

# National Education Policy-2020 MA/MSc Geography Syllabus-2024 CSJM University, Kanpur

# MA/MSc in Geography PROGRAMME SPECIFIC OUTCOMES (PSOs) Program Outcome (After 2 Years of Study)

a) The program deepens understanding of geography's physical and human aspects, emphasizing contemporary methods and theoretical frameworks.

b) Students will engage with advanced geographical theories and methodologies, preparing them to address complex spatial and environmental issues critically.

c) This course enhances the development of advanced analytical and critical thinking skills, focusing on nuanced exploration of key themes and issues in Geography.

d) Graduates will be well-equipped to contribute to scholarly and policy debates, addressing the needs of the contemporary world through a sophisticated understanding of geographic development.

e) The program fosters a comprehensive mastery of core and emerging areas in Geography, encouraging ongoing engagement with evolving geographical paradigms.

f) Students will thoroughly know the applied aspects of Geography, gaining expertise in related interdisciplinary fields crucial for addressing real-world challenges.

g) The course enhances critical thinking and advanced research skills, preparing students for academic, governmental, or industry roles.

h) Students will learn to apply advanced geographical knowledge to solve societal problems, integrating academic research with practical applications.

i) The program integrates traditional geographic knowledge with advanced contemporary skills such as remote sensing, GIS, and spatial analysis, preparing students for technological and methodological advancements.

# Syllabus for MA/MSc Geography has been developed by:

Sl No	Name and Affiliation	Convener/Member
1.	Prof. R K Tripathi	Convonor
	VSSD College, Kanpur	Convener
2.	Dr. Kashif Imdad	Mambar
	PPN PG College, Kanpur	Wennee
3.	Prof. Sadhna Rani	Mamhar
	VSSD College, Kanpur	Menider
4.	Prof. PP Rajput	Mambar
	Tilak MV, Auraiya	WEILDEL
5.	Dr. Rakesh Kumar Mishra	Mamhar
	DBS College, Kanpur	Menider
6.	Dr. Prabhat Singh	Mamhar
	BB College, Farukhabad	Wender
7.	Prof. S R S Yadav	Mamhar
	KK College, Etawah	Wender

As per instructions of Hon. Vice Chancellor, suggestions were also provided by Dr. Abhilasha Sharma, CSJM University

# CSJM University, Kanpur MA/MSc Geography Course Structure

Year	Sem	Course Code	Туре	Course Title	Credits	CIA	ESE	Max Marks
	1 <sup>st</sup>	A110701T	Core	Geographical Thought: Concepts and Issues	4	25	75	100
	1 <sup>st</sup>	A110702T	Core	Advanced Geography of India	4	25	75	100
1 <sup>st</sup>	1 <sup>st</sup>	A110703T	Core	Geomorphology- Theories and Concepts	4	25	75	100
	1 <sup>st</sup>	A110704T	Core	Research Methodology	4	25	75	100
	1 <sup>st</sup>	A110705P	Core	Practical and Excursion Tour	4	25	75	100
	Note:	For the resea	arch projec	t, see the guidelines for Paper-A1108	08R in S	econd	Sem.	
	2 <sup>nd</sup>	A110801T	Core	Regional Planning and Development	4	25	75	100
	2 <sup>nd</sup>	A110802T	Core	Climatology	4	25	75	100
	2 <sup>nd</sup>	A110803T	Core	Oceanography	4	25	75	100
	2 <sup>nd</sup>	A110804T		Disaster Management				
1 <sup>st</sup>	2 <sup>nd</sup>	A110805T	Elective	Social Geography	4	25	75	100
	$2^{nd}$	A110806T		Political Geography				
	2 <sup>nd</sup>	A110807P Core Statistical Methods and Cartography		4	25	75	100	
	2 <sup>nd</sup>	A110808R	Core	Research Project	8	25	75	100
	2 <sup>nd</sup>		Minor Elective	From Own and o	other Faculty			
	3 <sup>rd</sup>	A110901T	Core	Advance Remote Sensing and GIS	4	25	75	100
	3 <sup>rd</sup>	A110902T	Core	Population Geography	4	25	75	100
	3 <sup>rd</sup>	A110903T	Core	Economic and Resource Geography	4	25	75	100
2 <sup>nd</sup>	3 <sup>rd</sup>	A110904T		Marketing Geography		• -		100
	3 <sup>rd</sup>	A110905T	Elective	Industrial Geography	4	25	75	100
	3 <sup>rd</sup>	A110906T		Cultural Geography				
	3 <sup>rd</sup>	A110907P	Core	Geographic Information System	4	25	75	100
	4 <sup>th</sup>	A111001T	Core	Urban Geography	4	25	75	100
	4 <sup>th</sup>	A111002T	Core	Agriculture Geography	4	25	75	100
	4 <sup>th</sup> A1		Core	Advance Environmental Geography	4	25	75	100
and	4 <sup>th</sup>	A111004T		Rural Geography				
2.4	4 <sup>th</sup>	A111005T	Elective	Geography of Health	4	25	75	100
	4 <sup>th</sup>	A111006T		Geography of Tourism				
	4 <sup>th</sup>	A111007P	Core	Surveying	4	25	75	100
	4 <sup>th</sup>	A111008R	Core	Research Project	8	25	25+50	100

