Science of Geography Integrated Readings, Prentice Hall of India, New Delhi, 1994.
5. Hartshorne, R.Perspectives on Nature of Geography, Rand McNally and Co., 1959.
6. Hussain, M.Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984.
7. Johnston, R.J. Philosophy and Human Geography. Edward Arnold, London, 1983.
8. Johnston, R.J. the Future of Geography, Methuen, London, 1988.
9. Minshull, R.: The Changing Nature of Geography. Hutchinson University Library, London, 1970.



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**Course Code: P2GETC203**  
**Credit: 4**

**Title: Regional Development & Planning**  
**Max. Marks: 100**

**Objectives:** Regional Planning is multidisciplinary approach aims at holistic development of a region. The objective of the Regional Planning & Development Program is to stimulate a systematic approaches for addressing and resolving the physical, economic, and social problems of a regions. The design of the course focus on the exploration and resolution of planning issues from the point of view of community interests, emphasizing the promotion of equitable and economical use of natural and human resources to improve the quality of life .

<u>Unit-I</u>	<u>Contract Hours</u>
1.1 Concept and Definition of region and Regional Planning.	(3)
1.2 Evolution and types of Regional Planning	(3)
1.3 Merits and limitations for application to regional planning.	(3)
1.4 Types of Regions	(3)
<u>Unit-II</u>	
2.1 Theories and models of Regional development	(3)
2.2 Growth Pole model	(3)
2.3 Rostow 's model	(3)
2.4 Cumulative Causation model	(3)
<u>Unit-III</u>	
3.1 Tribal Area development plan	(3)
3.2 Hilly Area development plan	(3)
3.3 Desert, Drought prone and Backward area development plan	(3)
3.4 Niti Ayog: Aims and Objectives	(3)
<u>Unit-IV</u>	
4.1 Concept of Growth and Development	(3)
4.2 Indicators of Development ( social, economic and happiness index)	(3)
4.3 Measurement of Regional Development	(3)
4.4 Regional Imbalances in India – Agricultural, Industrial and Rural- Urban	(3)



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Course Code: P2GETC203  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Regional Development & Planning  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Abler, R.et. al., Spatial Organization: The Geographer's View of the World, Prentice Hall, Englewood Cliffs, N.J., 1971.
2. Bhat, L.S. Regional Planning in India, Statistical Publishing society, Calcutta, 1973.
3. Bhat, L.S. et. Al. : Micro-Level Planning: A Case study of Karnal Area, Haryana, K.B., Publications, New Delhi, 1976.
4. Chorley, R.J. and Hagget, : Models in Geography, Methuen, London, 1967.
5. Christaller, W.: Central Places in Southern Germany, Translated by C.W. Baskin, Prentice Hall, Englewood Cliffs, New Jersey, 1966.
6. Friedmann, J. and Alonso, W.: Regional Development Policy-A Case Study of Venezuela, M.I.T. Press Cambridge, Mass, 1966.
7. Friedmann, J. and Alonso, W.: Regional Development and Planning A. Reader, M.I.T. Press, Cambridge, Mass 1967.
8. Glikson, Arthur: Regional Planning and Development, Netherlands Universities foundation for International Co-operation, London, 1955.
9. Gosal, G.S. and Krishan, G: Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
10. Government of India, Planning Commission: Third Five Year Plan, Chapter on Regional Imbalances in Development, New Delhi, 1961.

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Course Code: P2GETE204  
Credit: 4

Title: Population Geography  
Max. Marks: 100

**Objectives:** The objective of this course is to understand the facts related to spatial variation in the distribution of human population and to analyse the demographic components of change like, migration, urbanization, human resources etc. for achieving sustainable-economic growth and environmental protection.

**Unit-I**

**Contract Hour**

- |   |     |
|---|-----|
| 1.1 Understanding Population Geography: Nature, Scope and Relevance | (3) |
| 1.2 Demographic Data Sources  | (3) |
| 1.3 Factors affecting Population distribution, Density and Growth.  | (3) |
| 1.4 Components of Population change – Mortality and fertility.      | (3) |

**Unit-II**

- |  |     |
|--|-----|
| 2.1 Concepts of overpopulation, under population and optimum population. | (3) |
| 2.2 India and World: Urbanization literacy patterns.                     | (3) |
| 2.3 India and World: Age and Sex composition of population.              | (3) |
| 2.4 India and World: Occupational Structure.                             | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 The Demographic Transition: Theory and Applications            | (3) |
| 3.2 Migrations: Types, Causes and Consequences.                    | (3) |
| 3.3 Population Problems of under Developed and Advanced Countries. | (3) |
| 3.4 Population Resource Regions of the World.                      | (3) |

**Unit-IV**

- |  |     |
|--|-----|
| 4.1 Classical Theories of Population – Malthus, Marx.            | (3) |
| 4.2 Definition, Types and Objectives of the Population Policies. | (3) |
| 4.3 Population Policy of India.                                  | (3) |
| 4.4 Concept of Social Well-Being and Quality of Life             | (3) |

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Course Code: P2GETE204  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Population Geography  
 Max. Marks: 100  
 (a) Minor Test-I: 20  
 (b) Minor Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Barrett, Hazel R., Population Geography: Conceptual Frameworks in Geography, Oliver and Boyd, London, 1994.
2. Bogue, D.J., Principles in Demography, John Wiley, New York, 1969.
3. Bose, Ashish et al., Population in India's Development (1947-2000), Vishal Publishing House, New Delhi, 1974.
4. Census of India, India: A State Profile, 1991.
5. Chandna, R.C., Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi, 2000.
6. Clarke, John I, Population Geography, Pergamon Press, Oxford, 1973.
7. Crook, Nigel, Principles of Population and Development, Pergamon Press, New York, 1997.
8. Garnier, B.J. Geography of Population, Longman, London, 1970.
9. Mitra, Asok, India's Population: Aspects of Quality and Control. Vol. I and II, Abhinav Publications, New Delhi, 1978.
10. UNdp: Human Development Report, Oxford University Press, Oxford 2000.
11. Woods, R., Population Analysis in Geography, Longman, London, 1979.
12. Zelinsky Wilbur, A Prologue to Population Geography, Prentice Hall, 1966.
13. Izhar Hassan, Mohammad, "Population Geography" Rawat Publications, New Delhi, 2009.

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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GETE205**  
**Credit: 4**

**Title: Rural Geography**  
**Max. Marks: 100**

- To understand Rural Space and Settlement.
- To analyze the spatial, social and economic characteristics within rural areas.
- To examine the impact of rural environment on development initiatives.
- Provides insights that can inform policy and decision-making related to rural development.

**UNIT-I**

	<b><u>Contract Hour</u></b>
1.1. Concept of Rural Geography	(3)
1.2. Scope of Rural Geography	(3)
1.3. Approaches to study Rural Geography	(3)
1.4. Significance of Rural Development	(3)

**UNIT-II**

2.1. Pattern and Type of Rural Settlement	(3)
2.2. Morphology of Rural Settlement with Special Reference to Northern India	(3)
2.3. Distribution of Rural Settlement with Special Reference to Size and Spacing	(3)
2.4. Rural Settlements in Jammu & Kashmir	(3)

**UNIT-III**

3.1. Rural Urban Migration	(3)
3.2. Rural-Urban Continuum	(3)
3.3. Functional Classification of Rural Settlements	(3)
3.4. Rural Service Centers, Their Nature and Hierarchy (Central Place Theory)	(3)

**UNIT-IV**

4.1. Environmental issues of rural Areas	(3)
4.2. Poverty in Rural Areas	(3)
4.3. Rural Planning	(3)
4.4. Rural Geography for sustainable development	(3)

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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GETE205**  
**Credit: 4**  
**Duration of Examination: 3 hrs.**

**Title: Rural Geography**  
**Max. Marks: 100**  
**(a) Minor Test-I: 20**  
**(b) Minor Test-II: 20**  
**(c) Major Test: 60**

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60 days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Books Recommended:**

1. Chisholm, Michael; *Rural Settlements and Land Use*, Hutchinson University Library, London, 1970.
2. Gosh S., *Introduction to Settlement Geography*, Orient Longman, 1998.
3. Hudson, F.S.: *A Geography of Settlements*, Macdonald & Evans, New York, 1976.
4. Mandal, R.B., *Systems of Rural Settlements in Developing Countries*, Concept Publishing Company, 1989.
5. Mandal, R.B., *Introduction to Rural Settlement*, Concept Publishing Company, 1979.
6. Mitra, A., *Report on House Types and Village Settlement Patterns in India*.
7. Singh, R.Y., *Geography of Settlement*, Rawat Publication, New Delhi.
8. Singh, R.L. et al: *Rural Settlements in Monsoon Asia*, NGSI, Varanasi, 1972.
9. Singh, R.L., *Readings in Settlements Geography*, Geographical Society of India, Varanasi, 1975.

