



**UNIVERSITY OF JAMMU**  
**NOTIFICATION**  
**(11/July/ ADP/24)**

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, has been pleased to authorize the adoption of the revised Syllabi and Courses of Study in the subject of Geography for B.A./B.Sc. Part I of Three Year (General) Degree Course and for M.A./M.Sc. II & III Semesters of Master's Degree Programme, for the examination to be held in the years along with %age of change as under:-

<u>Class</u>	<u>Part</u>	<u>For the Examinations to be held in the year</u>	<u>%age of change</u>
B.A./ B.Sc.	I	2012, 2013, 2014	Paper-A-10% Paper-B-5% Practicals- No Change

**M.A./M.Sc. Semester-II**

S.No	Course No.	For the examinations to be held in the year	%age of change
1.	450	May 2012,2013, 2014	No Change
2.	451	May 2012,2013, 2014	1% change
3.	452	May 2012,2013, 2014	No Change
4.	453	May 2012,2013, 2014	No Change
5.	454	May 2012,2013, 2014	No Change
6.	455	May 2012,2013, 2014	No Change

**M.A./M.Sc. Semester-III**

S.No	Course No.	For the examinations to be held in the year	%age of change
1.	500	Dec. 2012,2013, 2014	No Change
2.	501	Dec. 2012,2013, 2014	1% change
3.	502	Dec. 2012,2013, 2014	No Change
4.	503	Dec. 2012,2013, 2014	No Change
5.	504	Dec. 2012,2013, 2014	No Change
6.	505	Dec. 2012,2013, 2014	No Change

The alternative question papers are required to be set as per the regulations given below:-

- i). If the change in the Syllabi and Courses of Study is less than 25%, no alternative Question papers to be set.
- ii). if the change is 25% and above but below 50% alternative Question Papers to be set for one year.
- iii). If the change is 50% and above or whole scheme is changed, alternative Question Papers be set for two years.

Sd/-  
REGISTRAR

F.Acd./12/11/ 4533-67  
Dated: 04-08-2011

Copy for information and necessary action to:

1. Special Secretary to Vice-Chancellor, University of Jammu;
2. Sr. P.A. to Registrar/Controller of Examinations;
3. Dean, Faculty of Science;
4. Convener, Board of Studies in Geography;
5. Members of the Board of Studies concerned;
6. Principals of the concerned Colleges;
7. C.A. to Controller of Examinations;
8. Deputy/ Asstt. Registrar (Conf./Exams. UG/PG /Inf./Pub./Admission/DDE);
9. S.O (Confidential); and
10. Content Manager, University Website.

Asst. Registrar (Academics)

2/8/11

**B.A./B.SC. PART-I**

**DETAILED SYLLABUS FOR**

**EXAMINATIONS TO BE HELD IN**

**MAY 2012, 2013 AND 2014**

*Thanks*

*by* *Dr. Anurag*  
*Verma*



**Syllabus for B.A-I Geography**

**Paper A- Physical Geography**

**Syllabi and Courses of Study in Geography for B.A/ B.Sc Part I for Examinations to be held in the year 2012, 2013 and 2014.**

**Objectives:**

The objective of this course is to introduce the latest concepts in Physical Geography, essentially geomorphology, to the students of geography in a brief but adequate manner.

**Course Contents:**

**UNIT I**

	Lectures
1. Definition, Nature and Scope of Geography	(1)
2. Divisions of Geography	(1)
3. Physical Geography and its components	(1)
4. Geomorphology and other disciplines	(2)

**UNIT-II**

1. Evolution of Solar System	(1)
2. Origin of the Earth	(2)
3. Isostasy, Continental Drift and Plate Tectonics	(2)
4. Geological Time Scale	(1)

**UNIT-III**

1. Interior of the Earth	(1)
2. Rocks- Origin and Types	(2)
3. Earth Movements	(2)
4. Earthquakes and Volcanoes	(2)

**UNIT-IV**

1. Weathering and Erosion- Running water, Wind, Glacier	(2)
2. Soil Erosion and Conservation	(2)
3. Landslides and Avalanches	(1)
4. Environmental Hazards and Management	(2)

**Instructions for paper setter**

The question paper shall comprise of two sections- A and B. Section A shall be compulsory and shall contain 8 questions of 2 marks covering all the four units. Answer should be limited to 50 words. Section B shall contain 8 questions spread over four units and candidate shall attempt one question from each unit of 6 marks each. Answer should be limited to 300 words.