Prof. Sadhana Rani Convener, Geography C.S.J.M. University, Kanpur

# MA/MSc 1st Year, Sem. I, Course I (Theory)

Program MA	nme/Class: A/MSc	Year: First Semes		ster: First	
	Subject: Geography				
Cour A110	se Code: 0701T	Course Title: C	Geographic	al Thought: Conc	cepts and Issues
<ul> <li>Course outcomes: Students will be able to understand;</li> <li>Gain comprehensive insights into the evolution and methodologies of geographical thought.</li> <li>Develop skills to critically evaluate philosophical and theoretical advancements in geography.</li> <li>Apply geographical theories to real-world challenges and independent research.</li> </ul>					
	Credits: 4	-		Core Compu	lsory
Max. Ma	arks: 25(Internal	) +75(External)	(M	Min. Passing M inimum 25 Marks	arks:33 in External)
	Total No. of Le	ectures-Tutorials-Pr	actical (in h	ours per week): L-	- 4/w
Unit		Topics			No. of Lectures
Ι	History of Geographical Thought, Changing Paradigm of Geography; Dualism in Geography: Systematic v/s Regional, Physical v/s Human.				10
II	Positivism in Impact, System	Geography, Quanti	tative Revo cography.	olution and its	10
III	Concept of Ea Region and Organization.	rth Surface, Concer its Typology a	ot of landsc nd Conce	ape, Concept of pt of Spatial	12
IV	Radical Geography; Geography as a Science of Human Ecology; Behavioralism & Phenomenology in Geography. Post-modernism in Geography; Nature and Recent Trends in Geography; Progress of Geography in India.13				
Suggested Re	eadings:				
<ol> <li>Ali, S.M. (1960): Arab Geography, Institute of Islamic Studies, Aligarh Muslim University, Aligarh, First Edition.</li> <li>Daniel, P., Bradshaw, M., Shaw, D. and Sidaway, J. (2000): Human Geography. Issues for the 21stCentury. Prentice Hall, London.</li> <li>Diddee, J. (ed.) (1990): Indian Geography, Institute of Indian Geographers, Pune, first edition.</li> <li>Dikshit, R. D. (2003): Geographical Thought. A Critical History of Ideas. Prentice-Hall of</li> </ol>					
India,New D 5. Dube, B. (	elhi. (in English 1967): Geograpl	and Hindi). ical Concepts in Ai	ncient India	, National Geogra	phical Society of

India, Varanasi

6. Getice, A., Getis, J. and Fellman, J. D. (2007): Introduction to Geography. 10th edition. McGrawHill, New York.

7. Hartshorne, R. (1959): Perspective on the Nature of Geography, John Murray, London

8. Harvey, D. (1969): Explanations in Geography. Arnold, London.

9. Holt-Jensen, A. (1980): Geography: Its History and Concepts. Harper and Row Publishers, London.

10. Husain, Majid. (2002): Evolution of Geographical Thought, Rawat Publications, Jaipur.

11. Johnston, R., Gregory, D., Pratt, G., Watts, M. and Whatmore, S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.

12. Johnston, R. and Sidaway, J.D. (2004): Geography and Geographers: Anglo-American Human Geography Since 1945, Arnold Publishers, London.

13. Rawling, E. and Daugherty, R. (eds.) (2005): Geography into the Twenty-first Century. 2nd edition. John Wiley and Sons, Chichester.

14. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company, London.

## MA/MSc 1st Year, Sem. I Course II (Theory)

Program/Class: MA Year: First Seme			ester: First	
	Subject:	Geography		
se Code: 0702T	Course	e Title: <b>Adv</b>	anced Geograph	y of India
ng Outcomes: -	On completion of the	nis course, l	earners will be ab	le:
erstand the physi erstand the natur erstand the physi	cal structure of Indi al and Man-made R ical, cultural, and ec	a and its Po esources an conomic cha	pulation Characte d their interrelation racteristics of Ind	eristics. onship. ia.
Credits: 4			Core Comp	ulsory
rks: 25(Internal)	) +75(External)	(N	Min. Passing N /inimum 25 Mark	Marks:33 as in External)
Total No. of L	ectures-Tutorials-P	ractical (in l	hours per week): I	L- 4/w
	Topics			No. of Lectures
Introduction. M structure and re Physiographic c the Indian Mon	10			
Population Cha pattern; Popula population; Sez Trends of urbar	aracteristics. Popula ation: distribution x and literacy diff ization; National po	ation growt and densit ferentials; E opulation po	th: trends and y; Ageing of Ethnic groups; blicy - 2000.	10
Agricultural Sc Land holdings, reforms; Infras seeds and farm revolutions.	12			
revolutions.Industrial Resource Base. Regional distribution and development potentials of mineral and power resources; New13industrial policy: Globalization and liberalization; Industrial complexes and industrial regions; Transport development: rail and road; Geographical regions; Detailed study of the Middle Ganga plain and Karnataka plateau region.				
	Class: MA Class: MA Class: MA Class: MA Control Control Co	'Class: MA       Year: Find Subject: Or Subject: O	'Class: MA       Year: First         Subject: Geography         ie Code:       Course Title: Adv         0702T       Course Title: Adv         ng Outcomes: - On completion of this course, I         erstand the physical structure of India and its Poerstand the natural and Man-made Resources and the physical, cultural, and economic chaterstand the physical, cultural systems and waterstand the physiographic divisions; Climate characteristic the Indian Monsoon; Forests: types, distribution         Population       Characteristics. Population growthe population; Sex and literacy differentials; Herneds of urbanization; National population population population; Sex and literacy differentials; Herneds of urbanization; National population population population; Sex and literacy differentials; Hereolutions, Industrial Scene. Agricultural characteristic Land holdings, land tenure, land consolida reforms; Infrastructure: irrigation, power, feaseds and farm technology; Green, white, bl revolutions.         Industrial Resource Base. Regional dis development potentials of mineral and power r industrial policy: Globalization and liberalization; Detailed study	Class: MA       Year: First       Sema         Subject: Geography         Subject: Geography         Course Title: Advanced Geograph         0702T       Course Title: Advanced Geograph         ng Outcomes: - On completion of this course, learners will be ab         erstand the physical structure of India and its Population Character         erstand the natural and Man-made Resources and their interrelation         erstand the physical, cultural, and economic characteristics of Ind         Credits: 4       Core Comp         rks: 25(Internal) +75(External)       Min. Passing N         (Minimum 25 Mark         Total No. of Lectures-Tutorials-Practical (in hours per week): I <b>Topics</b> Introduction. Making of India through geological times,         structure and relief; Drainage systems and watersheds;         Physiographic divisions; Climate characteristics: mechanism of         the Indian Monsoon; Forests: types, distribution and utilization.         Population Characteristics. Population growth: trends and         pattern; Population: distribution and density; Ageing of         population; Sex and literacy differentials; Ethnic groups;         Trends of urbanization; National population policy - 2000.         Agricultural Scene. Agricultural characteristics and trends;         Land holdings