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(Detailed syllabus for examination to be held in May 2026, 2027 2028)

Course Code: P2GETE206  
Credit: 4

Title: Urban Geography  
Max. Marks: 100

**Objectives:** The course provides an overview of the interlink between Geography and urbanization. It aims to shed light on the definition, nature, and scope of urban geography, the process of urbanization and urban systems, capitalism and development through urbanization, urban planning in India, and urban problems in India with special reference to Mumbai. The course shall further convey the process of urbanization from local to global and development through urbanization

<u>Unit-I</u>	<u>Contract Hours</u>
1.1 Meaning, Scope and recent trends in Urban Geography.	(3)
1.2 Different Approaches to the Study of Urban Geography.	(3)
1.3 Definition of Urban Places, Origin and Growth of Urban Centres, Basis of Urbanization.	(3)
1.4 Location, Situation and site of Urban Centres.	(3)
 <u>Unit-II</u>	
2.1 Size and Spacing of Urban Settlements	(3)
2.2 City Region Relationship: Basis, Nature, Definition and Functional Structure of Umland.	(3)
2.3 Classification of Urban Settlements on the basis of Size and Functions.	(3)
2.4 Economic Base of Cities-Basic and Non-Basic Concepts.	(3)
 <u>Unit-III</u>	
3.1 Urban Morphology and Land Use Models of Burgess (Concentric Zone) Harris-Ulman (Multiple Nuclei) and Hoyt's (Sector).	(3)
3.2 Morphology of Indian Cities	(3)
3.3 Urban Sprawl – Concept and Features.	(3)
3.4 Urban Fringe-Attributes and Demarcation.	(3)
 <u>Unit-IV</u>	
4.1 Smart cities and Town Planning.	(3)
4.2 The Central Business District – Concept and Characteristics.	(3)
4.3 Problems of urbanization	(3)
4.4 National Urban Policy and Urban land use planning	(3)

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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

Course Code: P2GETE206  
 Credit: 4  
 Duration of Examination: 3 hrs.

Title: Urban Geography  
 Max. Marks: 100  
 (a) Test-I: 20  
 (b) Test-II: 20  
 (c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Books Recommended:**

1. Carter, H (1972): The Study of Urban Geography, Edward Arnold.
2. Latham, D. McCormack, K. McNamara, D. McNeill (2009): Key Concepts in Geography, Sage.
3. Knox, P.L., and Taylor. P.J.(1995): World Cities in a World System, Cambridge University Press, U.K.
4. Harvey, D.(1973): Social Justice and the City, Arnold
5. Abu-Lughod, J. and Hay, R. Jr. (1977): Third World Urbanisation, Maarouta Press.
6. Gugler, J. (ed.)(1988): The Urbanisation of the Third World, O.U.P 7. Sassen, S. (1991): The Global City, Princeton University Press.
8. Clarke, D. (1982): Urban Geography: An Introductory Guide, Groom Helm.
9. Marcuse, P. and Kempen, R.V. (eds.),(2000): Globalizing Cities: A New Spatial Order, Blackwell,
10. Short, J. R. (1996): The Urban Order, Basil Blackwell. 10 Smith, N. (1996): The New Urban Frontier, Rutledge
11. King A. D. (1990): Global Cities, Rutledge



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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GEPX207**  
**Credit: 4**

**Title: Physical Survey**  
**Max. Marks: 100**

- The main objective of this course is to make students familiar with the physical landscape.
- An effort is made to help them to identify different landforms while in the field and to map those landforms by using different cartographic techniques.
- Students are also told about the use of field instruments such as Dumpy Level, Theodolite/ Total Station in geographical studies.

**Unit-I**

**Contract Hours**

Tract the prominent features of the area to be surveyed. Identify salient landform features of the selected area on the topographical sheet. (12)

**Unit-II**

Identify the landforms on the surface, while in the field. Also note the agents of erosion transportation and deposition associated with the landforms. (12)

**Unit-III**

Field Instrument Survey: Scope, purpose and application of Survey. (12)  
 Introduction, advantages, disadvantages and procedure of Dumpy level and Theodolite/ Total station.

**Unit-IV**

Based on observations and data collected in the field write a report and prepare sheets for the data recorded with the help of instruments. (12)

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
<b>Practical / Research (thesis/project/patent)</b>			
Internal Examination	100%	4 hours	50
External Examination	100%	4 hours	50
Total			100

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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code:** P2GE~~P2~~207  
**Credit:** 4  
**Duration of Examination:** 4 hrs.

**Title:** Physical Survey  
**Max. Marks:** 100  
**(a) Internal:** 50  
**(b) External:** 50

**Scheme of Examination:**

	<b>Internal</b>	<b>Break up of marks</b>
<b>1</b>		
(i)	Subject Matter	10
(ii)	Methodology	10
(iii)	Attendance	10
(iv)	Presentation	10
(v)	Viva Voce	10
<b>2</b>	<b>External</b>	
(i)	Practical Record/ Report	30
(ii)	Viva Voce	20
	<b>Total:</b>	<b>100</b>

**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Machumu, H. understanding Practical Geography: Map Work-Surveying-Fieldwork, GRIN Verlag, 2011.
2. Indian Council of Social Science Research.
3. T.P. Kanetkar and S.V. Kulkarni, Surveying and leveling, Pune Vidyathi Griha Prakashan.
4. Zamir Ali (1994) "A Text Book of Surveying Vikas Publishing House Pvt. Ltd., New Delhi.
5. R.L. Singh and Rana P.S. Singh (2004) "Elements of Practical Geography", Kalyani Publishers, New Delhi.
6. Ashis Sarkar (2009), "Practical Geography – A Systematic Approach", Orient Blakswo Private Limited, Kolkata.
7. B.C. Punnia, Ashok Kumar Jain and Arun Kumar Jain (1993), "Surveying" Laxmi Publications, New Delhi.
8. Gopal Singh (2004), "Map Work and Practical Geography", Vikas Publishing House Pvt. Ltd. Delhi.



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**(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020**  
**M.A./M.SC. GEOGRAPHY, 2nd SEMESTER**  
**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GEP208**  
**Credit: 4**

**Title: Fundamentals of Remote Sensing**  
**Max. Marks: 100**

**Objectives:** The objective of the course is to introduce to the students the basic principles of remote sensing and the methods of digital interpretations of satellite images. To provide exposure to students in gaining knowledge on concepts and applications leading to modelling of earth resources management using Remote Sensing. To acquire skills in storing, managing digital data for planning and development. Geospatial analysis is a growing field of employment. The role includes analysis of data, design and use of this database. The work of a geospatial analyst varies greatly depending on which sector the student wants to work.

