UNIVERSITY OF JAMMU DEPARTMENT OF GEOGRAPHY

M.A/M.SC. Geography

Programme Learning Outcomes (PLOS):

- 1) Students will be able to comprehend various Theories, Concepts and Processes of Physical Geography.
- 2) Students will be able to learn different Theories, Concepts and Processes of Human Geography.
- 3) Conventional practical skills will be developed to analyse spatial and nonspatial data.
- 4) Students will be able to comprehend the use of technology such as Remote Sensing, GIS and SPSS to process and analyse all type of spatial and non-spatial data.
- 5) Students will be able to apply these skills in real world, which will enhance their chances of employability in the market.



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

NOTIFICATION (22/Jan./Adp/59)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the revised Syllabi and Courses of Study for Master Degree Programme in Geography (M.A./M.Sc.) for semesters Ist, IInd, IIIrd and IVth under the Choice Based Credit System in the main Campus, Off-Site Campuses and Govt. Degree College for Boys, Kathua (as given in the Annexure) for the examinations to be held in the years indicated against each semester as under:-

Subject	Semester	For the examinations to be held in the year
Geography (M.A./M.Sc.)	Semester-II Semester-III Semester-IV	December 2021, 2022 and 2023 May 2022, 2023 and 2024 December 2022, 2023 and 2024 May 2023, 2024 and 2025

The Syllabi of the courses is also available on the University website: www.jammuuniversity.ac.in.

Sd/-DEAN ACADEMIC AFFAIRS

No. F. Acd/II/22/11626-11636. Dated: 12-01-2022

Copy for information and necessary action to:

- 1) Dean, Faculty of Science
- 2) HOD/Convener, Board of Studies in Geography
 - 3) Rector, Bhaderwah Campus
 - 4) The Principal, Govt. Degree College for Boys, Kathua
 - 5) All members of the Board of Studies
 - 6) C.A. to the Controller of Examinations
 - 7) Director, Computer Centre, University of Jammu
 - 8) Asst. Registrar (Conf. /Exams. PG/)
 - 9) Incharge University Website for necessary action please

Deputy Registrar (Academic)

12/1/2 12/01 H12/1/22

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Syllabus

NEW COURSE STRUCTURE FOR MASTERS DEGREE PROGRAMME IN GEOGRAPHY

The following Courses of Study are prescribed for 1st to 4th Semesters for Masters Degree Programme under CBCS in the subject Geography

Semester-1 st				
Course Code	Title	Credit	Nature of Course	% change
PSGETC101	GEOMORPHOLOGY	4	THEORY	24
PSGETC102	BIOGEOGRAPHY	4	THEORY	5
PSGETC103	REGIONAL GEOGRAPHY OF INDIA	4	THEORY	Nil
PSGETC104	POPULATION GEOGRAPHY	4	THEORY	Nil
PSGELC105	QUANTITATIVE TECHNIQUES IN GEOGRAPHY	4	LAB.	25
PSGELC106	CARTOGRAPHY	4	LAB.	Nil
Semester-2 nd	telestropakie kries militaries (j. 201			
Course Code	Title	Credit		14
PSGETC201	CLIMATOLOGY	4	THEORY	Nil
PSGETC202	ECONOMIC GEOGRAPHY	4	THEORY	18
PSGETC203	HISTORY OF GEOGRAPHICAL THOUGHTS	4	THEORY	10
PSGETC204	REGIONAL PLANNING & DEVELOPMENT	4	THEORY	55
PSGELC205	PHYSICAL SURVEY	4	FIELD WORK & LAB.	Nil
PSGELC206	FUNDAMENTALS OF REMOTE SENSING	4	LAB.	100
Semester-3 rd				
Course Code	Title	Credit		
PSGETC301	OCEANOGRAPHY	4	THEORY	12
PSGETC302	GEOGRAPHY OF SETTLEMENT	4	THEORY	100
PSGETC303	GEOGRAPHY OF RURAL DEVELOPMENT	4	THEORY	25
PSGELC304	FUNDAMENTALS OF GIS AND GPS	4	LAB.	80
PSGELC305	SOCIO-ECONOMIC SURVEY	4	FIELD WORK/ LAB.	Nil
PSGETO306	** SWAYAM	4	THEORY	100
Semester-4 th				
Course Code	Title	Credit		
PSGETC401	WORLD REGIONAL GEOGRAPHY (NORTH AMERICA, SOUTH AMERICA, AFRICA, EUROPE)	4	THEORY	13
PSGETC402	MOUNTAIN GEOGRAPHY	4	THEORY	100
PSGETE403	AGRICULTURE GEOGRAPHY	4	THEORY	20
	OR			
PSGETE404	ENVIRONMENTAL PLANNING & MANAGEMENT	4	THEORY	Nil
	OR			
PSGETE405	GENDER GEOGRAPHY	4	THEORY	10
	OR			
PSGETE406	TOURISM GEOGRAPHY	4	THEORY	Nil
PSGEDC407	DISSERTATION	4	PROJECT BASED COURSE LEADING TO DISSERTATION	Nil
PSGELC408	TOUR REPORT	2	FIELD WORK & LAB.	Nil
PSGELC409	APPLICATION OF REMOTE SENSING & GIS IN GEOGRAPHY	2	LAB.	Nil
PSGETO410	** HUMAN GEOGRAPHY/ SWAYAM	4	THEORY	Nil

All changes in syllabus was done under RUSA

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC101

Credit: 4

Duration of Examination: 3 hrs.

Title: Geomorphology

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

Contract Hours

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023. Objectives:

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

Exploring how landforms and geomorphic processes vary under different climatic regimes.

Develop understanding of fluvial, glacial, Karst and Marine geomorphic processes together with emphasis upon the applied aspect of geomorphology and hazard management.