1. Chapman, G. and Baker, K.M. (eds.) (1992): The Changing Geography of Asia. Routledge, London.

2. Farmer, B.H. (1983): Introduction to South Asia. Methuen and Company Ltd. and Company Ltd., London.

3. Ganguly, S. and Neil, DeVotta (eds.) (2003): Understanding Contemporary India. Lynne Reinner Publishers., Boulder and London.

4. Gole, P. N. (2001): Nature Conservation and Sustainable Development in India. Rawat Publications, Jaipur and New Delhi.

5. Johnson, B. L. C. (ed.) (2001): Geographical Dictionary of India. Vision Books, New Delhi.

6. Johnson, B.L.C. (1983): Development in South Asia. Penguin Books, Harmonsworth.

7. Khullar, D. R. (2006): India. A Comprehensive Geography. Kalyani Publishers., New Delhi. 144.

8. Krishnan, M. S. (1968): Geology of India and Burma. 4th edition. Higgin Bothams Private Ltd., Madras.

9. Nag, P. and Gupta, S. S. (1992): Geography of India. Concept Publishing. Company, New Delhi.

10. Sharma, T. C. (2003): India: Economic and Commercial Geography. Vikas Publication., New

Delhi.

11. Singh, J. (2003): India: A Comprehensive and Systematic Geography. Gyanodaya Prakashan,

Gorakhpur.

12. Singh, R. L. (ed.) (1971): India. A Regional Geography. National Geographical Society of India, Varanasi.

13. Spate, O.H.K., Learmonth, A.T.A. and Farmer, B. H. (1979): India and Pakistan. Methuen and Company Ltd. and Company Ltd., London.

14. Subbarao, B. (1959): The Personality of India. University of Baroda Press, Baroda.

15. Sukhwal, B.L. (1987): India. Economic Resource Base and Contemporary Political Patterns. Sterling Publication, New Delhi.

16. Tirtha, R. (2002): Geography of India. Rawat Publications., Jaipur and New Delhi.

17. Tiwari, R. C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad

18. Wadia, D. N. (1959): Geology of India. MacMillan and Company, London and Madras.

## MA/MSc 1st Year, Sem. I Course III (Theory)

Programme/Class: MA Ye			rst	Semes	ster: First	
	Subject: Geography					
Course Code: A110703T Course Title: Geomorphology - Theories a				and Concepts		
Course outco	mes: Students v	vill be able to unde	rstand;			
Under develo	stand core geor opment.	norphological theo	ries and pri	nciples to analyze	e landform	
and la	ndscapes.	ins in analyzing an	u merprem	ng geomorpholog	lical processes	
• Apply resear	modern and trach.	ditional geomorph	ological me	ethods to conduct	empirical	
Utilize	e theoretical kno	owledge in practica	l scenarios.			
	Credits: 4			Core Compul	sory	
Max. Ma	arks: 25(Internal	) +75(External)	(M	Min. Passing M inimum 25 Marks	arks: 33 in External)	
	Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit	Topics			No. of Lectures		
I	Meaning, Scop Geomorpholog Medieval and N	e and Fundamental y, Evolution of Gec Modern Period.	Concepts of morphic Ide	f eas during	10	
П	Geological Tin of Landscape I King.	ne Scale, Karst and Developed by W.M.	Coastal Lan Davis, W. I	dform, Models Penk and L.C.	10	
III	Earth Moveme Concept of Pla and Earthquake	nts- Endogenetic an te Tectonics, Mount es.	d Exogeneti ain Building	c Forces, g, Vulcanicity	13	
IV	Morphometric Altimetric Free Curve; Strahle and Density of	And Earinquakes.Morphometric Analysis of Relief Hypsometric Curve,Altimetric Frequency Curve, Histogram and ClinographicCurve; Strahler's Method of Drainage Ordering, Frequencyand Density of the Drainage.				
Suggested Readings:						
<ol> <li>Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: PrayagPustak</li> <li>Huggett, R.J. (2007): <i>Fundamentals of Geomorphology</i>. New York, U.S.A.: Routledge.</li> <li>Khullar, D.R. (2012). <i>Physical Geography</i>. New Delhi. India: Kalyani Publishers.</li> <li>Strahler, A. H. and Strahler, A N. (2001): <i>Modern Physical Geography</i> (4/E). New York, U.S.A.: John Wiley and Sons, Inc.</li> <li>Thornbury, W. D. (2004): <i>Principal of Geomorphology</i>. New York, U.S.A.: Wiley.</li> </ol>						

6. Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, New Delhi, India: Prentice-Hall of India 7. Kale V. S. and Gupta. A. 2001. Introduction to Geomorphology, Orient Longman Limited, Calcutta.

