DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.



Circular / Acad Sec./ P.G./Rev. Curri./Col. & Uni.Cam./ 2021.

It is hereby inform to all concerned that, on the recommendation of Dean of Faculty of Humanities, the Academic Council it's Meeting held on O1st November, 2021 has accepted the "following Revised Curriculum of Post Graduate Courses for affiliated Colleges & University Campus" as per appended herewith.

Sr. No.	P. G. Course Name	Semesters
01.	M. A. Sociology	Ist to IVth
02.	M. A. History	Ist to IVth
03.	M. A. Hindi	Ist to IVth
04.	M. A. Geography	Ist to IVth
05.	M. A. Political Science	Ist to IVth
06.	M. A. Thoughts of Mahatma Phule and Dr. Babasaheb Ambedkar	Ist & IInd
07.	M. A. Psychology	Ist & Hed
08.	Certificate Course in Counselling Psychology	-

This is effective from the Academic Year 2021-22 and Onwards as appended herewith.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University campus, Aurangabad-431 004. Ref. No. SU/Col. & UC/P.G./ Course/2021/3887-98

Date: 29.11.2021.

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Deputy Registrar, Academic.

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Copy forwarded with compliments to:-

- 1] The Head, all concerned departments,
 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 2] The Principal, all affiliated colleges,
 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 3] The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.

Copy to :-

- 1] The Director, Board of Examinations & Evaluation,
- 2] The Section Officer, [M.A. Unit] Examination Branch,
- 3] The Section Officer, [Eligibility Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The In-charge, [E-Suvidha Kendra],
- 7] The Public Relation Officer,
- 8] The Record Keeper,
 - Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

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DrK*291121/-



Re-Accredited By NAAC 'A' Grade

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD (MS), INDIA

BOARD OF STUDIES IN GEOGRAPHY

Revised Curriculum of Choice Based Credit and Grading System Curriculum Structure and Scheme of Evaluation for M.A. Geography

OUTCOME BASED EDUCATION CURRICULUM STARTED FROM

ACADEMIC YEAR 2021-2022

Dean'thumanities



Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Revised Curriculum of Choice Based Credit and Grading System Curriculum Structure and Scheme of Evaluation for M.A. First Year Semester-I

Outcome Based Education

Sr. No.	Type of Paper	Paper No.	Name of the Subject	50000		Teaching Week)		Scheme	of Evaluati	on Marks	
				Ť	P	Total Periods	Theory Exam	Internal	Practical	Total Marks	Total Credits
1.	Core Theory	GCT-1	Geomorphology	04		04	80	20		100	04
2.		GCT-2	Population Geography	04		04	80	20	***	100	04
3.	Geoinformatics Theory	GGT-1	Fundamental of RS, GIS & GPS	04		04	80	20		100	04
4.	Core Practical	GCP-1	Practical		04	04			100	100	04
5.	Multidisciplinary Theory	GMT-1	Foundation/Bridge Course- Introduction of Geography	02		02	30	20	7===	50	02
6.		GMT-2	Constitution of India	02		02	30	20		50	02
		Total		16	04	20	300	100	100	500	20

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Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Revised Curriculum of Choice Based Credit and Grading System Curriculum Structure and Scheme of Evaluation for M.A. First Year Semester-II

Outcome Based Education

Sr. No.	Type of Paper	Paper No.	Name of the Subject			Teaching Week)		Scheme	of Evaluati	on Marks	70000
				T	P	Total Periods	Theory Exam	Internal	Practical	Total Marks	Total Credits
1.	Core Theory	GCT-3	Climatology	04		04	80	20		100	04
2.		GCT-4	Geography of Marathwada	04		04	80	20		100	04
3.	Elective Theory (Select any Two Paper)	GET-1	Agriculture Geography	04		04	80	20		100	04
4.		GET-2	Geography of Tourism	04		04	80	20		100	04
5.		GET-3	Regional Planning and Development	04		04	80	20		100	04
6.,		GET-4	Political Geography	04		04	80	20		100	04
7.	Core Practical	GCP-2	Practical		04	04			100	100	04
		Total		16	04	20	320	80	100	500	20



Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Revised Curriculum of Choice Based Credit and Grading System Curriculum Structure and Scheme of Evaluation for M.A. Second Year Semester-III

Outcome Based Education

Sr. No.	Type of Paper	Paper No.	Name of the Subject			Ceaching Week)		Scheme	of Evaluati	on Marks	
	4.			T	P	Total Periods	Theory Exam	Internal	Practical	Total Marks	Total Credits
1.	Core Theory	GCT-5	Oceanography	04		04	80	20		100	04
2.	Specialized Theory (Only for Group G	GSTG-1	Fluvial Geomorphology	04		04	80	20		100	04
3.	Students)	GSTG-2	Coastal Geomorphology	04		04	80	20		100	04
4.	Specialized Theory (Only	GSTP-1	Demography	04		04	80	20		100	04
5.	for Group P Students)	GSTP-2	Social and Cultural Geography	04		04	80	20		100	04
6.	Core Practical	GCP-3	Practical/Field Visits		04	04			100	100	04
7.	Service Course	GSCT-1	Service Course	04		04	80	20		100	04
		Total		16	04	20	320	80	100	500	20



Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Revised Curriculum of Choice Based Credit and Grading System Curriculum Structure and Scheme of Evaluation for M.A. Second Year Semester-IV

Outcome Based Education

Sr. No.	Type of Paper	Paper No.	Name of the Subject	170,000		Teaching Week)		Scheme of	Evaluation	Marks	
				T	P	Total Periods	Theory Exam	Internal	Practical	Total Marks	Total Credits
1.	Core Theory	GCT-6	Geographical Thoughts	04		04	80	20		100	04
2.	Specialized Theory (Only for Group G	GSTG-3	Arid and Karsts Geomorphology	04		04	80	20		100	04
3.	Students)	GSTG-4	Glacial Geomorphology	04	***	04	80	20		100	04
4.	Specialized Theory (Only	GSTP-3	Urban Geography	04		04	80	20	***	100	04
5.	for Group P Students)	GSTP-4	Rural Geography	04		04	80	20		100	04
6.	Research Methodology Theory	GRMT-1	Research Methodology	04		04	80	20		100	04
7.	Research Project	GRMP-1	Dissertation/Village Survey, Case Study (Individual)- Tour		04	04			100	100	04
		Total		16	04	20	320	80	100	500	20

Nam	e of the Program : M.A. Geogr	aphy
Semester I	Name of the Course	Credits: 04
Theory Paper	GCT1: Geomorphology	

- 1. It being a course at the interface of geography with earth, the students to be sensitized to background of geology and environmental sciences.
- 2. The Objectives of the course is to familiarize the students with the need for understanding of geomorphology with reference to certain fundamental concept, focusing on the unity of geomorphology in the earth materials and the processes with or without an element of time. Process component of geomorphology is segmented into the internal and external processes of landscape evolution.
- 3. Finally a few selected applications of geomorphology to societal requirements and quality of environment are dealt with.

Course Outcomes:

- 1. To classify and describe landforms in a variety of environmental settings.
- 2. To explain the theories of Uniformitarianism, Catastrophism and appreciation.
- 3. To describe the significance of spatial and temporal scales in geomorphology.
- 4. To analyze geomorphological systems in terms of resisting and driving forces.
- 5. To explain the surface processes important in the creation of landforms.
- 6. To quantitatively use and evaluate geomorphological data with numerical, statistical and cartographical methods.
- 7. Ability to analyze relationships between physical and human aspects of environments and landscapes.

Unit	Teaching / Learning Points	Contact hour
	A) Nature and Scope of Geomorphology:	
	Definition of Geomorphology,	
	Fundamental Concepts in Geomorphology,	
r	B) Interior of the Earth	15
L	C) Basic Theories in Geomorphology:	15
	Wegener's Continental Drift,	
	Plate Tectonics, Theory of Isostasy	
	W M Davis's Concept of Geomorphic Cycle	

	A) Endogenic geomorphic forces:	
П	Epiorogenic and Orogenic Movements, Compression, Tension, Folds, Faults, earthquake and volcanoes. B) Denudational Processes: Weathering, Erosion and Mass Movement Comparison of these processes	15
Ш	Land Forms: Associated with Fluvial, Glacial, Arid, Karts and Coastal processes	10
IV	Slope Morphology: Types of Slope, Slope Formation and Processes	10
V	Applied Geomorphology: Geomorphology and Human activities- Agriculture, Industries, Settlement, Transportation and Mining	10
Total		60

- 1. Thornbury, W. D. (1960), Principles of Geomorphology, John Wiley and Sons, New York.
- 2. Chorley, R. J., Schumm, S. A. and Sugden, D. E.(1984): Geomorphology, Methuen, London.
- 3. Kale, V. S. and Gupta, A. (2001): Introduction to Geomorphology, Orient Longman, Calcutta.
- 4. Savindra Singh (2002), Geomorphology, Prayag Pustak Bhawan, Allahabad
- 5. Spark B. W. (1972), Geomorphology, Longman, New York
- 6. Steers, A. (1958), The Unstable Earth, Methuen, London
- 7. Ollier, C. D. (1981), Tectonics and Landforms, Longman, London
- Strahler A. H and Strahler, A. N. (1992), Modern Physical Geography, John Wiley, New York
- 9. Wooldridge and Morgan: Geomorphology
- 10. Holmes: Physical Geology
- 11. Fairbridge, R. W. (1968), Encyclopedia of Geomorphology, Reinholdts, New York.