Unit-	I	
1.1	Fundamental concepts in Geomorphology	3
1.2	Development of Geomorphic Thought: Classical and Modern, Catastrophism and	
	Uniformitarianism	3
1.3	Geosyncline and Mountain Building	3
1.4	Geomorphic Ideas of Davis and Penck	3
Unit-	-II	
2.1. (Concept of Isostasy	3
2.2. (Continental Drift Theory	3
2.3. I	Plate Tectonic Theory	3
2.4. I	Earth Movement: Types, Causes and Effects	3
Unit	-III	
3.1.	Weathering and Mass Movement	3
3.2.	Types of Stream and Drainage Patterns	3
3.3. I	Dynamics of Fluvial and Marine processes and resulting landforms	3
3.4. I	Dynamics of Glacial and Fluvial processes and resulting landforms	3
Unit	-IV	
4.1.5	Slope Evolution and replacement model	3
4.2. (Geomorphic processes and Soil formation	3
4.3. (Geomorphic hazards: Floods, Earthquake and Tsunami	3
4.4.	Application of Geomorphology in Urbanization, Hazard Management and Mineral Exploration	3

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC101

Title: Geomorphology

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

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

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

Course Code: PSGETC102 Title: Biogeography Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Objective:

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

Unit-I		Contract Hour
1.1	Nature, Scope, Significance and Development of Bio-Geography.	(3)
1.2	Biosphere: World of living things including plant and animal life.	(3)
1.3	Bio-Geographical cycles: Carbon, Oxygen and Hydrological cycle.	(3)
1.4	Concept of Ecosystem (Mountain and Aquatic Ecosystem).	(3)
Unit-II		
2.1	Evolution of life, Lamark and Darwin's Theory.	(3)
2.2	Factors influencing growth and distribution of plants in the world.	(3)
2.3	Phytogeography of the world: Tropical Rainforests and Temperate Deciduous forests.	(3)
2.4	Plant Succession: Meaning and concept of primary and secondary successions With examples.	(3)
Unit-III		
3.1	Plant and their Classification, Taxonomic Classification, Ecological Classification, Raunkiaer's and Grime's Classification.	(3)
3.2	Evolution, Dispersal and Migration of animals.	(3)
3.3	Zoogeographical realms of the world	(3)
3.4	Remote Sensing in Bio-Geography.	(3)
Unit-IV		
4.1	National Parks, Wild life Sanctuaries and Bio serves in India	(3)
4.2	National Forest Policy of India.	(3)
4.3	Human Impact on Natural Ecosystem.	(3)
4.4	Conservation measures of Biosphere Reserve.	(3)

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC102

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Credit: 4

Duration of Examination: 3 hrs.

Title: Biogeography

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20% *
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

- 1. Agarwal, D.P.Man and Environment in India Through Ages, Brooks and Brooks, 1992.
- 2. Ambasht, R.S. Olant Econogy, Students, Friends and Co., Landa: Varanasi-5, 1987.
- 3. Chapman, J.L. and Reiss, M.J. Ecology, London: Cambridge University Press, 1997.
- 4. Cox, C.D. and Moore, P.D., Biogeography: An Ecology and Evolutionary approach, 5th Edn. Blackwell, 1993.
- 5. Hagget, R.J. Fundamentals of Biogeography, Routledge, U.S.A. 1998.
- 6. Hoyt J.B. Man and Earth Prentice Hall, U.S.A. 1992.
- 7. Illies, J.Introduction to Zoogeography, McMillan, London, 1974.
- 8. Khoshoo, T.N. and Sharma, M.(eds), Indian Geosphere-biosphere, Har-Anand Publication, Delhi, 1991.
- 9. Kormody, E.J. Concepts of Ecology, Puyblished by Asoke K. Ghosh, New Delhi, India, 2000.
- 10. Lapedes, D.N.Ed. Encyclopedia of Environment Science, London: McGraw Hill, 1974.
- 11. Mathur, H.S. Essentials of Biogeography, Anju Printers, Jaipur, 1998.
- 12. Pears, II, Basic Biogeography, 2nd edn, Longman, London, 1974.
- 13. Robinson. H. Biogeography, London: the English Language Book Service, 1978.
- 14. Simmon, I.G. Biogeography, Natural and Cultural Longman, London, 1974.
- 15. Singh Savindra, Environmental Geography, Allahabad Prayag Pustak Bhawan, 1991.
- 16. Singh Savindra, Physical Geography, Published by Prayag Pustak Bhawan, Allahabad, 2012.
- 17. Smith Robert and Smith Thomas, Elements of Ecology, Published by Benjamin/Cummings Science, Publishing, San Frascisco, 1998.
- 18. Tivy, J. Biogeography: A Study of Plants in Ecosphere, 3rd Edn. Olivers and Boyd, U.S.A. 1992.
- 19. Tiwari, S.K. Geographic Biogeography, Published by Sarup and Sons, Ansari Road, New Delhi, India, 2007.

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

Course Code: PSGETC103

Credit: 4

Duration of Examination: 3 hrs.

Title: Regional Geography of India

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Objectives: To provide an understanding of.

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

	Contract Hours
Basis of Regionalization of India (Physical, Social and Economic).	(3)
Himalayan and Peninsular Drainage Systems of India.	(3)
Regional Imbalances and Problems of Functional Regions.	(3)
Soil, Vegetation, Forest Types, their Distribution and Conservation.	(3)
Resource Regions of India: Production, Reserves and Distribution of Coal,	(3)
Petroleum and Hydro-Electricity.	
Production and Distribution of Iron Ore, Bauxite and Mica.	(3)
Multipurpose Projects: the Damodar Valley, Bhakra Nangal and Sardar	(3)
Sarovar Dam.	
Distribution Growth and Density of Population with Special references to	(3)
Post Independence Period.	
Main Characteristics, Features and Problems of Indian Agriculture	(3)
Green Revolution and its Spatial Dimensions.	(3)
Industrial Regions and Special Economic Zones of India.	(3)
Location Pattern of Iron and Steel, and Textile Industry of India.	(3)
V	
Regionalization of Indo-Gangetic Plain.	(3)
	(3)
	(3)
	(3)
	Himalayan and Peninsular Drainage Systems of India. Regiónal Imbalances and Problems of Functional Regions. Soil, Vegetation, Forest Types, their Distribution and Conservation. Resource Regions of India: Production, Reserves and Distribution of Coal, Petroleum and Hydro-Electricity. Production and Distribution of Iron Ore, Bauxite and Mica. Multipurpose Projects: the Damodar Valley, Bhakra Nangal and Sardar Sarovar Dam. Distribution Growth and Density of Population with Special references to Post Independence Period. Main Characteristics, Features and Problems of Indian Agriculture Green Revolution and its Spatial Dimensions. Industrial Regions and Special Economic Zones of India.