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*Swindish*  
*Pranve*

Suggested Readings:

1. Monkhouse, F.J: Principles of Physical Geography, Hodder and Stoughton, London, 1960.
2. Singh, S: Physical Geography, Prayag Pustak Bhawan, Allahabad, 1998.
3. Strahler, A.N. Environmental Geo-Science, Hamillon Publishing, Santa Barbara, 1973.
4. Strahler, A.N, and Strahler.A.H, Modern Physical Geography John Wiley & Sons, Revised edition, 1992.
5. Thornbury, W.D., Principles of Geomorphology, Wiley Eastern, 1969.
6. Wooldrige S.W and Morgan, R.S., The Physical Basis of Geography and Geomorphology, Longman Green & Co. London, 1959.

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*by*  
*Shivinder Singh*

## Syllabus for B.A-I Geography

### Paper B- Geography of Jammu & Kashmir

**Syllabi and Courses of Study in Geography for B.A/ B.Sc Part I for Examinations to be held in the year 2012, 2013 and 2014**

#### **Objective:**

The objective of this course is to make the students familiar with the geography of Jammu and Kashmir, its physical, socio-cultural and economic setting.

#### **Course Contents**

##### **UNIT-I:**

	<b>Lectures</b>
1. J&K in the context of India	(1)
2. Relief- Physical Divisions, Mountains and passes	(2)
3. Climate and drainage	(2)
4. Vegetation-Types and Distribution	(2)

##### **UNIT-II**

1. Agriculture- Types and factors affecting agriculture	(1)
2. Land utilization and production of crops-wheat, rice, maize	(2)
3. Horticulture, apiculture and sericulture	(2)
4. Livestock and Fisheries of J&K	(1)

##### **UNIT-III**

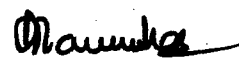
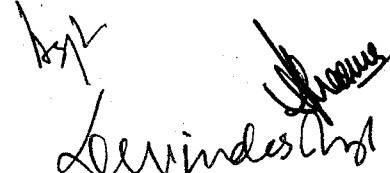
1. Mineral resources-coal, gypsum, bauxite, limestone	(2)
2. Power Resources-Hydel and Thermal	(1)
3. Industries-Carpet Making, Woolen, Forest based industries, Agro-industries, Cement and Handicrafts	(3)
4. Exports and Imports, Transport and Communication	(2)

##### **UNIT-IV**

1. Population-Distribution, growth, density	(1)
2. Migration and Transhumance	(1)
3. Urbanization influencing factors and growth of towns	(2)
4. Tourism development and its impact	(1)

#### **Instructions for paper setters**

The question paper shall comprise of three sections A, B and C. Section A will be comprising of 6 questions carrying 2 marks. Answer should be limited to 50 words. Section B comprising of 12 questions. Students have to attempt 6 questions. Answer should be limited to 150 words will each carrying 3 marks. Section C comprising of 4 questions where a student will have to attempt 2 questions of 5 marks each. The answer should be limited to 300 words.

should be limited to 150 words with each carrying 3 marks. Section C comprising of 4 questions where a student will have to attempt 2 questions of 5 marks each. The answer should be limited to 300 words.

### Suggested Readings:

1. Dhar Vidya: Jammu and Kashmir Past and Present, Saksham Jammu 2005.
2. Drew Frederic, 1971: Jammu and Kashmir Territories: A Geographical Account, Oriental Publishers, Delhi.
3. Frank Younghusband: Sir Kashmir, London.
4. G.B. Singh: Encyclopedia of Jammu.
5. Itoo J(2004) Jammu and Kashmir at Glance.
6. Jasbir Singh: The Economy of Jammu and Kashmir, R.K. Anand & Co. Jammu, 2004.
7. K. Warikoo (1976), Jammu, Kashmir & Ladakh: A classified Bibliography.
8. M.A. Stein (1982), Kalhana's Raja Larangani, The First Chronicle of Kashmir, Bombay.
9. Majid Hussain, A Geography of Jammu and Kashmir. Ariana publishing House New Delhi, 1985.
10. Somnath Dhar (1977), Jammu and Kashmir, NBT, Srinagar, Kersar Publishers.

