

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, 1ST 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

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|---|-----|
| 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, 1ST 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, Penguin 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, 1ST 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

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|---|-----|
| 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

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|--|-----|
| 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

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|---|-----|
| 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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(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. Olan Economy, 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, 5th 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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(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

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|--|-----|
| 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

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|--|-----|
| 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

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|---|-----|
| 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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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

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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. 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 (5th 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, Francis (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, 1ST 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.

<u>Unit-I</u>	<u>Contract Hours</u>
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)
<u>Unit-II</u>	
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)
<u>Unit-III</u>	
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)
<u>Unit-IV</u>	
4.1 Geopolitical Importance of North America	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 North America's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)

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M.A./M.SC. GEOGRAPHY, 1ST 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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(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.

<u>Unit-I</u>	<u>Contract Hours</u>
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)
<u>Unit-II</u>	
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)
<u>Unit-III</u>	
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)
<u>Unit-IV</u>	
4.1 Geopolitical Importance of South America	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 South America's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)

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(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

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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. 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".
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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".
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M.A./M.SC. GEOGRAPHY, 1ST 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

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 Europe	(3)
1.2 Climate types of Europe	(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 Europe	(3)
2.4 Production and Distribution of major crops (Rice, Wheat and Tea)	(3)

Unit-III

3.1 Resources in Europe; (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 Europe	(3)
4.2 Regional Conflicts and Tensions	(3)
4.3 Europe's Role in Global Economy	(3)
4.4 Environmental Challenges and Cooperation	(3)

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(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. Tikkha, 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".

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, 1ST SEMESTER
(Detailed syllabus for examination to be held in Dec 2025, 2026 & 2027)

Course Code P2GETP107
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)
Practical / Research (thesis/project/patent)			
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
Total		50

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

Course Code P2GETP107

Credit: 2

Duration of Examination: 2 hrs.

Title: Quantitative Techniques in Geography

Max. Marks: 50

(a) Internal: 25

(b) External: 25

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

Course Code: P2GETP108
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)
Practical / Research (thesis/project/patent)			
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
Total		50

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

Course Code: P2GETP108
Credit: 2
Duration of Examination: 2 hrs.

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

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, 6th 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.