8. Keary, P. and Vine, M. 1997. Global Tectonics, 2nd edition, Blackwell Scientific Publications, Oxford.

9. King. C. A. M. 1972. Beaches and Coast, Edward Arnold (Publishers) Ltd., London.

10. Knighton, D.1998: Fluvial Forms and Processes: A New Perspective, Arnold, London. 11. Morisawa, M. 1985. Rivers, Longman, London.

12. Murthy, K.S. 1998. Watershed Management in India, 3rd edition, Wiely Eastern Ltd./ NEW AGE INTERNATIONAL Ltd., New Delhi

# MA 1st Year, Sem. I Course IV (Theory)

Progra	am/Class: MA	Year: Fi	rst	Seme	ester: First	
	Subject: Geography					
Cour A1	se Code: 10704T	Со	ourse Title: 1	Research Method	lology	
<ul> <li>Course Learning Outcomes:- On completion of this course, learners will be able to:</li> <li>Master the fundamentals of research design, including qualitative, quantitative, and mixed methods approaches.</li> <li>Develop proficiency in data collection techniques and data analysis tools specific to geographical research.</li> <li>Enhance the ability to critically evaluate research findings and methodologies in the field of geography.</li> <li>Prepare to conduct independent geographical research, applying ethical considerations and methodological rigour.</li> </ul>						
	Credits: 4			Core Comp	ulsory	
Max. Ma	arks: 25(Internal	) +75(External)	(N	Min. Passing N Iinimum 25 Mark	Min. Passing Marks:33 inimum 25 Marks in External)	
	Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit		Topics			No. of Lectures	
I	Introduction in Significance, T Geography, Li	Geographical Reservation Geographical Reservation Geographical Reservation of the second structure Survey, Reservation Survey,	earch: Conce les to Resea search Ethic	ept, rch in s, Limitations	12	
II	Research Desi Research Prob Sampling Tech	gn: Steps, Identifica lem; Research quest miques	tion and for tions, Aims	mulation of and Objectives;	10	
III	Data Sources a Data qualitativ Selection of sa PRA; Seconda	and Methods of Data we and quantitative, l mple, Questionnaire ry Data	a Collection Primary Dat e, Interview	: Nature of a: Field survey, , Observation,	13	
IV	Data Analysis: presentation ar	Processing of Data nd analysis; Referen	; tabulation cing.	, graphic	10	
Suggested Ro	eadings:					
<ol> <li>Ahuja, R. (2001). Research Methodology. Kolkata: Rawat Publication.</li> <li>Das, D. L. (2000). Practice of Social Research. New Delhi: Rawat Publication.</li> <li>David, F. E. (2000). Scientific Method For Ecological Research. U.K: Cambridge.</li> <li>Gibaldi, J., &amp;Achtert, W. S. (1989). MLA handbook for writers of research papers. New Delhi: Affiliated East West Press Private Limited.</li> <li>Harper, C., &amp; Marcus, R. (2007). Research for Development :A practical Guide . New Delhi: Vistaar Publication</li> </ol>						

6. Kothari, C. (2009). Research Methodology: Methods and Techniques. Kolkata: New Age

International Publishers.

- 7. Misra, H., & Singh, V. ... (1998). Research Methodology in Geography: Social and PolicyDimension. New Delhi: Rawat Publication.
- 8. Misra, R. (2001). Research Methodology: A handbook. New Delhi: Concept Publishing Company.
- 9. Mondal, R. Research Methodology for Social Scientist. Concept Publication.
- 10. Panneerselvam, R. (2009). Research Methodology. Learning private limited.
- 11. Raza, M. (1979). Survey of Research in Geography. Calcutta: Allied Publishers Private Limited.
- 12. Singh, K. (2007). Quantitative Social Research Methods. New Delhi: Sage Publication.
- 13. Somekh, B., & Lewin, C. (2005). Research Methods in the Social Science. New Delhi: Vistaar Publication

# MA 1st Year, Sem. I Course V (Practical)

Progra	am/Class: MA	Year: Fi	rst	Semester	r: First
Subject: Geography					
Course Code: A110705P Course Title: <b>Practical and Excursion</b>			n Tour		
Course Learn	ning Outcomes- Or	n completion of this	course, lear	rners will be able to:	
• L	earn fundamental	s of Surveying and	Projection	S.	
• T	The variation amor	ng geographical loc	ations.		
• Ir	nteraction with peo	ple with different na	atural and c	ultural settings.	
• S	tudy physical and l	human geography o	f area being	y visited.	
• L	earn to prepare tou	ir report.			
	Credits: 4			Core Compulse	ory
Max. I	Marks: 25(Internal)	) +75(External)	(N	Min. Passing Mar Ainimum 25 Marks in	ks:33 n External)
	Total No. of L	ectures-Tutorials-P	ractical (in l	hours per week): L-4	l/w
Unit		Topics			No. of Lectures
т	Plain Table Sur	vey: Intersection, R	esection (T	wo Point Problem,	
1	Three Point Prol	olem), Indian Patter	n Clinomete	er.	12
Projections: Meaning, Classification and Choice of Projection				ice of Projections;	
II	Construction an	d Characteristic of	Projection	s-Polyconic, Galls,	22
	Equatorial Zenii Mollweide and t	that Projection - Gibber	nomonic, Si as Internati	inusoidal,	
	Geographical E	xcursion. How to n	repare a fie	oliar rojection.	
	methods for pre	paring a tour report	t, methodol	ogy for research in	
III & IV	a field trip, vario	ous aspects of study	us aspects of study in a field trip, and preparation		
	of surveying in	a field trip. (22 lect	<mark>ures shall b</mark>	e taken before and	11
	during the field	trip by Tour Incharg	<mark>ge)</mark>		
*External	Assessment-				
a. 30 Ma b 30 Ma	rks for Practical E	and Excursion Re	nort		
c. 15 Ma	rks VIVA (On the	basis of Practical	and Excurs	ion Report)	
Suggested The follow	<b>Continuous Eva</b> ing shall be the gu	idelines and structu	re of the Ed	ucational tour;	
Geograph	ical Excursion Co	ommittee			
1. All facu	alty members shall	l organise geograph	nical excurs	ions as <b>'tour in-ch</b> a	arge' in rotation
accordi	ng to the department	ntal seniority list.			
2. The 'Ge	eographical Excurs	ion Committee' wil	l be headed	by the Principal of t	the colleges. The