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*Devinder Singh*



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## Cartography (Practical)

## Marks 25

Geography is an amalgam of physical as well as social sciences and as such, it is necessary for the students to go through laboratory exercises, particularly the techniques of drawing cartograms showing physical, climatic and socio-economic attributes of a region. To achieve these objectives the concept of scale is to be understood at the initial stage.

**Course contents:**

## UNIT-I

# Lectures

25

## UNIT-II

25

### UNIT-III

25

## UNIT-IV

25

30

### Instructions to the Paper Setter

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required to attempt one question from each unit of 4 marks each making a total of 12 marks. In the second session the questions will be asked from Unit-IV of the syllabus. The distribution of marks shall be as- Surveying of 5 marks, Practical record file and viva voci of 4 marks and Field Report of 4 marks making a total of 13 marks.

### Suggested Readings

1. Mishra R.P. and Ramesh A., Fundamentals of Cartography, Mcmillan co. New Delhi, 1986.
2. Pal, S.K., Statistics for Geoscientists- Techniques and Application. Concept Publishing, New Delhi, 1998.
3. Robinson, A.H. et. al: Elements of Cartography, John Wiley & Sons, U.S.A, 1995.
4. Sarkar A, Practical Geography: A Systematic Approach, Oriental Logman, Calcutta, 1997.
5. Singh R.L and Dutt.R.K., Elements of Practical Geography, Kalyani Publishers, New Delhi, 1979

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**M.A./M.SC. II SEMESTER**

**DETAILED SYLLABUS FOR**

**EXAMINATIONS TO BE HELD IN**

**MAY 2012, 2013 AND 2014**

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**University of Jammu**

**M.A/M.Sc Geography 2<sup>nd</sup> Semester**

Course No. 450

Title: Climatology

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**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. Atmospheric 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<br>La Nina, 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. Modified Koppen's classification as proposed by Trewartha                         | (3) |
| 3.4. Major climates of the World- tropical, temperate, desert<br>and mountain climate. | (3) |

**UNIT-IV**

- |  |     |
|--|-----|
| 4.1. Climate and soil                                | (3) |
| 4.2. Climate and agriculture                         | (3) |
| 4.3. Climate and house types as well as human health | (3) |
| 4.4. Climate and vegetation                          | (3) |

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**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**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, P.J. and Henderson S.: Contemporary Climatology, Henlow, 1999.
11. Thompson, R.D. and Perry, A (ed.): Applied Climatology, Principles and Practice, Routledge, London, 1997.

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University of Jammu

M.A/M.Sc Geography 2<sup>nd</sup> Semester

Course No. 451

Title: Economic Geography

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**UNIT-I**

**CONTRACT HOURS**

- |  |     |
|--|-----|
| 1.1. Scope, content and recent trends in Economic Geography                              | (3) |
| 1.2. Relation of Economic Geography with economics and other branches of social sciences | (3) |
| 1.3. Approaches in Economic Geography  | (3) |
| 1.4. Classification of economies, sector of economy                                      | (3) |

**UNIT-II**

- |   |     |
|---|-----|
| 2.1. Factors of location of economic activities                                   | (3) |
| 2.2. World major types of Agriculture   |     |
| 2.3. Agricultural Regionalization of India  | (3) |
| 2.4. Crop combination and diversification- Von Thunen model and its Modifications | (3) |

**UNIT-III**

- |  |     |
|--|-----|
| 3.1. Classification of Industries  | (3) |
| 3.2. Theories of Industrial location- Weber, Losch & Christaller Central place theory            | (3) |
| 3.3. Case studies of selected Industries- Iron and steel, Automobiles, Sugar and Cotton textiles | (3) |
| 3.4. Typology of Markets   | (3) |

**UNIT-IV**

- |   |     |
|---|-----|
| 4.1. Mode of transportation and transportation cost, accessibility and connectivity | (3) |
| 4.2. Economic development of India and regional disparities                         | (3) |
| 4.3. Impact of Green Revolution on Indian Economy                                   | (3) |
| 4.4. Globalization and its impact on Indian economy                                 | (3) |

