

**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, 3rd SEMESTER**  
**(Detailed syllabus for examination to be held in Dec 2026, 2027 & 2028)**

**Course Code: P2GETC301**  
**Credit: 4**

**Title: Oceanography**  
**Max. Marks: 100**

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**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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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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**Course Code: P2GETC302**  
**Credit: 4**

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

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**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: Whittlesley 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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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. Berry J.L., Geography of Market Centers and Retail Distribution, Prentice Hall, New York, 1967.
2. Chatterjee, S.P. Economic Geography of Asia, Allied Book Agency, Calcutta, 1984.
3. Chorley, R.J. and Haggett, P(ed), Network Analysis in Geography, Arnold, 1969.
4. Dreze, J. and Sen, A. India- Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996.
5. Exkarsley, R(ed): Markets, The State and the Environment, McMillan, London, 1995.
6. Garnier, B.J. and Delobez, A Geography of Marketing, Longman, London, 1979.
7. Hamilton, F.E.I.: Spatial Perspectives on Industrial Organization and Decision Making. John Wiley, New York, 1974.
8. Hamilton, I. (ed): Resources and Industry, Oxform University Press, New York, 1992.

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**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.

<b><u>Unit-I</u></b>	<b><u>Contract Hours</u></b>
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)
<b><u>Unit-II</u></b>	
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)
<b><u>Unit-III</u></b>	
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)
<b><u>Unit-IV</u></b>	
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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**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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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. 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**

**Contract Hours**

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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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".
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. B.S. Negi. "Economic and Commercial Geography of the World".

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**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
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**Course Code: P2GETE305**  
**Credit: 4**

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

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**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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**M.A./M.SC. GEOGRAPHY, 3rd SEMESTER**  
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**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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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. 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**

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**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**

**Contract Hours**

- |   |     |
|---|-----|
| 1.1 Definition, Nature and Scope of Political Geography           | (3) |
| 1.2 Political Geography and Geopolitics                           | (3) |
| 1.3 Elements of Political Geography – Territory, State and People | (3) |
| 1.4 Evolution and Growth of Political Geography                   | (3) |

**Unit-II**

- |   |     |
|---|-----|
| 2.1 Nation and State in Political Geography       | (3) |
| 2.2 Boundaries , Frontiers and Buffer Zones       | (3) |
| 2.3 Population, Resources and Political Geography | (3) |
| 2.4 Power and Politics in Political Geography     | (3) |

**Unit-III**

- |   |     |
|---|-----|
| 3.1 Heartland Concept of Halford Mekinder       | (3) |
| 3.2 Rimland concept of Spykman                  | (3) |
| 3.3 OPEC and SAARC in Political Geography       | (3) |
| 3.4 Global Institutions and Political Geography | (3) |

**Unit-IV**

- |   |     |
|---|-----|
| 4.1 Geopolitical Hotspot- South China Sea   | (3) |
| 4.2 European Political Geography            | (3) |
| 4.3 Political Geography of South-East Asia  | (3) |
| 4.4 Political Geography of the Indian Ocean | (3) |

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**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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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- Sudepta 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.

**UNIVERSITY OF JAMMU**  
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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**

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**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:**

<b>MCQ on LMS + Subjective Test</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
TEST I (after 30 days)	25%	1 hour	10 + 10
TEST II (after 60days)	26 to 50%	1 hour	10 + 10
<b>Theory</b>	<b>Syllabus to be covered in the examination</b>	<b>Time allotted for the examination</b>	<b>%Weightage (Marks)</b>
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, Bostan, 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: P2GETP308**  
**Credit: 4**

**Title: Socio-Economic Survey**  
**Max. Marks: 100**

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**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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**Course Code: P2GETP308**  
**Credit: 4**  
**Duration of Examination: 4 hrs.**

**Title: Socio-Economic Survey**  
**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>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. Archeer, 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. Wheleso, 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: P2GETP309**  
**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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**Course Code: P2GETP309**

**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:**

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