tour in-charge shall act as convener of the committee and shall convene a meeting at the beginning of the session or semester. All other teachers of the department shall be members of the committee. Three meritorious students based on the last available examination result shall be invited by the tour in-charge to participate in the meetings as members of the committee.

- 3. Committee shall:
  - a) Review the tour plan.
  - b) Confirm that all arrangements are made before tour departure.
  - c) Listen to students' opinions and give recommendations to the tour in-charge accordingly.
  - d) Review the tour's academic nature and evaluate the day-wise tour plan and academic activity as submitted by the Tour in-charge.

## Structure of the tour party

- 1. For 10 or less than 10 students, one faculty member with one non-teaching staff shall accompany the Tour party. For 11 to 20 students, two faculty members with one non-teaching staff shall accompany the Tour party. For 21 to 35 students, three faculty members with one non-teaching staff shall accompany the Tour party. If two/three faculty members are required for the tour, the second and third faculty members shall be selected on the recommendation of the tour in-charge. If the number of students is more than 35, a separate tour party shall be constituted in a similar manner.
- 2. If female students are also participating in the tour, one of the staff must be female (teaching or non-teaching). In case of unavailability of female staff to accompany the tour from the subject (Geography), the head of the Geographical Excursion Committee can nominate any other female teaching or non-teaching staff of the college.

# **Responsibility of tour in-charge**

- 1. The tour shall last at least 6 days at a location with inter-region variation.
- 2. The tour in-charge shall submit tentative day-wise activity reports in advance to the head of the Geographical Excursion Committee.
- 3. The tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc, in a location where the tour is being planned for the following activities;
  - a) Interaction of students.
  - b) Lectures on the area's various local physical and cultural attributes by the experts.
  - c) Local visits with faculty members who understand the area academically.
- 4. Lectures by tour in-charge on physical and human characteristics of the area being visited for an educational tour.
- 5. Survey students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS, etc.
- 6. Questionnaire survey on various socio-cultural or any other aspects. The questionnaire must be prepared in advance and shall be shared during the Geographical Excursion Committee meeting.
- 7. Tour in-charge shall collect undertaking from all students regarding any misshaping or casualty, which shall be counter signed by their guardian.
- 8. The tour in-charge will prepare a list of students accompanying the tour with their information like mobile number, address, guardian contact information and one recent colour photo. One copy will also be submitted to the college Principal.

- 9. Teachers shall always try to minimise tour expenditure of students by;
  - a) Using concession train reservations and avoiding buses if possible.
  - b) Making stay arrangements for students in advance in youth hostels/lodges/guest houses, etc.
  - c) Try to visit a few important locations only with the objective of spot study and avoiding unnecessary travel for sightseeing.
- 10. After the completion of the tour, there shall be a presentation by students regarding learning outcomes and experiences under the supervision of the tour in-charge. The presentation shall be attended by Geographical Excursion Committee members along with other faculty members, staff, students, etc.
- 11. All students shall submit a tour report under the supervision of the Tour in-charge for evaluation. The tour report shall portray all activities conducted and places visited for the purposes of the study.
- 12. In case of any incident/injury where one or more than one student can't join the tour party on the return journey. One teaching/non-teaching staff member shall stay with the student until the student's guardian arrives or an alternative arrangement is not made by the college. In casethe tour in-charge stays, the other teacher/staff member shall act as tour in-charge for the remaining tour period.TA, DA and other expenses shall be paid by the college for excess days of stay.

# **Exemption of Students from Tour**

1. Tour can be exempted in very special circumstances by the recommendation of the Geographical Excursion Committee. Exempted students will prepare local tour reports based on his/her own local tour visits. The report shall be prepared under the supervision of the tour in-charge.

# TA, DA and other expenses

The TA, DA and other expenses of teachers and attendants shall be met out by the college as admissible to their cadre as per government rules.