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Remote Sensing meaning, definition, significance and utility. | (3) |
| 1.2 History and development of Remote Sensing.                    | (3) |
| 1.3 Advantages and limitations of Remote Sensing.                 | (3) |
| 1.4 Stages of Remote Sensing and Remote Sensing Platforms.        | (3) |

**Unit-II**

- |  |     |
|--|-----|
| 2.1 EMR and its properties.  | (3) |
| 2.2 Electromagnetic spectrum and characteristics of wavelength regions | (3) |
| 2.3 EMR Atmospheric and surface interaction.                           | (3) |
| 2.4 Satellites and their characteristics                               | (3) |

**Unit-III**

- |   |     |
|---|-----|
| 3.1 Aerial Photography and its geometry.                    | (3) |
| 3.2 Relief displacement and image formation.                | (3) |
| 3.3 Classification of Aerial Photographs and their utility. | (3) |
| 3.4 Elements of Visual Interpretation.                      | (3) |

**Unit-IV**

- |  |     |
|--|-----|
| 4.1 Digital Image: Pan/Multispectral imaging and color theory.                   | (3) |
| 4.2 Digital Image Processing – Radiometric, Geometric and Atmospheric correction | (3) |
| 4.3 Image Enhancement.   | (3) |
| 4.4 Image classification: Supervised and Unsupervised and Accuracy assessment.   | (3) |

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
<b>Practical / Research (thesis/project/patent)</b>			
Internal Examination	100%	4 hours	50
External Examination	100%	4 hours	50
Total			100

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**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

Course Code: P2GE/208  
 Credit: 4  
 Duration of Examination: 4 hrs.

Title: Fundamentals of Remote Sensing  
 Max. Marks: 100  
 (a) Internal: 50  
 (b) External: 50

**Scheme of Examination:**

<b>Scheme of Examination:</b>		<b>Break up of marks</b>
<b>1</b>	<b>Internal</b>	
(i)	Daily Evaluation of Practical Record	20
(ii)	Attendance	10
(iii)	Test+Viva-Voce+Practical Records (10+5+5)	20
<b>2</b>	<b>External</b>	
(i)	Test	36
(ii)	Viva	9
(iii)	Practical record	5
<b>Total</b>		<b>100</b>

**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Sabins, Floyd F, 1986, Remote Sensing : Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing , Longman, London.
4. Estes, J.E. and L.W. Senger, 1974, Remote Sensing Techniques for Environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and R.W. Klefer, 1987 Remote Sensing and Image Interpretation, John Wiley and Sons, New York.
6. Slater, P.N., 1980, Remote Sensing : Optics and Optical System, Addison - Wesley, Reading.
7. James, B. Campbell, Introduction to Remote Sensing – 2<sup>nd</sup> Edi. Taylor & Francis, London.
8. Fazal, S. (2009), RemoteSensing Basics, Kalyani Publishers, New Delhi.
9. Reddy, A.(2001), Textbook of Remote Sensing and Geographical Information Systems, BS Publication Hyderabad.



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**M.A./M.SC. GEOGRAPHY, 2nd SEMESTER**  
**(Detailed syllabus for examination to be held in May 2026, 2027 2028)**

**Course Code: P2GEVC251**  
**Credit: 4**  
**Duration of Examination: 3 hrs.**

**Title: Map Digitization and Layout**  
**Max. Marks: 100**  
**(a) Internal: 50**  
**(b) External:50**

**Objective:**

The objective of this course is to train the students in map digitization, Geodatabase creation, building topology, mapping and editing and GPS data acquisition.

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Geodatabase creation  | (3) |
| 1.2 Spatial data Integration (Digitization) – point, line, polygon. | (3) |
| 1.3 Non-Spatial Data Integration.                                   | (3) |
| 1.4 Editing of Spatial & Non-Spatial data.                          | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Building Topology; Data Query.                    | (3) |
| 2.2 Texture & Object based classification & Modeling. | (3) |
| 2.3 Raster Data calculations.                         | (3) |
| 2.4 Accuracy assessment.                              | (3) |

**Unit-III**

- |   |     |
|---|-----|
| 3.1 Mapping and editing.                                | (3) |
| 3.2 Cartographic Symbolization, Generalization of Maps. | (3) |
| 3.3 Types of Maps.                                      | (3) |
| 3.4 Map Design or Layout, Map Production.               | (3) |

**Unit-IV**

- |                           |     |
|---------------------------|-----|
| 4.1 GPS Data Collection   | (3) |
| 4.2 Geotagging            | (3) |
| 4.3 GPS Data Levelling    | (3) |
| 4.4 Onscreen Digitization | (3) |



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(Detailed syllabus for examination to be held in May 2026, 2027 2028)

Course Code: P2GEVC251

Title: Map Digitization and

Layout

Credit: 4

Duration of Examination: 4 hrs.

Max. Marks: 100

(a) Internal: 50

(b) External:50

**Scheme of Examination:**

1	Internal	Break up of marks
(i)	Daily Evaluation of Practical Record	20
(ii)	Attendance	10
(iii)	Test+Viva-Voce+Practical Records (10+5+5)	20
2	External	
(i)	Test	36
(ii)	Viva	9
(iii)	Practical record	5
<b>Total</b>		<b>100</b>

**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Sabins, Floyd F, 1986, Remote Sensing : Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing , Longman, London.
4. Estes, J.E. and L.W. Senger, 1974, Remote Sensing Techniques for Environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and R.W. Klefer, 1987 Remote Sensing and Image Interpretation, John Wiley and Sons, New York.
6. Slater, P.N., 1980, Remote Sensing : Optics and Optical System, Addison – Wesley, Reading.
7. James, B. Campbell, Introduction to Remote Sensing – 2<sup>nd</sup> Edi. Taylor & Francis, London.
8. Fazal, S. (2009), RemoteSensing Basics, Kalyani Pugblishers, New Delhi.
9. Reddy, A.(2001), Textbook of Remote Sensing and Geographical Information Systems, BS Publication Hyderabad.

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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC301  
Credit: 4

Title: Oceanography  
Max. Marks: 100

**Objectives:**

The objectives of this course are to introduce students to the physical and chemical properties of sea water, atmospheric and oceanic linkage. To familiarize the students about the bottom topography of the oceans, and oceanic phenomena occurring with their specific causes and probable impacts. To evaluate how ocean can be helpful as resource to resolve the resource scarcity for sustainable development.

**Unit-I**

	<b><u>Contract Hours</u></b>
1.1 Fundamentals of Oceanography	(3)
1.2 Historical Development of Oceanography	(3)
1.3 Morphology of Ocean bottom	(3)
1.4 Bottom relief of Ocean: Atlantic, Pacific and Indian	(3)

**Unit-II**

2.1. Physical and Chemical properties of Sea water	(3)
2.2. Temperature Distribution: Horizontal and Vertical	(3)
2.3. Ocean Deposits- Types and source	(3)
2.4. Coral Reef- Origin views of Darwin, Murrey and Daly	(3)

**Unit-III**

3.1. Tides- Characteristics and Origin, Equilibrium and Dynamic model	(3)
3.2. Waves and Tsunami	(3)
3.3. Surface Ocean Currents: Geostrophic circulation, Coriolis force and Ekman Law	(3)
3.4. Currents of Atlantic, Pacific and Indian Ocean	(3)

**Unit IV**

4.1. Ocean and Geopolitics	(3)
4.2. Law of Sea, Exclusive Economic Zone	(3)
4.3. Applied Oceanography	(3)
4.4. Marine Pollution	(3)



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Course Code: P2GETC301  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Oceanography  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Lal, D.S., Oceanography, 2002, Sharda Pustak Bhawan, Allahabad.
2. Pinet, P.R., Invitation to Oceanography, 2000, Jones and Barlett Publishers, U.S.A.
3. Sharma, R.C., Vatal, M., Oceanography for Geographers, 2001, Chaitanya Publishing House, Allahabad.
4. Sidharta K., Oceanography, 1999, Kalyana Publications, New Delhi.
5. Singh, S., 2008, Oceanography, Prayag Pustak Bhawan, Allahabad.
6. Tomezak, M. and Godfrey, J.S., Regional Oceanography, 2003, Daya Publishing House, Delhi.

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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC302  
Credit: 4

Title: Economic Geography  
Max. Marks: 100

**Objectives:**

The objectives of this course are to integrate the various factors of economic development and acquaint the students about the dynamic aspects of Economic geography. To familiarise the students about the role of agriculture in the economic development of the country. To familiarize the students to understand the location of major manufacturing activities with the support of various industrial location theories and models. To evaluate the changing industrial scenario due to Globalization and its impact on Indian economy with the economies of global trade.

