

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, 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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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,
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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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

Contract Hours

- | | |
|---|-----|
| 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. Dowosh, 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

Title: Agriculture Geography

Credit: 4

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

Contract Hours

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

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Major Test

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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**

Credit: 4

Max. Marks: 100

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

Contract Hours

- | | |
|---|-----|
| 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)
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. 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.

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Course Code: P2GETR405
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:

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

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Course Code: P2GETR405

Credit: 8

Duration of Examination: 4 hrs.

Title: Dissertation

Max. Marks: 200

(a) Internal: 100

(b) External: 100

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. Khanzod 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, New Delhi.
5. Nachmias D. & Nachmias C., Research Methodology in Social Science, 1981, St. Martin's Press, New York.

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Course Code: P2GETR406
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 4th Semester students.
2. The Field Study Tour shall be conducted at the end of the 3rd Semester Examination and before the beginning of the 4th 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-Chennai-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: P2GETR406
Credit: 4
Duration of Examination: 4 hrs.

Title: Field Study Tour
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
		50
2	External	
(i)	Practical Record/ Report	30
(ii)	Viva Voce	20
		50
	Total:	100

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.

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Course Code: P2GETR407

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

Credit: 4

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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Course Code: P2GETR407

**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:

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:	100

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. 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, Dobuque, 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.