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name	of the Program : M.A. Geog	raphy
Semester I	Name of the Course	Credits: 04
Theory Paper	GCT-2: Population Geography	

- 1. To introduce the students to the complex dimensions of population.
- To understand and evaluate the association between demographic and socio-economic attributes of population and the resultant levels of social well- being and economic development.
- To understand the role and relationship between population and environment in an ever changing space-time continuum.

Course Outcomes:

- 1. Analyze the types of data of population geography.
- 2. Describe the distribution and density of population.
- 3. Apply the theories of population in arriving at solutions to the issues.
- 4. Investigate Current Issues and Problems in India.
- 5. Interpretation of Topo-sheet, weather reports, Cartographic techniques & Geo Statistical Methods.
- Read and interpret the mechanism function of topographical maps and interpretation if weather images.

Unit	Teaching / Learning Points	Periods
I	A) Population Geography: Definitions, Nature and Scope B) Basic Concepts: Population Growth, Birth rate, Death rate, Crude Birth rate, Crude Death Rate, Infant Mortality rate, Fertility, Mortality, Migration, Age, Sex ratio, Age and Sex Pyramid, Density and literacy	15
П	Population Growth: Influencing Factors 1. Terrain, 2. Climate, 3. Soil, 4. Water Bodies, 5. Mineral Resources, 6. Industries, 7. Transport, 8. Urbanization 9. Socio-economic and Cultural, 10. Political Peace and Violence 11. Literacy	15

	Grand Total	60
v	Population as a Resource: A) Concepts: 1. Over Population, 2. Optimum Population 3. Under Population B) Various aspects of Population: 1. Size, 2. Growth, 3. Age, 4. Education 5. Health C) Population-Resource Regions: Plain, Plateau, Mountain and Coastal	10
IV	A) Population Distribution: Distribution of Population in India, Pattern Of World Population Distribution. B) Migration: Factors Affecting Migration and Types of Migration	10
III	Theory and Model: Basic Concept, Scope, Applications and Relevance of 1. Malthus' Theory of Population Growth and 2. Demographic Transition Model	10

- 1. Beaujeu Garnier J. Geography of Poluation, Longman Group Ltd.
- 2. Chandna R. C. (2000) A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi
- 3. Bhende Asha and Kanitkar T. Principles of Population Studies, Himalaya Publishing House, Bombay, 1993.
- Clark J. I. Geography of Population Approaches and Applications, Pergamon Press Ltd., Oxford

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Nam	e of the Program : M.A. Geogr	aphy
Semester I	Name of the Course	Credits: 04
Theory Paper	GGT-1: Fundaments of Remote Sensing, GIS and GPS	

- 1. To introduce GIS (Geographic Information System) as a tool of spatial science.
- 2. To indicate the basic elements of GIS and methodology of GIS.
- 3. To outline the steps and areas of application of GIS.
- 4. To introduce to the students the basic principles of Remote Sensing;
- 5. To indicate the methods of visual and digital interpretations of satellite imageries.
- 6. To outline the application value of remote sensing.

Course Outcomes:

- 1. Analyze the basic concepts of GIS and GPS.
- 2. Describe the Data, Model and Processes of GIS
- 3. Apply the GPS instrument and its features.
- 4. Interpretation of GIS and GPS Technology and its processes.
- 5. To describe the basic principles of Remote Sensing.
- 6. To explain the EMR (Electromagnetic Radiation).
- 7. To describe the Aerial photography and it's Classification.
- 8. To analyze Satellite Data Generation and Aerial Photography Products.

Unit	Teaching / Learning Points	Periods
	Introduction to Remote Sensing:	
	Definition of Remote Sensing	
	History of Remote Sensing	
I	Type and Scope of Remote Sensing	12
	Aerial Remote Sensing	
	Satellite Remote Sensing	
	Indian, European and US Satellite Systems	

	Grand Total	72
	C) Applications of GPS	
	Trilateration Process	
	Segments of GPS Technology Ephemeris data	
	B) Technology and Processes:	
V	Positions	14
	Advantages and Disadvantages of GPS and Deferential Global	
	Introduction and Development of GPS	
	Definition of GPS	
	A) Introduction to GPS:	
	DMS (Database Management System)	9
	Applications of GIS	
ΙV	Raster Data and Vector Data, Advantages and Disadvantages Processes of GIS	16
	Spatial and Non-Spatial Data	
	Data, Model and Processes of GIS:	
	OIS WORKHOW	
	GIS Diversity GIS Workflow	
	Components of GIS	
Ш	Introduction and Development of GIS	15
	Definition of GIS	
	Introduction to GIS:	
	Interaction of EMR with atmosphere and Earth's surface features	
	Spectral Signature	
	Black Body Radiation and Radiation Laws	
II	Spectral Quantities	15
	Electromagnetic Radiation and Electromagnetic Spectrum	
	EMR (Electromagnetic Radiation): Stages in remote sensing data acquisition	

- 1. George Joseph (2003) Fundamentals of Remote sensing University press, Hyderabad.
- 2. Chang Kang tsug (2002) Introduction to GIS, Tata MCGRAW Hill, New Delhi.
- 3. Burrough P.A. and R. A. MC Donnecl (2000), Principles of Geographical Information system, Oxford University, Press.
- C.P. Lo and Albert K. W. Yeung Concepts and Techniques of Geographical Information System – 2002. Prentice – Hall, India.
- 5. Joseph, G. (2004): Fundamentals of Remote Sensing, Universities Press, Hyderabad, India

- Lillesand, TM, Kiefer, RW and Chipman, JW (2008): Remote Sensing and Image Interpretation, John Wiley & Sons, New Delhi
- Sabins, FF (1996): Remote Sensing: Principles & Interpretation, WH Freeman & Company, San Francisco
- 3. Jensen, JR (2005): Introductory Digital Image Processing, Prentice Hall, New Jersey
- 4. Drury, SA (2001): Image Interpretation in Geology, Blackwell, Oxford
- 5. Campbell, J (2002): Introduction to Remote Sensing, Taylor & Francis, London
- Anji Reddy, M (2008): Textbook of Remote Sensing and Geographic Information System,
 B.S. Publication, Hyderabad
- 7. George Joseph (2003) Fundamentals of Remote sensing University press, Hyderabad
- 8. Chang Kang tsug (2002) Introduction to GIS, Tata MCGRAW Hill, New Delhi
- Burrough P.A. and R. A. MC Donnecl (2000), Principles of Geographical Information system, Oxford University, Press
- C.P. Lo and Albert K. W. Yeung Concepts and Techniques of Geographical Information System – 2002. Prentice – Hall, India.

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name	of the Program : M.A. Geog	raphy
Semester I	Name of the Course	Credits: 04

Unit	List of Experiments	Practicals
I	Drainage basin Basin relief analysis Relief analysis (for a 3 to 5 order drainage basin; based on grid method) 3. Slope map (degrees) 5. Hypsometric integral 6. Basin cross profiles 7. Block Diagram (multiple section)	16
П	Population Geography Indices and Projection 1. Age-sex pyramid 2.Child-women ratio 3. Dependency ratio 4. Infant mortality rate 5. Age specific mortality 6. Population growth rate	16
Ш	A) Fundamental Investigation 1. To study the working of stereoscope. 2. To understand the various types of aerial photographs and their applications. 3. To determine the scale of given aerial photograph. 4. To determine the relief displacement from given aerial photograph. 5. To determine the focal length of given aerial photograph. B) GIS (Computer/ Software based Practicals): 1. To apply Geo-referencing method in GIS (at least 2 examples) 2. To prepare Base Layer Map (Digitization) 3. To use Mozacking tools 4. To use GPS points Create contour map 5. To use DEM data Create 3D map 6. To use Google Earth image for measuring area, length etc) C) GPS: 1. To study the GPS equipment 2. To identify point locations (Wax-Point) 3. To apply tracking tool 4. To measure and compare elevation of various locations	40
	Total	72

- 1. Basu, S.R. and majumder paramita (2006), lamdaslides scenario of the Darjeeling Himalayas in West Bengal, India; Geo.Rev. Ind., V.68, No.2, june 2006.
- Bryant, M. (1974), Ddigital Image Processing, Chelmsford, MA, Optronics International pulblications.
- Clarke, K.C., (1990), Analytical and Computer cartography, Englewood cliffs, N.J. Practice-Hall.
- 4. Chorly, R. (ed) (1987), Handling Geographic Information, London.
- Lillesand, T.M. and R.W. kiefer (1994), Remote Sensing and Image Interpretation, New York,
 John Wiley and Sons.
- 6. Pijushkanti Saha and Pratha Basu (2010), Advanced Practical Geography, Arunabha Sen, Kolakata.

Web Resources:

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

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Name	of the Program : M.A. Geogra	aphy
Semester I	Name of the Course	Credits: 02
Multidisciplinary	Foundation / Bridge	
Theory Paper	Course	
	GMT1: Introduction of Geography	

- Possess basic skills for map reading and interpretation. Students should become familiar
 with and proficient in the use of: map symbols, scale, direction, and distance; various
 types of maps and their distinctive properties; maps to present geographic information
 and to interpret and
- Possess a somewhat detailed "mental map" of the world. Students should know the locations of Earth's most important physical and human features and conditions, the chief agents responsible for their formation
- 3. Understand the basic relationships that exist between humans and the natural environments they occupy. Students should recognize the different fundamental ways by which various societies culturally adapt to, use, and modify the natural environment(s) they occupy. They also should understand and appreciate the concept of natural resources and the need for an enhanced global environmental ethic.