**Contract Hours**

**Unit I**

- |  |     |
|--|-----|
| 1.1 Meaning, Content and Recent trends in Economic Geography               | (3) |
| 1.2 Relation of Economic Geography with Economics and Commercial Geography | (3) |
| 1.3 Approaches to the study of Economic Geography                          | (3) |
| 1.4 Classification of Economies  | (3) |

**Unit II**

- |   |     |
|---|-----|
| 2.1. Factors of location of Economic Activities                 | (3) |
| 2.2. Types of Economic activities                               | (3) |
| 3.3. World major Agricultural Types: Whittlessey Classification | (3) |
| 3.4. Von Thunen Model with special reference to Economic Rent   | (3) |

**Unit III**

- |   |     |
|---|-----|
| 3.1. Classification of Industries                     | (3) |
| 3.2. Theories of Industrial location: Weber and Losch | (3) |
| 3.3. Christaller Central Place Theory                 | (3) |
| 3.4. Typology of Markets                              | (3) |

**Unit IV**

- |  |     |
|--|-----|
| 4.1. Mode of Transportation Cost, Accessibility and Connectivity | (3) |
| 4.2. Economic Development of India and Regional Disparities      | (3) |
| 4.3 Socio-Economic Impact of Green Revolution                    | (3) |
| 4.4. Impact of Globalization on India's Economic Transformation  | (3) |



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Course Code: P2GETC302  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Economic Geography  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60 days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

- Berry J.L., Geography of Market Centers and Retail Distribution, Prentice Hall, New York, 1967.
- Chatterjee, S.P. Economic Geography of Asia, Allied Book Agency, Calcutta, 1984.
- Chorley, R.J. and Haggett, P(ed), Network Analysis in Geography, Arnold, 1969.
- Dreze, J. and Sen, A. India- Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996.
- Exkarsley, R(ed): Markets, The State and the Environment, McMillan, London, 1995.
- Garnier, B.J. and Delobez, A Geography of Marketing, Longman, London, 1979.
- Hamilton, F.E.I.: Spatial Perspectives on Industrial Organization and Decision Making. John Wiley, New York, 1974.
- Hamilton, I. (ed): Resources and Industry, Oxform University Press, New York, 1992.



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(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC303  
Credit: 4

Title: Geography of Rural Development  
Max. Marks: 100

**Objectives:** Rural development is a national necessity and has considerable importance in India. This programme has been evolved & enriched, with the induction of new ideas and practices in the discipline of rural studies, community development and indigenous epistemology. The course focusing on how innovation contributes to future planning for rurality, to plan for a range of alternative, feasible and desirable for future developments in the rural areas. The main objective of Geography of Rural Development is to train students to become specialists in integrated rural development, and focus on socio-economic and institutional aspects.

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Nature, Scope and Significance of Geography of Rural Development. | (3) |
| 1.2 Socio-Economic Structure of Rural India.                          | (3) |
| 1.3 Approaches to Rural Development.                                  | (3) |
| 1.4 Determinants of Rural Development in India.                       | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Role of Agriculture in Rural Economy  | (3) |
| (a) Landuse Classification and Landuse Planning.  |     |
| (b) Water resource and role of irrigation and water management in the Development of Rural India.     |     |
| 2.2 Significance of livestock in Rural Economy.   | (3) |
| 2.3 Rural Industries and its importance for Rural Development.  | (3) |
| 2.4 Structure of human workforce, Need for development of Human resource through extension education. | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 Tenural Structure and land reforms in India and its impact on rural development. | (3) |
| 3.2 Role of Panchayati Raj Institution for Rural Development.                        | (3) |
| 3.3 Co-operatives and Rural Development.   | (3) |
| 3.4 Rural Finances and NABARD.   | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 Appropriate technology for the rural development.   | (3) |
| 4.2 Post-harvest technology.  | (3) |
| 4.3 Farm technology in India – HYV Seeds, Chemical fertilizers, plant Protection and soil conservation. | (3) |
| 4.4 Importance of Rural transformation for sustainable development                                      | (3) |

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(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC303  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Geography of Rural Development  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

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**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Dey, S.K., Panchavati Rai: A Synthesis. Asia Publishing House, New Delhi, 1961.
2. Kurukshetra – A Symposium, Publication Division-Ministry of Information and Broadcasting, Govt. of India Press, Basik, 1967.
3. Mishra, R.P., Rural Area Development, Concept Publishing House, New Delhi, 1980.
4. Prashad, K.N., India's Rural Problems, Concept Publishing Company, New Delhi, 1991.
5. Rao, VISP, Development Strategy for an Agricultural Region, I.D.S. University of Mysore, 1976.
6. Sharma, S.K., Dynamics of Development, Concept Publishing House, New Delhi, 1977.
7. Swaminathan, M.D., Science and Integrated Rural Development, Concept Publishing House, New Delhi, 1987.

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(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC304  
Credit: 4

Title: Geography of Asia  
Max. Marks: 100

**Objectives:**

The basic objective of this course is to make the students familiar with locations, physiographic, industrial belts, drainage patterns, vegetation, soil etc.

The course attempts to give regional as well as spatial perspective for synthesizing physical and social relationships.

**Unit-I**

	<b><u>Contract Hours</u></b>
1.1 Physiographic Divisions of Asia	(3)
1.2 Climate types of Asia	(3)
1.3 Drainage Systems	(3)
1.4 Soils and Vegetation Types	(3)

**Unit-II**

2.1 Population Distribution and Density	(3)
2.2 Population Structure and Composition	(3)
2.3 Agriculture in Asia	(3)
2.4 Production and Distribution of major crops (Rice, Wheat and Tea)	(3)

**Unit-III**

3.1 Resources in Asia; (Iron ore and Coal)	(3)
3.2 Major industries and industrial Regions	(3)
3.3 Urbanization Trends and Megacities	(3)
3.4 Urbanization- Challenges and Opportunities	(3)

**Unit-IV**

4.1 Geopolitical Importance of Asia	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 Asia's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)

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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETC304  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Geography of Asia  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. John Cole. "Geography of World's Major Regions".
2. Goseph J. Hobbs & Others. "World Regional Geography".
3. Hepner, G.F. "World Regional Geography: A global approach".
4. Tikha, Bali and Sekhon. "World Regional Geography".
5. Dr. Alka Gautam. "World Geography".
6. Majid Hussain. "World Geography".
7. Mehtani & Sinha. "Geography of the world".
8. R.N. Chohan. "World Geography".
9. B.S. Negi. "Economic and Commercial Geography of the World".

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(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020  
M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETE305  
Credit: 4

Title: Tourism Geography  
Max. Marks: 100

**Objectives:**

The main objective of this course is to aware the students of the Physical, Cultural, Historical and Economic aspects of tourism. To understand the tourism as a industry, circuits, and impact of tourist activity

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Geography of Tourism: Definition, Nature and Scope.               | (3) |
| 1.2 Locational Dimension: Physical Cultural, Historical and Economic. | (3) |
| 1.3 Evolution of Studies in Tourism Geography.                        | (3) |
| 1.4 Significance of the Study of Tourism Geography.                   | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Elements of Tourism.  | (3) |
| 2.2 Classification of Tourism.  | (3) |
| 2.3 Factors Influencing Tourism; Social, Cultural, Economic and Historical. | (3) |
| 2.4 Tourism as an Industry.   | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 Infrastructure and Support System for Tourism. | (3) |
| 3.2 Tourism Circuits – Short and Long Duration.    | (3) |
| 3.3 Role of Travel Agencies.                       | (3) |
| 3.4 The Hotel Industry.                            | (3) |

**Unit-IV**

- |  |     |
|--|-----|
| 4.1 Classification and Types of Indian Tourism.        | (3) |
| 4.2 Tourism Destination of Asia, Europe and America    | (3) |
| 4.3 Impact of Tourism – Physical, Economic and Social. | (3) |
| 4.4 Environmental Laws and Tourism.                    | (3) |

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**DEPARTMENT OF GEOGRAPHY**  
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**(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020**  
**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)**

**Course Code: P2GETE305**  
**Credit: 4**  
**Duration of Examination: 3 hrs.**

**Title: Tourism Geography**  
**Max. Marks: 100**  
**(a) Minor Test-I: 20**  
**(b) Minor Test-II: 20**  
**(c) Major Test: 60**

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Dhar P. Development of Tourism and Travel Industry, 1997, Kanishka Publisher, New Delhi.
2. Negi J. Tourism and Travel, 1990 Gitanjali Publishing, New Delhi.
3. Sharma R.C. Geography of Tourism, 2002 Rajat Publication, New Delhi.
4. Singh P., Dynamics of Modern Tourism, 1998 Kanishka Publishers, New Delhi.
5. Negi J., Grading and Classification of Hotel Tourism, Resorts and Restaurant 2003, Kanishka, New Delhi.