# MA/MSc 1st Year, Sem. II Course I (Theory)

Program/Cla	ass: MA	Year: First	First Semester: First				
Subject: Geo	ography		L				
Course Code	Course Code: A110801T Course Title: Regional Planning and Development						
Course Lear. • To u: • To u: their	ning Outcomes:- nderstand the Cor nderstand the natu interrelationship.	On completion of the ncept, Nature, Meani aral and Cultural Cha	is course, learners will be able ng and Scope of Human Geog anges in and around the Huma	: graphy in Environment and			
Credits: 4			Core Compulsory				
Max. Marks	: 25(Internal) +75	(External)	Min. Passing Marks: 33 (Min External)	nimum 25 Marks in			
Total No. of	Lectures-Tutoria	ls-Practical (in hours	s per week): L- 4/w				
Unit		Торіс	S	No. of Lectures			
Ι	Concept of Reg Sustainable dev	Concept of Regional Development: Changing paradigm, Sustainable development.					
II	Indian Though India and NITI spatial patterns	Indian Thoughts of Development: Ideas of Gandhi, Census of India and NITI Aayog. Identification of Regional Disparities: spatial patterns and temporal trends.					
III	Regionalization programmes, a	n for Sustainable De gro - climatic region	velopment: area development s, metropolitan regions.	12			
IV	Regional devel economic zone planning.Huma	opment strategies in s, a watershed appro an Development Inde	clude growth centres, special bach, and micro- level ex.	13			
Suggested F	Readings:						
1. Boudevi Edinbur 2. Chand.M	ille,J.R (1966): Pr gh. A, Puri.V.K, (198	oblems of Regional 3): Regional Plannir	Economic Planning, Edinburg	gh University Press, New Delhi.			
<ol> <li>Freeman</li> <li>Gill,R.(</li> <li>Glasson</li> <li>Gottman</li> <li>Hall, P.</li> </ol>	<ol> <li>Freeman, T. (1974). Geography and Planning. London: Hutchinson University Library.</li> <li>Gill,R.(1975):Economic Development :Past and Present, Prentice-Hall of India,New Delhi.</li> <li>Glasson,J.(1975): An Introduction to Regional Planning, Hutchinson and Co.,London.</li> <li>Gottman, J., &amp; Harper, R. A. (1967). Metropolis on The Move. New York: John Willy &amp; Sons.</li> <li>Hall, P. (1974). Urban and Regional Planning. New Zealand: Penguin Books.</li> </ol>						
8. Hall, P. Husain, M Delhi	(2002). Orban an . (1994). Regiona	l Geography. New D	Delhi: Anmol Publication Pvt.	Ltd. Company, New			

# MA/MSc 1st Year, Sem. II Course II (Theory)

Programme/Class: MA Year: First			rst	Semest	er: Second
		Subject: C	leography		
Cour A110	se Code: 0802T		Course T	itle: Climatology	
<ul> <li>Course outcomes: Students will be able to understand:-</li> <li>Understand the fundamental principles and concepts of climatology, including atmospheric processes and climate systems.</li> <li>Analyze climatic data and models to interpret patterns and predict future climatic conditions.</li> <li>Apply climatological knowledge to assess the impacts of climate on various environments and societies.</li> </ul>					
	Credits: 4			Core Compu	lsory
Max. Ma	arks: 25(Internal)	) +75(External)	(M	Min. Passing M inimum 25 Marks	arks:33 in External)
	Total No. of Le	ectures-Tutorials-Pra	actical (in h	ours per week): L-	- 4/w
Unit		Topics			No. of Lectures
I	Definition and Scope of Climatology, Heat Balance of the Earth; Origin of Monsoon - Recent Concepts.			10	
п	Critical Apprai Thornthwaite a	sal of Climatic Cl nd Trewartha.	assification	s by - Koppen,	11
III	Applied Climat Natural Vegeta House Types &	tology - Climate and tion, Climate and A c Settlement.	l Landform	s, Climate and Climate and	12
IV	Human Impact on Climate - Green House Effect, Ozone Depletion. Or12Regional Climatology at Macro, Meso, Micro level; Urban Climatology; Heat Island; Weather Forecasting.12				12
Suggested Re	eadings :-				
<ol> <li>Barry, R.G. and Chorley P J.; Atmosphere, Weather and Climate, Routledge, London and New York, 1998.</li> <li>Critchfield, J H.: General Climatology, Prentice Hall, India, New Delhi, 1993</li> <li>Das, P.K : Monsoons, National Book Trust, New Delhi, 1987.</li> <li>Fein, J.S. and Stephens, P.N.: Monsoons, Wiley interscience, 1987.</li> <li>India Met. Deptt Climatological Tables of Observations in India. Govt, of India, 1968.</li> <li>Lai, D.S.: Climatology, Chaitanya Publications, Allahabad, 1986.</li> <li>Lydolph, PE : The Climate of the Earth, Rowman, 1985.</li> </ol>					

8. Menon, PA. Our Weather, N.B.T., New Delhi, 1989.

9. Peterson, S: Introduction to Meteorology, Me Graw Hill Book, London, 1969.

10. Robinson, P.J. and Henderson S.: Contemporary Climatology, Henlow, 1999.

11. Thompson, R D. and Perry, A (ed).: Applied Climatology, Principles and Practice,

Routledge, London, 1997.

