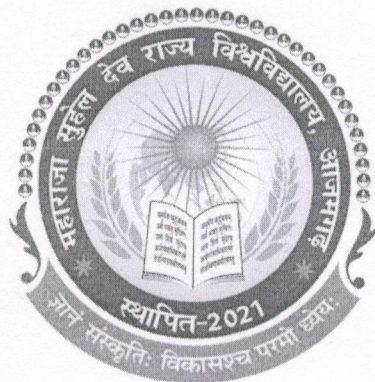


MAHARAJA SUHEL DEV STATE UNIVERSITY

AZAMGARH



Syllabus

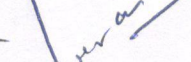
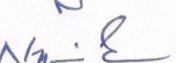
Semester Courses of **M.A/M.Sc. (Geography)** Based on National Education Policy 2020 Programmed on the basis of Choice Based Credit System (C.B.C.S.)

REVISED – 25-7-2022

Approved by:

Board of Studies- Geography

**Maharaja Suhel Dev State University,
Azamgarh-276 128, Uttar Pradesh (INDIA)**

1. Convenor - 
2. BOS Member - 

MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH

**Semester Courses of M.A/M.Sc. (Geography) Based on National Education Policy 2020
Programmed on the basis of Choice Based Credit System (C.B.S.E.)**

M.A./MSc.(Previous) GEOGRAPHY SYLLABUS

Those who offered as one of the optional subject at B.A./BSc. May be admitted to M.A. GEOGRAPHY course. No one is allowed as private candidate.

M.A. (Previous) is divided into two semesters. In the first semester students will opt for four major papers (core subject) from his own faculty which is compulsory. One minor subject closely related to his/her subject from other faculty either in first semester or in second semester as minor subject is of one paper. One major research project that will be related to main subjects of inter or intra faculty and interdisciplinary/ multidisciplinary. In research project there will be a supervisor teacher and a co-supervisor teacher from industry/ company/ technical institute/ research institute may be allowed. In the second semester, there is four papers- two papers are compulsory and third and fourth paper has to be selected from the four optional papers. There will be one major project also in second semester. Each theory paper will be of three hours duration (Maximum Marks 75). There will be 25% internal evaluation in each theory papers divided as-

Attendance/interaction	05 Marks
Sessional Test	15 Marks
Assignment	05 Marks

Format of the Question Paper: There will be Section-A of one Compulsory Question consisting of 10 parts of Very Short answer type questions. Each part will have to be answered in about 50 words. Section-B will consist of five Short Answer type questions each with internal choice. Each question will have to be answered in about 200 words. Section-C will consist of five Long Answer type questions. Any two questions from Section-C will have to be attempted. Each question will have to be answered in about 500 words.

MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH

M.A./M.Sc. Geography
Semester-wise Distribution of courses

Year	Semester	Category/Type of The Course	Course Code	Paper Title	Theory/ Practical	Credits
1	I	Major/ Compulsory	A110701T	Geomorphology	Theory	5
		Major/ Compulsory	A110702T	Fundamentals of Economic Geography	Theory	5
		Major/ Compulsory	A110703T	Regional Geography of India	Theory	5
		Major/ Compulsory	A110704T	Cartography	Theory	4
		Major/ Compulsory	A110705P	Practical Geography (Cartography)	Practical	1
		Compulsory	A110706R	Major Research Project	Research Project	4
	II	Major Compulsory	A110801T	Geographical Thought	Theory	5
		Major Compulsory	A110802T	Cartography	Theory	4
			A110803P	Practical Geography (Cartography)	Practical	1
		OPTIONAL (Choose any TWO)	A110804T	Environmental Geography	Theory	5
			A110805T	Population Geography	Theory	5
			A110806T	Regional Development and Planning	Theory	5
			A110807T	Geography of Rural Development	Theory	5
		Compulsory	A110808R	Major Research Project	Research Project	5
	III	Major Compulsory	A110901T	Climatology and Hydrology	Theory	5
		Major Compulsory	A110902T	Cartography	Theory	4
			A110903P	Practical Geography (Cartography)	Practical	1
		OPTIONAL (Choose any TWO)	A110904T	Urban Geography	Theory	5
			A110905T	Political Geography	Theory	5

Handwritten signature

2	IV	Compulsory	A110906T	Transport Geography	Theory	5
			A110907T	Marketing Geography	Theory	5
			A110908R	Major Research Project	Research Project	4
		Compulsory	A111001P	Practical Geography (Cartography)	Practical	5
		OPTIONAL (Choose any Three)	A111002T	Agricultural Geography	Theory	5
			A111003T	Geography of Rural Settlement	Theory	5
			A111004T	Geography of Tourism	Theory	5
			A111005T	Social Geography	Theory	5
			A111006T	Disaster Management	Theory	5
			A111007T	Remote Sensing	Theoretical	5
		Compulsory	A111008R	Major Research Project	Research Project	4

*hars/As
Nari*

MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH

M.A./MSc.(Previous) GEOGRAPHY SYLLABUS

Programme Course/ Class M.A/ Msc.	Year- M.A. (Previous)	Semester-1
	Subject- Geography	
Course Code	A110701T	
Course Title-	Paper-1 - Geomorphology	
Type of Course	Theory	
Credit	5	
Course Assessment	Sessional-25 End semester -75	
Course objectives and outcome	Students will be exposed to the nature of lithosphere, landforms system, earth movements and geomorphic processes and the application of geomorphic knowledge at various economic, human and cultural levels. Students will critically evaluate the interactive spaces of physical, human and environmental components of earth. The course enables the students to analyze the fundamental concept of Geomorphology and lithosphere and established the relations with geophysical changes of geomorphic environment. Students will learn the geomorphic concepts for economic manifestations in everyday life.	

Unit	Syllabus	No of lectures
I	Meaning and scope of Geomorphology. Fundamental concepts in geomorphology. Modern geomorphologies, Hutton, Davis, Penck. Strahler and King. Recent trends in geomorphology, Geomorphology in India.	15
II	Earth Movements- Isostasy-doctrine of Isostasy, Views of Airy and Pratt Homes. Continental Drift Theory-Concept of Wegner Plate Tectonic Theory- concept and related views.	15
III	Role of Geological structure, Climatic and Biotic factors in the formation of landforms. Theories of landform development	15
IV	Concepts of Erosion. Concept of Davis and Penck. Interruption in the cycle and Polycyclic relief. Dynamics of landscape development in Humid, Arid, Karst and Glacial Regions	15
V	Morphometric Techniques, Evolution of slopes, Applied Geomorphology. Drainage Network Analysis, Stream Order, Sinuosity Index and Drainage Density. Micro Landform study of the following regions -Chottanagpur, Son Basin and Uttaranchal Region	15

Suggested Readings:

- 1- Chorley, R.J. : Spatial Analysis in Geomorphology, Methuen, London, 1972.
- 2- Cooke, R.U. and Doornkamp, C. : Geomorphology in Environmental Management : A Introduction, Clarendon Press, Oxford, 1974.
- 3- Cotton, Charles: Geomorphology: An Introduction to Landforms.
- 4- Haroon, M. Pathak, G : Geomorphology (Hindi), Wisdom Publication, Varanasi 2022.
- 5- Stoddart, D.R.: (ed) Process and Form in Geomorphology, Routledge New York, 1996.
- 6- Skinner, B. J. and Porter, S.C.: The Dynamic Earth, JohnWiley, New York, 1995.
- 7- Anhert, Frank: Introduction to Geomorphology, Routledge, New York, 1998.
- 8- Sharma, H.S.; Perspective in Geomorphology, Concept, New Delhi, 1980.
- 9- Thornbury, W. D.: Principles of Geomorphology, Jhon Wiley New York, 1960.
- 10- Singh, S: Geomorphology (Hindi, English) Pravalika Prakashan,Paryag2015.
- 11- Wooldridge, S. W. & Morgan, R.S.: An Outline of Geomorphology.
- 12- Bloom, A., L. : Geomorphology- A systematic Analysis of late Cenozoic landforms
- 13- Thornbury ,W. : Principals of Geomorphology, New Age International Publisher (2018)
- 14- Hagget ,RJ : Fundamentals of Geomorphology, Taylor and Francis New Delhi (2016)
- 15- Rawat, M S : Environmental Geomorphology and Watershed Management, Concept Publishing Company, New Delhi (2021)

hans
m.i.l

Programme/ Course/Class MA/MSc.	Year- M.A (Previous)	SEMESTER-I
	SUBJECT - Geography	
Course Code	A110702T	
Course Title-	Paper- II - Fundamentals of Economic Geography	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional-60 End semester-75	
Course Objectives and outcome	To educate the students about nature and types of economic activities with relation to location ,space, place and geographical resources .On completion of the course students will be able to develop the ideas of geographical aspects of economy, graph the types of economic activities, and also conceptualize ,demarcate and analyze the geographical determinates of manufacturing activities and energy resources. Understand the effect of globalization and post globalization on developing countries.	