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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETE306  
Credit: 4

Title: Political Geography  
Max. Marks: 100

**Objectives:** The objectives of a political geography subject include understanding key concepts such as territory, boundaries, sovereignty, and geopolitics. Students will analyze political spaces, including territorial disputes and boundary dynamics, and apply geopolitical theories to international relations. Case studies will focus on border conflicts, resource management, and the impact of globalization. Critical thinking skills will be developed through evaluating the role of power, assessing historical events, and forming critical perspectives on political geography and its applications. By exploring these topics, students will gain a comprehensive understanding of the complex relationships between politics and geography, enabling them to analyze and interpret real-world issues and phenomena.

**Unit-I**

- 1.1 Definition, Nature and Scope of Political Geography
- 1.2 Political Geography and Geopolitics
- 1.3 Elements of Political Geography – Territory, State and People
- 1.4 Evolution and Growth of Political Geography

**Contract Hours**

- (3)
- (3)
- (3)
- (3)

**Unit-II**

- 2.1 Nation and State in Political Geography
- 2.2 Boundaries, Frontiers and Buffer Zones
- 2.3 Population, Resources and Political Geography
- 2.4 Power and Politics in Political Geography

- (3)
- (3)
- (3)
- (3)

**Unit-III**

- 3.1 Heartland Concept of Halford Mekinder
- 3.2 Rimland concept of Spykman
- 3.3 OPEC and SAARC in Political Geography
- 3.4 Global Institutions and Political Geography

- (3)
- (3)
- (3)
- (3)

**Unit-IV**

- 4.1 Geopolitical Hotspot- South China Sea
- 4.2 European Political Geography
- 4.3 Political Geography of South-East Asia
- 4.4 Political Geography of the Indian Ocean

- (3)
- (3)
- (3)
- (3)

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**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)**

**Course Code: P2GETE306**  
**Credit: 4**  
**Duration of Examination: 3 hrs.**

**Title: Political Geography**  
**Max. Marks: 100**  
**(a) Minor Test-I: 20**  
**(b) Minor Test-II: 20**  
**(c) Major Test: 60**

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60 days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings**

1. Political Geography- Approaches, Concepts , Futures – Rachael Squire and Jackman
2. Political Geography- Sudeepta Adhikari
3. Political Geography of India" – R.D. Dixit
4. India: A Political Geography" – Michael Brecher.
5. Politics and Geography of the Indian Ocean Region" – P. K. Suri
6. The Political Geography of Indian States and Union Territories" – N. S. R. Anjaneyulu
7. Geopolitics of South Asia" – S.D. Muni
8. Indian Political System" – M. Laxmikanth.



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**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)**

**Course Code: P2GETE307**  
**Credit: 4**

**Title: Glacial Geomorphology**  
**Max. Marks: 100**

**Objectives:**

The objective of this course is to understand the process of glaciations in different geological periods. To understand this process of glacial erosion and deposition and related landforms. The students will be able to understand the climate change and its impact in the glaciated regions.

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1. Glaciers: Origin and Classification                | (3) |
| 1.2. Ice Ages and World Glaciations: Causes of Ice Ages | (3) |
| 1.3. Glacial Ice flow and Internal deformation          | (3) |
| 1.4. Pleistocene Glaciations                            | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1. Glacial Movement: Advancement and Retreat            | (3) |
| 2.2. Glacial Erosion, Ice and Melt water                  | (3) |
| 2.3. Mechanical and Chemical processes of Glacial Erosion | (3) |
| 2.4. Glacial Erosional Landforms                          | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1. Glacial Depositional Processes: Stratified and Non-Stratified | (3) |
| 3.2. Morphodynamics and forms of Moraines                          | (3) |
| 3.3. Glacial Depositional Landforms                                | (3) |
| 3.4. Glacio-fluvial and Glacio-lacustrine Environment              | (3) |

**Unit IV**

- |   |     |
|---|-----|
| 4.1. Periglacial Processes and landforms            | (3) |
| 4.2. Glacial Surges and Avalanches                  | (3) |
| 4.3. Glacial Lake Out flood Burst (GLOF)            | (3) |
| 4.4. Impact of Climate Change on Himalayan Glaciers | (3) |

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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GETE307

Credit: 4

Duration of Examination: 3 hrs.

Title: Glacial Geomorphology

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II: 20

(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Bloom A. L.: Geomorphology Prentice Hall, New Jersey USA, 1979.
2. Goudie, A: Geomorphological Techniques, George Allen and Unwin, London, 1981.
3. Washborn, A.L.: Peri-glacial Process and Environment, Edward Arnold London, 1973.
4. Young, A.: Slopes, Oliver and Boyd London, 1972.
5. King, C.A.M.: Techniques in Geomorphology Edward Arnold London, 1968.
6. Embleton, C. and Theories, J.: Process in geomorphology, Arnold Hienmann, London, 1979.
7. Phodes, D.D. and William, G.P.: Adjustment of fluvial processes, George Allen and Unwin, Boston, 1982.
8. Tricart, I. and Calliam: Introduction to climate Geomorphology, Longmans London, 1972.



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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GEP308  
Credit: 4

Title: Socio-Economic Survey  
Max. Marks: 100

**Objectives:**

The objectives of field study is to gain a comprehensive understanding the students with the understanding of ground reality of a chosen village/Town by empirical observation and conducting extensive socio-economic survey through questionnaires.

**Unit-I:**

**Contract Hours**

**Graphical Representation**

(12)

1.1 Introduction to the socio –economic profile of the study area.

**Unit-II**

**Preparation of Field Book**

(12)

2.1 Prepare a question book/questionnaire to collect Demographic Social and Economic data to study the temporal change in the Profile of the study area. Conduct a household level socio-economic survey of the village/Town with the help of questionnaires.

**Unit-III**

**Field Work**

3.1 Conduct a Socio-Economic Field Work of a selected area supplemented by Personal observations and investigation. Procure a cadastral map of selected village for field mapping of the features of the landuse, settlement and other prominent features. (12)

**Unit-IV**

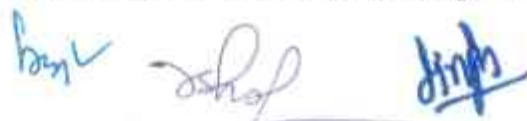
**Preparation of Report**

(12)

4.1 Based on the results of the land use and Socio-Economic outputs, prepare a critical Field Study report. Supplement the report with the help of photograph, diagrams and maps.

**Note:**

1. The DAC shall select one teacher as Course-Coordinator in rotation every year for the conduct of the course.
2. The DAC in consultation of the Course Co-Coordinator shall select the site/village for the Socio Economic Survey.
3. The Course Co-Coordinator shall allot different topics to the students to write reports.



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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GE~~pe~~308  
Credit: 4  
Duration of Examination: 4 hrs.