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC103

Title: Regional Geography of India

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1 hour	20%
Minor Test-II (after 60 days)	26% to 50%	1 hour	20%
Major Test(after 90 days)	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire , syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

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

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UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC104

Credit: 4

Duration of Examination: 3 hrs.

Title: Population Geography

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023. Objective:

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

Unit-I	3	Contract Hours
1.1	Definition, Nature, Scope and Significance of Population Geography.	(3)
1.2	Sources of Population data.	(3)
1.3	Factors affecting Population distribution, Density and Growth.	(3)
1.4	Components of Population change – Mortality and fertility.	(3)
Unit-II		
2.1	Concepts of overpopulation, under population and optimum population.	(3)
2.2	India and World: Urbanization literacy patterns.	(3)
2.3	India and World: Age and Sex composition of population.	(3)
2.4	India and World: Occupational Structure.	(3)
Unit-II		
3.1	The Demographic Transition: Theory	(3)
3.2	Migrations: Types, Causes and Consequences.	(3)
3.3	Population Problems of under Developed and Advanced Countries.	(3)
3.4	Population Resource Regions of the World.	(3)
Unit-I	V	
4.1	Theories of Population – Malthus, Marx.	(3)
4.2	Definition, Types and Objectives of the Population Policies.	(3)
4.3	Population Policy of India.	(3)
4.4	Population Policy of China.	(3)

UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGETC104

Credit: 4

Duration of Examination: 3 hrs.

Title: Population Geography

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20 (c) Major Test: 60

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each (i) question carries 15 marks.
- Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

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

UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGELC105 T

Title: Quantitative Techniques in Geography

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Internal: 50 (b) External:50

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Objective:

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

UNIT-1

- 1.1 Evolution and Significance of Statistical Methods in Geography
- 1.2 Sources, methods and tabulation of data
- 1.3 Graphic representation, Frequency Polygon, Frequency Curve and Ogive

UNIT-II

- 2.1 Correlation Analysis: Scatter Diagram
- 2.2 Karl Pearson's Product Moment and Spearman's Rank Correlation
- 2.3 Test of Significance on Correlation

UNIT-III

- 3.1 Simple Linear Regression
- 3.2 Least Square Method of Fitting Regression Lines
- 3.3 Coefficient of Determination

UNIT-IV

- 4.1 Time series Analysis of Trends (Seasonal and Cyclic Variations), Trend lines by least square method.
- 4.2 Sampling, Types of Sampling, sampling units and designs
- 4.3 Lorenz Curve and Gini coefficient

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 1ST SEMESTER

Course Code: PSGELC105

Title: Quantitative Techniques in Geography

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

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

Suggested Readings:

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

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

Course Code: PSGELC106

Credit: 4

Duration of Examination: 3 hrs.

Title: Cartography

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023. Objectives:

- The main objective of this course is to make students aware about different cartographic techniques for representation of data pertaining to physical and human landscape.
- An effort is made to help them to develop manual skills of drawing maps based on data related to physical and human aspects of Geography.
- Students are also told about choice of map projections, models and benefits of computer assisted cartography and GIS in cartography.

Unit-I		Contract Hours
1.	Cartography: Nature, history and recent trends.	(12)
2.	Types of data and symbols.	
Unit-II		(12)
1.	Representation of Relief and landforms: Elementary conventional Methods and	
	Profile, Calculation of Gradient, Methods of slope analysis.	
2.	Mapping of Climatic data: Temperature and Rainfall.	
Unit-III		(12)
1.	Representation of Population data.	
2.	Representation of Agriculture data.	
Unit-IV		(12)

- 1. Computer Assisted Cartography, Relation between Conventional Cartography, Computer Assisted Cartography and GIS.
- 2. Choice of Projections. Preparation of Spatial Models in Cartography and planning.

Note for paper setter:

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

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

Course Code: PSGELC106

Credit: 4

Duration of Examination: 3 hrs.

Title: Cartography

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in December 2021, 2022 & 2023.

Suggested Readings:

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

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC201

Credit: 4

Duration of Examination: 3 hrs.

Title: Climatology

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objective:

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

Unit-I		Contract Hours
1.1	Nature and Scope of Climatology and its relationship with Meteorology.	(3)
1.2	Composition, mass and the structure of atmosphere.	(3)
1.3	Insolation, Heat balance of the earth and distribution of temperature (temporal, vertical and horizontal)	(3)
1.4	Atmosphere moisture and precipitation.	(3)
Unit-I		
2.1	Tropical, temperate and high latitude weather systems.	(3)
2.2	Concept of air masses and atmospheric disturbances.	(3)
2.3	Ocean interaction – El Nino-Southern Oscillation (ENSO) and La Nina,	(3)
	Monsoon winds, norwesters and cyclones.	
2.4	Climate of India and its controls: Western disturbances.	(3)
Unit-I		
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 and mountain climate.	(3)
Unit-l	<u>v</u>	
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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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC201

Credit: 4

Duration of Examination: 3 hrs.

Title: Climatology

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them

Suggested Readings:

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

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC202

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objective:

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.