Unit	Syllabus	No of lectures
I	Meaning, scope,and evolution of economic geography. . Approaches to the study of Economic Geography. Recent Trends. .Fundamental concepts .Relation of economic geography with economics and other branches of social sciences .	15
II:	Concept of Resources , Resources classification. Principle of resource Adequacy and Principle of resource conservation and planning. Human resource , water resources, mineral and power resources.	15
III	Factors of location of economic activities, Spatial organization of economies, Primary, Secondary, Tertiary, Quaternary and Quinary activities. Physical, Socio-economic and cultural factors. Classification of Agricultural system - Whittlessy's classification VonThunen's model of agriculture location and its modifications Theory of Optimum Physical conditions and limits	15
IV	Classification of industries –Resource based and footloose .industries- Iron and steel ,textiles and engineering. Theories of industrial locations-Weber's ,Hoover, Losch, Plander and Isarad. Market Competition Theory. Industrial Regions of the world problems and prospects of WTO and Globalisation.	15
V	Development of transport and modes of Transportation- Rail, Road and Water. Transport. Cost accessibility and connectivity comparative cost advantage theory of Transport. Transport system of the world. .Economic regions of the world and their salient features. Economic Development. Theoretical aspect of economic development. Indicators of socio- economic development Rostow's model of stages of development. Inequality and patterns of development in India.	15

Suggested Readings:

- 1- Alexander, J.W. (1988): Economic Geography. Printice-Hall, New Delhi,,
- 2- Coe,N. 2007): Economic Geography : A Contemporary Introduction, Blackwell. Publishers, Inc, Massachussts.
- 3- Chatterjee S.P.: Economic Geography of Asia, Allied Book, Agency, Calcutta, 1984
- 4- Chorley R.J and Hagget, P.(ed) Network Analysis in Geography, Arnold,1969
- 5- Jones C.F and Darkenwald G.G. :Economic Geography, McMillan Co .N.Y., 1975.
- 6- Millar E: Geography of Manufacturing, Prentice Hall ,N.Y 1962.
- 7- Raza M and Agrawal, Y: Transport Geography of India, Concepts, New Delhi ,1986.
- 8- Smith,D.M: Industrial Location An Economic Geographical Analysis ,John Wiley N.Y.1971.
- 9- Thomas R.S. : The Geography of Economic Activities, McGraw Hill N.Y., 1962
- 10- Haroon ,M; Fundamental s of Economic Geography (Hind) Vasundhra Prakashan Gorakhpur, (2021)

Handwritten signature/initials

Programme/ Course/Class MA/MSc.	Year. M.A (Previous)	Semester 1 st
	Subject - Geography	
Course Code	A110703T	
Course Title	Paper-III- Regional Geography of India	
Types/ Course	Theory	
Credit	5	
Course Assessment	Sessional 25 End Semester - 75	
Course objectives and Out Come	<p>The objective of this course is to develop the understanding about physical features of Indian geography. To familiarize the students with physiography climate and to conceptualize the regional approach and to examine regional differentiation in the study of Indian geography. Students will be exposed to historical economic, cultural social and physical characters of India. Students will get an introduction to the regions of the India in terms of both their uniqueness and similarities.</p> <p>The students will develop the art of regionalization techniques while focusing about diversity Indian Regions students will be able to visualize and recognize about regional identities and socio- culture dimension of regionalization to address the issues and concerns needed for regional planning.</p>	
Unit	Syllabus	No to Lecture
I	Structure and structural regions of India, Physiographic region of India. Himalyan orogeny, Evolution of extra peninsular India . Its Geological structure , Relief and Evidence Regarding its present day evolution. Relief and division of Indo-Gangetic plain, Indian Monsoon ,Mechanism and recent theories of its origin .Climatic Regions. Geographical factors behind federalism and national integration .	15
II	Agriculture land use , Agriculture Regionalization , Agro-climatic region , Agriculture Regions , Green , Blue, and White Revolution and their impact on agriculture, Recent Trends in Indian Agriculture. Impact of WTO, Liberalization and Globalization on Indian agriculture. Industrials lane and Industrial Regions .	15
III	Population of India, growth development and problems ,Population Regions Urbanization and Metropolitan Regions and Regional Development ,Planning Regions Environmental Issues in Regional Development and Planning .	15
IV	Basis of Regionlisation, Geopolitical , Climatic , Agro-climatic , Physiographic, Historical, Demographic socio- economic division of Regionalisation, Basis and efforts of Regionalisation of India , Meso,Macro Micro, Regions of India.	15
V	Detailed geographical study of following regions - Middle Ganga plain , kashmir Region, Assam Valley Thar desert region, Chhattisgarh region, Malabar Coastal region.	15

Suggested Readings:

- 1- Centre for Science and Environment state of india's Environment, New Delhi (1988)
- 2- Tiwari , R.C, (2020) : Geography of India (Hindi) English) Paravalina Prakashan Paryagraj.
- 3- Deshpande, C D. : India : A Regional Interpretation, ICSSR and Northern book Centre 1992.

Handwritten signature

- 4- Dreze, Jean and Amartyasen (ed): India : Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996
- 5- Kundu A, Raza M: Indian Economy : The Regional Dimension, Spectrum Publishers ,New Delhi, 1982.
- 6- Singh, R. L. (ed) : India : A Regional Geography, National Geographical Society, India, Varanasi,1971.
- 7- Spate, O.H.K. and Learnmoth, A.T.A: India and Pakistan, Methuen, London,1967.
- 8- Tirtha R. and Gopal Krishna : Emerging India, Reprinted by Rawat Publications, Jaipur 1996.
- 9- Tiwari,RC : Geography of India,(Hindi,English) ,Pravalika Prakashan, Paryagraj,(2020).
- 10- Hussain,Majid : Geography of India (Hindi,English) , McGraw Hill ,New Delhi (2019).
- 11- Mahesh,C,Puri Vk,: Regional Planning in India, Allied Publishers Pvt Ltd, New Delhi, (2012)
- 12- Alka Gautam: Advanced Geography of India, (Hindi, English) Sharda Pustak Bhavan,Allahabad. (2015)

Programme Course/ Class M.A/ Msc.	Year- M.A (Previous)	SEMESTER-I
	Subject - Geography	
Course Code	A110704T	
Course Title	Paper-I V- - Cartography	
Types of Course	Theory	
Credit	04	
Course Assessment	100 MM (25+75)	
Course Objective and out come	To enhance the potential of students in advance statistical techniques and its application in Geographical studies and research. Larger objective in to develop the cartographic skills of students to depict and respect the geographic information on the map. The course will create the ability of understanding and reading of maps and aerial photographs.	
	Note. Log tables and calculator will be allowed in the examination.	

Unit	Paper code: A110704T - Cartographic work (Theory)	Mark
I	Statistical Methods in Geography: Measures of Dispersion, Standard Deviation, Frequency distribution curve and its Characteristics, Coefficient of correlation and regression, sampling methods Random stratified, systematic and cluster	25+75
II	Geological Map- Drawing and interpretation of Geological Cross Sections and Maps- Inclined, folded, faulted and unconformable structure, Igneous, intrusion.	
III	Block Diagram one and two points perspective.	

Suggested Reading	
1.	Monkhouse, F.J and Wilkinson, F.J. (1985): Maps and Diagrams Methuen, London
2.	Raize, E (1962) : General Cartography , John Wiley and Sons, New York. 5 th Edition.
3.	Haroon, M (2021) : Prayogatmak Bhugol, (Hindi), Wisdom Publication, Varanasi.
4.	Sharma , J.P. (2001) : Prayogik Bhugol , Rastogi Publication, Meerut 3 rd edition.
5.	Singh, R.L. and Singh, Rana P.B. (1993) : Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, New Delhi ,
6.	Singh L.R (2006):Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
7.	Sharma, J.P. (2008): Prayogatmak Bhugol ki Rooprekha(Hindi), Rastogi Publication Merrut.
8.	Ashis,Sarkar (2013): Quantitative Geography Techniques and Presentation, Orient Blackswan, New Delhi

9. Mahmood, Aslam, (2020): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.
10. Alvi, Zamir, (2002): Statistical Geography: Methods and Applications, Rawat Publication
11. Ashis, Sarkar: (2015): Practical Geography A Systematic Approach, Orient Blackswan Private Limited-New Delhi.
12. Khullar, D.R. (2020): Remote Sensing and Quantative Methods, Kalyani Publishers, New Delhi

P rogramme Course/ Class M.A/ Msc.	Year- M.A (Previous)	SEMESTER-I
	Subject - Geography	
Course Code	A110705P	
Course Title	Paper-I V- - Cartography	
Types of Course	PRACTICAL	
Credit	01	
Course Assessment	100 MM (25+75)	
Course Objective and out come	<p>To enhance the potential of students in advance statistical techniques and its application in Geographical studies and research. Larger objective in to develop the cartographic skills of students to depict and respect the geographic information on the map. The course will create the ability of understanding and reading of maps and aerial photographs.</p> <p>Note. Log tables and calculator will be allowed in the examination.</p>	

Unit	A110705P: Practical Geography (Cartography)	Mark
I	Air Photo interpretation	25+75
II	Study Tour	
III	Sessional Assignment, Record and viva voce.	

Suggested Reading

13. Monkhouse, F.J and Wilkinson, F.J. (1985): Maps and Diagrams Methuen, London
14. Raize, E (1962) : General Cartography , John Wiley and Sons, New York. 5th Edition.
15. Haroon, M (2021) : Prayogatmak Bhugol, (Hindi), Wisdom Publication, Varanasi.
16. Sharma , J.P. (2001) : Prayogik Bhugol , Rastogi Publication, Meerut 3rd edition.
17. Singh, R.L. and Singh, Rana P.B. (1993) : Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, New Delhi ,.
18. Singh L.R (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
19. Sharma, J.P. (2008): Prayogatmak Bhugol ki Rooprekha (Hindi), Rastogi Publication Merrut.
20. Ashis, Sarkar (2013): Quantitative Geography Techniques and Presentation, Orient Blackswan, New Delhi
21. Mahmood, Aslam, (2020): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.
22. Alvi, Zamir, (2002): Statistical Geography: Methods and Applications, Rawat Publication
23. Ashis, Sarkar: (2015): Practical Geography A Systematic Approach, Orient Blackswan Private Limited-New Delhi.
24. Khullar, D.R. (2020): Remote Sensing and Quantative Methods, Kalyani Publishers, New Delhi