Course Outcomes:

- 1. To classify and describe landforms.
- 2. To explain the theories of Climate.
- 3. To describe the significance of spatial and temporal scales in topology.
- 4. To analyze geomorphological systems in terms of resisting and driving forces.
- 5. To explain the surface processes important in the creation of landforms.

Unit	Teaching / Learning Points	Contact hour
I	Introduction of Geography Meaning of Geography Definition of Geography Scope of Geography	05

	Branches of Geography,:	
II	Physical Geography: Geomorphology, Climatology, Oceanography, Biogeography etc. Human Geography: Population, Economics, Social, Cultural, Political etc.	05
III	Fundamental Concept in Physical Geography: Latitudes, longitudes, Grid, International Date line, Interior of the earth, Structure of the atmosphere, Ocean bottom relief, Climate Change, Carbon sink etc.	07
IV	Fundamental Concept in Human Geography: Population: Density, Sex ratio, Growth, Literacy, Migration etc. Economics: Economic activity, Transportation and Communication, Human Settlements etc.	07
V	Identification of Maps: Physical maps: Mountain Ranges, Rivers, Oceans, Deserts etc. Political Maps: Continents, Selected Countries, National Highways etc.	06
Total	(5555)	30

- Chandana R.C. (2000), A Geography of Population, concepts, determinants and Patterns, Kalyani publications, New Delhi.
- 2. Fundamental of Physical Geography, Class XII by NCERT.
- 3. Fundamental of Human Geography, Class XII by NCERT.
- 4. Navneet School Atlas.
- 5. The Orient school Atlas.

Web Resources:

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Ar. Gajhans D.S. Chairman - BDJ. Geography -

Name	of the Program : M.A. Geogr	raphy
Semester II	Name of the Course	Credits: 04
Theory Paper	GCT-3: Climatology	

 The aim of the course is to provide an understanding of weather phenomena; dynamics of global climates and generation of climatic information and their application.

Course Outcomes:

- 1. Describe the meteorology and climatology
- 2. Describe the scientific problems addressed by metrology and climatology.
- 3. Describe the methods and technics of the data gathering
- 4. To perform meteorological measurements and use meteorological data for climatological analysis.
- 5. Describe/implement the basic meteorological process in the Earth atmosphere.
- 6. To describe the climate diversity over the Earth and knowledge of the basic climatic zones.
- 7. To perform climatological analysis on the basis of meteorological data.

Unit	Teaching / Learning Points	Periods
1	Basic Concepts: Weather and Climate, Nature and Scope of Climatology, Development of Modern Climatology	10
II	Earth's Atmosphere: Composition and Vertical Structure, Heat Balance and Budget of Earth	10
iii	A) Temperature and Air Pressure: Distribution of Temperature: Vertical and Horizontal Distribution of Pressure, Atmospheric pressure & general circulation of winds B) Humidity: Evaporation, Humidity, Condensation Formation of Clouds and their types Precipitation – types and characteristics.	10

	Grand Total	60
V	Classification of Climate: Bases of Classification Kop pen's Classification of Climate	15
IV	A) Air Masses and Fronts: Source Regions, Classification Frontogenesis and Frontolysis, Types of Fronts. B) Atmospheric Disturbances: Cyclones, Anticyclones, Storms, Water spouts, thunderstorms and tornadoes.	15

- Frederick K. Lutgen, Edward Tar buck: "The Atmosphere An Introduction to Meteorology" Prentice Hall, Englewood Cliffs, New Jersey 0762,1998
- 2. Pettersons: "Introduction to Meteorology " ------ 1969
- 3. Richl H: "Introduction to Atmosphere"------ 1972
- 4. Sellers W.D: "Physical Climatology" University of Chicago Press. 1965
- 5. Trewartha G.T: An Introduction to climate "McGraw Hill BK Co. New York, 1968.
- 6. Das P. K.: The Mansoon, Prayag pustak Bhavan, Allahabad.
- 7. Shastri Rama: Weather and Weather Forecasting, Ministry & Information NBT Delhi.
- 8. Lal D. S.: Climatology. Prayag pustak Bhavan, Allahabad.
- 9. Ramashatri: Weather & Weather forecasting, Ministry of Information & Broadcasting.
- 10. Savindra Sing (2000): Climatology, Prayag Pustak Bhavan, Allahabad.
- 11. Mather JR (1975): Climatology: Fundamentals & Applications. Mc Gray Hills Book, New York.
- 12. Hobbs J.E. (1980): Applied Climatology, Butterworth, London
- 13. Crist Field: Principles of Climatology; Prentice Hall, London.
- 14. Oliver J. E. (1973): Climate & Mans Environment, John Wiley & Sons; New York.
- 15. Byers R.H.: "General Meteorology "McGraw Hill BKCo New York 1974

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com
- 4. http://www.imd.gov.in

Name of t	he Program: M.A./M.Sc. Ge	ography
Semester II Theory Paper	Name of the Course Geography of Marathwada	Credits : 04

- 1. To acquaint students with Geography of our Region.
- 2. To make students aware of the magnitude of problems and prospects in Marathwada.
- 3. To help students understand the inter relationship between the subject and the society.
- 4. To help students understand the recent trends in regional studies.

Course Outcomes:

- 1. Describe the Administrative Set up of Marathwada.
- 2. Describe the Physical settings of Marathwada region.
- 3. Describe the Climate characteristics of Marathwada region.
- 4. Describe the impact of Resources on regional development.
- 6. To explain the agriculture development of Marathwada region.

Unit	Teaching / Learning Points	Periods
1	Administrative Set up of Marathwada: • Historical and Political Background of the Region • Geographical location of Marathwada • Adjoining States and Districts • Administrative Districts	10
11	 Physical settings: Geological Structure of Marathwada. Physical Structure (Mountain, plateau, Plains) Drainage Pattern (East and West flowing rivers) Major Soil types and Distribution. 	10
Ξ	Climate:	10

	Grand Total	60
V	 Major agriculture region Major Crops: Changing Cropping Pattern 	
V	Types of Agriculture	15
	Agriculture:	
	Power: Hydro, Thermal, Atomic	n n
	 Mineral; Iron ore, Manganese and Bauxite 	
IV	 Forest: Types and Conservation 	15
	 Water: Problems in Utilization and conservation 	
	Resources:	

1. Maharashtra state Agricultural Atlas

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com
- 4. http://www.imd.gov.in

Name of the Program : M.A. Geography			
Semester II	Name of the Course	Credits: 04	
Theory Paper	GET-1: Agriculture Geography		

- To familiarize the students with the concept, origin, and development of agriculture.
- To examine the role of agricultural determinants towards changing cropping
 patterns, intensity, productivity, diversification and specialization. The course
 further aims to familiarize the students with the application of various theories,
 models and classification schemes of cropping patterns and productivity.
- 3. Its objectives are also to discuss environmental, technological and social issues in agricultural sector with special reference to India.

Course Outcomes:

- 1. To define the basic concepts of agriculture geography.
- 2. To describe the Land Classification in India.
- 3. To examine the Agricultural Patterns.
- 4. To investigate the Problems & Prospects of Agriculture.
- 5. To interpreter Agricultural Regionalization and Methods.

Unit	Teaching / Learning Points	Periods
	a) Introduction to Agricultural Geography: Nature scope and significance. Different Approaches to study the subject	
k	 b) Land use: General and Agricultural Land use Land use surveys Land Classification in India 	
11	Determinants of Agricultural Patterns: Relief, climate, soil Land holding, marketing, transport Irrigation Mechanization. Biochemical inputs	

Grand Total		
٧	Agricultural Regionalization (Methods): Views of Baker Whittlesey Hann. Crop combination techniques, Weaver and Thomas method. Agricultural efficiency, Kendall's ranking coefficient, Bhatia's method Agricultural regions of India.	
IV	Problems & Prospects of Agriculture: Definition and characteristics of arid and semi-arid regions. Droughts and famines Role of irrigation and dry farming.	
Ш	Agricultural Types: Shifting cultivation Intensive subsistent farming. Mixed farming Plantation agriculture Commercial grain farming	

- 1. Aiyer, A.K.Y.N.(1949) Agricultural and Allied Arts in Vedic India.
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- 3. Grigg. D.G.(1964) An Introduction to Agricultural Geography Hutchinson & Co.Ltd.,
- 4. Illbery, B.W. (1985) Agricultural Geography, Social & Economic Analysis, Oxford University Press.
- 5. Morgan. W.B. & S.C. Monton (1971) Agricultural Geography Methuen, London.
- Randhawa, M.S. (1980) An History of Agriculture in India Vols. I, II, III,IV ICAR, New Delhi.
- Singh. J. and Dhillon S.S. (1994) Agricultural Geography. Tata McGraw Hill, Publishing Co. Ltd.
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Name of the Program : M.A. Geography			
Semester II	Name of the Course	Credits: 04	
Theory Paper	GET-2: Geography of Tourism		

- 1. to familiarize the students with aspects of tourism which have a bearing on subject matter of geography;
- 2. to orient the students to the logistics of tourism industry and the role of tourism in regional development;
- 3. to understand the impact of tourism on physical and human environments.

Course Outcomes:

- 1. To define the basic concepts of Geography of Tourism.
- 2. To describe the Classification Tourism in India.
- 3. To examine the tourism industry.
- 4. To investigate the Problems & Prospects of tourism.
- 5. To interpreter impact of tourism on physical and human environments..