Title: Socio-Economic Survey  
Max. Marks: 100  
(a) Internal: 50  
(b) External:50

**Note for Paper Setters:**

1	Internal	Break up of marks
(i)	Subject Matter	10
(ii)	Methodology	10
(iii)	Attendance	10
(iv)	Presentation	10
(v)	Viva Voce	10
2	External	
(i)	Practical Record/ Report	30
(ii)	Viva Voce	20
	Total:	<b>100</b>

**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Archer, J.E. and Dalton, T.H. Fieldwork in Geography, London, 1968
2. Glodard, R. H., Field Techniques and Research Methodology in Geography, Dubuque, 1982
3. Jones, P.A., Fieldwork in Geography, London, 1968
4. Mohammed A.C., Statistics Methods in Geographical Studies, Rajesh Pub, Delhi, 1977
5. Wheelso, K.S. and harding , M., Geographical Field , London, 1965



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M.A./M.SC. GEOGRAPHY, 3rd SEMESTER  
(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)

Course Code: P2GEPc309  
Credit: 4

Title: Fundamentals of GIS & GPS  
Max. Marks: 100

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**Objectives:**

Comprehend fundamental concepts and practices of GIS and advances in Geospatial Information Science and Technology Apply basic graphic and data visualization concepts, demonstrate skills in file and database management. Demonstrate proficiency in the use of maps, satellite images and GIS tools to create maps that effectively convey the information they are introduced to.

**Unit-I:**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 GIS definition, history and development.    | (3) |
| 1.2 Advantages and disadvantages of GIS.        | (3) |
| 1.3 Application of GIS in geographical studies. | (3) |
| 1.4 Spatial and non-spatial data.               | (3) |

**Unit-II**

- |  |     |
|--|-----|
| 2.1 Raster and Vector data.                  | (3) |
| 2.2 Geo-referencing of data set.             | (3) |
| 2.3 Concept of DBMS.                         | (3) |
| 2.4 Linking of spatial and non-spatial data. | (3) |

**Unit-III**

- |   |     |
|---|-----|
| 3.1 Topology and neighborhood analysis. | (3) |
| 3.2 Analysis of spatial data.           | (3) |
| 3.3 On screen digitization.             | (3) |
| 3.4 Map Layout.                         | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 Concept of GPS – Handheld and differential GPS. | (3) |
| 4.2 Accuracy and Errors in GPS.                     | (3) |
| 4.3 Different types of GNSS.                        | (3) |
| 4.4 Collection GCP's and transferring data from GPS | (3) |

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**(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020**  
**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)**

**Course Code:** P2GE309  
**Credit:** 4  
**Duration of Examination:** 4hrs.

**Title:** Fundamentals of GIS & GPS  
**Max. Marks:** 100  
**(a) Internal:** 50  
**(b) External:** 50

**Note for Paper Setters:**

<b>1</b>	<b>Internal</b>	<b>Break up of marks</b>
(i)	Daily Evaluation of Practical Record	20
(ii)	Attendance	10
(iii)	Test+Viva-Voce+Practical Records (10+5+5)	20
<b>2</b>	<b>External</b>	
(i)	Test	36
(ii)	Viva	9
(iii)	Practical record	5
<b>Total</b>		<b>100</b>

**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Lo C.P./ & Yeung A.K.W., (2004). Concepts and Techniques of GIS, Prentice-Hall of India, New Delhi.
2. Heywood I, Cornelius S, Carver S. (2000). Introduction to GIS. Addison Wesley Longman, New York.
3. Burrough P.A. and Rachael A. Mc Donnell. Principles of Geographic Information Systems, 2<sup>nd</sup> Ed.
4. Masood A S., (2006). Introduction to GIS, Sharda PustakBhavan Allahabad.
5. Fazal.S. & Rahman A. (2007). GIS Terminology, New Age International Publishers, New Delhi.
6. Fazal. S. (2008). GIS Basics, New Age International Publishers, New Delhi.
7. Leick A. (1995) GPS Satellite Surveying, 2<sup>nd</sup> Edition, John Wiley and Sons.
8. French. G.T. Understanding the GPS: An Introduction to the Global Positioning System.
9. Element of Photography: Payl R. Wolf.
10. Jensen, J.R. 2000: Remote Sensing of the Environment: An Earth Resource Perspective, Prentice Hall.
11. Joseph George, 2003: Fundamentals of Remote Sensing, Universities Press.
12. Lillesand, T.M., and Kieffer, R.M., 1987: Remote Sensing and Image Interpretation, John Wiley.
13. Paine, D.P., 1981: Aerial Photography and Image Interpretation for Resource Management, John Wiley.
14. Pandey, S.N., 1987: Principles and Applications of Photography, Wiley Eastern.
15. Gibson, P.J. 2000: Digital Image Processing, Routledge Publication.

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SYLLABUS FOR POSTGRADUATE PROGRAMME IN GEOGRAPHY  
(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020  
M.A./M.SC. GEOGRAPHY, 4th SEMESTER  
(Detailed syllabus for examination to be held in May 2027,2028 & 2029)

Course Code: P2GETC401  
Credit: 4

Title: Mountain Geography  
Max. Marks: 100

**Objectives:**

The objective of the course is to explore the mountain environment, the geo-ecological processes and the role of the people in using, transforming and conserving them. The focus of the course is both is physical human system and their interaction in mountainous region.

**Unit-I**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Concept of Mountain Environment.                  | (3) |
| 1.2 Impact of Climate Change on Mountain Environment. | (3) |
| 1.3 Risk and hazards of Mountain Environment.         | (3) |
| 1.4 Mountain Geography and Global Agenda.             | (3) |

**Unit-II Mountain Geography with Special References to J&K.**

- |   |     |
|---|-----|
| 2.1 Physical Landscapes of J&K.             | (3) |
| 2.2 Climate: Temperature and precipitation. | (3) |
| 2.3 Forest Resources of J&K.                | (3) |
| 2.4 Water resources of J&K.                 | (3) |

**Unit-III**

- |   |     |
|---|-----|
| 3.1 Human Resources: Population distributions in J&K. | (3) |
| 3.2 Literacy and Education in J&K.                    | (3) |
| 3.3 Healthcare infrastructure in J&K.                 | (3) |
| 3.4 Occupational infrastructure in J&K.               | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 Agriculture and Rural Development in J&K. | (3) |
| 4.2 Tourism of J&K.                           | (3) |
| 4.3 Cottage & Small scale industry of J&K.    | (3) |
| 4.4 Cultural diversity of J&K.                | (3) |



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DEPARTMENT OF GEOGRAPHY  
SYLLABUS FOR POSTGRADUATE PROGRAMME IN GEOGRAPHY  
(2-YEAR M.A./M.SC. COURSE) AS PER NATIONAL EDUCATION POLICY (NEP)-2020  
M.A./M.SC. GEOGRAPHY, 4th SEMESTER  
(Detailed syllabus for examination to be held in May 2027,2028 & 2029)

Course Code: P2GETC401  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Mountain Geography  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. A.S Rawat : Alternative Farming system in Dry Temperate Zone of Himachal: Study of Kinnaur District, Indus publishing.
2. Harish Kapadia : Across Peaks and Passes in Darjeeling & Sikim, , Indus publishing
3. Prem Singh Jina Ladakh : Land and people, Indus publishing.
4. H.C Pokhriyal : Agrarian Economy of Central Himalaya, Indus publishing .
5. P.N Pande : Drudgery of the Hill Women, Indus publishing company.
6. Vir Singh & M.L Sharma (Eds): Mountain Ecosystem: A scenario of Unsustainability, Indus publishing
7. B.D Sharma & Tej Kumari Sharma (Eds) : Himalayan Natural Resources, publishing
7. Itoo J (2004) Jammu and Kashmir at Glance.
8. Jasbir Singh: The Economy of Jammu & Kashmir, R.K. Anand & Co. Jammu, 2004.
9. K Warikoo (1976), Jammu, Kashmir & Ladakh : A classified Bibliography.
10. M.A. Stein (1982), Kalhana's Raja Larangani, The First Chromick Kashmir, 1 Bombay.
11. Majid Hussain, A Geography of Jammu & Kashmir. Ariana Publishing House New Delhi, 1985.
12. Somnath Dhar (1977), Jammu & Kashmir, NBT, Srinagar, Kesar Publishers.