Programme Course/ Class MA/MSc.	YEAR- M.A (Previous)	SEMESTER-II
	Subject - GEOGRAPHY	
Course Code	A110801T	
Course Title	Paper1- Geographical Thought (Compulsory)	
Types of Course	Theory	
Credit	05	
Course Assessment	Sessional – 25 End semester-75	
Course objective and outcome	<p>The course is intended to develop the philosophical and historical aptitude among students in the context of evolution and development of geographical ideas, theme, approaches and knowledge. Students will be acquainted with the philosophers of different school of thought that contributed in the development of geography as a branch of knowledge.</p> <p>After the end of course, students will be able to visualize the basic themes, ideas, dichotomies and approaches of geographic knowledge with relation to its historical perspective, varying schools and era of their emergence. Students will be able to critically evaluate the nature of geography as spatial science with changing space and time.</p>	
Unit	Syllabus	No of Lecture
I	The field of Geography and its place in the classification of sciences, changing definition of geography. Selected concept of geography – Areal Differentiation, Earth Surface, Landscape, Region, Physical and Cultural Region and regionalization, Regional Typology, Spatial organization.	15
II	German and French School- Contribution of Humboldt, Ritter, Ratzel, Richthofen, Hettner, Albert Penck, Blach Brunche, Demangeon, Demartonee.	15
III	Anglo American School. Contribution of Mackinder, Herbertson, Dudley Stamp, Davis, Semple, Huntington, Hartshorne, Sauer, Development of Geography in India.	15
IV	Dualism in Geography- systematic vs regional, physical geography vs human Geography, myth and reality above dualism, trends and approaches in modern geography, environmental determinism, possibilism, neodeterminism and probabilism.	15
V	Modern themes in geographical thoughts, Laws, theories and models in geography. Quantitative Revolution, Response to positivism, behaviorism and Post- Modernism, radical, humanistic Geography, Scientific explanation, system, analogue, models and paradigm, changing paradigm. Future of geography	15

Suggested Reading

1. Able Ronald Adams John S. Gould Peter: Spatiat Organisation The Geographer's View of the World.: Prentice Hall N.J , 1971.
2. Amedo, Douglas: An Introduction to Scientific Reasoning in Geography, John Willey, USA, 1971.
3. Dikshit, R.D: (ed): The Art and Science of Geography: Integrated Reading, Prentice Hall of India, New Delhi, 1994.
4. Hartshorne, R: Perspective on the Nature of Geography, Rand McNally & Co, 1959.
5. Husain, M : Evolution of Geographical Thought (Hindi English), Rawat Pub. Jaipur, 1984.
6. James, P.E : All Possible World : A History of Geographical Ideas, Sachin Publication, Jaipur, 1980.
7. Johnston, R. J : Philosophy and Human Geography, Edward Arnold, London , 1988.
8. Johnston, R.J: The Future of Geography, Methuen, London , 1988.
9. Minshull, R : The Changing Nature of Geography, Hutchinson University Library, London, 1970.
10. Haroon, M. : History of Geographical Thought (Hindi) Wisdom Publication, Varanasi.
11. Kaushik, S.D, Rawat, D: Geographical Thought and Methodology. Rastogi Publication , (2021).

Programme/ Course/ Class M.A / MSc.	Year. M.A (Previous)	Semester II
	Subject - Geography	
Course Code	A110802T	
Course Title	Paper – II- Cartography (Compulsory)	
Types/ Course	Theory	
Credit	04 + 01	
Course Assessment	100 MM (25+75)	
Course Objective and out come	<p>To enhance the potential of students in advance statistical techniques and its application in geographical studies and research. The course will create the ability of students to adopt various methods of relief slope analysis and climatic analysis as well as thematic mapping.</p> <p>The expected learning outcome of this course would be , appropriate use of statistical techniques in varying avenues of geographical studies. In addition to the ability of understanding and reading maps, student will develop cartographic skill and will be able to create maps on their own .</p> <p>Note. Log tables and calculator will be allowed in the examination</p>	
Unit	Paper Code: A110802T - Cartographic work (Theory)	Mark
I	Test of Significance - Chi- square test , student "t" test variance estimate test probability	25+75
II	Simple linear Regression and Multiple regression, regression line .Method of constructing properties of least square estimates, coefficient of determination	
III	<u>Methods of slope analysis :-</u> Wentworth, Smith , Henry Raisz and Robinson Drainage structure .	

Suggested Reading

1. Monkhouse, F.J and Wilkinson, F.J. (1985): Maps and Diagrams Methuen, London
2. Raize, E (1962) : General Cartography , John Wiley and Sons, New York. 5th Edition.
3. Haroon, M (2021) : Prayogatmak Bhugol, (Hindi), Wisdom Publication, Varanasi.
4. Sharma, J.P. (2001) : Prayogik Bhugol , Rastogi Publication, Meerut 3rd Edition.

5. Singh, R.L. and Singh, Rana P.B. (1993) : Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, New Delhi.
6. Singh L.R (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
7. Sharma, J.P. (2008): Prayogatmak Bhugol ki Rooprekha (Hindi), Rastogi Publication Meerut.
8. Ashis, Sarkar (2013): Quantitative Geography Techniques and Presentation, Orient Blackswan, New Delhi.
9. Mahmood, Aslam, (2020): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.

P rogramme Course/ Class M.A/ Msc.	Year- M.A (Previous)	SEMESTER-II
	Subject - Geography	
Course Code	A110803P	
Course Title	Paper-I V- - Cartography	
Types of Course	PRACTICAL	
Credit	01	
Course Assessment	100 MM (25+75)	
Course Objective and out come	To enhance the potential of students in advance statistical techniques and its application in Geographical studies and research. Larger objective in to develop the cartographic skills of students to depict and respect the geographic information on the map. The course will create the ability of understanding and reading of maps and aerial photographs. Note. Log tables and calculator will be allowed in the examination	
A110803P: Practical Geography (Cartography)		
1.	Surveying and plotting by Dumpy level and Abney level Maximum	25+ 75
2.	Village Report	
3.	Sessional, Assignment, Record and viva voce.	

Suggested Reading

10. Monkhouse, F.J and Wilkinson, F.J. (1985): Maps and Diagrams Methuen, London
11. Raize, E (1962) : General Cartography, John Wiley and Sons, New York. 5th Edition.
12. Haroon, M (2021) : Prayogatmak Bhugol, (Hindi), Wisdom Publication, Varanasi.
13. Sharma, J.P. (2001) : Prayogik Bhugol, Rastogi Publication, Meerut 3rd Edition.
14. Singh, R.L. and Singh, Rana P.B. (1993) : Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, New Delhi.
15. Singh L.R (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
16. Sharma, J.P. (2008): Prayogatmak Bhugol ki Rooprekha (Hindi), Rastogi Publication Meerut.
17. Ashis, Sarkar (2013): Quantitative Geography Techniques and Presentation, Orient Blackswan, New Delhi.
18. Mahmood, Aslam, (2020): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.

Programme/ Course/Class MA/MSc.	Year-M.A.(Previous)	Semester-II
	Subject-Geography	
Course Code-	A110804T	
Course Title-	Paper-III- Environmental Geography (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional-25 End semester-75	
Course objective and outcomes	<p>To create the environmental aptitude among students. Students will develop their deep understanding of environmental issues. The main objective is to familiarize the students with concept, issues, approaches about physical environment. Student will be acquainted with contemporary environmental problems and challenges.</p> <p>Students will able to know the various aspects of ecological degradation and evolve and generate enthusiasm for protection, planning, preservation and sustainable management of environment</p>	

Unit	Syllabus	No of Lectures
I	Geography as study of Environmental. Meaning Scope, Concepts are Approaches of Environmental Geography, Environment and Society. Relations of - Environmental Geography with other sciences Components and Types of Environment, Approaches to the study of main environment relationships.	15
II	Concept of Ecology and Ecosystem, Ecosystem, meaning types and components of Ecosystem: Abiotic and biotic components of environment and Ecosystem. Ecological Production, trophic level, Food Chain and Food Web. Ecological Pyramid and Flow of Energy, Bio-Gas-Chemical cycles – Nitrogen Cycle, Oxygen, Carban cycle, Hydrological cycle, Calcification and characteristic of Biomes	15
III	Environmental degradation and pollution: concepts and Types of Environmental degradation, causes of Environmental degradation. Sources and types of pollution, Air Pollution, water, noise and soil. Advance effects of air pollution o weather and climate, Global climate, Global warming, Ozone depletion, green home effects water, surface and water pollution its adverse on human health.	15
IV	Environmental perception, Human Health, ecological effect, urbanisation, insulation and environment degradation, Environmental monitoring and Management-Environmental planning and Management. Environmental Management methods and approaches. Ecological and economic and social basic of Environmental management. Ecological properties, survey, evaluation, preservation and conservation of resources. Environmental impeachment with special reference to India. Environmental planning at National, Regional and Local level.	15
V	Environmental Policy, Environmental protection Act with special reference to India. Environmental Impact Assessment (EIA). Environmental Management Planning (EMP) Fluctuation of sea rise and climate change, Evidence of Climate changes	15

Suggested Reading

- 1- Strahler, A.N. and Strahler A.H. : Geography and Man's Environment, John Wiley & Sons, New York., 1976
- 2- Detwyler, T.R. : Man's Impact of the Environment, McGraw Hill. N.Y.
- 3- Clapham, W.B.,: Natural Ecosystem, MacMillan, London, 1973.
- 4- Dassman, R.F.: Environmental Conservation, John Wiley, N.Y., 1976.
- 5- Singh, S.; Environmental Geography (English & Hindi), Prayag Pustakalaya, Alld., 1998.
- 6- Tivy: Biogeography, Longman, London, 1982.
- 7- Chanalanc R.C.(1998), Environmental Awareness, Kalyani Publishers.
- 8- Gaur, S and Chandrasekhar. T (2006) Global Environmental cruses, Book enclave, Jaipur.
- 9- Park, C.C. (1980). : Ecology and Environmental management Butterworths London
- 10- Chris Barrow (2005),: Environmental Management and Development Rout ledge.
- 11- Castree Noel Demerith, D, liverman, D(2009)- A Companion into Environmental Geography, wiley-Blackwell.

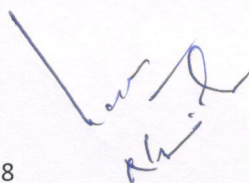
Programme/ Course /Class MA/MSc.	YEAR- M.A (Previous)	SEMESTER-II
	Subject - GEOGRAPHY	
Course Code	A110805T	
Course Title	PAPER-IV- Population Geography (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional --25 End Term -- 75	
Course objectives and out come	To enhance The skill of Students on theoretical aspects of Population geography, Population, Composition, dynamics and population resource relations. At the end of this course, it is expected that students will enable to describe and evaluate spatial dimension of population dynamics.	