Unit	Teaching / Learning Points	Periods
Ì	Definition of tourism; Factors influencing tourism: historical, natural, socio-cultural and economic; motivating factors for pilgrimages: leisure, recreation; elements of tourism, tourism as an industry.	
II	its spatial affinity; areal and locational dimensions comprising physical, cultural, historical and economic; Tourism types: cultural, eco ethnocoastal and adventure tourism, national and international tourism; globalization and tourism.	
III	Indian Tourism: regional dimensions of tourist attraction; evolution of tourism, promotion of tourism.	8

Grand Total		
V	 impacts; Environmental laws and tourism - Current trends, spatial patterns Recent changes; Role of foreign capital & impact of globalization on tourism. Project report on relevant topics such as impact of tourism on Garhwal Himalaya, Dal Lake, Goa and North East India, impact on a historic city. 	
	Impacts of tourism: • physical, economic and social and perceptional positive and negative	
IV	accommodation and supplementary accommodation; other facilities and amenities; Tourism circuits-short and longer detraction - Agencies and intermediacies - Indian hotel industry.	

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- Bhatiya, A.K. International Tourism Fundamentals and Practices, Sterling, New Delhi, (1991).
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- Hunter C and Green H: Tourism and the Environment: A Sustainable Relationship, Routledge, London, 1995.
- Inskeep. E: Tourism Planning: An Integrated and Sustainable Development Approach, Van Nostrand and Reinhold, New York, 1991.
- 6. Kaul R.K. Dynamics of Tourism & Recreation. Inter-India, New Delhi. (1985).
- 7. Kaur J.: Himalayan Pilgrimages & New Tourism Himalayan Books, New Delhi, 1985.
- 8. Lea J.: Tourism and Development in the Third World, Routledge, London, 1988.
- Milton D.: Geography of World Tourism Prentice. Hall, New York, 1993.
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- 11. Robinson, H. A Geography of Tourism. Macdonald and Evans, London, 1996.
- Sharma J.K. (ed.): Tourism Planning and Development A new perspective, Kanishka Publishers, New Delhi, 2000.
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- Theobald W. (ed.): Global Tourism: The Next decade, Oxford, Butterworth, Heinemann, Oxford, 1994.
- 16. Voase R.: Tourism: The Human Perspective Hodder & Stoughton, London, 1995.
- 17. Williams A.M. and Shaw G. (eds.): Tourism and Economic Development Western
- 18. European Experiences, Belhaven, London.

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Na	me of the Program : M.A. Geograph	у
Semester IV Theory Paper	Name of the Course GET-1: Regional Planning and Development	Credits : 04

- 1. To understand and evaluate the concept of region in geography and its role and relevance in regional planning;
- 2. To identify the issues relating to the development of the region through the process of spatial organization of various attributes and their inter relationship.
- 3. To identify the causes of regional disparities in development, perspectives and policy imperatives.

Course Outcomes:

- 1. To define the major concepts of regional planning and development. .
- 2. To classify theories and models of regional planning and development.
- 3. To solve the regional imbalances in India.
- 4. To examine the regional planning in India.
- 5. To investigate the geographical need and feasibility.

Unit	Teaching / Learning Points	Periods
Ī	Basic Concepts: Concept of Region, Types and hierarchy of regions Concept of Planning, Types of planning Concept of Approach, Different Approaches to Regional planning Concept of Geographical Indication, its relation with Planning Concept of Growth and Development. Indicators of development Measures of regional development	14
11	Theories and Models: a) Models of economic growth: • Rastows stages of economic growth • Gunnar Myrdal's concept of internal growth b) Theoretical frame work for regional planning: • Central Place Theory • Growth Pole Theory	16

	Grand Total	72
V	Geographical Need and Feasibility Geographical Factors affecting on Planning and Development Urgent Needs for Planning and Development Watersheds Solid and Liquid Domestic Wastes Disaster and Hazard Drinking Water and Health Services	14
IV	Regional Planning in India Metropolitan planning Rural development planning Tribal area development planning	14
111	Regional imbalances in India Industrial Imbalances Agricultural Imbalances Rural-Urban ratio Imbalances Infrastructural Development and its Imbalances	14

- Bhandari S (1992): Transport and Regional Development, Concept Publication, New Delhi
- 2. Bhat, L. S. (1973): Regional Planning in India, Statistical Publishing Society, Kolkata
- 3. Chandana, R. C. (2000): Regional Planning A Comprehensive Text, Kalyani Publishers, Ludhiana
- 4. Dube K. N. (ed) (1990): Planning and Development in India, Asia Publishing House, New Delhi
- 5. Friedmann, J Alanso W (1967): Regional Development and planning A Reader, MIT Press Mass
- 6. Govt. of India (1986), Regional Plan 2001 National Capital Region, NCRPB, Ministry of Urban Development, New Delhi
- 7. Hall P. (1992) Urban and Regional Planning, Routledge, London
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Naı	me of the Program : M.A. Geograph	hy
Semester II	Name of the Course	Credits: 04
Theory Paper	GET-4: Political Geography	

- 1. To familiarize the students with the geographical factors which have a bearing on the political/administrative organization of space.
- 2. To enhance awareness of multi-dimensional nature of geo-political space.
- To examine the role of Political geography in development of nation and its
 deferent sectors. The course further aims to familiarize the students with the
 application of various theories, models and classification schemes in Political
 geography.
- 4. Its objectives are also to discuss environmental, technological and social issues in Political sector with special reference to India.

Course Outcomes:

- 1. To define the basic concepts of political geography.
- 2. To describe the structure and elements of modern world political map.
- 3. To examine the Territorial aspects of international relations and world politics.
- 4. To investigate the Problems & Prospects of Political and geographical organization of the state.
- 5. To interpreter Political and social problems using geographical models.

Unit	Teaching / Learning Points	Periods
,	 a) Introduction to Political Geography: Nature scope and significance. Land Classification in India, subject matter of political geography; political geography and geopolitics. 	
	 b) Different Approaches to study the subject: Morphological, functional and unified field theory. Role of physical, demographic, economic, socio-cultural and historical factors in the emergence of States. 	

	Grand Total	72
٧	 Geopolitical dimensions of environment: Views of Baker Whittlesey Hann. Crop combination techniques, Weaver and Thomas method. Agricultural efficiency, Kendall's ranking coefficient, Bhatia's method Agricultural regions of India. 	
IV	 Underdevelopment and international policies: The North-South dialogue; SAARC and ASEAN the New International Economic order; International tensions; identification of tension areas and factors contributing to tension in different areas; West Asia, and Indian Ocean region; Regionalism in International relations. 	
Ш	 Global strategic views: Mackinder Spykman de. Seversky Mahan Their relevance to contemporary world situation. 	
11	 State as a politico-territorial phenomenon:: Changing nature of location, size and shape in political geography of States; Political and administrative framework and its hierarchical relationship to unitary and federal forms of governance. Boundaries and frontiers. Functions and classification of international boundaries. 	

- Bhagwati, J.N. (ed.): New International Economic Order The North-South Debate, M.I.T. Press, London, 1976.
- Dikshit, R.D.: Political Geography: A Contemporary Perspective, Tata McGraw-Hill Publishing Co., New Delhi, 1982 (also latest edition).
- 3. Glassner M.I.: Political Geography, John Wiley, New York, 1993.
- Panikkar, K.M. Geographical factors in Indian History. Bharatiya Vidya Bhavan, Bombay 1956.
- 5. Pounds N.T.: Political Geography Mc Graw Hill, New York, 1972.
- 6. Prescott, J.R.V.: Political Geography, Methuen & Co., London, 1972.
- 7. Schwartzberg, J.E.: A Historical Atlas of South Asia, University of Chicago Press,
- 8. U.S.A. 1993.
- 9. Short, J.R.: An Introduction to Political Geography, Routledge and Kegan Paul,

- 10. London, 1982.
- 11. Taylor P.J (ed.): Political Geography of the 20th Centuary A Global Analysis. New York, 1993.
- 12. Taylor, Peter: Political Geography, Longman, London, 1985.
- 13. William C.H. (ed.): Political Geography of the New World Order Halsted Ben, New York, 1993.

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Name of the Program : M.A. Geography		
Semester II	Name of the Course	Credits: 04
Theory Paper	GCP-2: Practical	

Practical / field work list:

Unit	Teaching and Learning points (Complete at least 50 % practicals from each Unit)	Practicals Hours
ſ	 Sediment Analysis 1) To prepare for soil sampling and collect soil samples for analysis / testing. 2) To analyze sandy sample, using by Sieving Method. 3) To analyze clayey sample, using by Sieving Method. 4) To plot the data on probability graph paper. 5) To analyze soil sample, using by Pipette Method. 6) To measure the grain size and plot the graph. 	9
	 Soil Testing To understand different purposes and basics parameters of soil with their methods of testing (Major, Secondary and Minor Nutrients). To measure the soil pH using a ratio of 2:5 soil/ Water paste in soils 	
II	 To measure the soil EC (Electrical conductivity) using a ratio of 2:5 soil/ Water paste in soils To estimate the soil texture by hydrometer method. To estimate the soil moisture by Gravimetric method To estimate soil Bulky density (Db) from situ undisturbed soil method To estimate the soil porosity 	9
	Grand Total	18

Unit	Teaching and Learning points	Practical's Hours
	Basics of Toposheets (List of Practical's)	
	To known about the Historical Development of SOI.	
	2) To understand the various types of SOI Toposheet.	
	3) To study the Indexing System and elaborate it with drawings	
	4) To draw Signs and Symbols.	
ľ	5) To write the Marginal Information of the SOI Toposheet	12
	6) To study the Grid System, its type and to give Grid	
	Reference to some Geographical Locations.	
	7) To understand and draw the signs and symbols used for	
	topographical elevation, e.g. spot height, bench mark,	
	triangulation station, counters, etc from given toposheet.	
	Grand Total	12

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Nam	e of the Program : M.A. Geograp	phy
Semester III	Name of the Course	Credits: 04
Theory Paper	GCT-4: Oceanography	

 The objectives of the course are to introduce students to the many facets of Oceans, such as, evolution of the oceans, physical and chemical properties of sea water, atmospheric and oceanographic circulation, the fascinating world of marine life and the characteristic of marine environment and the impact of man on the marine environment.