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*by* *Levinus*

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**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**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. Eckarsley, 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, Oxford University Press, New York, 1992.
9. Hurst E: Transport Geography-Comments and Readings, Mc Graw Hill, New York, 1974.
10. Morgan, WB and Munton R.J.C.: Agricultural Geography, Methuen, London, 1977.
11. Pachuri, R.K. Energy and, Economic Development in India, Praeger, New York, 1977.
12. Robertson, D.(ed): Globalization and Environment, E.Elgar Co., U.K. 2001.
13. Rostow, W.W.: The Stages of Economic Growth, Cambridge University Press, London, 1960.
14. Singh J. and Dhillon S.S., Agricultural Geography, Mc Graw Hill, India, New Delhi, 1984.
15. Symons L: Agricultural Geography, Bell and Sons, London, 1972.
16. Wheeler, J.O. et.al.: Economic Geography, John Wiley, New York, 1995.
17. K.K.Khanna, Economic & Commercial Geography, 23, Daryagang, New Delhi.
18. Prithwish Roy, Economic Geography: A study of resources, New Central Book Agency, Calcutta-700009.
19. K Siddhartha, Economic Geography (Theories, processes and patterns) Kisalaya Publication Pvt. Ltd. Patna-13.
20. B.Tandon & K.Tandon: Indian Economy, Tata Mc Graw Hill Publishing Company Ltd., New Delhi.
21. Leong & Morgan: Human and Economic Geography, Oxford University Press, Oxford, New York.

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*by Leewinder Singh*



University of Jammu

M.A/M.Sc Geography 2<sup>nd</sup> Semester

Course No. 452

Title: History of Geographical Thought

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**UNIT-I**

**CONTRACT HOURS**

- |   |     |
|---|-----|
| 1.1. General character of Geography in the ancient period-<br>contribution of Herodotus, Eratosthenes, Strabo and Ptolmy. | (3) |
| 1.2. Contribution of Indian Scholars  | (3) |
| 1.3. Concept of Geography in the Medieval period- Dark Age<br>for Science   | (3) |
| 1.4. Arab Geographers.  | (3) |

**UNIT-II**

- |   |     |
|---|-----|
| 2.1. Beginning of Modern Geography- Verenius, Cluverius and Kant.   | (3) |
| 2.2. Contributions of Humboldt and Ritter.  | (3) |
| 2.3. Development of Geography in Europe during the second half of the<br>19 <sup>th</sup> century and first half of the 20 <sup>th</sup> century. | (3) |
| 2.4. Darwin's impact on Geography.  | (3) |

**UNIT-III**

- |   |     |
|---|-----|
| 3.1. Shifting view points in Geography during the second half of the<br>19 <sup>th</sup> century                  | (3) |
| 3.2. Growth and Development of Dualism between Physical<br>and Human Geography, Systematic and Regional Geography | (3) |
| 3.3. Determinism and Possibilism  | (3) |
| 3.4. Different Concepts of Geography  | (3) |
| a) Study of Relationships   |     |
| b) Environmental Determinism  |     |
| c) Human Ecology  |     |

**UNIT-IV**

- |   |     |
|---|-----|
| 4.1. Geography as a Science of Distributions and as a science of areal<br>differentiation | (3) |
| 4.2. Growth and Development of Systematic Geography                                       | (3) |
| 4.3. Growth and Development of Regional Geography   | (3) |
| 4.4. Time and Genesis in Geography  | (3) |

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**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**Suggested Readings:**

1. Abler, 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 & Co., 1959.
6. Husain, 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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**University of Jammu**  
**M.A/M.Sc Geography 2<sup>nd</sup> Semester**

Course No. 453

Title: Regional Planning and Development

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**UNIT- I**

**CONTRACT HOURS**

- |     |   |     |
|-----|---|-----|
| 1.1 | Regional concept in Geography, Conceptual and theoretical framework                             | (3) |
| 1.2 | Merits and limitations for application to regional Planning and development                     | (3) |
| 1.3 | Types of Region – Formal and functional, uniform and Nodal, single purpose and composite region | (3) |
| 1.4 | Methodologies and techniques of regional planning   | (3) |

**UNIT- II**

- |     |   |     |
|-----|---|-----|
| 2.1 | Physical regions, resource regions, regional division according To variations in the levels of socio-economic development | (3) |
| 2.2 | Special purpose regions-river valley regions, metropolitan regions  | (3) |
| 2.3 | Problem regions-hilly regions, drought prone regions  | (3) |
| 2.4 | Planning regions of India   | (3) |