Unit	Syllabus	No of lectures
I	Population Geography-Definition, Concepts, Scope, methods, approaches and development of Population Geography, Relation with Demography, Sources and types of population data, Census, Sample Survey and vital registration System, reliability of data and their problem of mapping	15
II	Population dynamics – Measurement of fertility and Mortality, Age and sex structure, occupational structure, Literacy and Education, Measurement of Birth and death Rate.	15
III	World Population Growth, causes and consequences. Population distribution factors affecting population distribution, World patterns of population. Demographic Transition theory, Concepts of under population ,over population, optimum population and population explosion in India.	15
IV	Population Composition, Rural and Urban Population. Urbanization in India, Trends of Urbanisation in India. Gender issues. Types, causes, determinants, Theories and consequences of migration, Demographic Transition theory.	15
V	Human Resource Development and Human Development Index, Population Problems with special reference to India , food , housing, Unemployment and poverty, Population Policies in developing and developed countries, Success and failure of family planning and family welfare Programme. Population Policy (NPP), 2000.	15

Handwritten signature

Suggested Reading

1. Bougue D.J : Principles of Demography. John Wiley, N.Y. 1969
2. Chandana, R.C. : Geography of Population : Concept, Determinants and Patterns, Publishers, 2000.
3. Clarke, John. I: Population Geography , Pergaman Press, Oxford, 1973.
4. Crook, Nigel : Principles of Population and Development, Pergaman Press, N.Y. 1997.
5. Daugherty Helen Gin, Kenneth C.W. Kammeyer : An Introduction to Population, The Guilford Press, N.Y, London, 1998
6. Garnier, J.B. , : Geography of Population, Longman. London. 1970.
7. Mamoria, C.B. : India's Population Problem, Kitab Mahal, New Delhi, 1981.
8. Premi M.K. : India's population: Heading Toword a Billion, B.R. Publishing Corporation, 1991.
9. Trewartha, G T : A Geography of Population: World Pattern, New York (1969)
10. Woods, R : Population Analysis in Geography, Longman, London 1979.
11. Zelinsky, Wilber : A Prologue to Population Geography Prentice Hall 1966.
12. Maurya ,S.D. : Population Geography,(2017), Pravalika Prakashan, Allahabad.
13. Izhar Hassan,M: Population Geography A Systematic Exposition,(2020),Taylor & Francis, New Delhi.
14. JhinganM. L.Bhatt B.K. and Desai: Demography ,Virid Publication New Delhi (2015)
15. Khan,L.H.: Socio-Economic and Structural Analysis of Internal Migration, New Delhi(2010)
16. Siddiqui,F.A: Regional Analysis of Population Structure, New Delhi,(1984)



Programme Course/ Class M.A./M.Sc	Year-M.A.(Previous)	Semester-II
	Subject-Geography	
Course Code-	A110806T	
Course Title-	Paper-V- Regional Development and Planning (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional-25 End semester-75	
Course objective and outcomes	<p>The course is designed to develop the knowledge about regional attributes calcification and approaches and theories involved in regional planning and development.</p> <p>After the end of the course, students wise able to demarcate the differences among formal, functional and planning regions. They are expected to efficiently formulate, appreciate and apply the specify theques and plan for regional growth and development.</p>	

Unit	Syllabus	No of Lectures
I	Concept and Nature of Regional Planning Philosophy and Purpose of Planning. Development of planning thought. Theories of Regional Development. <u>Economic base theory</u> , <u>International Trade</u> multiplies, <u>Aggregate Growth Model</u> . The concept of growth centers. Growth centre strategy of Regional Planning Rural Economy, Core-periphery relationship.	15
II	Concept of Regions. Attributes of Regions Types of Regions, Functional and Formal Region Uniform and Nodal Regions, Single purpose and composite Regions in the context of Planning. Regional Hierarchy. Approaches for the delimitation of different types of Regions and their utility in planning resource base approach- <u>Growth centre Approach</u> .	15
III	<u>Basic Needs, Approach and Habitat transformation</u> Delineation of Planning Regions, Planning regions of India, Planning processes- sectoral, Temporal and spatial Dimensions. Planning for a regions development and multiregional planning in a National context Indicators of Development and measuring levels of development with special reference to India.	15
IV	Regional Planning for rural development with special reference to UP. Infrastructure Elements irrigation, power, transportation and communication and marketing. Industrialisation in Regional Planning. Population resource equilibrium and spatial organisation in Regional Planning. Regional Planning as development strategy since independence concept of Multilevel planning, Decetralized planning. People participation with planning process.	15
V	Environmental issues in Regional Planning, Planning for sustainable development, Regional imbalance Disparities in India-causes and consequences. Regional Development and social Movement in India. Global Economic block. World Regional Disparities'.	15

Suggested Reading

- 1- Bhatt, L.S. : Regional Planning in India, Statistical Publishing Society, Calcutta, 1973.
- 2- Freidman, J. and Alonso W: Regional Development Policy: A Case study of Venezuela MIT Press, Cambridge Mass-1966
- 3- Gosal G.S. and Krishnan G: Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications Kurukshetra, 1984.
- 4- Kuklinshki A.R.(ed) : Growth Poles and Growth Centres in Regional Planning, Moutonj, The Hague, 972
- 5- Kundu A and Raza M: Indian Economy: The Regional dimension Spectrum Publishers, New Delhi, 1982
- 6- Losch, A: The Economics of Location, University Press, New Haven, 1954.
- 7- Mishra, R.P. Regional Planning: Concepts, Techniques and Policies, University of Mysore, 1969.
- 8- Mishra R.P. and Others (ed): Regional Development-Planning in India: Strategy, Institute of Development Studies, Mysore, 1974.
- 9- Mitra, A: Levels of Regional development. Census of India vol 1. Part I (A) (i) and (ii) New Delhi, 1965.
- 10- Tarlok Singh: India's Development Experience, MacMillan, New Delhi, 1999.
- 11- Mishra, R.P. et. Al: Multi Level Planning, Heritage Publishers, Delhi, 1980.
- 12- Chandlan, R.C. (2000) Regional Planning Kalyani Publications, New Delhi.
- 13- Chand, M, Puri V.K(1983) Regional Planning in India Allied Publisher, New Delhi.
- 14- Friedman, J and Aloose, w. (1967), : Regional Development and Planning "A Reader, NIT Press, Cambridge.

Programme Course/ Class M.A./M.Sc	Year-M.A.(Previous)	Semester-II
	Subject-Geography	
Course Code-	A110807T	
Course Title-	Paper-VI- Geography of Rural Development (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional-25 End semester-75	
Course objective and outcomes	<p>The Focus of the course is to develop an idea about the approaches to understanding the rural development. The objective is to familiarize the students about general concepts, nature and issues of rural development geography. To account the students about nature of rural settlement infrastructure, morphology, infrastructure and challenges for reveal development.</p> <p>Student will be able to efficiently formulate the issues and challenges of reveal settlement and critically evaluate the suitability of different plans adopted for rural development is varying spatial context.</p>	

Unit	Syllabus-	No of Lectures
I	Rural Development concept and Geographical perspective theoretical frame work of ruler development. Rural markets and markets centers, growth points and growth centers. Theories of central places, rural urban relationship and their integration. Rural settlements and Rural land use and its problems.	15
II	Dimensions of rural economy: Physical and human resources their spatial patterns and interrelationship socio-economic dimensions infrastructural facilities socio cultural organization, migration and their and there and their causes characteristics population agriculture and its characteristics.	15
III	Social issues of rural area poverty housing and shelter deprivation and inequality empowerment women healthcare social tension and underdevelopment environmental issues access to environmental infrastructure water supply and sanitation drainage occupational health education and ruler development	15
IV	Balanced development strategies of India. Rural and sustainable development, rural Governance Panchayat Raj System, role and relationship of Panchayat Raj institution (village Panchayat, Panchayat Samiti and Zila Parishad and administrative structure (village, block and district) failure and success of various schemes sponsored by government for rural development government agencies and NGOS. Rural Development Experience in Uttar Pradesh.	15
V	Integrated rural Development strategies critical review of rural development strategies in India Integrated Rural Development Programmes (IRDP) community Development Programmes Mahatma Gandhi Rural Employment guarantee act National rural health mission (NRHM)	15

Suggested Reading

- 1- Kuklinski A.R (ed): Growth poles and Growth Centers in Regional Planning, Mouton, The Hague, 1972.
- 2- Kundu A. And Raza M; Indian Economy: The Regional dimension, spectrum publishers, New Delhi, 1982.
- 3- Richardson H.W. regional economics , Wiedenfeld and Nicholson, London 1969.
- 4- Clout, H.D. rural geography, Pergman, Oxford 1977.
- 5- Ram chandran, H: village clusters and rural Development Concept Publication, New Delhi, 1985.
- 6- Rao E.N. : strategy for integrated rural development , B.R. Publication Cor Delhi, 1986.
- 7- Srinivas M.N: village India, Asia publication house Bombay, 1968.
- 8- Wanmali, S: Service centers in Rural India B.R. Rublication Cor. Delhi, 1983,
- 9- Singh, Kartar- Rural Development: Princefles, Policies and Management.
- 10- Maheshwari R.S:- Rural Development in India
- 11- Cheslism, M : Rural settlement and Land use

Handwritten signature/initials

MAHARAJA SUHEL DEV STATE UNIVERSITY, AZAMGARH

M.A./MSc Geography (Final) Geography Syllabus

M.A./Msc. (Final) is divided into two semesters (III& IV).In the third semester there is two compulsory papers and two optional papers will have to be selected from four optional papers. There will be one major project both in third and fourth semesters. In fourth semester there is one compulsory General Practical (Cartography) which will be conducted by the department concerned and students will choose three optional papers from six given optional papers