Course Outcomes:

- 1. To define the major concepts in oceanography.
- 2. To describe the oceanic floor.
- 3. To interpreter the properties of sea water.
- 4. To examine the waves in oceanic region.
- 5. To appraise the tides.

Unit	Teaching / Learning Points	Periods
	Introduction to Oceanography:	
	Definition and Meaning of Oceanography	
1	Foundation of Modern Oceanography	12
	 Contribution of Oceanographers in the subject 	
	Modern Trends	
Ш	Ocean Floor:	
	Continental Margin	
	Oceanic Ridges and Rises	14
	Abyssal Plains	14
	Oceanic Trenches	
	 Volcanoes, Coral Reefs and Atolls 	

	Properties of Sea Water:		
	 Factors affect temperature on water and distribution 		
	Factors affecting density		
Ш	Origin and composition of sea salt and residence time	14	
	Carbon dioxide and carbonate cycles		
	Viscosity		
	Surface tension		
	Waves:		
	Ideal sea waves		
	Wave height, length and period		
	Formation of sea and swell	(1	
IV	 Capillary, gravity, shallow water and deep 	16	
	Water waves		
	Internal and standing waves		
	 Seismic waves (Tsunami) and storm surges 		
	Wave reflection, refraction and diffraction		
	Breaking of waves		
	Tides:		
	Tide generating forces: Neap Tides		
V	Equilibrium Theory of Tides Tidal Currents and their Channels	16	
	Dynamical Theory of Tides Tidal Bores		
	Spring Tides Tidal effects in coastal areas		
	Grand Total	72	

- 1. Basu S.K. (2003) (ed): Handbook of Oceanography, Global Vision, Delhi
- 2. Davis Richard A. (1972): Oceanography, Addition Wesley Publishing Co.
- 3. Garrison Tom (1999): Oceanography, Brooks/ Cole Wadsworth, New York
- 4. Garrison Tom (2004): Essentials of Oceanography. Thompson, Australia
- 5. Grant Gross M. (1982): Oceanography, Prentice hall, Ince, New Jersey
- 6. King Cuchlain A. M (1962): Oceanography for Geographers (ED) Edward Arnold
- Sharma & Vatal (1962): Oceanography for Geographers. Chaitanya Publishing House, Allahabad

- 8. Thurman Harold V. (1985): Introductory Oceanography. Bell & Howell Co. London
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Name	of the Program : M.A. Geogr	raphy
Semester III	Name of the Course	Credits: 04
Theory Paper	GSTG-1: Fluvial Geomorphology	

- The rivers being the major geomorphic agent of erosion, the course assumes significance as it mainly deals with an understanding of the fluvial forms and processes.
 The evolution of drainage pattern and alluvial channels are governed by the forces resisting and driving the flow of water. The students are introduced to the activities of these two forces and their resultant effects on the flow patterns, sediment load and channel patterns.
- 2. The use of rivers and the landscape develop certain feedback mechanism within the system which have the ability to alter the human vis-à-vis fluvial environments.

Course Outcomes:

- 1. Analyze the basic concepts of Fluvial Geomorphology.
- 2. Describe the Features of channel morphology.
- 3. Interpret of fluvial erosion and its landforms.
- 4. Examine the Sediment Transportation of Fluvial system.
- 5. Explain the Fluvial Deposition and its landforms.

Unit	Teaching / Learning Points	Periods
ī	Fluvial Geomorphology and Geography; Definition and scope Hydrological cycle and subcycle; Drainage pattern evolution; Limits of drainage development; Channel changes with time	10

	Fundamentals of river mechanics:	
	 Types of flow and flow discrimination; 	
	 Forces acting in channels; 	
	Low regimes;	
П	 sediment load of streams. 	20
	sediment transport;	
	 competent velocity; 	
	lift force;	
	critical tractive force.	
	Hydraulic geometry of streams at a station and down-stream:	
	channel thalweg	(200-3)
Ш	 causes of concavity; 	10
	channel patterns,	
	 equilibrium profile - straight, meandering and braided. 	
	Drainage basin as a fundamental geomorphic unit.	
IV	 Drainage basin - form and process; 	10
1 0	 drainage basin morphometry; 	
	morphometric interrelations.	
	Applied fluvial geomorphology;	
	 human adjustment to flood plain, 	4.0
V	alluvial fans and deltaic environments (case studies).	10
	Effects of reservoirs on fluvial systems.	
	 Remote sensing and GIS application to fluvial environments. 	OVe-S
	Grand Total	60

- 1. Chorley R.J. (ed) 'Introduction of Fluvial Processes Methuen & Co., London, 1973.
- Coates D.R. and Vitek J.I. Thresholds in Geomorphology. George Allen Unwin, London 1980.
- 3. Gregory K.J. 'River Channel Changes' John Wiley & Sons, New York, 1977.
- Gregory K.J. and Walling, D.E.: Drainage Basin: Forms and Process- A Geomorphological Approach. John Wiley & Sons, New York, 1985.
- 5. Kingston D. Fluvial Forms and Processes Edward Arnold, London, 1984.
- 6. Leopold C.B. et.al..: Fluvial Processes in Geomorphology; Freeman, London 1964.
- 7. Morisawa M.(ed.) Fluvial Geomorphology. George Allen & Unwin, 1981.
- 8. Gleick, P.H. (ed.): Water in Crisis Oxford University Press, New York 1993.
- Morisawa M: 'Streams Their Dynamics and Morphology' McGraw Hill, New York, 1968.
- Leopold, L. B., Wolman, M. G. and Miller, P. (1954) Fluvial processes in Geomorphology, Freeman and Co., San Francisco.
- 11, Schumm, S. A. (1977). Fluvial Systems. Wiley, New York.
- Richards, K. (1982). River: Forms and processes in alluvial channels. Methuen and Co. London Morisawa, M. (1985). Rivers: Forms and Processes, Longman
- 13. Dr. Kale, V. S. and Gupta, A. (2001). Introduction of Geomorphology, Orient Longman, Kolkata.

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Name	e of the Program: M.A. Geogr	aphy
Semester III	Name of the Course	Credits: 04
Theory Paper	GSTG-2: Coastal	
	Geomorphology	

The basic objective of this course is to enlighten the students about the mechanism of landform development resulting from coastal and marine processes. In view of the fact that about one-third of the world population lives in coastal areas. Thus coastal geomorphology becomes relevant to geographers. This branch involves reinterpretation of coastal environment through geomorphologic view points. Since this study has both academic as well as applied interests, the objective is to train the students in both to prepare them as better academicians and better researches.

Course Outcomes:

- 1. Analyze the basic concepts of Costal Geomorphology.
- 2. Describe the Features of costal waves.
- 3. Explain the oceanic currents.
- 4. Interpret the tides and Ebbs.
- 5. Examine the Equilibrium Theory of tides.
- 6. Evaluate the Temporal Sea level changes.

Unit	Teaching / Learning Points	Periods
1	 Significance of coastal geomorphology; classification of coasts and shore; coastal processes - waves in shallow and deep water, wave energy, wave induced currents, tides and tidal waves; coastal materials - sand and shingle, organic reefs. 	10
11	 Coastal erosion- movement of materials, sorting; beach profile. Coastal landforms: Sand dunes and sand ridges, spits, barriers, lagoons, cliffs - their origin and distribution. 	10

	Grand Total	60
٧	 Applied coastal geomorphology; Mechanism of sea-level changes, and eustatic movements; Evolution of Eastern and Western Coasts of India, Coast Zone Management. 	15
IV	Tidal landforms; • Tidal landforms; mudflats- processes and morphology. • Salt Marsh- Processes and Morphology. • Formation of estuaries and mangroves.	15
Ш	Classificaion: Classificaion of coasts by Johnson, Shepard and Cotton. Submarine morphology, continental shelf, continental slope, submarine canyons and oceanic ridges.	10

- 1. Ahmad, E.: Coastal Geomorphology of India. Orient Longmans, Bombay, 1973.
- 2. Bose, A. et. al: Coastal Zone Management of West Bengal, Pub. Sea Explorers Institute, Calcutta, 1985.

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- Bird, E.C.: Coasts -An Inroduction to Coastal Geomorphology. Basil-Blackwell, Oxford,1984
- 4. Davis, J.L.: Geographical Variation in Coastal Development. Hafner Pub. Co., New York, 1973.
- 5. French, P.W.: Coastal and Estuarine Management, Routledge, London, 1997.
- John, P: An Introduction to Coastal Geomorphology. Arnold- Heinemann, London, 1984.
- 7. King, C.A.M; Beaches & Coasts, Edward Arnold, London, 1972.
- Scientific American: Readings in Earth Sciences, Vols I-III. Taraporevala Pub., Bombay, 1975..
- Shepard, F.P. and Wanless, N.R.: Our Changing Coastlines. Oxford University Press, 1971.