## MA/MSc 1st Year, Sem. II Course III (Theory)

Program/Class: MA Y			rst	Seme	ster: Second		
	Subject: Geography						
Course Code: Course Title: OCEANOGRAI			РНҮ				
Course Learn	ing Outcomes- C	n completion of thi	s course, lea	arners will be able	e to:		
<ul> <li>Understand the fundamental principles of physical, chemical, biological, and geological oceanography.</li> <li>Analyse marine and coastal processes using advanced oceanographic methods and technologies.</li> <li>Assess the impact of human activities and natural phenomena on oceanic and coastal environments.</li> <li>Apply oceanographic knowledge to marine resource management, conservation, and policy development.</li> </ul>							
	Credits: 4			Core Comp	ulsory		
Max. Ma	arks: 25(Internal)	+75(External)	(N	Min. Passing N Ainimum 25 Mark	Marks:33 ks in External)		
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w							
Unit		Topics			No. of Lectures		
Ι	Oceanography of land and wa of Pacific, Atla	- nature, scope and tter, Ocean bottom ntic and Indian Oce	development topography ean.	nt, distribution , bottom relief	12		
П	Characteristics salinity - comp sea water.	of Ocean water: ter osition, source and	nperature - distribution	distribution, , density of	10		
III	Movement of c characteristics, Ocean, Waves,	cean water, current currents of Atlantic tides and theories of	s causes and c, Indian and of its origin.	d its d Pacific	12		
IV	Ocean deposits and consequent Pollution and I	s & coral reefs, Se ces, Importance of I ts Effects.	ea Level Cl EEZ and CF	hange: Causes RZ; Marine	11		
Suggested Rea	adings :-						
<ol> <li>Davis, R.J</li> <li>Brown, Iowa</li> <li>Day, T. (20)</li> <li>Erickson,</li> <li>File, Inc., Ne</li> <li>Garrison, T</li> <li>Ilyin, A.V</li> <li>Evans, I.S., I</li> <li>in Geomorph</li> </ol>	A. (1986): Oceans, Ch J. 2003): Marin W York (2009): Essent (2003): Evolut Dikau, R. Tokuna ology: Internatio	anography - An Int elsea House, New Y e Geology: Explori ials of Oceanograph ion of the Ocean I aga, E., Ohmori, H.	roduction of fork ing the New y, Brooks/O Floor Morp and Hirano	of the Marine Env v Frontiers of the Cole, Belmont, Ca hostructure - Act , M. (eds.) Conce	vironment, Win C. e Ocean, Facts on difornia tualistic Model, in epts and Modelling		

6. King, C.A. (1962): Oceanography for Geographers, Edward Arnold, New York

7. Pinet, P.R. (2009): Invitation to Oceanography, Jones and Bartlett Publishers, Sudbury, Massachusetts

8. Robert, C.M. (2009): Global Sedimentology of the Ocean: An Interplay between Geodynamics and the Palaeo environment, Elsevier, Amsterdam

9. Stahler, A.N. and Stahler A.N. (1997): Geography and Man's Environment, John Wiley and Sons, New York

10. Thorpe, S.A., Steele, J.H., Turekian, K.K. (eds.) (2009): Elements of Physical Oceanography, Academic Press, London

11. Thurnman, H.V. (1978): Introduction to Oceanography, Charles E. Merrill Pub. Co., London

12. King, C.A.M, Oceanography

13. Suredrup, H.V, The Ocean

14. Hukku and Sharma, R.C: Oceanography for Geographers.

15. Lai, D.S.: Climatology and Oceanography.

## MA/MSc 1st Year, Sem. II Course IV (A) (Theory)

Program	Program/Class: MA Year: First Seme			ester: Second	
		Subject: 0	Geography		
Course Code: A110804T Course Title: <b>DISASTER MANAGE</b>				GEMENT	
<ul> <li>Course Learning Outcomes :- On completion of this course, learners will be able to:</li> <li>Understand the fundamentals of disaster risk reduction, emergency response, and recovery processes.</li> <li>Analyse vulnerabilities and hazards to develop effective disaster preparedness and mitigation strategies.</li> <li>Evaluate the impact of disasters on communities and environments to improve resilience and adaptation measures.</li> <li>Apply principles of disaster management in planning, policy-making, and community engagement to reduce disaster risks.</li> </ul>					
	Credits: 4			Core Com	pulsory
Max. Ma	arks: 25(Internal)	) +75(External)	(N	Min. Passing <u>Ainimum 25 Mai</u>	Marks:33 ks in External)
	Total No. of L	ectures-Tutorials-P	ractical (in l	nours per week):	L- 4/w
Unit		Topi cs			No. of Lectures
Ι	Disasters: Defi Environmental	inition and Concept Hazards and Disast	, Types of ers		8
II	Man Induced h Landslides, Cy and its Distribu	nazards and Disaster clones, Floods, Dro ution & Mapping.	Earthquake	e, Tsunami, tification	11
III	and its Distribution & Mapping.Man-made Disasters: Causes, Impact, Distribution and Mapping, Response and Mitigation to Disasters.Mitigation and Preparedness, NDMA and NIDM;Indigenous Knowledge and Community-based DisasterManagement, Dala and Don'ts During and Past Disasters				14
IV	Harnessing Information and Technology: Application of         GIS, G.P.S and Remote Sensing in Disaster Management.         National Disaster Management Plan				12
Suggested Rea	ndings: -				
<ol> <li>Governme Affairs.</li> <li>Singh, Sav</li> <li>Kapur, A. Publication.</li> </ol>	nt of India. (201 endra (2019) Pry (2010). Vulnera	1). Disaster Manage yavaran Bhugol, Pra able India: A Geogr	ement in Ind valika Publ aphical Stu	dia. Delhi, India: ication, Allahaba dy of Disasters.	Ministry of Home ad Delhi, India: Sage

4. Singh, Savendra (2019) Apada Prabandhan, Pravalika Publication, Allahabad.

5. Ramkumar, M. (2009). Geological Hazards: Causes, Consequences and Methods of Containment. New Delhi, India: New India Publishing Agency.

6. Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC

7. Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability.

8. Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health9. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.10. The Climate Change Policy Framework: Global Initiatives UNFCCC and COPs; National and Local Action Plan on Climate Change.