Programme Course/ Class M.A./M.Sc.	Year-M.A.(Final)	Semester-III
	Subject- Geography	
Course Code-	A110901T	
Course Title-	Paper 1- Climatology and Hydrology (compulsory)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	
Course objective and outcomes	The course is intended to develop the students knowledge about the Physical principles and process governing the weather climate and atmospheres circulation at global and regional scale. To upgrade the skill of students to observe weather and climates elements with respect to physical and social changes influencing the earth system. Students will develop skill in appreciation of heretical knowledge of hydrology. They will learn field as well as laboratory techniques for estimating different hydrological attributes. Students will able to conceptualize, analyze and apply the concepts of weather and climate and correlate with daily weather events. Students will develop the causal relations of climate with other social, economic and cultural activates. Students will be also able to utilize the techniques for modeling the climate covering both heretical and technical aspects	

Unit	Syllabus	No. of Lectures
I	Definition, Scope and evolution of climatology and its relationship, with meteorology. Composition and mass and structure of atmosphere. Involution process of heating and cooling, Heat balance and heat budget of the earth and atmosphere, Distribution of temperatures, Temporal, vertical and horizontal Green house effects.	15
II	Air Pressure and air belts, atmospheric motion. Forces controlling motion air, vertical motion and vorticity, jet stream permanent, seasonal and local winds their origin types and distribution.	15

III	Concepts, Classification, Characteristics of air masses and fronts. Oceanic atmospheric interactions-El-Nino, Southern Oscillation (ENSO) and La-Nina. Climate Classification of Koppen's and Thornthwaite, Climate change: evidence and possible causes, global warming. Applied climatology and weather forecasting.	15
IV	Definition and scope of hydrology. Hydrological cycle and its sub cycle. Elements of Hydrological cycle, precipitation intensity and durations, infiltration and surface run off and urban flooding Man's interference on hydrological cycle, human impact on hydrological system of drainage basis. Factors affecting evaporation transpiration, potential and actual evapo-transpiration- their measurement and computation	15
V	Sub-surface water, soil moisture, ground water-occurrence, storage, recharge and discharge, water table fluctuation and safe yield, The global water budget. Principles and determination of water balance and its application in crop production water pollution Applied hydrology.	15

Suggested Reading

1. Barry R.G. and Chorley R.J. : Atmosphere, Weather and Climate Routledge, London and New Year, 1998
2. Critchfield, J.H.: General Climatology, Prentice Hall, New Delhi, 1993
3. Lal, D.S: Climatology, Chaitanya Publications, Allahabad, 1986
4. Lydolph, P.E.: The Climate of the Earth, Rowman. 1985.
5. Robinson P.J. and Henderson S: Contemporary Climatology Henlow, 1999
6. Haroon, Mohammad: Climatology and Hydrology, Hindi Vasundhara, Prakashn, Gorakpur, 2017
7. Addison H: Land, Water and Flood, Chapman and Hall, London, 1961.
8. Chorley R.J.: Water, Earth and Man, Methuen, London, 1967.
9. Jones J.A.A.: Global Hydrology: Process, Resources and Environmental Management, Longman, London, 1997
10. Todd., D.K. : Ground Water Hydrology, John Wiley, New York, 1959.
11. Savindra Singh, : Climatology, Parvalika Prakashan, Paryagaraj, 2021
12. Kieth, D and Mayas, L.W., Ground Water Hydrology, 3rd Edition, Wiley, Chichester
13. Triwartha, G.T.: An Introduction to Climate, MC Graw Hill, 1968
14. Sharma, R.K : A Text of Hydrology and Water Resource.
15. Mather J.R. : Climatology: Fundaments and Application, Mac Graw Hill, NewYork, 1974

Programme Course/ Class M.A./M.Sc	Year-M.A.(Final)	Semester-III
	Subject-Geography	
Course Code-	A110902T	
Course Title-	Paper-II- Cartography	
Types of Course	Theory	
Credit	4	
Course Assessment	MM 100 (25+75)	
Course Objective and out come	<p>The expected learning outcome of this course would be , appropriate use of statistical techniques in varying avenues of geographical studies. In addition to the ability of understanding and reading maps, student will develop cartographic skill and will be able to create maps on their own .</p> <p>Note. Log tables and calculator will be allowed in the examination</p>	
Unit	A110901T Cartographic work (theory)	No. of Lectures
I	Map projections: Classification, properties, choice, merits and demerits of projections. Drawing of the following map projections by using mathematical methods : Gall's, Mercator's, Equatorial cases of Gnomonic, Stereographic and Orthographic projections, Mollweide's and interrupted Mollweide's projection, Sinusoidal and Interrupted sinusoidal projection. Lambert's conical equal area Projection and International Projection.	15
II	Cartographic Representation of statistical Data: What surplus graph, Rainfall dispersion diagram, Distribution maps-Isopleth, choropleth and multiple Dots, landuse maps, Locational quotient, Co-efficient of localization and localization curve.	15
III	Plotting of field book data and solving problems: Problems related to surveying-solving three point and two point problems, correction of bearing, removing closing error. plotting of readings obtained by prismatic compass and Dumpy level.	15

Suggested Readings
1- Monkhouse, F.J and Wilkison, F.J. (1985): Maps And Digrams. Methuen, London 2- Raisz, E. (1962): Gerena certography. John Wiley and Sons, New York. 5th edition. 3- Haroon, M. (2021): Prayyogatmak Bhugol, Wisdom Publication, Varansari. 4- Sharma, J.P. (2001): Prayogik Bhugol, Wisdom Publication, Meerut 3rd. Edition. 5- Singh, R.L and Singh, Rana P.B (1993): Elements of Pracatical Geography. (hindi And English editions). Kalyani Publishers, New Delhi., 6- Singh, L.R (2006): Fundamentals, of Practical Geography, Shrda Pustak Bhawan, Allahabad. 7- Sharma, JP. (2008): Prayogatmak Bhugol Ki Roekha, Rastogi Publications-Meerut.

Handwritten signature

Programme Course/ Class M.A./M.Sc	Year-M.A.(Final)	Semester-III
	Subject-Geography	
Course Code-	A110903P	
Course Title-	Paper-II- Practical Geography (Cartography)	
Types of Course	Practical	
Credit	4	
Course Assessment	MM 100 (25+75)	
Course Objective and out come	To enhance the potential of students in advance statistical techniques and its application in Geographical studies and research. Larger objective in to develop the cartographic skills of students to depict and respect the geographic information on the map. The course will create the ability of understanding and reading of maps and aerial photographs.	
	Note. Log tables and calculator will be allowed in the examination	
A110903P : Practical Geography (Cartography)		
1- Project report on any optional paper 2- Measuring horizontal and vertical angles by Theodolite, Measuring height by Sextant 3- Sessional, assignment, Practical record , viva and assessment		25+ 75

Suggested Readings

- 8- Monkhouse, F.J and Wilkison, F.J. (1985): Maps And Digrams. Methuen, London
- 9- Raisz, E. (1962): Gerena certography. John Wiley and Sons, New York. 5th edition.
- 10- Haroon, M. (2021): Prayyogatmak Bhugol, Wisdom Publication, Varansari.
- 11- Sharma, J.P. (2001): Prayogik Bhugol, Wisdom Publication, Meerut 3rd. Edition.
- 12- Singh, R.L and Singh, Rana P.B (1993): Elements of Pracatical Geography. (hindi And English editions). Kalyani Publishers, New Delhi,.
- 13- Singh, L.R (2006): Fundamentals, of Practical Geography, Shrda Pustak Bhawan, Allahabad.
- 14- Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooekha, Rastogi Publications-Meerut.

Handwritten signature

Programme Course/ Class M.A./M.Sc.	Year-M.A.(Previous)	Semester-III
	Subject-Geography	
Course Code-	A110904T	
Course Title-	Paper-III- Urban Geography (optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional-25 End semester-75	
Course objective and outcomes	The course aims to understand describe and demonstrate urban dynamic and its surrounding, with historical experiences. It will provide. The course help to evaluate the structure knowledge on spatial analysis of functions urban areas morphology, pattern and dimensions of changes of urban places and cities. The students are expected to under stand letter the spatial pattern of urban society and know how to apply the concept and theory they learn form classes to interpret and tackle and real world urban issues from the perspective of geography.	

Unit	Syllabus	No of Lectures
I	Meaning Nature, Scope and evolution of Urban Geography, Attributes of Urban Places during ancient, medieval and modern period origin and Growth of urban settlements. Bases and process of urbanization and urban development. Classification of urban settlements. Urban profile, demographic structure and characteristics of urban population.	19
II	Models of Urban growth, Burgess's Concentric Zone Theory, Hoyt's Sectoral Model, Harris and Ullman, Multiple Nuclei Model, Urban growth, Urban, Hierarchy, and rank-size rule, Theories of Urban growth, Christaller, Losch, Peroux, Law of Primate city	18
III	Urban economic base: occupational structure basic and non-basic Functions, Functional classification , urban morphology and land use Structure, built up Non- built up CBD ,commercial, residential, Industrial and institutional areas , City –region relations and modern Urban landscape. City Surrounding Relations- The urban economic base terminology, concepts, geographic qualities of the basic, non basic concept, The city Sphere of influence (Umland), Rural-Urban fringe Conceptual explanation.	19
IV	City as central place , urban fringe, urban problems, urban poverty, urban Renewal , urban sprawl, slums, transpiration, urban pollution, solid waste ,urban crime and environmental health. Urban policy and planning, city planning, green Belts spatial patterns and trends of urbanization in India , patterns of urban growth in India . Globalization and urban learning special study of KAVAL Towns of UP.	19

Suggested Readings

- 1- Berry B.J.L. And Horton F.F. :Geographical perspectives on urban systems , prentice Hall ,Englewood clifts , N.J. 1970
- 2- Dickinson R.E. city and Region , Roultedge , London , 1964
- 3- Gibbs, J.P. Urban Research Methods ,Van Nostrand Co Princeton ,N.J.1961.
- 4- Hall p:urban and regional planning Roulade London 1992
5. Kundu, A :urban Development and urban research in India , Khanna publications, 1992
6. Rao ,V.L. S.P. Urbanization in India : spatial Dimensions , Concepts publican Co. New Delhi.
7. Smailes A.E. : The Geography of Towns , Hutchinson , London 1953.
8. Maurya'S. D.: Urban Geography (Hindi, English) Sharda Publications Allahabad.