TI! Y	Contract Hours
Unit I 1.1.Meaning, Content and Recent trends in Economic Geography 1.2.Relation of Economic Geography with Economics and Commercial Geograph 1.3.Approaches to the study of Economic Geography 1.4.Classification of Economies	y 3 3 3
Unit II 2.1. Factors of location of Economic Activities 2.2. Types of Economic activities 3.3. World major Agricultural Types: Whitlessey Classification 3.4. Von Thunen Model with special reference to Economic Rent	3 3 3 3
Unit III 3.1. Classification of Industries 3.2. Theories of Industrial location: Weber and Losch 3.3. Christaller Central Place Theory 3.4. Typology of Markets	3 3 3 3
Unit IV 4.1. Mode of Transportation Cost, Accessibility and Connectivity 4.2. Economic Development of India and Regional Disparities 4.3 Impact of Green Revolution on Indian Economy 4.4. Globalization and its impact on Indian Economy	3 3 3 3

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC202

Title: Economic Geography

Credit: 4

Max. Marks: 100

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(a) Minor Test-I: 20

Duration of Examination: 3 hrs.

(b) Minor Test-II:20 (c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

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 Unviersity 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.
- 9. Hurst, E: Transport Geography-Comments and Readings, McGraw Hill, New York, 1974.
- 10. Morgan, W.B. and Muntaon, R.J.C. Agricultural Geography, Methuen, London, 1977.
- 11. Pachuri, R.K. Energyand., 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, McGraw 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 and 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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UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC203 Title: History of Geographical Thought

Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20 (b) Minor Test-II:20 (c) Major Test: 60

Note: Detailed syllabus for examination to be held in Dec. 2022, 2023 & 2024. Objective:

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

Unit-l		Contract Hours
1.1	General Character of Geography in the Ancient Period-Gontribution	(3)
	Of Herodotus, Eratosthenes, Strabo and Ptolemy.	
1.2	Contribution of Indian Scholars.	(3)
1.3	Concept of Geography in the Medieval Period-Dark Age for Science.	(3)
1.4	Arab Geographers.	(3)
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 19th Century	(3)
	And first half of the 20 th Century.	
2.4	Darwin's impact on Geography.	(3)
Unit-III		(0)
3.1	Shifting viewpoints in Geography during the second half of the 19 th Century.	(3)
3.2	Growth and Development of Dualism between Physical and Human Geography,	(3)
	Systematic and Regional Geography.	
3.3	Determinism and Posssibilism.	(3)
3.4	Different Concepts of Geography:	(3)
	(a) Study of Relationships	
	(b) Environmental Determinism	
	(c) Human Ecology	
Unit-I\		
4.1	Geography as a Science of Distributions and as a science of areal differentiation	. (3)
4.2	Quantitative Revolution in Geography.	(3)
4.3	Models in Geography. (Significance and Types)	(3)
4.4	Modern Themes in Geographical Thought.	(3)
	(Radicalism, Postmodernism and Feminism)	

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UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC203

Title: History of Geographical Thought

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in Dec. 2022, 2023 & 2024. Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- Question No.1 will be compulsory comprised of 5 short answer type question spread over entire (ii) syllabus. Each question carries 3 marks.
- The remaining six questions will be from 50% syllabus and candidate will have to attempt any three (iii) of them.

Suggested Readings:

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

M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC204 Title: Regional Planning & Development

Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May. 2022, 2023 & 2024.

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

Unit-I		Contract Hours
1.1	Concept and Definition of Regional Planning.	(3)
1.2	Evolution and types of Regional Planning	(3)
1.3	Merits and limitations for application to regional planning.	(3)
1.4	Methods and Techniques of Regional Planning.	(3)
11-14-11		
Unit-II		1 - 6 (2)
2.1	Theories and models of Regional Planning-Growth pole, Rostow's mode Growth	l of (3)
2.2	Concept and characteristics of Region	(3)
2.3	Types of regions- Formal and Functional, Uniform and Nodal	(3)
2.4	Planning regions of India.	(3)
Unit-II		
3.1	Metropolitan planning	(3)
3.2	Problem Regions planning-Hilly regions and Drought prone regions.	(3)
3.3	Tribal area development planning.	(3)
3.4	Concept of multilevel planning and decentralized planning	(3)
Unit-I		(0)
4.1	Concept of Growth and Development	(3)
4.2	Indicators of Development (social, economic and happiness index)	(3)
4.3	Measurement of Regional Development	(3)
4.4	Regional Imbalances in India – Agricultural, Industrial and Rural- Urban	(3)

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC204 Title: Regional Planning & Development

Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20

(b) Minor Test-II:20 (c) Major Test: 60

Note: Detailed syllabus for examination to be held in May. 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

- Abler, R.et. al., Spatial Organization: The Geographer's View of the World, Prentice Hall, Englewood Cliffs, N.J., 1971.
- 2. Bhat, L.S. Regional Planning in India, Statistical Publishing society, Calcutta, 1973.
- 3. Bhat, L.S. et. Al.: Micro-Level Planning: A Case study of Karnal Area, Haryana, K.B., Publications, New Delhi, 1976.
- 4. Chorley, R.J. and Hagget, : Models in Geography, Methuen, London, 1967.
- 5. Christaller, W.: Central Places in Southern Germany, Translated by C.W. Baskin, Prentice Hall, Englewood Cliffs, New Jersey, 1966.
- 6. Friedmann, J. and Alonso, W.: Regional Development Policy-A Case Study of Venezuela, M.I.T. Press Cambridge, Mass, 1966.
- 7. Friedmann, J. and Alonso, W.: Regional Development and Planning A. Reader, M.I.T. Press, Cambridge, Mass 1967.
- 8. Glikson, Arthur: Regional Planning and Development, Netherlands Universities foundation for International Cooperation, London, 1955.
- 9. Gosal, G.S. and Krishan, G: Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
- 10. Government of India, Planning Commission: Third Five Year Plan, Chapter on Regional Imbalances in Development, New Delhi, 1961.
- 11. Indian Counci 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, Cambridge, 1970.
- 13. Kuklinski, A.R.(ed): Growth Poles and Growth Centres in Regional Planning, Mounton, The Hague, 1972.
- 14. Kundu, A and Raza, Moonis: Indian Economy-The Regional Dimension, Spectrum Publishers, New Delhi, 1982.
- 15. Losch, A: The Economics of Location, University Press, Yakle, New Haven, 1954.
- 16. Misra, R.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.: Economic Theory and Under-Development Regions, Gerald Duckworth, London, 1957.
- 20. Nangia Sudesh, Delhi Metropolitan Region Rajesh Publication, Delhi, 1976.