**UNIT- III**

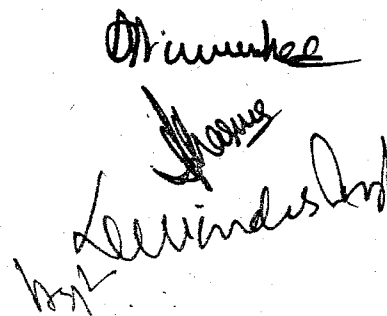
- |     |  |     |
|-----|--|-----|
| 3.1 | Surveys for planning   | (3) |
| 3.2 | Role of GIS, Remote Sensing and GPS in planning  | (3) |
| 3.3 | Concept of multilevel planning, decentralized planning, people's Participation in the planning process | (3) |
| 3.4 | Panchyati Raj System, role and relationship of Panchyati Raj Institutions                              | (3) |

**Unit-IV**

- |     |  |     |
|-----|--|-----|
| 4.1 | Regional development strategies-Concentration Vs Dispersal- Case studies for plans of developed and developing countries | (3) |
| 4.2 | Regional planning in India through five year plans   | (3) |
| 4.3 | Concept and indicators of development  | (3) |
| 4.4 | Regional disparities and the level of socio-economic development of India.   | (3) |

Note for Paper Setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.



## 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, P.: Models in Geography, Methuen, London, 1967.
5. Christaller, W.: Central Places in Sourthern 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. FFriedmann, J and Alonso, W.: Regional Development and Planning A Reader, M.I.T.Press, Cambridge, Mass 1967.
8. Clikson, 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-Econ omic 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.
11. Indian Council of Social Science Research: Survey of Research in Geography, Popular Prakashan, Bombay, 1972.
12. Johnson, E.A.J.: The Organization of Space in Developing Countries, Harvard University Press, Cambvridge, 1970.
13. Kuklinski, A.R.(ed): Growth Poles and Growth Centres in Regional Planning, Mounon, The Hague, 1972.
14. Kundu, A and Raza, Moonis: Indian Economy-The Regional Dimension, Spectrum Publishers, New Delhi, 1982.
15. Losch, A: Theeconomics of Location, University Press, Yackle, New Haven, 1954.
16. Misra, R.P.:P Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969.
17. Misra, R.P. and others (editors): Regional Development Planning in India-A Strategy, Institute of Development Studies, Mysore, 1974.
18. Mitra, A.: Levels of Regional Development, Census of India, Vol.I, Part-IA(I) and (ii), New Delhi, 1965.
19. Myrdal, G.: Econ omic Theory and Under-Development Regions, Gerald Duckworth, London, 1957.
20. Nangia Sudesh, Delhi Metropolitan Region Rajesh Publication, Delhi, 1976.
21. Richardson, H.W.: Regional Economics. Weidenfeld and Nicolson. London. 1969.
22. Sundaram,K.V.(ed): Geography and Planning, Essays in Honour of V.L.S.Prakasa Rao, Concept Publishing Co., New Delhi, 1985.
23. Tarlok SinghIndia's Development Experience, Mc Millan New Delhi, India. 1974.
24. Raza Moonis(editor) Regional Development Heritage Publishers Delhi, 1988.
25. Mishra, R.P.et.al. Multi-Level Planning Heritage Publishers, Delhi, 1980.

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**University of Jammu**

**M.A/M.Sc Geography 2<sup>nd</sup> Semester**

Course No. 454

Title: Field Work (Physical Survey)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**UNIT-I**

Trace the prominent features of the area to be surveyed. Identify salient landform features of the selected area on the topographical sheet.

**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.

**UNIT-III**

Identify and classify the biodiversity in the area (flora and fauna)

**UNIT-IV**

Observe the relationship of various landforms, flora and fauna with land-use, settlement structure and life style of people.

**UNIT-V**

Based on observations of the above characteristics, prepare a field survey report. The report needs to be supplemented with maps, sketches, photographs etc.

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University of Jammu

M.A/M.Sc Geography 2<sup>nd</sup> Semester

Course No. 455

Title: Field Work (Instrumental Survey)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examinations to be held in May 2012, 2013 and 2014

**UNIT-I**

Importance of field instrument survey- scope, purpose and application of survey instruments.