Programme Course/ Class M.A./M.Sc.	Year-M.A.(Final)	Semester-III
	Subject- - Geography	
Course Code-	A110905T	
Course Title-	Paper- IV- Political Geography (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	
Course objective and outcomes	The course will explain the historical evolution of discipline of Political Geography. It will help to understand about theoretical models related to geopolitics and geo-strategy. It will provide the knowledge about political attributes that evolved with territorial structure and geographic influence like state, nation, boundary, elections, and frontier of world in general and India in particular. Students will be able to critically examine the geographical bases of political studies. They will be able to evaluate and correlate different theories with contemporary geopolitical and geo-strategic issues.	

Unit	Syllabus	Minimum No. of Lectures
I	Introduction to Political Geography Definition, Nature Scope and Development of Political Geography. Contemporary Geographical Tradition in Political Geography. Recent Trends and approaches of Political Geography. Major schools of thought in Political Geography. Political Geography vs geopolitics. The methodology of political geography. A critical analyses of the functional unified theory, genetic functional and system approaches.	19
II	Concept of Nation and State, Geographic elements of state, state, nation, state formation, Nation building, frontier and boundaries colonialism, Neo-imperils in political, economic and cultural, Mechanism, Geo-political significance of core-periphery theory, neocolonialism, feudalism and other forms of governance.	19
III	Global Strategic Model: Mackinder's Geographical pivot, heartland model Spykeman's Rim Land Model. Critical Assessment of heartland and rim land model and their relevance to world's Geopolitics. The changing patterns of super power and super nationalism.	18
IV	Political Geography of India contemporary origin of India's Federalism. India, basis of federalism in India-Geopolitical and language changing political map of India, Inter-state issues and emerges of new states. India a Global strategic view India's border with neighboring countries especially with Pakistan, China and Bangladesh. Geo-political significance of India Ocean. Nature of	19

	federal capitals with special reference to New Delhi. Elements of Electoral geography, Concept , Definition and approaches of study of Election Geography. Development of Election Geography.	
--	---	--

Suggested Reading

- 1 Alexander, L.M.: World Political Patterns, Ran McNally, Chicago, 1963.
- 2 De Blij H.J. and Glassner, Martin: Systematic Political Geography, John Wiley, N.Y. 1968
- 3 Dikshit, R.D.: Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi, 1996
- 4 Dikshit, R.D. : Political Geography: A Century of Progress, Sage New Delhi, 1999
- 5 Sukhwai. B.L: Modern Political Geography of India, Sterling Publisher, New Delhi, 1968
- 6 Taylor, P: Political Geography, Longman, London, 1985.
- 7 Fisher, Charles: Essays in Political Geography, Methuen, London, 1968
- 8 Pounds, N.J.G. : Political Geography, McGraw Hill, N.Y., 1972.
- 9 John R. Short: An Introduction to Political Geography, Routledge London, 1982.
- 10 Moddie A.E.: Geography Behind Politics, Hutchinson, London, 2000
- 11 Prescott, J.R.V. : The Geography of Frontiers and Boundaries, Aldine, Chicago.
- 12 Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
- 13 Panikkar, K.M. : Geographical Factors in Indian History , 2 Vols, Asia Publishing House, Bombay, 1959
- 14 Adhikari S, Political Geography, Rawat-Publication, Jaipur, 2004
- 15 Pant, Harsh: Politics and Geopolitics Decoding India's Neighborhood Challenges, Rupa Publication, New Delhi, 2021
- 16 Dwivedi, R.H, Misra, H.N: Fundamentals of Political Geography, Surjeet Publication, New Delhi, 2019
17. Mohanthy, G.S.: Political Geography(2021)
18. Dasgupta, Rupak: Global Politics, (2019) Pearson, India.
19. Sen, Jyotirmoy: Political Geography, Kalyani-Publication, Ludhiana, 2019
20. Tiwari, R.C. : Political Geography(Hindi), Pravalika-Publication, Paryagaraj, 2020

MAHARAJA SUHEL DEV STATE UNIVERSITY AZAMGARH

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-III
	Subject- Geography	
Course Code-	A110906T	
Course Title-	Paper- V-Transport Geography (optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	
Course objective and outcomes		

Unit	SYLLABUS	Minimum No. of Lectures
I	Nature, Scope, Significance and development of transport geography, evolution of transpiration-preindustrial era, 19th and 20th centuries. Factors associated with the development of transport system physical, economic, social, cultural and institution. Evolution of transport network. Characteristics and relative significance of different modes of transport: Railway, Roads, Airways and waterways.	19
II	Accessibility and flow models, network structure, graph theoretic measures, measurement of accessibility, models of network change, Linear programming and gravity models. Theories related to freight rate structure, bases of spatial interaction: complementarily, intervening opportunity, transferability, gravity, potential models of spatial interaction..	19
III	Transport system in India: Railways, Roads, airways and waterways, patterns of movement, simple models of interaction, movement geometry. Transport policy and planning, transport development in developing countries, urban transportation-growth and problems.	19
IV	Transport and regional planning, transport and environmental degradation vehicular pollution and congestion. Alternatives to transport system in Megacities of India. National Highway development and planning in India.	18

Suggested Reading

- 1 Chorley, R.J. and Haggett P; models in Geography, Methuen & Co London, 1967.
- 2 Hurst, M.E(ed) : Transportation Geography, McGraw Hill,1974.
- 3 Haggett P. and Chorley R.J; Networks Analysis, Edward Arnold, London,1968.
- 4 Hay A : Transport Economy,Macmillan,London,1973.
- 5 Hoyle,B.S.(ed):Transport and development, Macmillan, London 1973.
- 6 Raza M. and Agarwal Y.P; Transport Geography of India, concepts New Delhi,1985.
- 7 Robinson H. and Bamford G.G : Geography of Transport Macdonald & Evans,London,1978.
- 8 White, H.P. And senior, M.I. : Transport Geography,longman,London,1953.

MAHARAJA SUHEL DEV STATE UNIVERSITY AZAMGARH

Programme Course/ Class M.A./M.Sc	Year-M.A.(Final)	Semester-III
	Subject-Geography	
Course Code-	A110907T	
Course Title-	Paper- VI- Marketing Geography(Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	MM 100
Course objective and outcomes	The basic objectives of this course are to provide the students with a broad introduction to marketing concepts, help you understand the factors that influence marketing decisions, and focus attention on the vital role of marketing organization in today's national and international Economy. On completion of this course, the student will be able to demonstrate strong conceptual knowledge in the functional area of marketing, trade, trade blocks and also can evaluate and compare different marketing theories and models with national and international experiences.	

Unit	Syllabus	Minimum No. of Lectures
I	Definition, Scope, Nature, Growth signification and Development of marketing Geography. Approaches of study: Community, spatial, social economic and behavioral. Components of Market Morphology. Development of Marketing Geography in India. Development of Market place and Exchange system.	19
II	Element of Market place-seller consumers good and services, business establishment. Classification of structure, hierarchy of market centers and market area, The Theoretical Framework for study of Market centers: Central Place Theory. Chris taller Locsh Models of Market Location, B.J.Berry,'s Model, Reilly's Models of interaction and Trade area delimitation.	19
III	Skinner's classification of markets, Markets periodicity and market cycles their spatio-temporal synchronization. Rural-Urban Markets. Market structure in different-regional setting. Marketing and social structure. Role of Markets Town in Rural and Urban in development.	18
IV	Spatial Dimension of consumer behavior, culture and consumer behavior: Trade classification and structure –Local , regional ,	19

	national and international–Historical Development of trade. Factors of development of Trade. Agriculture marketing in India. Globalization relating to WTO. Free Market economy.	
--	--	--

Suggested Reading

- 9 Acharya,S.S & Agarwal ,N.L (1987) Agricultural Marketing in India, Oxford & IHB publication Co, New Delhi.
- 10 Berry,B.J,L.(1967) Geography of Market Centres and Retail Distribution. prentice Hall, Englewood cliffs, N.J
- 11 Davis,R.L. (1976) Marketing Geography, .Methuen, London,
- 12 Dixit,R.S.(1984)) Marketing Centres and Their Spatial Development in the Umland of Kanpur, Allahabad.
- 13 Garnier,B,j and Delobez .A (1977) Geography of Marketing , Longman, London.
- 14 Khan.N (1991) Agricultural Development and Marketing , H.K. Publisher, New Delhi
- 15 Losch,A (1954) Economics of Location. Yale University press, New Heaven.
- 16 N.C.A.E.R (1983) Market Town and Spatial development in India, NCAER,N.D
- 17 Saxena,H.M (1984) Geography of Marketing. Concepts and Methods, New Delhi.
- 18 Saxena,P. Marketing and Sustainable Development. Rawat Publications, New Delhi.
- 19 Singh,G.N(1987) Agricultural Marketing in India. Hugh publication, Allahabad.
- 20 Rajgopal(2001) Rural Marketing. Rawat publication, New Delhi.
- 21 Dixit, R.S. : Geography of Marketing and

Handwritten signature

Programme Course/ Class M.A./M.Sc	Year-M.A.(Final)	Semester-IV
	Subject- Geography	
Course Code-	A111001P	
Course Title-	Paper-I - Practical Geography (Cartography) Compulsory	
Types of Course	Practical	
Credit	5	
Course Assessment	Lab Cum Field work -100 %	MM.100 (25+75)
Course objective and outcomes	<p>The objective of this course is to develop cartographic and research skill.</p> <p>NOTE-The practical examination shall be conducted in one parts carrying 75 marks +25 marks(sessional) by department . Log-tables and Calculator will be allowed in the lab. The examination shall be conducted by a board of two examiners of which one examiner shall be external.</p>	

Unit	Syllabus	MM	No. of Lectures
I	Cartographical Representation of Statistical Data System Analysis- Measurement of Spatial Patterns and inequality,Z score Lorenz curve and Nearest neighbor analysis.	20	15
II	Introduction to Research Methodology- Framework or Research- Concept and Significance of research in Geography, Philosophy & Methods Empricism, Positivism, Behaviourism. Primary and Secondary Data; Data Collection Arrangements, Statistical and Cartographic Techniques, Analysis of data and map, Quantative and qualitative interpretation.	20	20
III	Measuring Height by Indian Clinometer	10	15
IV	Dissertation on an area of Geography Sessional, Practical Record viva and internal assessment	25 25	

Suggested Reading

- 1- Monkhouse, F.J and Wilkison, F.J. (1985): Maps And Digrams. Methuen, London
- 2- Raisz, E. (1962): General Cartography, John Wiley and Sons, New York. 5th edition.
- 3- Haroon, M. (2021): Prayyogatmak Bhugol, Wisdom Publication, Varansari.
- 4- Sharma, J.P. (2001): Prayogik Bhugol, Wisdom Publication, Meerut 3rd. Edition.
- 5- Singh, R.L and Singh, Rana P.B (1993): Elements of Pracatical Geography. (hindi And English editions). Kalyani Publishers, New Delhi,.
- 6- Singh, L.R (2006): Fundamentals of Practical Geography, Shrda Pustak Bhawan, Allahabad.
- 7- Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooekha, Rastogi Publications-Meerut.