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGETC204

Title: Regional Planning & Development

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May. 2022, 2023 & 2024.

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 Singh India's Development Experience, McMillan 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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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGELC205

Credit: 4

Duration of Examination: 3 hrs.

Title: Physical Survey

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objectives:

• The main objective of this course is to make students familiar with the physical landscape.

• An effort is made to help them to identify different landforms while in the field and to map those landforms by using different cartographic techniques.

• Students are also told about the use of field instruments such as Dumpy Level, Theodolite/ Total Station in geographical studies.

Unit-I Tract the prominent features of the area to be surveyed. Identify salient landform (12)

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

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

Unit-IV

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

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

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGELC205

Credit: 4

Duration of Examination: 3 hrs.

Title: Physical Survey

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Suggested Readings:

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

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGELC206 Title: Fundamentals of Remote Sensing

Credit: 4 Max. Marks: 100
Duration of Examination: 3 hrs. (a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objectives of Remote Sensing

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

Unit-I		Contract Hours
1.1	Remote Sensing meaning, definition, significance and utility.	3
1.2	History and development of Remote Sensing.	3
1.3	Advantages and limitations of Remote Sensing.	3
1.4	Stages of Remote Sensing and Remote Sensing Platforms.	3
Unit-II		
2.1	EMR and its properties.	3
2.2	Electromagnetic spectrum and characteristics of wavelength regions.	3
2.3	EMR Atmospheric and surface interaction.	3
2.4	Spectral Signatures.	3
Unit-III		
3.1	Aerial Photography and its geometry.	3
3.2	Relief displacement and image formation.	3
3.3	Classification of Aerial Photographs and their utility.	3
3.4	Elements of Visual Interpretation.	3
Unit-IV		
4.1	Digital Image: Pan/Multispectral imaging and colour theory.	3
4.2	Digital Image Processing - Radiometric, Geometric and Atmospheric correction.	3
4.3	Image Enhancement.	3
4.4	Image classification – Supervised and Unsupervised.	3

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

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M.A./M.SC. GEOGRAPHY, 2nd SEMESTER

Course Code: PSGELC206 Title: Fundamentals of Remote Sensing

Credit: 4 Max. Marks: 100
Duration of Examination: 3 hrs. (a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Suggested Readings:

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

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

Course Code: PSGETC301 Title: Oceanography
Credit: 4 Max. Marks: 100
Duration of Examination: 3 hrs. (a) Minor Test-I: 20
(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023. Objective:

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 **Contract Hours** 1.1. Fundamentals of Oceanography 3 1.2. Major branches of Oceanography 3 1.3. Historical Development of Oceanography 3 1.4. Morphology of Ocean bottom Unit-II 2.1. Bottom relief of Ocean: Atlantic, Pacific and Indian 3 2.2. Physical and Chemical properties of Sea water 3 2.3. Temperature Distribution: Horizontal and Vertical 3 2.4. Salinity of Ocean water and Thermohaline Unit-III 3.1. Ocean Deposits- Types and source 3.2. Coral Reef- Origin views of Darwin, Murrey and Daly 3 3.3. Tides- Characteristics and Origin, Equilibrium and Dynamic model 3 3.4. Waves and Tsunami Unit IV 4.1. Surface Ocean Currents: Geostrophic circulation, Coriolis force and Ekman Law 3 4.2. Currents of Atlantic, Pacific and Indian Ocean 3 4.3. Applied Oceanography 4.4. Marine Pollution

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

Course Code: PSGETC301

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

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

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: PSGETC302 Title: Geography of Settlements
Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20
(b) Minor Test-II:20
(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2021, 2022 & 2023. Objective:

The objective of this course to make the students familiar with cultural landscape as a result of modification of natural landscape by human beings.

The course focuses on teaching of morphology of rural areas especially in Indian context.

The syllabus is dynamic in nature as it emphasizes the transformation from rural to urban settlements creating both dichotomy as well as continuum.

Models and hierarchies taught in the course helps in settlement planning. Unit-I

29

	Con	tract Hours
1.1 1.2 1.3 1.4	Nature, Scope and significance of Settlement Geography. Evolution of Settlement Studies in Geography. Human settlement as system. Types and patterns of settlements.	(3) (3) (3) (3)
Unit-	Ш	
2.1 2.2 2.3 2.4	Rural-Urban Continuum. Urban Morphology and landuse, models of Burgess, Harris Contemporary urban and rural issues. Urban Housing – Types, policies and programms.	(3) (3) (3) (3)
Unit-	<u>III</u>	
3.1 3.2 3.3 3.4	Morphology of Rural Settlement with special reference to Northern India. Distribution of Rural Settlement with special reference to size and spacing. Rural house forms and types with special reference to Gujjar and Bakarwals. Rural Settlement Planning.	(3) (3) (3) (3)
<u>Unit</u> -	<u>-IV</u>	
4.1 4.2 4.3	Definition of urban places, origin and growth of urban centres, basis of Urbanization Classification of urban settlements on the basis of size and functions. Urban sprawl and urban fringe – concept, features and deviation.	(3) (3) (3)
4.4	The central business districts – concept and features.	(3)

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Course Code: PSGETC302

Title: Geography of Settlements

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

- 1. Ahmad Q. "Indian Cities, Characteristics and Correlates".
- 2. Alam S.M. "Urban Growth, Trends and Patterns".
- 3. Carter H. "The study of Urban Geography" London 1973.
- 4. Murphy R.E. "The American City An Urban Geography New York 1969".
- 5. Meir G.M. "The study of Urban Geography Cambridge 1962".
- 6. Mandal R.B. "Urban Geography" A Text Book New Delhi 2000.
- 7. Chishlom, Michael: Rural Settlements and Landuse.
- 8. Singh, R.Y. "Geography of Settlement" Rawat Publication, New Delhi.
- 9. Singh, R.L. "Readings in Rural Settlement Geography".
- 10. Mitra A. "Report on House Types and Villages Settlement Patterns in India"

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

Course Code: PSGETC303

Title: Geography of Rural Development

Credit: 4

Max. Marks: 100

Credit: 4

(a) Minor Test-I: 20

Duration of Examination: 3 hrs.