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Name	e of the Program : M.A. Geogr	aphy
Semester III	Name of the Course	Credits: 04
Theory Paper	GSTP-1: Demography	

- 1. To introduce the students to the complex dimensions of Demography.
- 2. To understand the Demographic transition
- 3. To define the Demographic data and its processes.
- 4. Explain the Age-Sex Structure and its Dynamics.

Course Outcomes:

- 1. Analyze the basic concepts of Demography.
- 2. Describe the Features of Demographic Transition.
- 3. Classify the sources of demographic data.
- 4. Interpret the Age-Sex Structure and its Dynamics.

Unit	Teaching / Learning Points	Periods
1	 Introduction to Demography Definition and Conceptual Understanding. Evolution of demography as a scientific discipline; 	05
Ш	 Nature and scope of the subject Demography. Changes in Demography over the time period. Multi-disciplinary nature of demography, its links with other social science disciplines. Basic demographic concepts. Components of population change. 	10
111	 Demographic transition Historical population trends - World and India. Past, present and future population trends across world, continents, major regions, India and Indian states, with brief description of causes. Demographic Transition Theory - by Frank W. Notestein. Demographic Transitions of Major Countries including India. 	15

ageing. Socio-economic co	
 structure of the world and m Present levels, past trend structure of India and states Determinants and conseq Demographic dividend. 	ure in demography. probable future changes in age-sex
 collect data. Vital registration system, so of death. National Sample Survey rounds collecting population 	orld. ent items on which Indian censuses registration system, survey on causes zation's surveys, details of different

- 1. Jacob S. Siegel and David a. Swanson (2004): *The Methods and Materials of Demography*, Second Edition, Chapters 1, 2, 3, 7, 9,10, Elsevier Science, USA.
- 2. John Weeks (2005): *Population: An Introduction to Concepts and Issues,* Wordsworth Learning. Singapore 9 edition.
- 3. United Nations, (1973): *The Determinants and Consequences of Population Trends*, Vol. I, *Population Studies*, No. 50, Chapter VII, New York.
- 4. Bhende, A., (1996): *Principles of Population Studies* (Seventh Edition), Himalaya Publishing House, Bombay.
- 5. United Nations, World Population Ageing, 1950-2050

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Name	of the Program: M.A. Geogra	phy
Semester III	Name of the Course	Credits: 04
Theory Paper	GSTP-2: Social and cultural Geography	

- 1. To understand diversity of cultures in the world as well as in India.
- 2. To comprehend the diffusion of various ethnic traits and religions.
- 3. To understand the relationship between cultures and pattern of living and economic development
- 4. To familiarize the students with the understanding of the society through concepts and social theory, philosophical approaches and spatial processes.
- To examine the process of social region formats in India with the help of social cultural and historical factors;
- To examine social distortion and regionalise the various components of social wellbeing in India.
- 7. To review problems and suggest alternatives to improve the social well-being in environmentally problematic areas.

Course Outcomes:

- 1. Analyze the basic concepts of Social and cultural Geography.
- 2. Describe the Socio-Cultural Setup and Regions.
- 3. Classify the Regional Differentiation of Social and Cultural Characteristics
- 4. Interpret the Social and Cultural Issues.

Unit	Teaching / Learning Points	Periods
1	Nature and Scope: a. Definition of social Geography and cultural Geography b. Nature and Scope of Social and Cultural Geography c. Different approaches of study d. Culture and Society as a Essential Elements of Geographical Studies e. Evolution of Culture and Social Things	10
II	Socio-Cultural Setup and Regions A) Concepts 1) Region 2) Social Diversity, 3) Social Areas, 4) North-South and East-West Socio-Cultural Diversity of India 5) Grifith Talyer's Theory	10

	Grand Total	60
	f. Social cultural problems and migration	
	e. Social justice : equality and welfare	
	d. Social well being (meaning Patterns, measuring, method)	
V	c. Human development Index	
	b. Social Cultural problems and migration Demography	
	a. Causes of Social and Cultural problems	
	Issues	
	e. Urban and Rural Difference	
	d. Social and Cultural reforms	
	c. Tribes and their cultural activities	
IV	b. Tribal Region and their social activities	
	a. Social and Cultural Region	
	Regional Differentiation of Social and Cultural Characteristics	
	6) Migration of other activities.	
Ш	1) Human Race 2) Language 3) Religion 4) Castes 5) Tribes	10
	B) Differential Factor of Socio-Cultural Set-up	

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- 2. Blij, H.J. (1995): The earth-An introduction to its Physical and Human Geography, John Wiley & Sons,inc; New York.
- 3. Broad, Jan O.M.& webb, John W(1973): A Geography of mankind, McGraw Hill Book Co. New York.
- 4. Cater, Hohn & Jones, Trevor (1989): Social Geography-An Introduction to Contemporary Issues, Arnold Publishers, New Delhi.
- 5. Jackson, Peter (1989): Maps of meaning- An Introduction to cultural Geography, Unwin Hyman, and London.
- 6. Jackson, Richard H. & Loyd E.Hudman (1990): Cultural Geography-People, Places and Environment West publishing co., New York.
- 7. Jones, Emrys & Eyles, John (1977): An Introduction to social Geography, Oxford University Press, Oxford.
- 8. Jorden, Terry G. & Rowntree, Lester (1976): The Human Mosaic-A Thematic Introduction to Cultural Geography, Canfield press, sen Francis Co., Harper & Row Publisher, New York.
- 9. Tripathi, R.S. & Parmar, S.B.Singh: Social and Economic Development in India, Ashish Publishing House New Delhi, PP 451-454.
- 10. Smith, David M.(1977): Human Geography- A Welfare approach, Arnold-Hinmann, London.
- 11. Majid Hussain (1994): Human Geography., Rawat Publications, Jaipur.

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Name	of the Program : M.A. Geog	raphy
Semester III	Name of the Course	Credits: 04
Theory Paper	GCP-3: Practical	

Practical / field work list:

Unit	Teaching and Learning points	Practicals Hours
II	 SOI for Geomorphology (List of Practicals) To give geographical location with latitude and longitude of select geomorphological features. To give geographical extension with latitudinal and longitudinal extents of selected geomorphological regions / selected area occupied by geomorphological feature. To identify selected features e.g. Hills, Slopes, Cliff, River, Lakes etc. To identify the types of Slope with the help of counters given on the SOI toposheet and draw it. To draw Cross Profile of the given region. To draw Longitudinal Profile of the given river. To read the SOI Toposheet of Hilly Region. To read the SOI Toposheet of Plateau Region. To read the SOI Toposheet with respect to Physical / Geomorphological features. To interpret the SOI Toposheet with respect to Drainage System and Water bodies. To interpret the SOI Toposheet with respect to Vegetation. 	24
	Grand Total	24

Practical / field work list:

Unit	Teaching and Learning points	Practicals Hours
Onit	reaching and Learning points	Tracticals from S

Grand Total		12
	3) To identify selected features e.g. Hills, Slopes, Cliff, River, Lakes etc.	
	selected area occupied by geomorphological feature. 3) To identify selected features e.g. Hills, Slopes, Cliff, River,	
I	longitudinal extents of selected geomorphological regions /	
	2) To give geographical extension with latitudinal and	
	longitude of select geomorphological features.	
	To give geographical location with latitude and	
	SOI for Geomorphology (List of Practicals)	

Practical / field work list:

Unit	Teaching and Learning points	Practicals Hours
	Basics of Toposheets (List of Practicals)	
	To known about the Historical Development of SOI.	
	2) To understand the various types of SOI Toposheet.	
	3) To study the Indexing System and elaborate it with drawings	
	4) To draw Signs and Symbols.	
ī	5) To write the Marginal Information of the SOI Toposheet.	12
	6) To study the Grid System, its type and to give Grid	
	Reference to some Geographical Locations.	
	7) To understand and draw the signs and symbols used for	
	topographical elevation, e.g. spot height, bench mark,	
	triangulation station, counters, etc from given toposheet.	
	Grand Total	12

❖ Practical / field work list

Unit	Teaching and Learning points	Practicals Hours
100000000000000000000000000000000000000		Hours

	Grand Total	24
	 To interpret the SOI Toposheet with respect to Historical and Cultural things (Fort, Temple, Church, Chhatri, Mosque, Idgah, Tomb, Graves etc.). 	
	 To interpret the SOI Toposheet with respect to Transportation and Communication (Roads / Railway lines / power lines / pipelines / water ways / Lighthouse / etc.). 	
	/ rural).	
	10. To interpret the SOI Toposheet with respect to Settlement (urban	
	To read the SOI Toposheet of Plain region.	
	7. To read the SOI Toposheet of Hilly Region. 8. To read the SOI Toposheet of Plateau Region.	
	railway line / etc.	
	6. To draw Longitudinal Profile of the given road / hilly street /	
	region / etc.	
1	To draw Cross Profile of the given urban region / agricultural	24
	it.	
	agricultural activities like wells, dug wells, tube well, canal, bore wells, percolation tank etc given on the SOI toposheet and draw	
	4. To identify the types of agricultural landuse and mark the	
	Historical features, etc.	
	Post Office, Railway line, Bridge, Settlements, Cultural and	
	3. To identify Manmade Things e.g. Road, Bridge, Railway Station,	
	by the manmade activity / expansion of village/ urban area.	
	extents of selected socio-cultural region / selected area occupied	
1020	To give geographical extension with latitudinal and longitudinal	
	To give geographical location with latitude and longitude of select socio-cultural features.	
	SOI for Population Geography (List of Practicals)	

Na	me of the Program : M.A. Geograph	y
Semester III	Name of the Course	Credits: 04
Service Course	GSCT1: Disaster Management	

- To Understanding foundations of hazards, disasters and associated natural/social phenomena
- 2. To introduce knowledge about existing global frameworks and existing agreements (e.g. Sendai)
- 3. To give introduce Technological innovations in Disaster Risk Reduction: Advantages and problems
- 4. To Experience on conducting independent DM study including data search, analysis and presentation of disaster case study

Course Outcomes:

- 1. To state the major concepts about disaster management.
- 2. To classify the major cyclonic regions.
- 3. To solve the problems of arrival cyclones.
- 4. To examine the major flood Disaster regions.
- 5. To design the Disaster warning system.