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(Detailed syllabus for examination to be held in May 2027,2028 & 2029)

Course Code: P2GETE402  
Credit: 4

Title: Gender Geography  
Max. Marks: 100

**Objectives:**

The objective of this course is to analyse how gendered social processes linked to space, place and scale. The spatial processes related to gender identities, methodology to understand different perspectives of spatial constraints in cultural and intellectual context. It aims to generate to spatial concerns in human geography.

**Unit-I**

	<b><u>Contract Hours</u></b>
1.1 Nature, Definition and Scope of Gender Geography.	(3)
1.2 Place of Gender in Geography.	(3)
1.3 Changing Social Attitude.	(3)
1.4 Elements of Gender Geography.	(3)

**Unit-II**

2.1 Concept of Feminism.	(3)
2.2 Radical and Social Feminism.	(3)
2.3 Phenomenologic and Humanistic Approaches in Gender Geography.	(3)
2.4 Marxism and Gender.	(3)

**Unit-III**

3.1 Women Empowerment- Conceptual and Theoretical Framework	(3)
3.2 Women Employment	(3)
3.3 Gender Health Care Facilities.	(3)
3.4 Gender Literacy.	(3)

**Unit-IV**

4.1 Global Gender Variations in Developed and Developing Countries.	(3)
4.2 Global Gender Conventions.	(3)
4.3 Legislations and Women's Rights in India.	(3)
4.4 Gender Case Studies of Himalayan Region.	(3)

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Course Code: P2GETE402  
Credit: 4  
Duration of Examination: 3 hrs.

Title: Gender Geography  
Max. Marks: 100  
(a) Minor Test-I: 20  
(b) Minor Test-II: 20  
(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Kobayashi Audrey "Women, Work & Place" 1994.
2. Kobayashi Audrey, "Gender Place and Culture" 1994.
3. Legg Stephen "Gender Place and Culture" 2003.
4. Massey Doreen "Space Place and Gender" Minneapolis Universal of Minnesota Press, 1994.
5. Dowsh, Mona & Toni Seagar "Putting Women in Place: Feminist Geographers, Make Sense of the World, New York, 2001.
6. M.Satish & S. Corbridge "Doing Gender, Doing Geography, Emerging Research in India, New Delhi: Sage, 2006.
7. M.Satish & S. Corbridge "Doing Gender, Doing Geography, Emerging Research in India, New Delhi, Coutledge, 2001.
8. Prof. Anuradha Sharma "Space, Place and Gender Inequality" A Geographical Exploration of Tribal Women's well-being in the Cold Desert of Trans-Himalayan Region
9. Dr. Suman Kumari & Prof. Anuradha Sharma " In the Shadows of the Himalayas: Life Livelihoods and Legends

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Course Code: P2GETE403  
Credit: 4

Title: Agriculture Geography  
Max. Marks: 100

**Objectives:**

The course aims to make students understand the basic concepts of Agriculture Geography i.e. general landuse, agricultural landuse, cropping pattern, soil and crop relationships etc. The objectives of the paper / course are to understand relationships between physical nature of the region and overall agrarian practices.

**Unit-I**

- |   | <b><u>Contract Hours</u></b> |
|---|------------------------------|
| 1.1 Nature, Scope and Significance of Agricultural Geography. | (3)                          |
| 1.2 Approaches to the study of Agricultural Geography.        | (3)                          |
| 1.3 Origin and Development of Agricultural Geography.         | (3)                          |
| 1.4. Role of agriculture on human society                     | (3)                          |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Factors Affecting the Agricultural Land Use.            | (3) |
| 2.2 Agricultural Concept and their Measurement:             | (3) |
| a. Cropping Pattern      b. Crop Concentration              |     |
| c. Crop Combination     d. Crop Diversification             |     |
| 2.3 Agricultural Efficiency and Productivity                | (3) |
| 2.4 Regional Patterns of Agricultural Productivity in India | (3) |

**Unit-III**

- |  |     |
|--|-----|
| 3.1 Von Thunen's Model of Agricultural Location and its Modification.    | (3) |
| 3.2 Land Use Patterns in India   | (3) |
| 3.3 Green Revolution and Second generation reforms in Indian agriculture | (3) |
| 3.4 Characteristics of India Agricultural                                | (3) |

**Unit-IV**

- |  |     |
|--|-----|
| 4.1 Basis of Classification of Agriculture in the World. | (3) |
| 4.2 Agricultural Regionalization of India.               | (3) |
| 4.3 Agricultural planning and policies.                  | (3) |
| 4.4 Food Security and Nutrition.                         | (3) |



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**(Detailed syllabus for examination to be held in May 2027,2028 & 2029)**

Course Code: P2GETE403

Credit: 4

Duration of Examination: 3 hrs.

Title: Agriculture Geography

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

The student shall be continuously evaluated during the conduct of each course on the basis of his/her performance as follows:

**Test I and Test II**

The Subjective Test of Test I and Test II would consist of three short answer type questions (05 marks each). Students are required to answer two questions. **No preparatory holidays shall be provided for the Test I and Test II.** Those candidates who have appeared in Test I and Test II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Hussain M. Agricultural Geography, Inter India Publishing Delhi.
2. Singh Jasbir and Dhillon, S.S. Agricultural Geography, Tata Mc Graw Hill, New Delhi, 1991.
3. Singh Jasbir Agricultural Atlas of India – A Geographical Analysis, Vishal Publishers Kurukshetra, 1974.
4. Symons, L., Agricultural Geography, G. Bells and Sons, London, 1967.
5. Saur Carl, Agricultural Origins and Dispersal, American Geographical Society New York.



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Course Code: P2GETE404

Title: Environmental Planning and  
Management  
Max. Marks: 100

Credit: 4

**Objectives:**

The importance of conserving the environment to sustain ecological balance has been emphasized in the course. To study nature and facts about environment and finding and implementing scientific, technological, economic and political solutions to environmental problems.

The course also highlights the environmental problems with which the present modern world is facing and how to mitigate with these problems are being emphasized. Specific Planning and management of the environmental issues are focused in this course.

**Unit-I**

	<b><u>Contract Hours</u></b>
1.1 Concept and components of environment	(3)
1.2 Environment: Life support system	(3)
1.3 Resource field and pollution sink	(3)
1.4 Ecosystem: Concept, nature, components, functions and types	(3)

**Unit-II**

2.1 Human Environment interaction: Environment and technology	(3)
2.2 Local, regional and global environmental problems; interconnections of these Environmental problems	(3)
2.3 Environmental degradation and pollution	(3)
2.4 Resource evaluation and degradation	(3)

**Unit-III**

3.1 Planning and management: Concepts, functions, approaches and Processes	(3)
3.2 Environmental Planning; Theory and process	(3)
3.3 Environmental Management: Steps and process	(3)
3.4 International commitments and national legal framework of Environmental Planning and management	(3)

**Unit-IV**

4.1 Approaches to Environmental planning and management	(3)
4.2 Risk restoration and holistic: scales of planning and management	(3)
4.3 Small community, urban, watershed and eco-region	(3)
4.4 Techniques, EIA, GIS, Remote Sensing	(3)



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Course Code: P2GETE404

Title: Environmental Planning and Management

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20

(b) Minor Test-II: 20

(c) Major Test: 60

**Scheme of Examination:**

MCQ on LMS + Subjective Test	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
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TEST II (after 60days)	26 to 50%	1 hour	10 + 10
Theory	Syllabus to be covered in the examination	Time allotted for the examination	%Weightage (Marks)
Major test (after 90 days)	100%	3 hours	60
Total			100

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**Major Test**

The Major test will comprise of two sections, Section-A and Section-B. Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. Section B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. **In major test there should not be a gap of more than two days in between two tests.**

**Suggested Readings:**

1. Barrow, C.J. (1999). Environmental Management: Principles and Practice. Routledge, New York.
2. DuPont, R.R., T.E. Baxter and L. Theodore, (1998). Environmental Management: Problems and Solutions, Lewis Publishers, Missouri.
3. Hanaki, K. (Ed.), (2008). Urban Environmental Management and Technology, Shinano inc. Springer.
4. Jeroen C.J.M. Vunder Bagh, K.J. Button and P.Nijkamp (2007). Environmental Planning, Edward Elgar. London.
5. Krishnamurthy, B.(2008). Environmental Management: Text and Cases, Prentice Hall of India Pvt. Ltd., New Delhi.
6. Madu, Christian N. (2007). Environmental Planning and Management, Imperial College Press, London.
7. Selma, P. (2008). Environmental Planning, Sage Publication India Ltd. New Delhi.