**UNIT-II**

Prismatic Compass Survey: Introduction, advantages & disadvantages and procedure. Open and closed traverse, Elimination error method.

**UNIT-III**

Dumpy level: Introduction, advantages & disadvantages and procedure. Traverse survey, longitudinal and contour plan preparation.

**UNIT-IV**

Theodolite- Introduction, types, advantages & disadvantages and procedure. Horizontal and vertical (height measures), accessible and inaccessible methods, Introduction to automatic surveying instrument, Use of Brunton compass: Pantographs or Planimeter for- assessment of area.

**Note for Paper Setter:**

The question paper will contain two questions from each unit (total eight questions) and the candidate will be required to answer one question from each unit (total questions to be attempted, will be four) i.e. there will be internal choice within each unit.

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**M.A./M.SC. III SEMESTER**

**DETAILED SYLLABUS FOR**

**EXAMINATIONS TO BE HELD IN**

**DECEMBER 2012, 2013 AND 2014**

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*Dr. Anurag*

University of Jammu

M.A/M.Sc Geography 3<sup>rd</sup> Semester

Course No. 500

Title: Soil Geography

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

UNIT-I

CONTRACT HOURS

- |   |     |
|---|-----|
| 1.1. Nature, Scope and Definition of Soil Geography     | (3) |
| 1.2. Soil forming factors and processes                 | (3) |
| 1.3. Soil components and Soil profile development       | (3) |
| 1.4. Properties of Soil- Physical, Chemical and Biotic. | (3) |

UNIT-II

- |  |     |
|--|-----|
| 2.1. Soil Humus- Origin and its role in physical and chemical reactions                                | (3) |
| 2.2. Soil Organisms- Micro organisms, Earthworms, Termites, Mites, Ants, Plant roots, Algae and Fungi. | (3) |
| 2.3. Nitrogen cycle, Nitrogen fixation and Denitrification   | (3) |
| 2.4. Soil water- Movements, balance and its use by crops.  | (3) |

UNIT-III

- |   |     |
|---|-----|
| 3.1. Soil Pedogenic regimes- Podzolization, Laterization, Calcification and Gleezation. | (3) |
| 3.2. Taxonomic Classification of Soil (Seventh Approximation)                           | (3) |
| 3.3. Zonal, Azonal & Intrazonal soil, their characteristics and World pattern           | (3) |
| 3.4. Soil Erosion, Degradation and Conservation   | (3) |

UNIT-IV

- |  |     |
|--|-----|
| 4.1. Soil survey and its Utilization                                   | (3) |
| 4.2. Land capability classification                                    | (3) |
| 4.3. Soil and Water Management   | (3) |
| 4.4. Sustainable development of soil resources with reference to India | (3) |

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**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**Suggested Readings:**

1. Ashman M.R. & Puri G., Essential Soil Science, 2002, Blackwell Publishing Company, New Delhi.
2. Brady N.C., The Nature and Properties of Soil, 1990, Collier Macmillan Publisher, New Delhi.
3. Gerrar J., Fundamentals of Soils, 2000, Routledge-Taylor & Fancies Group, London.
4. Miller, Donahue & Shickluna, Soils-An Introduction to Soils and Plant Growth, 1987, Prentice Hall, New Jersey.
5. Miller.W.R & Donahu R.L., 1997, Soils in our Environment, Prentice Hall of India, New Delhi.
6. McKnight T.L., Physical Geography, 1984, Prentice Hall, New Jersey.
7. Singer J.M & Munus D.N., 1992, Soils- An Introduction, Mcmillam Publishing Company, New York.