Unit	Teaching / Learning Points	Periods
1	Meaning of disaster, calamity, Hazards, Major characteristics of disasters. Physical and cultural disasters. Major regions of the world of such disasters and loss of life and property.	15
II	Hazards-cyclone, Hurricanes Tornado, Typhoons, causes for the formation of cyclones. Regions of the cyclones.	15
Ш	Precautions before the arrival of cyclones. Effect of cyclonic hazards. Thunder storm, lightening, hail storms and cloud burst calamities.	10

IV	Flood disaster. Reasons and types of flood disasters. Wet draught areas. Consequences of floods. Major rivers of heavy floods, measures of flood controls.	10
V	Disaster warning system. Rehabilitations, Prevention, Social Response measures for disasters.	10
	Total	60

- Dhara S: Natural disaster, Minimizing Risks the Hindu survey of Environment (2001)
- 2. Daoglas I and Spencer T: Environmental change and Tropical Geomorphology (Edited) George Allen and Unwin London (1985)
- Embleton C: Natural Hazards and Global change, ITC Journal 1989 ¾ pp 169-175, Erickson S. L and King B. J. Fundamental of Environmental Management wiley New York (1999)
- 4. Gupta H. K. Dons and Earthquakes Elsevier Amsterdam (1976)
- 5. Press F. Need for Action Reduction copying with Natural Hazards, UNESCO (1993)
- 6. Sinha D. K. towards Basic of Natural disasters, University of Calcutta (1990)
- Verstappen H. T. Geomorphology, Natural disaster and Global disaster. Proceeding of the symposium sept- 14-16 1989, Enschede Netherlands PP 159- 164.

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Na	me of the Program : M.A. Geography	
Semester IV	Name of the Course	Credits: 04
Theory Paper	GCT-5 Geographical Thoughts	

- 1. To introduce the students to the philosophical and methodological foundations of the subject and its place in the world of knowledge.
- 2. To familiarize them with the major landmarks in development of geographic thoughts different periods of time.

Course Outcomes:

- 1. To define the geographical thoughts.
- 2. To describe the contribution of modern geographers.
- 3. To solve the paradigms and philosophy in geography.
- 4. To examine laws theories and models in geography.
- 5. To judge the major approaches in geography.
- 6. To assemble laws and theories in geography.

Unit	Teaching / Learning Points	Periods
1	Pre-Historical Review: Contributors and their Role in Geography Impact of Explorations and Discoveries	10
Ш	Founders of Modern Geographical Thought: Alexander von-Humboldt, Carl Ritter, Friedrich Ratzel, Vidal de la Blache, Richard Hartshorne	12
Ш	A) Dualism and Dichotomies in Geography: Determinism verses Possibilism Systematic verses Regional Geography B) Conceptual and Methodological development: Paradigms and philosophy in Geography	16
IV	A) Measurements and explanation in Geography: Laws, theories and models B) Areal differentiation and Spatial Organization: Structure, Pattern & Process	20

V	Approaches: Positivism, Humanism, Radicalism, Behaviouralism Quantitative revolution in Geography	14
	Grand Total	72

- Abler, Adms J.& Gould P.(1971): Spatial organization. The Geographer's view of the world. Prentice Hall, Engle wood cliff, New Jersey.
- 2. Adhikari Sudeepta(1972): Fundamentals of Geographic Thought. Chaitanya Pub,lishing House, Allahabad.
- Dickinson R.E.(1969): The makers of modern Geography. Rout/edge & kegan Paul, London.
- 4. Dixit R.D. (1999): Development of Geographic Thought Longmans India Limited.
- Free Man T.w.(1965): Geography As social science. Harper International Edition Harper
 Row, Publishers, New York.
- 6. Harvey D. (1969): Explanation in Geography. London, Edward Arnold.
- 7. Hartshorne R.(1959): Perspective on the Nature of Geography. Rand McNally, Chicago.
- 8. Majid Hussain (1999): Geographic Thought. Rawat Publishing House, Jaipur.
- 9. Richard Peet (1977): Radical Geography Alternative view points on contemporary social issue. Methuen & Co. Ltd. London.
- Holt Jensen, Arid: (1998) Geography: History and Concepts, Sage publication, New Delhi.

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- 2. www.encyclopedia.com
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Name of the Program : M.A. Geography		
Semester IV	Name of the Course	Credits: 04
Theory Paper	GSTG-3: Arid Geomorphology	

- As the arid and semi—arid climatic regions occupy a major portion of the continents, it becomes essential to understand the deserts in detail as they hold a key to the natural resource evaluation.
- Aeolian environments are particularly sensitive to aridity, bio-mass and human interferences. All these activities affect wind shear in different degrees, set time in motion the processes of erosion and deposition. These processes and their resulting forms are highlighted in the course content.
- 3. Aeolian activities are not restricted to the present day conditions but also to the past environmental stress conditions. These palaeo- environments are discernible by using established dating techniques which have enabled the interpretation of past climates and pre-historic cultures. A direction is set for the application of Aeolian geomorphic principles for the efficient management of land-based human economic activities through advanced monitoring technique with special reference to India.

Course Outcomes:

- 1. Define the major concepts in Arid Geomorphology.
- 2. Described the desert landscape surfaces.
- 3. Interpret the arid and desert terrain.
- 4. Examine the water in the arid region.
- 5. Appraise the Aeolian Processes.

Unit	Teaching / Learning Points	Periods
1	 Wind Environments: Introduction; desert wind systems; directional variability and resultant drift potential; scope of aeolian geomorphology. Grain in motion: fluid flows - flow types; interaction of the wind and the bed - wind shear; entrainment – lift and drag; Thresholds of movement: static and dynamic; modes of transport: saltation, creep, reptation and suspension; transport rates. 	12

	Grand Total	72
V Appli	controls of dust; Management of coastal dunes and dunes in semi - arid areas; desertification and its controls with special reference to India.	18
	relic and active dunes; dating aeolion deposits; pre-leistocene sand dunes; Pleistocene and Holocene dunes; Aeolinites - composition and distribution.	18
Form	dune- classification schemes;	12
	Processes: abrasion, deflation and aerodynamic erosion; Landforms: ventifacts, yardangs, pans, stone pavements, deflation hollows; desert varnish; processes and significance. Dusts-Sources; - contemporary and proximal, mineral composition; Dust-generating and dust yielding systems, gross spatial patterns of production and removal; deposition: loess, types, palaeo -environmental significance.	12

- 1. Abrahams, A.D. and Parsons, A.J. (eds.), Geomorpology of Desert Environments Chapman & Hall, London, 1994.
- 2. Goudie, A and Hegde: Palaeo-geography and Pre-history of Indian Desert, Academic Press, London, 1980.
- 3. Baumont, P.: Drylands-Environment, Management and Development, Routledge, New York, 1993.
- 4. Bagnold, R.A. The Physics of Blown Sand and Desert Dunes, Methuen, London, 1941.

- Cook, R.U., Waren, A. and Goudie, A.S. Desert Geomorphology, London, UCL Press, London, 1993.
- Embleton, C. and Thornes, J. (eds.), Process in Geomorphology, Arnold -Heinemann, New Delhi, 1980.
- 7. Greeley, R and Iversen, J.D., Wind as a Geological Process. Cambridge University Press, Cambridge, 1985.
- 8. Lancaster, N: Geomorphology of Desert Dunes Routledge, New York, 1995.
- Livingstone I. and Warren, A. Aeolian Geomorphology, Adison Wesley, Longman, Essex, 1996.
- 10. Mckee, E.D. (ed.) A Study of Global Sand Seas, Castel House, Kent, 1980.
- Nickling, W.G. (ed.) Aeolian Geomorphology. Allen & Unwin, Boston, 1986.
 Curriculum Development Committee in Geography 106
- 12. Singhvi, A.K. and Derbyshire, E.(eds.) Palaeo—environmental Reconstruction in Arid Lands, Oxford & IBH, New Delhi, 1999.
- 13. Tchakerian, V.P. (ed.) Desert Aeolian Process , Chapman & Hall, London, 1995.

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- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name of the Program : M.A. Geography			
Semester IV	Name of the Course	Credits: 04	
Theory Paper	GSTG-4: Glacial Geomorphology		

- 1. To appreciate the contrasting geomorphic processes operating in glacial and periglacial environments.
- 2. To understand the deformational behaviour of ice and the meltwater.
- 3. To understand the sensitiveness of the periglacial environment to heat budget.
- 4. To understand the impact of human activities on permafrost environment.