*Signature*  
**Final**

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Course Code: P2GEP2405  
Credit: 8

Title: Dissertation  
Max. Marks: 200

**Objectives:**

1. To develop research aptitude among the students.
2. To provide comprehensive understanding of the technique involved in conducting research.
3. To develop creative and critical thinking skills among the students.
4. To enhance the ability of students to conduct research ethically and meticulously.
5. To prepare the students for future research endeavors.

**UNIT-I**

- 1.1 Research: Definition, Types (Pure and Applied), Classification.
- 1.2 Hypothesis, Theories, Laws and Models.
- 1.3 Research Question, Objectives and Significance of Research.
- 1.4 Research Design: Data Collection and Analysis.

**UNIT-II**

- 2.1 Recent Trends in Geographical Research: Physical and Human Geography.
- 2.2 Ethics in Scientific Research: Plagiarism Copyrights.
- 2.3 Sampling types and techniques
- 2.4 Presentation of Research Findings: Report Writing, Presentation and Formatting.

The Course on Dissertation shall comprise 200 marks ( External 100 marks and Internal 100 marks). The students shall prepare a dissertation on the topic given by research supervisor.

**Note for Paper Setters:**

<b>I</b>	<b>Internal</b>	<b>Break up of marks</b>
(i)	Test	25
(ii)	Subject Matter	15
(iii)	Methodology	15
(iv)	Attendance	15
(v)	Presentation	15
(vi)	Viva Voce	15
		<b>100</b>
<b>2</b>	<b>External</b>	
(i)	Test	25
(ii)	Practical Record/ Report	50
(ii)	Viva Voce	25
	Total:	<b>100</b>



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Course Code: P2GEX405  
Credit: 8  
Duration of Examination: 4 hrs.

Title: Dissertation  
Max. Marks: 200  
(a) Internal: 100  
(b) External: 100

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**External Practical/ Research (thesis/project/patent) examination**

External Practical/ Research examination shall be conducted by Board of Examiners consisting of Head of the Department, one/two Senior Professors of concerned department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance/ dissertation of the students.

**Suggested Readings:**

1. Basotia G.R. & Sharma K.K., Research Methodology, 2002, Mangal Deep Publication, Jaipur.
2. Gosal G.S., Fourth Survey of Research in Geography, 1999, Manak Publication Pvt. Ltd., New Delhi.
3. Khazod V.V., Research Methodology Techniques and Trends 1995, Aph. Publishing Co., New Delhi.
4. Mishra H.N, & Singh V.P., Research Methodology in Geography, 1988, Rawat Publication, NewDelhi.
5. Nachmias D. & Nachmias C., Research Methodology in Social Science, 1981, St. Martin's Press, New York.



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Course Code: P2GE406  
Credit: 4

Title: Field Study Tour  
Max. Marks: 100

**Objective**

The objective of the study to acquaint the students with physical cultural and social aspects through observation method of the different geographical aspects and finally preparing the report. The student develop their social academic and research skills during their visit in different climatic and physical landscapes.

1. The Field Study Tour shall be compulsory for all the 4<sup>th</sup> Semester students.
2. The Field Study Tour shall be conducted at the end of the 3<sup>rd</sup> Semester Examination and before the beginning of the 4<sup>th</sup> Semester class work.
3. The Departmental Affairs Committee shall appoint a Course Coordinator for the conduct of the Tour.
4. The Course Coordinator in consultation with the Departmental Affairs Committee shall choose any of the following Tour Circuits:
  - Circuit I : Jammu- Kathgodam, Nanital, Ranikhet
  - Circuit II -Jammu-Delhi-Jaipur, Jaisalmer
  - Circuit III- Jammu-Delhi, Banglore, Muysor, Goa
  - Circuit-IV- Jammu-Channai-Kanyakumri, Trivandrum- Delhi- Jammu
  - Circuit-V- Jammu-Dharmshala-Mcleodganj-Dalhousie-Khajjiar
5. The Field Study Tour shall be evaluated both externally and internally.
6. The Course Coordinator shall act as the Internal Examiner.
7. The External Examiner shall be appointed from a Panel of Examiners duly approved by the Competent Authority.
8. The candidates shall be required to write a Tour Report covering the following aspects:
  - i) Physiography
  - ii) Human Resources and Settlement
  - iii) Urban Structure and Process
  - iv) Industrialization
  - v) Transport Connectivity



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Course Code: P2GEO406  
Credit: 4  
Duration of Examination: 4 hrs.

Title: Field Study Tour  
Max. Marks: 100  
(a) Internal: 50  
(b) External:50

**Note for Paper Setters:**

<b>1</b>	<b>Internal</b>	<b>Break up of marks</b>
(i)	Subject Matter	10
(ii)	Methodology	10
(iii)	Attendance	10
(iv)	Presentation	10
(v)	Viva Voce	10
		<b>50</b>
<b>2</b>	<b>External</b>	
(i)	Practical Record/ Report	30
(ii)	Viva Voce	20
		<b>50</b>
	<b>Total:</b>	<b>100</b>

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER  
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Course Code: P2GE407

Title: Applications of Remote Sensing and  
GIS in Geographical Research  
Max. Marks: 100

Credit: 4

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**Objectives:**

- The main objective of this course is to develop skills of application of Remote Sensing and GIS in Physical and Human Geography by using Arc View, Arc GIS and ERDAS Imagine Software.
- It intends to enable students to comprehend the application of RS & GIS in natural resource management, human settlement, regional development and planning, Environmental management and disaster management.

**Unit-I**

Application of Remote Sensing and GIS in Physical and Human Geography with special reference to Natural Resource Management, Human Settlement, Regional Development and Planning, Environmental Management and Disaster Management.

**Unit-II**

Based on above applications, prepare a project report by using Remote Sensing and GIS



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(Detailed syllabus for examination to be held in May 2027,2028 & 2029)

Course Code: P2GERC407

Title: Applications of Remote Sensing and GIS in Geographical Research

Credit: 4

Max. Marks: 100

Duration of Examination: 4 hrs.

(a) Internal: 50

(b) External: 50

**Note for Paper Setters:**

	Internal	Break up of marks
1		
(i)	Subject Matter	10
(ii)	Methodology	10
(iii)	Attendance	10
(iv)	Presentation	10
(v)	Viva Voce	10
2	External	
(i)	Practical Record/ Report	30
(ii)	Viva Voce	20
	<b>Total:</b>	<b>100</b>

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**Suggested Readings:**

1. Barret, EC & Corlis, E.F. The Built Environment in Remote of Environment Second Edition PP. 293-306, 1982.
2. Muralikrishna, I.V. Remote Sensing Applications and Geographic Information System – Recent Trends, Tata McGraw Hill, New Delhi, 1992.
3. Nag, Prithvish. Thematic Cartography and Remote Sensing, Concept Publication, New Delhi, 1992.
4. Richardson, B.F. (ed). Introduction to Remote Sensing of the Environment, Kendall/Hunt, Doboque, Iowa, 1978.
5. Agarwal, C.S. and P.K. Garg. Text Book on RS in Natural Resources Monitoring and Management, Wheeler Publishing Co, New Delhi-2000.
6. Townsend, J. R. G. Terrain Analysis and RS, George Allen and Onloin, 1981.
7. Vestappen, H. Remote Sensing in Geomorphology, Elseiver Scientific Published, Netherlands, 1977.
8. Verbyla, David, L. Satelite Remote Sensing of Natural Resources, Lewis Publishers, New York, 2005.