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University of JammuM.A/M.Sc Geography 3<sup>rd</sup> Semester

Course No. 501

Title: Geography of Rural Settlements

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

UNIT-I

## CONTRACT HOURS

- |   |     |
|---|-----|
| 1.1. Definition, Nature and Scope of Settlement Geography | (3) |
| 1.2. Definition and Characteristics of Rural Settlements  | (3) |
| 1.3. Evolution of Settlement studies in Geography         | (3) |
| 1.4. Settling process and evolution of Rural Settlement   | (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. Human settlement as system   | (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. House Types and Field Patterns  | (3) |
| 4.2. Rural house forms and types with special references to Gujjar houses and houses in Loran Valley     | (3) |
| 4.3. Origin, evolution, size and socio-spatial structure of villages in J&K, Punjab and Himachal Pradesh | (3) |
| 4.4. Rural Settlement Planning.  | (3) |

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**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**Books Recommended:**

1. Chisholm, Micheal; Rural Settlements and Land Use, Hutchinsonn 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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University of Jammu

M.A/M.Sc Geography 3<sup>rd</sup> Semester

Course No. 502

Title: Geography of Rural Development

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

CONTRACT HOURS

**UNIT-I- Introduction to Rural Development**

- 1.1. Nature, Scope and Significance of Geography of Rural Development (3)
- 1.2. Socio-economic Structure of Rural India (3)
- 1.3. Approach to Rural Development of Rural India (3)
  - BADP (Backward Rural Development Programme)
  - CADP (Common Area Development Programme)
- 1.4. Poverty Alleviation Programme: Antyodya, Food for Work Programme (3)

**UNIT-II- Dimensions of Rural Development**

- 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- Social and Financial Dimensions of Rural Development**

- 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- Technology and Rural Development**

- 4.1. Appropriate technology for the rural development (3)
- 4.2. Post-harvest technology (3)

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- 4.3. Farm technology in India- HYV Seeds, Chemical fertilizers (3)  
4.4. Plant protection measures and soil conservation (3)

**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

**Books Recommended:**

1. Dey. S.K., Panchavati Rai: A Synthesis, Asia Publishing House, N. Delhi, 1961.
2. Kurukshetra- A Symposium, Publication Division-Ministry of Information and Broadcasting, Govt. of India Press, Nasik, 1967.
3. Mishra R.P., Rural Area Development, Concept Publishing House, N. Delhi, 1980.
4. Prashad K.N., India's Rural Problems, Concept Publishing Company, New Delhi, 1991.
5. Rao VLSP, Developmental 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.S., Science and Integrated Rural Development, Concept Publishing House, N. Delhi, 1987.

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University of Jammu

M.A/M.Sc Geography 3<sup>rd</sup> Semester

Course No. 503

Title: Geographic Thought-II

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

**UNIT-I**

**CONTRACT HOURS**

- |  |     |
|--|-----|
| 1.1. Trends in Geographic Thought since the early Fifties                        | (3) |
| 1.2. The Quantitative Revolution- causes, features, effects and criticism        | (3) |
| 1.3. Reactions to quantifications- Behavioral, Humanistic and Radical approaches | (3) |
| 1.4. New Geography as General spatial system theory                              | (3) |

**UNIT-II**

- |   |     |
|---|-----|
| 2.1. Recent trends in the study of Geomorphology                | (3) |
| 2.2. Advances in Meteorology and Climatology since World War II | (3) |
| 2.3. Progress in Population Geography                           | (3) |
| 2.4. The diversity of Urban Geography                           | (3) |

**UNIT-III**

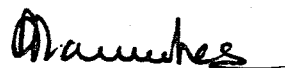
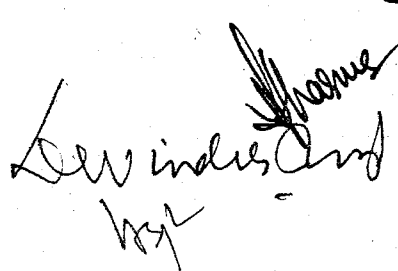
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|--|-----|
| 3.1. Development in the Geography of Rural Settlement    | (3) |
| 3.2. Progress in Agricultural Geography                  | (3) |
| 3.3. Recent trends in Transport and Industrial Geography | (3) |
| 3.4. Progress in Historical Geography                    | (3) |

**UNIT-IV**

- |  |     |
|--|-----|
| 4.1. Continuity and change in American Geographical thought    | (3) |
| 4.2. Trends in Soviet Geography                                | (3) |
| 4.3. Growth of Geographic research and teaching in India       | (3) |
| 4.4. Post Modern Geography- Definitions, Concepts and Features | (3) |

**Note for Paper setters:**

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

  
  