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-IV
	Subject- Geography	
Course Code-	A111002T	
Course Title-	Paper- II- Agriculture Geography (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester –75	
Course objective and outcomes	To acquaint with or theoretical approaches factors, theories, models and major challenges of agriculture with spatial dimensions. It provide the basic information of various types of the agricultural practices on the earth surface. At the end of the course students will be able to evaluate the agricultural dynamics include land use, agricultural system and major draw back in agriculture development.	
Unit	syllabus	Minimum No. of Lectures
I	Nature scope, sigificance, development and approaches of agricultural geography. Basic concepts historical perspective and secret trends. Development of agricultural technology in plant production, animal production and other agricultural fields. origin and dispersal of agriculture determinant of agricultural landuse.land reforms and landuse policy, cropping pattern, crop concentration, intensity of cropping, degree of commerciaization,diversification and specilization , efficiency and productivity, carrying capablity of land. the concept of agriccultural landscape.	19
II	Determination of crop combination regions, theories of agricultural location based on several mulidimensional factors: von thunen;s theory and its recent modification. methods of dilineation of agricultural regions. whittlesey's classisication. of agricultural regions. agriultural regions of the world: their location and characteristics.	18
III	Agricultural landuse and cropping pattern in india. regional pattern of productivity in india, green, white and lue revolutions and their impacts. food deficit and food surplus regions of india. Concept of second revolution Measures of Agricultural Development	19
IV	Specific poblems in indian agriculture and their management and planning, Agricultural policy of india. contemporary issues-food, nutrition and hunger, food aid programmes. role of irrigation, fertilizers, insecticides, pesticides and teahnological know how in enviromental degrdation, employment in agricultural sector. Indian Agricultural marketing, types and Structure. Formal marketing-Regulated Marketing, Govt Purchase Centre. Informal Marketing. Liberation WTO and Its impact on Agriculture, environment, food security and society.	19

Handwritten signature

Suggested Reading

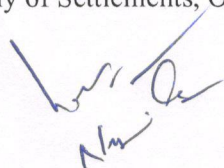
- 1- Baylist Smith T.P.: The Ecology of Agricultural System, Cambridge University Press, London, 1987.
- 2- Gregor, H.P.: Geography of Agriculture, Prentice Hall, N.Y., 1970.
- 3- Mannion, A.M.: Agriculture and Environmental Change, Johnwiley, London, 1971.
- 4- Morgan, W.B.: and Norton, R.J.C.: Agricultural Geography Methen. London, 1971.
- 5- Morgan, W.B.: Agriculture in the Third World: A Spatial Analysis, Westview Press, Boulder, 1978.
- 6- Saure. C.O.: Agricultural Origins and Dispersals, M.I.T. Press, Westview Press Mass., USA, 1969
- 7- Singh J. and Dhillon S.S.: Agricultural Geography, Tata Mcgraw Hill pub., New Delhi, 1988.
- 8- Tarrant, J.R.: Agricultural Geography, Wiley, N.Y., 1974.
- 9- Duckhan, A.N. and Masfield, G.B., Farming Systems of the World, London, 1970.
- 10- Griggs, D.G., an Introduction to Agricultural Geography, 1964.
- 11- Husain, Majid., Agricultural Geography, New Delhi.
- 12- John, R, Tarrant., Agricultural Geography.
- 13- Mohmmad, A, food production and food problem in India, new delhi.
- 14- Mohmmad, N., Perspectives in Agricultural Geography, New Delhi.
- 15- Shafi, M., Agicultural Geography of South Asia, macmillon, new delhi 2000.
- 16- Shafi, M., Agicultural Geography, Dorling Kinderstey, New Delhi, 2006.
- 17- Symons, L., Agricultural Geography, London, 1967.
- 18- Wrigley, G., Tropical Agriculture, 1979
- 19- Garg, H.S. Kirshi Bheegol (Hindi), SBPD, Publication Agra,(2021)
- 20- Mishra, Mukesh : Agricultural Geography, Saukats Publication, (2021)
- 21- Chopra, Grish: Agriculture Geog, Common Wealth Publication (2017)

Programme Course/ Class M.A./M.Sc.	Year-M.A.(Final)	Semester IV
	Subject- Geography	
Course Code-	A111003T	
Course Title-	Paper-III- Rural settlements Geography (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester –75	
Course objective and outcomes	The primary aim of studying settlement geography is to acquaint with spatial structure characteristics of human settlement under varied environmental conditions. The course deals with multi disciplinary perspective on the formation, evolution of rural settlement. The course will help the students to make an understory	

Unit	SYLLABUS	Minimum No. of Lectures
I	Nature, scope, significance, development and approaches of rural settlement geography. definition and characteristics of rural settlements, human settlement as a system. rural-urban continuum. histogenesis of rural settlements: spatio-temporal dimensions and sequent occupation. distribution size and spacing of rural settlements.	19
II	Types, forms and patterns of rural settlement: cause, and effect, functional classification of rural settlements, morphogenesis of rural settlements, morphology of rural settlements. central places and rural service centres: their nature, hierarchy and functions, service centres as growth points. Theory of Christaller and Losch and its application. Rural-urban fringe-structure, characteristics and function.	19
III	Cultural landscape, elements in rural settlement in different geographic environments with special reference to India, house types and their spatial patterns. origin, evolution. size, socio-spatial structure of Indian village.	18
IV	Social issues in rural settlements-poverty, housing, deprivation, and inequality, environmental issues in rural settlement-water supply, sanitation, drainage and health hazards. planning of rural settlement with special reference to India.	19

Suggested Reading

- 1- Aalim, S.M. et al: Settlement system in India, Oxford and IBP publication co. New Delhi, 1982.
- 2- Chisholm M; Rural settlements and land use, John Wiley N.Y, 1967.
- 3- Grover N; Rural Settlements: A cultural geographical Analysis, Inter India Publication, Delhi; 1985.
- 4- Daniel P. and Hopkinson M; The geography of Settlements, Oliver and



- Boyd, Edinbury, 1986.
- 5- Hudson F.F.: a geography of settlement, macdonald and evans, N.Y, 1976.
 - 6- Wanmali, S: Service Centres in Rural India ,B.R. publication corportation, new delhi, 1983.
 - 7- Tiwari, R.C. Settlement Geography (Hindi)- Parvatika, Prakash, Allahabad
 - 8- Ghos, Sumitra : Introduction to Settlement Geography (1998) Original, Longmen, Calcutta
 - 9- Singh R.Y : Geography of Settlement Rawat Publication 1994, New Delhi
 - 10- Sing, R.L: Geographic Dimension of Rural settlement, National Geographic Society of India, 1976
 - 11- Brian, K.R. : Land space of settlements: Prehistory to the Present, Routledge, London(1996)
 - 12- Maurya, SD : Settlement Geography, Sharda Pustak Bharavi, Paryagaraj (2020)

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-IV
	Subject- Geography	
Course Code-	A111004T	
Course Title-	Paper- IV- Geography of Tourism (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester –75	
Course objective and outcomes	<p>To equip the students with the knowledge of tourism geography and to lay emphasis on the importance of geography in travel and tourism.</p> <p>At end of this course, student will able to describe about the importance of geography in tourism and tourism potential hotspot in the various tourism generating regions of India.</p>	

Unit	Syllabus	Minimum No. of Lectures
I	Definition of Tourism Geography, Definition, Nature and Scope, Tourism Geography as Applied Geography: Factors influencing tourism-historical, natural, socio-cultural and economic; motivating factors for pilgrimages, leisure and recreation, elements of tourism, as an industry. Tourism in India, Past and Present	19
II	Geography of tourism; its spatial affinity, areal locational dimensions comprising physical, cultural, historical and economic. Tourism types-cultural, eco-ethno-coastal and adventure tourism, national and international tourism. globalization and tourism	19
III	Indian Tourism: regional dimensions of tourist attraction, evolution of tourism, promotion of tourism. Infrastructure and support system, transport, accommodation, other facilities, tourism circuits short and longer detraction agencies and intermediacies. Indian hotel industry.	18
IV	Impacts of Tourism-Physical, economic, social and perceptual, positive and negative impacts. Environmental laws and tourism. Current trends, spatial patterns and recent changes, role of foreign capital and impact of globalization on tourism.	19