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023.

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.

11.	ttational aspects.	
U	-I: Introduction to Rural Development	Contract Hours
1.	Nature, Scope and Significance of Geography of Rural Development.	(3)
1.	Socio-Economic Structure of Rural India.	(3)
1.	Approaches to Rural Development.	(3)
1	Determinants of Rural Development in India.	(3)
U	:-II: Dimensions of Rural Development	
2	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	Significance of livestock in Rural Economy.	(3)
2	Rural Industries and its importance for Rural Development.	(3)
2	Structure of human workforce, Need for development of Human resource	e (3)
	through extension education.	
U	:-III: Social and Financial Dimensions of Rural Development	
3	Tenural Structure and land reforms in India and its impact on rural development	opment. (3)
3	Role of Panchayati Raj Institution for Rural Development.	(3)
3	Co-operatives and Rural Development.	(3)
3	Rural Finances and NABARD.	(3)
L	t-IV Technologic al interventions and Rural Development	
4	Appropriate technology for the rural development.	(3)
4	Post-harvest technology.	(3)
4	Farm technology in India – HYV Seeds, Chemical fertilizers, plant	(3)
	Protection and soil conservation.	
4	Importance of Rural transformation for sustainable development	(3)

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

Course Code: PSGETC303

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

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

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

Course Code: PSGELC304 Title: Fundamentals of GIS & GPS

Credit: 4 Max. Marks: 100
Duration of Examination: 3 hrs. (a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023. Objective:

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.

<u>Unit-I</u> :	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
<u>Unit-II</u>	
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
<u>Unit-III</u>	
3.1 Topology and neighborhood analysis.	3
3.2 On screen digitization.	3
3.3 Map Layout.	3
3.4 Analysis of spatial data.	3
<u>Unit-IV</u>	
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 and PC.	3

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

Course Code: PSGELC304

Title: Fundamentals of GIS & GPS

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023.

Note for Paper Setters:

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

Suggested Readings:

- 1. Lo C.P./ & Yeung A.K.W., (2004). Concepts and Techniques of GIS, Prentice-Hall of India, New Delhi.
- 2. Heywood I, Cornelius S, Carver S. (2000). Introduction to GIS. Addison Wesley Longman, New York.
- 3. Burrough P.A. and Rachael A. Mc Donnell. Principles of Geographic Information Systems, 2nd Ed.
- 4. Masood A S., (2006). Introduction to GIS, Sharda PustakBhavan Allahabad.
- 5. Fazal.S. & Rahman A. (2007). GIS Terminology, New Age International Publishers, New Delhi.
- 6. Fazal. S. (2008). GIS Basics, New Age International Publishers, New Delhi.
- 7. Leick A. (1995) GPS Satellite Surveying, 2nd Edition, John Wiley and Sons.
- 8. French. G.T. Undestanding the GPS: An Introduction to the Global Positioning System.

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

Course Code: PSGELC305

Title: Socio-Economic Survey

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Internal: 50 (b) External:50

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023. Objective:

The objective of the course is to make the student familiar with the field realities pertaining to Socio-economic aspects. To understand their challenges by data collection and data analysis.

Contract Hours

Graphical Representation

1.1 Preparation of a Topographical Map of 1:50,000 or 125,000 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

3.1 Conduct a Socio-Economic Field Work of a selected area supplemented by Personal observations and investigation.

(12)

Unit-IV

Preparation of Report

(12)

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

Note:

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

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

Course Code: PSGELC305

Credit: 4

Duration of Examination: 3 hrs.

Title: Socio-Economic Survey

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in Dec. 2021, 2022 & 2023.

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

Suggested Readings:

- 1. Element of Photography: Payl R. Wolf.
- 2. Jensen, J.R. 2000: Remote Sensing of the Environment: An Earth Resource Perspective, Prentice Hall.
- 3. Joseph George, 2003: Fundamentals of Remote Sensing, Universities Press.
- 4. Lillesand, T.M., and Kieffer, R.M., 1987: Remote Sensing and Image Interpretation, John Wiley.
- 5. Paine, D.P., 1981: Aerial Photography and Image Interpretation for Resource Management, John Wiley.
- 6. Pandey, S.N., 1987: Principles and Applications of Photography, Wiley Eastern.
- 7. Gibson, P.J. 2000: Digital Image Processing, Routledge Publication.

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

Course Code: PSTMOOC306 Title: Massive Open Online Course

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

Course Code: PSTMOOC307 Title: Massive Open Online Course

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETC401 Title: World Regional Geography

Credit: 4 Max. Marks: 100
Duration of Examination: 3 hrs. (a) Minor Test-I: 20

(b) Minor Test-II:20 (c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objective:

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

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

Unit-I	Geography of North America	Contract Hours
1.1	Physical Setting – Land forms, climate, soils and drainage system.	(3)
1.2	Agriculture Pattern.	(3)
1.3	Industries – West Coast and East Coast.	(3)
1.4	Population structure.	(3)
Unit-II	Geography of South America	
2.1	Physical Setting – Land forms, climate, soils and drainage system.	(3)
2.2	Agriculture Pattern.	(3)
2.3	Industries.	(3)
2.4	Population structure.	(3)
Unit-II	Geography of Africa	
3.1	Physical Setting – Land forms, climate, soils and drainage system.	(3)
3.2	Agriculture Pattern.	(3)
3.3	Industries.	(3)
3.4	Population structure.	(3)
Unit-I	/ Geography of Europe	
4.1	Physical Setting – Land forms, climate, soils and drainage system.	(3)
4.2	Agriculture Pattern.	(3)
4.3	Industries.	(3)
4.4	Population structure.	(3)

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETC401

Title: World Regional Geography

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1:30 hour	20%
Minor Test-II after 60 days	26% to 50%	1:30 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

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

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<u>UNIVERSITY OF JAMMU</u> M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETC402 Title: Mountain Geography

Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

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.