Course Outcomes:

- 1. Define the major concepts in glacial geomorphology.
- 2. Describe the type of glaciers.
- 3. Solve the glacial formation and movements.
- 4. Examine the Erosion by glaciers with landforms.
- 5. Judge the transportation and deposition by glacial landforms.

Unit	Teaching / Learning Points	Periods
I	Causes of Ice Ages-Pleistocene Glacitation: Onset and retreat direct and indirect effects of Pleistocene Glacitation-glacier regimes: definition, mass balance and response to climatic changes-glacier ice: physical and thermal properties, glacier flow and internal deformation.	10
II	 Erosional Process: glacial erosion: ice and meltwater-mechanical and chemical processes of erosion; development of erosional landforms-morphodynamics of the features of erosion at or inside glacier margins-glacial thermofrost; superglacial, englacial, and basal. 	14

	Grand Total	72
V	Periglacial landforms;	18
IV	Periglacial Processes: • frozen ground phenomenon: identification, depth variations, • thermal properties, classification and distribution-ground ice: • types and morphodynamics of periglacial processes: • mechanism of frost action, mass wasting, nivation.	16
Ш	Processes-stratified and non-stratified; drifts-morphodynamics of moraines: forms of moraines-glaciofluvial and glacio-lacustrine environment; Pleistocene glacitation in South Asia-Hazards in glacial environment: glacial surges and glacier dam bursts.	14

- 1. Brown, R.J.E., Permafrost in Canada. University of Toronto Press, Toronto, 1970.
- Carson MA. and Kirkby M.J., Hillslope Form and Process, Cambridge University Press, 1972.
- Coates, D.R.(ed.), Glacial Geomorphology, State University of New York, 1974, New York, 1974.
- Dixon, J.C. and Abrahams, A.D. (eds.), :Periglacial Geomorphology. John Wiley, New York, 1992.
- 5. Drewry, D., Glacial Geological Processes, Edward Arnold, London, 1986.
- Embleton, C. and King, C.A.M., Glacial and Periglacial Geomorphology, Edward Arnold, London, 1968.
- Embleton, C. and Thormes, J. (eds.), Process in Geopmorphology, Arnold -Hesnemann, New Delhi, 1980.
- 8. Hails, J.R. (ed.): Applied Geomorphology Elsevier Sci. Amsterdam, 1977.
- 9. Pewe, T.L.(ed.):. The Periglacial Environment. Mc. Gill- Queen's University Press, Montreal 1969.
- 10. Peterson, W.S.B., The Physics of Glaciers. Pergamon Press, Oxford 1969.
- 11. Price, L.W., The Periglacial Environment, Permafrost and Man., Commission on

College Geography, Resource Paper No. 14, Washington, D.C, 1972.

- 12. Ritter, D.F. Craig, R. and Miller, J.P., Process of Geomorphology. , W.C. Brown Dubuque, 1995.
- 13. Slymaker, O. (ed.), Steepland Geomorphology., John Wiley, London, 1995.
- 14. Sugden, D.E. and John, B.S. Glaciers and Landscape. Edward Arnold, London, 1976.
- 15. Vander Veen, C.J., Fundamentals of Glacier Dynamics., A.A. Balkemma, Rotterdam, 1999.
- 16. Wright, A.E and Mosley, P.(eds), Ice Ages: Ancient and Modern., Seel House Press, Liverpool,1975.

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- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name of the Program : M.A. Geography		
Semester III	Name of the Course	Credits: 04
Theory Paper	GSTP-3: Urban Geography	

- 1. Understand the process of urbanization and origin, growth and classification of urban settlements with relevant theories and models.
- 2. Examine the changing economic base and structure of the contemporary cities.
- 3. Relate urbanization process and the evolution of urban system.
- 4. Examine the contemporary urban issues and suggest new urban planning and urban policy perspectives.

Course Outcomes:

- 1. To define the basic concepts of urban geography.
- 2. To describe the urban morphological models.
- 3. To discuss about urban classification.
- 4. To examine the rural-urban fringe.
- 5. To investigate the central place and urban hierarchy.

Unit	Teaching / Learning Points	Periods
1	Urbanization - Basic Concepts: ■ Urban Geography ■ Nature and Scope of Urban Geography ■ Strengths of Urban Geographer ■ Meaning of Urban Settlement ■ Urbanization ■ Behavioural, Structural and Demographical Concept of Urbanization ■ Urbanization Curve ■ Contemporary factors of Urbanization	12
II	Urban Morphology - Models: Park and Burgess Model Homer Hoyet Model Harris and Ullman Model Characteristics and Demarcation of CBD	15
III	Urban Classification: Various Approaches to Classification Urban Functions and its Classification Functional Classification of Towns and Cities by C.D. Harris and H.J. Nelson	15

	Grand Total	72
٧	Central Place and Urban Hierarchy: Concept - Central Place Christaller's Central Place Theory Rank-size Relationships and Rules Concept – Urban Hierarchy Hierarchy of Urban Settlements	16
IV	Rural-Urban Fringe: • Meaning of Rural-Urban Fringe • Characteristics of Rural-Urban Fringe • Methods of Demarcation of Suburban areas • Concepts : Conurbation, Megalopolis, Satellite Towns, Urban Sprawl	14

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name of the Program : M.A. Geography		
Semester IV	Name of the Course	Credits: 04
Theory Paper	GSTP-4: Rural Geography	

- 1. To understand the growth and evolution of rural settlements.
- 2. To recognize and analyze the distributions, patterns, morphology and functions of rural settlements.
- 3. To analyze and suggest rural settlement planning in India.
- 4. To examine the prevailing social and environmental issues in rural areas of India.

Course Outcomes:

- 1. To define the basic concepts of rural geography.
- 2. To describe the types and patterns of rural settlement.
- 3. To compare the rural morphology and its models
- 4. To examine the rural landscape and settlements.
- 5. To investigate of rural central places.

Unit	Teaching / Learning Points	Periods
I	Urbanization - Basic Concepts: Rural Geography: Rural Population and Settlement Nature and Scope of Rural Geography Site, Situation and Location of Rural Settlements Settlement Size and Shape Evolution of Settlement Rural-Urban Dichotomy Transformation of Villages	12
11	Types and Patterns of Rural Settlements: • Difference between Type and Pattern • Types of Settlement: Clustered, Compact and Nucleated • Basic Village / Settlement Forms • Patterns of Rural Settlement: Rectangular, Circular, Star, Linear etc • Classification of Settlement • Functional Classification of Villages	15

	Grand Total	72
V	Rural Central Places:	15
IV	Rural Landscape and Settlements: • Meaning of Village and Surrounding Farmland • Von Thunen's Agriculture Landuse Model • Economic Rent and Farming Patterns • Rural Dwelling: Rural house types, Building material, Size etc	15
111	Rural Morphology - Models: • Morphological Changes • Factors Responsible for Dispersion • Socio-Spatial Structure, Caste and Segregation of Settlements • Index of Dispersion of Settlement by Albert Demangeon • Nearest Neighbour Analysis	15

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Name of the Program: M.A. Geography		
Semester IV	Name of the Course	Credits: 04
Theory Paper	GRMT-1: Research Methodology	

- 1. To introduce the students to the complex dimensions of Basics of Research Methodology
- 2. To understand the Purpose of Research in Geography.
- 3. To Explain the Types of Research in Geography
- 4. To Explain the Data Analysis

Course Outcomes:

- 1. Analyze the basic concepts of research methodology in Geography
- 2. Describe the purpose of research in Geography.
- 3. Apply the research methods in Geography
- 4. Interpretation of Research proses in Geography

Unit	Teaching and Learning points	Practicals Hours
Î	Basics Meaning and Connect of Research.	03
11	Purpose of Research in Geography.	03
Ш	Types of Research Descriptive and Analytic Applied/Fundamental Research Quantitative and Qualitative Conceptual and Empirical Experimental and Non-Experimental Cross-Section Study Longitudinal Study	10

	Grand Total	30
V	Data analysis (hypothesis testing) Interpret and Report	04
IV	Research Process Identification and Selection of the research problem Review of literature Formulate the Hypothesis Preparation of Research Design Sample: Methods, Design Data Collection	10

- 1) Dr. C. Rajendar Kumar (2008): Research Methodology. APH Publishing Corporation.
- 2) C.R. Kothari (2004): Research Methodology: Methods and Technique. New Age International.

- 1. www.wikipedia.org
- 2. www.encyclopedia.com
- 3. http://jgesnet.com

Nam	Name of the Program : M.A. Geography	
Semester II	Name of the Course	Credits: 04
Research Project	GRMP-1: Dissertation, Village Survey, Case Study	

- 1. To introduce the students to the complex dimensions of Basics of Research Methodology
- 2. To understand the Purpose of Research in Geography.
- 3. To Explain the Types of Research in Geography
- 4. To Explain the Data Analysis

Course Outcomes:

- 1. Analyze the basic concepts of research methodology in Geography
- 2. Describe the purpose of research in Geography.
- 3. Apply the research methods in Geography
- 4. Interpretation of Research proses in Geography

Unit	Teaching and Learning points	Practicals Hours
ı	Basics Meaning and Connect of Research.	03
II	Purpose of Research in Geography.	03
Ш	Types of Research Descriptive and Analytic Applied/Fundamental Research Quantitative and Qualitative Conceptual and Empirical Experimental and Non-Experimental Cross-Section Study Longitudinal Study	10

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- 1) Dr. C. Rajendar Kumar (2008): Research Methodology. APH Publishing Corporation.
- 2) C.R. Kothari (2004): Research Methodology: Methods and Technique. New Age International.

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