Suggested Reading

- 1- Bhatia, A.k.: Tourism: Development and Practices, sterling pub. New Delhi, 1996.
- 2 Chandra, R.H. Hill Tourism: Planning and Development, Kanishka pub, New Delhi, 1998.
- 3 Hunter c and Green H: Tourism and the Environment: A Sustainable Relationship, Routledge, London, 1995.
- 4 Kaur J: Himalayan Pilgrimages and New Tourism, Himalayan Books, New Delhi, 1993.
- 5 Milton, D: Geography of World Tourism, prentice hall, N.Y. 1993.
- 6 Voase, R: Tourism: The Human Perspective, Holder and Stoughton, london, 1995.
- 7 Williams Stephen: tourism geography, Routledge, london, 1998.
- 8 Biju, M.R. : Sustainable Dimensions of Tourism Management, Mittsl Publication, N.D. 2006
- 9 Lea, J., Tourism and Development in the Third World, Routledge, London 1988.
- 10 Nigam, d., Tourism, Environment and Development of Garhwal Himalayas, Mittal Publications, 2002.
- 11 Robinson, H., A Geography of Tourism, MacDonald and Evans, London, 1996.
- 12 Sharma, J.k. (Ed.), Tourism Planning and Development- A New Perspective, Kansihka Publisher, New Delhi, 2000.
- 13 Sinha, P.C. (Ed.), Tourism Impact Assessment, Anmol Publishers, New Delhi, 1988.
- 14 Siddiqui, S., Eco- Friendly Tourism in UP. Himalayas, B.R. Publishers, New Delhi, 2000.
- 15 Singh, I., Manipur, A Tourist Paradise, B.R. Publishers, New Delhi, 2005.
- 16 Robinson, H, (1976), A Geography of Tourism, MacDonald and Evans Ltd. Estover, Plymouth

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-IV
	Subject-Geography	
Course Code-	A111005T	
Course Title-	Paper-V- Social Geography	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	
Course objective and outcomes	<p>The Course helps to understand the theoretical emergence of social geography, social well being, gender issues, social differentiation and regional dimensions of sociological changes. Students Will be introduced to demographic, social and cultural attributes of Earth such as migration, social relations and cultural identity.</p> <p>Students Will be able to assess the causal role of geography in production of different social groups and shaping of their unique features. students Will be sufficient well being, and issues of social justice through spatial perspective.</p>	

Unit	Social Geography	Minimum No. of Lectures
I	Emergence of social geography; meaning nature scope and significance of Social Geography, approaches to study of social geography; empiricist, positivist, structuralist and radical approaches. Social Geography as an applied branch of human geography, the affinity and relationship of geography with other social sciences.	19
II	Social well-being: Social well-being and its indicators, Human Development Index (HDI), inclusive growth, social segregation and ghetto formation.	18
III	Gender Issues and Social change: Gender inequality, women empowerment, woman literacy and health, social change with special reference to caste and tribal groups, rural-urban divide, rural-urban interaction and social change.	19
IV	Social Differentiation and region formation: Spatial distribution of tribes, cost and linguistic groups, relationship between social identity and economic conditions.	19

Suggested Reading

- 1 Aijazuddin Ahmad., Social Georaphy.
- 2 Garden, J.F, Geography as a Social Scince.
- 3 Gosal, G.S. & Mukherjee, A.B., Religious Groups in India.
- 4 Gregory, D.& Urry, J., Social Relations.
- 5 Hammelt, Chris. (Ed), Social Geography; A Reader.
- 6 Harvey, D., Social Justice and the City.
- 7 John, E.(ed.) Social Georaphy in International perspective.
- 8 Jones, E.& Eyles, J., An Introduction to Social Geography.
- 9 Jones,E(ed.) Readings in Social Geography.
- 10 Kulkarni, K.M., Geigraphical Patterns of social Well-Being.
- 11 Pacliona, M.(ed.) Social Geography, Progrss and Prospects.
- 12 Paul Knox, Social Well-Being, A Spatial Perspective.
- 13 Rao. M.S.A., Urbanization and Social Change.
- 14 Smith, David., Social problem and the City.
- 15 Smith, David., The Geography of Social Well-being.
- 16 Srinivas, M.N., Social Change in moern India.
- 17 Wagner, P.I. & Miksell, H.W. (eds.) Readings in Cultural Geogaphy
- 18 Sen, Jyotirmoy, "Text Book of Social and Cultural Geography, Kalyani Publisher, New Delhi (2015)
- 19 Kannan, Monika, "Social Geography: An Insight into Trafficking, Blue Rose Publication, New Delhi (2018)
- 20 Cater, John and Trevor, Jones : Social Geography: An Introduction to Contemporary issue; Edward Arnold, London (1989).
- 21 Ali A: Social Well-Being in West Bengal, Ayshuman Publication House, New Delhi (2018)

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-IV
	Subject-Geography	
Course Code-	A111006T	
Course Title-	Paper-VI - Disaster Management (optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Sessional -25 End semester -75	
Course objective and outcomes	To develop the skill of understanding about natural calamities and disaster and, also realize the consequence as well as preparedness. After end of this lesson, it is expected that students will prepare project on given topic varying from natural calamities to disaster impact regions.	

Unit	SYLLABUS	Minimum No. of Lectures
I	Disaster - meaning and concept; hazards, risk and vulnerability. Disaster: its management – plans, managing environment. Disaster its effect on different social groups; poverty and vulnerability. Disaster management: prevention, preparedness and mitigation.	19
II	Disaster – classification of disaster; Natural disaster – earthquake, floods, cyclones, drought and global warming: causes, consequences and mitigation. Natural disaster examples from India.	18
III	Disaster- man- made disasters, their types- technological and industrial disasters. Social disasters: causes, consequences and mitigation. Man made disasters – examples from India.	19
IV	Disaster management – relief and response; reconstruction and rehabilitation. Disaster – strategies for survival, types of strategies. Importance of information in disaster management, significance of remote sensing and GIS. Planning in the context of disaster management.	19

Suggested Readings

- 1- Government of India. (1997) Vulnerability Atlas of India, New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
- 2- Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Pub., New Delhi.
- 3- Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
- 4- Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi.
- 5- Singh, R.B.(ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publication, New Delhi.
- 6- Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
- 7- Stolman, J.P. et al.(2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
- 8- Singh Jagbir (2007) Disaster Management Future Challenges and Opportunities , 2007. Publisher-I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema market , New Delhi .
- 9- Pathak,Ganesh: Disaster Management(Hindi) Rajesh Publications ,New Delhi.
Pathak Ganesh : Environment and,Disaster Management and Climate Change, (Hindi) Rajesh Publication , (2020)New Delhi)

Programme Course/ Class M.A.	Year-M.A.(Final)	Semester-IV
	Subject-Geography	
Course Code-	A111007T	
Course Title-	Paper- VII- Remote Sensing : Theoretical Concept (Optional)	
Types of Course	Theory	
Credit	5	
Course Assessment	Seasonal – 25 End semester - 75	
Course objective and outcomes	<p>This course aims to develop the students “Knowledge about theoretical bases, principles, types and application of remote sensing technique and aerial photography in geographical studies.</p> <p>After the end of course, students will efficiently assess the scientific principles and law involved in Remote sensing techniques. Students will be able to observe the component and application of satellite based remote sensing data.</p>	

Unit	syllabus	Minimum No. of Lectures
I	Remote Sensing: Meaning, Definition, significance and utility of remote sensing in Geography. History and Development of Remote Sensing. Advantages and Limitations of Remote Sensing. Stages of remote sensing. Ideal and Real remote sensing.	19
II	Principles of remote sensing. EMR: its properties, electromagnetic spectrum and characteristics of different wavelength regions. EMR: interaction mechanisms. Atmospheric interaction and their types; surface interaction and their types; spectral signature. spatial, spectral, radiometric and temporal resolutions.	19
III	Aerial photography, its geometry, Relief Displacement and image Formations. Classification of Aerial Photographs and their Utility. Elements of image Recognition and Aerial Photo interpretation, The multi-concept.	18
IV	Types of remote sensing: Active and Passive Remote sensing. Types and characteristics of Remote Sensing Platforms; Geo-stationary and polar orbiting Satellites. Digital Image Processing: Pre-Processing-Radiometric, Geometric and atmospheric Correction; Enhancements; Image Classification-supervised and unsupervised.	19

Suggested Reading

1. Sabins, Floyd F. Remote Sensing; Principal & Interpretation, Freeman, New York, 1986
2. Lillesand, T.M. & Klefer, R.W., Remote Sensing and Interpretation, John Wiley & Sons, New York, 1987
3. Curran, Paul J; Principles of Remote Sensing, Longman, London, 1985
4. Estes, J.E. and L.W. Senger, Remote Techniques for environmental Analysis, Hamilton, Santa Barbara, California, 1974
5. Lillesand, Thomas M. and R.W. Klefer, Remote Sensing and Image Interpretation, John Wiley & Sons, New York, 1987
6. Slater, P.N., Remote Sensing: Optical System, Addison-Wesley, Reading, 1980
7. James, B. Camp Bell, Introduction to Remote Sensing-2nd Ed. Taylor & Francis, London.
8. Fazal, S., Remote Sensing Basics, Kalyani Publishers, New Delhi, 2009
9. Reddy, A. Textbook of Remote Sensing and Geographical Information Systems, BS Publication Hyderabad, 2001
10. Lilles & Klefer, Remote Sensing & Image Interpretation.
11. Reeves, R.G. (Ed.) Manual of Remote sensing (Vol.2) Virginia, 1975.
12. Sabins, F.F., Remote sensing: principal & Interpretation, 1982.
13. Smith, H.T.V., Aerial Photographs & their Application, N.Y., 1943.
14. Spurr S.H., Photogrammetry & Photo Interpretation, N.D., 1960.
15. Stershew, A.I., Aerial Photography.
16. Tomar, M.A., & Maslkar, A.R., Aerial Photographs in Landuse & Forest & Survey, Dehra-Dun, 1974.
17. Thomas, E.A., Interpretation of Aerial Photographs, Minnesota.
18. Usill, G.W. (Revised by Hearn, G.S.G) Pract. Surveying, London, 1960.
19. White, L.P., Aerial Photography & Remote sensing for soil survey.
20. James, B. Camp bell., Introduction to Remote Sensing-2nd Ed. Taylor & Francis, London.