<u>Unit-I</u>	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
<u>Unit-IV</u>	
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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UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETC402

Title: Mountain Geography

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

dv.	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each (i) question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- The remaining six questions will be from 50% syllabus and candidate will have to attempt any three (iii) of them.

Suggested Readings:

- 1. Ahmad Q. "Indian Cities, Characteristics and Correlates".
- 2. Alam S.M. "Urban Growth, Trends and Patterns".
- 3. Carter H. "The Study of Urban Geography" London 1973.
- 4. Murphy R.E. "The American City An Urban Geography New York 1969".
- 5. Meir G.M. "The Study of Urban Geography Cambridge 1962.
- 6. Mandal R.B. "Urban Geography" A Text Book New Delhi 2000.

M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE403

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. 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	Source of Agricultural Data.	(3)
1.4	Origin and Development of Agricultural Geography.	(3)
Unit-I		
2.1	Factors Affecting the Agricultural Land Use.	(3)
2.2	Agricultural Concept and their Measurement:	(3)
	a. Cropping Pattern b. Crop Concentration	
	c. Cropping Intensity d. Crop Diversification	
2.3	Crop Combination, Agricultural Efficiency and Productivity	(3)
2.4	Green Revolution – Its Impact and Consequences.	(3)
Unit-I	<u>II</u>	
3.1	Von Thunen's Model of Agricultural Location and its Modification.	(3)
3.2	Land Use Classification: Nine Fold.	(3)
3.3	Regional Pattern of Agricultural Productivity in India.	(3)
3.4	Agricultural Development in Different Financial Years.	(3)
Unit-I	V	
4.1	Basis of Classification of Agriculture in the World.	(3)
4.2	Agricultural Regionalization of India.	(3)
4.3	Characteristics of India Agricultural.	(3)
4.4	Drought and Food Security and Food Aid Programme.	(3)

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE403

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

Credit: 4

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- The remaining six questions will be from 50% syllabus and candidate will have to attempt any three (iii) of them.

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.

UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE404 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

Contract Hours

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objective:

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 1.1 Concept and components of environment (3)Environment: Life support system (3)1.2 (3)1.3 Resource field and pollution sink Ecosystem: Concept, nature, components, functions and types 1.4 (3)Unit-II Human Environment interaction: Environment and technology (3)2.1 Local, regional and global environmental problems; interconnections of 2.2 (3)these Environmental problems Environmental degradation and pollution 2.3 (3) 2.4 Resource evaluation and degradation (3)Unit-III 3.1 Planning and management: Concepts, functions, approaches and Processes (3)(3)Environmental Planning; Theory and process 3.2 (3) 3.3 Environmental Management: Steps and process International commitments and national legal framework of Environmental Planning 3.4 and management (3) Unit-IV (3) Approaches to Environmental planning and management 4.1 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

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE404 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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

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.Nijkanp (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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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE405

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024
Objective:

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.

<u>Unit-I</u>	perspectaves	Contract Hours
1.1 1.2 1.3 1.4	Nature, Definition and Scope of Gender Geography. Place of Gender in Geography. Changing Social Attitude. Elements of Gender Geography.	(3) (3) (3)
Unit-II	ternents of defider deography.	(3)
2.1 2.2 2.3 2.4	Concept of Feminism. Radical and Social Feminism. Phenomenologic and Humanistic Approaches in Gender Geography. Marxism and Gender.	(3) (3) (3) (3)
Unit-III		
3.1 3.2 3.3 3.4	Women Employment Gender Health Care Facilities. Gender Literacy. Women Empowerment.	(3) (3) (3) (3)
Unit-IV		
4.1 4.2 4.3 4.4	Global Gender Variations in Developed and Developing Countries. Global Gender Legislation. National Policies and Women's Rights in India. Gender Case Studies in J&K.	(3) (3) (3) (3)

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE405

Title: Gender Geography

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20 (b) Minor Test-II:20

(c) Major Test: 60

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024 Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

(iv)

Suggested Readings:

- 1. Kobayashi Audreij "Women, Work & Place" 1994.
- 2. Kobayashi Audreij, "Gender Place and Culture" 1994.
- 3. Legg Stephen "Gender Place and Culture" 2003.
- 4. Massey Doreen "Space Place and Gener" 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. M.Satish & S. Corbridge "Gendered Geographers: Space and Place" New Delhi, Odford Universal Press, 2011.

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE406

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. Objective: 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 - Natural, Socio, Cultural, Economic and (3)Historical. 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)The Hotel Industry. 3.4 (3) Unit-IV 4.1 Classification and Types of Indian Tourism. (3)4.2 Tourism Destination in Kashmir, Garhwal, Goa and Rajasthan. (3) 4.3 Impact of Tourism - Physical, Economic and Social. (3)

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Environmental Laws and Tourism.

M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETE406

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

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- The remaining six questions will be from 50% syllabus and candidate will have to attempt any three (iii) of them.

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.

M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGEDC407

Credit: 4

Duration of Examination: 3 hrs.

Title: Disssertation

Max. Marks: 100

(a) Internal: 50

(b) External:50

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Objective:

The objective of this course is to develop research oriented approach with critical thinking and analysis by following the various qualitative and quantitative methods for in-depth understanding of the problem identified.

The Course on Dissertation shall comprise 100 marks (External 50 marks and Internal 50 marks).