 Dr. Anand Kumar

### Books Recommended:

1. Adhikari S., Fundamental of Geographical Thought, Chaitanya Publishing House, Allahabad, 1992.
2. Board, C and others, Progress in Geography, Vols. I-VII, Edward Arnold(publishers), New York, 1967.
3. Cohn, Saul B., Problems and Trends in American Geography, Basic Books Inc. Publishers, New York, 1967.
4. Chorley R.J., Hagget. P, Models in Geography, Methuen & Co. Ltd, London, 1979.
5. Hussain M., Evolution of Geographical Thought, Rawat Publication, New Delhi, 2001.
6. Minshull R., The Changing Nature of Geography, Hutchinson University Library, London, 1970.
7. Peet R., Modern Geographical Thought, Blackwell Publishers, Oxford, 2001.
8. Soja W.E., Post Modern Geography, Rawat Publication, Jaipur, 1997.

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University of Jammu

M.A./M.Sc Geography 3<sup>rd</sup> Semester

Course No. 504

Title: Geological Maps, Minerals  
Rocks and Soil Analysis  
(Practical)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

**CONTRACT HOURS**

**UNIT-I- Rocks**

(12)

1.1. Definition and Types of Rocks

1.2. Study of Physical characteristics, chemical composition and  
Uses of the following rocks- Granite, Basalt, Sandstone, Limestone,  
Conglomerate, Shale, Quartzite, Slate and Gneiss

**UNIT-II- Minerals**

(12)

2.1. Definition and Physical properties of Minerals

2.2. Characteristics of Calcites, Feldspar, Gypsum, Mica, Quartz & Dolomite

**UNIT-III- Soil Analysis**

(12)

3.1. Soil Textural Analysis

3.2. Determination of pH values and Bulk Density

**UNIT-IV- Drawing and Interpretation of Geological Maps**

(12)

4.1. Drawing of Cross Sections, Determination and Interpretation of Dip  
and Strike

**Note:**

1. This course is purely a practical course to be studied in the laboratory
2. Students studying this course are required to prepare a practical record file and a Map book.
3. The Semester and Sessional Examination comprise of 50 marks each out of which 36 marks are allotted for written examination from the syllabus mentioned above, 9 marks are allotted for viva-voci and 5 marks are allotted for practical record file.
4. The question paper for the Sessional examination shall be set by the course teacher who shall be the internal examiner while the question paper for the Semester examination shall be set jointly by the external and internal examiners.

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5. The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all selecting one question from each unit.

**Suggested Readings:**

1. Brady N.C., The Nature and Properties of Soil, 1990, Collier Macmillan Publisher, New Delhi.
2. R.L. Singh & Rane P.B. Singh, Elements of Practical Geography, Kalyani Publishers, New Delhi, 2004
3. John I Platt and John Challinor, Simple Geological Structures, Thomas Murby & Co. London.
4. John Farndon, The Practical Encyclopedia of Rocks & Minerals, Lorenz Books, London.
5. William H. Matheus, Geology Made Simple, Allen and Company Ltd., London

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University of Jammu

M.A/M.Sc Geography 3<sup>rd</sup> Semester

Course No. 505

Title: Field-Work-Socio-Economic  
(Practical)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examinations to be held in December 2012, 2013 and 2014

**CONTRACT HOURS**

**UNIT-I- Graphical Representation**

12

- 1.1. Preparation of a Topographical Map of 1:50,000 or 1:25,000  
Scale to study the settlements selected in a regional setting.

**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

**UNIT-III- Field Work**

12

- 3.1. Conduct a socio-economic field work of a selected area  
supplemented by personal observations and investigations.

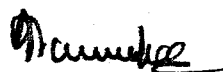
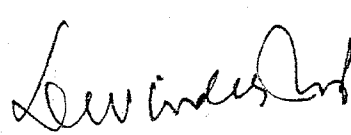

**UNIT-IV- Preparation of Report**

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 photographs, diagrams and maps.

**Note**

1. The DAC shall select one teacher as Course-coordinator 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.
4. The internal examination shall comprise of 50 marks out of which the viva voce shall comprise of 30 marks, attendance of 10 marks and general conduct of the students of 10 marks.
5. The external examination shall be conducted jointly by the course coordinator and the external examination shall comprise of 50 marks.

**Books Recommended:**

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 Pub. Pvt. Lt., 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, 1998, 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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