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

Note:

- There shall be no theory examination either in external or internal.
- Candidate shall be examined externally by an examiner from a panel submitted by HOD for approval from the Competent Authority.

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

UNIVERSITY OF JAMMU M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGELC408

Credit: 2

Title: Tour Report

Max. Marks: 100

(a) Internal: 25

(b) External:25

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

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:

Delhi-Dehradoon-Rishikesh-Kedarnath-Badrinath-Govindghat Ranikhet-Nanital-Kathgodam-Jammu.

Kathodam-Nanital-Almora-Kosambi-Pithoragarh-Pantnagar Jammu

Gorakhpur-Raxau-Birganj-Kathmandu-Jammu.

Siliguri-New Jalpaiguri-Darjeeling-Gangtok-Gauhati-Shillong, Gherrapunji-Jammu.

Lucknow-Banaras-Gaya-Allahabad-Jammu.

Delhi-Bhopal-Nagpur-Aurangabad-Ahmadabad-Baroda-Jamnagar-Dwarika-Bapi-Jammu.

Jaipur-Ajmer-Jodhpur-Udaipur-Jaisalmer-Kota-Ehittorgarh-Mt. Abu-Jammu.

Delhi-Secunderabad-Channai-Kanya Kumari-Kodaikanal-Bangalore-Trivandrum-Cochin-Coimbatore-Ooty-Mysore-Goa-Mumbai-Swai Madhopur-Jaipur-Ajmer-Jammu.

- 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

Note for Paper Setters:

1	Internal	Break up of marks	
(i)	Subject Matter	05	
(ii)	Methodology	05	
(iii)	Attendance	05	
(iv)	Presentation	05	
(v)	Viva Voce	05	
2	External		
(i)	Practical Record/ Report	15	
(ii)	Viva Voce	10	
	Total:	50	

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGELC409 Title: Applications of Remote Sensing and

GIS in Geography Max. Marks: 50

(a) Internal: 25 (b) External:25

Credit: 2

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024. 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

Note for Paper Setters:

1	Internal	Break up of marks	
(i)	Subject Matter	05	
(ii)	Methodology	05	
(iii)	Attendance	05	
(iv)	Presentation	05	
(v)	Viva Voce	05	
2	External		
(i)	Practical Record/ Report	15	
(ii)	Viva Voce	10	
	Total:	50	

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGELC409 Title: Applications of Remote Sensing and

GIS in Geography

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Max. Marks: 50 (a) Internal: 25

(b) External:25

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Course Code: PSGELC409 Title: Applications of Remote Sensing and

GIS in Geography

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Suggested Readings:

Credit: 2

- 1. Barret, EC & Corlis, E.F. The Built Environment in Remote of Environment Second Edition PP. 293-306,
- 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, Lowa, 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.

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETO410 Title: Human Geography/SWAYAM

Credit: 4 Max. Marks: 100

Duration of Examination: 3 hrs. (a) Minor Test-I: 20

(b) Minor Test-II:20

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(c) Major Test: 60

(Optional Course for students outside the Department of Geography)

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Objective:

Human Geography as an open course attempts to make the students of different departments acquainted with anthropocentric approach in geography focusing on various aspects of environment demography dencity. Races and various other dimensions related to human beings.

Unit-I

- 1.1 Meaning and Definition of Human Geography
- 1.2 Subject Matter and Field of Human Geography
- 1.3 Makers and Promoters of Human Geography
- 1.4 Determinism versus Possiblism in Human Geography

Unit-II

- 2.1 Elements of Environment
- 2.2 Man as a Geographical Agent
- 2.3 Human Population-Growth, Distribution and Characteristics
- 2.4 The Demographic Transition and Human Geography

Unit-III

- 3.1 Ethnicity and Races Concepts and Classification
- 3.2 Tribes and Religions Classification and Distributions
- 3.3 Regions and Human Geography Classification and Relationships
- 3.4 House Types and Building Materials used in different Regions

Unit-IV

- 4.1 Rural Settlements Definition, Types and Significance
- 4.2 Urban Geography Definition, Urbanisation and Significance
- 4.3 Social Geography of India
- 4.4 Trans-Humane and Migration

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M.A./M.SC. GEOGRAPHY, 4th SEMESTER

Course Code: PSGETO410

Title: Human Geography/SWAYAM

Credit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

(a) Minor Test-I: 20

(b) Minor Test-II:20

(c) Major Test: 60

(Optional Course for students outside the Department of Geography)

Note: Detailed syllabus for examination to be held in May 2022, 2023 & 2024.

Note for Paper Setters

	Syllabus to be covered in exam.	Time allowed for exam.	% weightage (marks)
Minor Test-I after 30 days	Upto 25%	1 hour	20%
Minor Test-II after 60 days	26% to 50%	1 hour	20%
Major Test	50% to 100%	3 hours	60%

- (i) The major test will have 7 questions and the candidate has to attempt at least 4 questions. Each question carries 15 marks.
- (ii) Question No.1 will be compulsory comprised of 5 short answer type question spread over entire syllabus. Each question carries 3 marks.
- (iii) The remaining six questions will be from 50% syllabus and candidate will have to attempt any three of them.

Suggested Readings:

- Terry G.jordan & Lester Rowntree. "The Human Mosaic: A Thematic Introduction to Cultural Geography".
- 2. Majid Hussain. "Human Geography".
- 3. David M. Smith. "Human Geography: A welfare approach".
- 4. Gayoti Hazra. "Dimensions of Human Geography".
- 5. Balbir Singh Negi. "Human Geography".
- 6. P. Vidal de Lablache. "Principles of Human Geography".
- 7. Dr. L.R. Singh. "Fundamentals of Human Geography".
- 8. R.B. Mandal. "Urban Geography".
- 9. Aijazuddin Ahmad. "Social Geography of India".
- 10. R.Y. Singh. "Geography of Settlements".
- 11. R.B.Mandal. "System of Rural Settlements in Developing Countries".
- 12. R.B. Mandal. "Introduction to Rural Settlement".

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