11. Government of India. (2008). Vulnerability Atlas of India. New Delhi, India: Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India

#### MA/MSc 1st Year, Sem. II Course IV (B) (Theory)

Program/Class: MA Year: Fin			rst	Semester: Second			
	Subject: Geography						
Cour A1	Course Code: A 110805T Course Title: SOCIAL GEOGR				АРНҮ		
Course Learn	ing Outcomes :-	On completion of the	nis course, l	earners will be ab	le to:		
<ul> <li>Understand the diverse social structures, cultural patterns, and spatial distributions across India.</li> <li>Analyze the effects of socio-economic factors on spatial interactions and regional developments within India.</li> <li>Evaluate the impact of historical and contemporary social policies on the geographical distribution of communities.</li> <li>Apply social geographic concepts to address issues like urbanization, migration, and regional disparities in India.</li> </ul>							
	Credits: 4			Core Comp	ulsory		
Max. Ma	Max. Marks: 25(Internal) +75(External) Min. Passing I (Minimum 25 Marl				Marks:33 ks in External)		
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w							
Unit		Topics			No. of Lectures		
Ι	Social Geograp society - a stud centrifugal for Chota - Nagpu curse or a boon	phy of India: Nature ly of unity in divers ces, Aryavarta, Dak r axis, regional iden 1.	e and Scope, ity, Centripo shinpatha, N titities and re	, Indian etal and Narmada egionalism: A	12		
п	Curse of a boon.Historical Bases of Socio cultural status of India: Elements of development in socio cultural regions; Sixteen Mahajanapads and Mughal Empire: Socio-cultural changes and unity of india, Impact of Mewar Kingdom and British Empire on the hearts of Indian People for the quest of Independence14			14			
III	Geographical factors explaining the emergence of different religions in India.       8				8		
IV Suggested Res	Geographic and Different ancie morphology, V promoting the	alysis of caste and the ent languages, caste Various relations and unity of India.	ribe, Develo and settlem l mutual cor	opment of ent mmunication	11		

1. Ahmad, Aijazuddin., 1999, Social Geography, Rawat Publication, New Delhi

2. Ahuja, Ram, 1999, Society in India, Rawat Publication, Delhi

3. Ahuja, Ram, Social Problems in India, Rawat Publication, New Delhi

4. Banerjee Guha, S. ed. (2004) Space, Society & Geography, Rawat Publication, Delhi

5. Bardhan, P.,2003, Poverty, Age Structure & Political Economy in India, Oxford University Press

- 6. Biswas, A.K., Jortajada, C., 2006, Appraising Sustainable Development, Oxford University
- 7. Blij. H.J., Murphy. Alexander B, Human Geography, 1807, Wiley Publishers
- 8. Bottomore, T.B., Sociology, Unwin University Books
- 9. Chaudhuri Sachin, Society and Change, Oxford University Press, Bombay
- 10.Daniels, P., Bradshaw, M., Sidaway, J., 2003, Human Geography, Pearson Education (Singapore) Pte. Ltd., Delhi.
- 11.Dhanagare, D.N.,2004, Themes and Perspectives in Indian Sociology, Rawat Publication, Delhi
- 12. Dohrs, I., Sommers, L., 1967, Cultural Geography, Thomas Crowell Company
- 13. Fellmann, J.D., Getis, A., Getis, J.,2000, Human Geography- Landscape of Human Activity, McGraw Hill

# MA/MSc 1st Year, Sem. II Course IV (C) (Theory)

Program	n/Class: MA Year: First Semester: Second			ster: Second	
Subject: Geography					
Course Code: Course Title: POLITICAL GEOGRAPHY				GRAPHY	
Course Learn	ing Outcomes :-	On completion of the	his course, l	earners will be ab	le to:
• Unders	tand key concept	ts and theories in po	litical geogr	raphy, including to	erritoriality,
<ul> <li>soverei</li> <li>Analyze</li> </ul>	gnty, and geopol e the influence o	itics. f geographical facto	ors on politi	cal behaviours, bo	oundaries, and power
dynami	CS.	litical decisions on	enatial relati	ionships and territ	orial conflicts
Assess     Apply I     internat	knowledge of po tional relations, a	litical geography to and conflict resoluti	real-world on.	issues such as ele	ctoral geographies,
	Credits: 4			Core Comp	ulsory
Max. Ma	arks: 25(Internal)	) +75(External)	(N	Min. Passing N Ainimum 25 Mark	Marks:33 (s in External)
	Total No. of L	ectures-Tutorials-P	ractical (in l	hours per week): l	L- 4/w
Unit		Topics			No. of
	Definition ar	nd Historical De	velopment	of Political	Lectures
Ι	Geography, R Geography, D Geography.	ecent Trends and istinction between	Developmer Geo-Politics	nt in Political s and Political	11
п	Definition and Components of State, Definition of Nation and Nation State, Geographical factors of state: Physical, spatial, Human & Economic. Definition of Boundary and Frontiers and their Classification. Heartland and Rimland       12				12
ш	Definition and Components of State, Definition of Nation and Nation State, Geographical factors of state: Physical, spatial, Human & Economic. Definition of Boundary and Frontiers and their Classification			12	
IV	Indian concepts of geopolitics towards the approach of "Vasudhaiva Kutumbakam". Geopolitical significance of the Indian Ocean; Role of third world countries; Regional co- operation; Geopolitical study of South-East Asia and South Asia. Politics of World Resources10			10	
<ul> <li>Suggested Readings :-</li> <li>1. Agnew, John (1997) Political Geography: A Reader, Arnold, London</li> <li>2. Adhikari, Sudeepta (2002) Political Geography, Rawat Publications, New Delhi</li> <li>3. Pounds, Norman J.G. (1963) Political Geography, Mc Graw Hill Book Company</li> <li>4. Husain Majid (1994) Political Geography, Anmol Publications Pvt. Ltd.</li> <li>5. Cox, Kevin R. (2002) Political Geography: Territory, State, and Society, BlackwellPublishers,</li> </ul>					
Oxford.				-	

6. Shrivastava, R.M. – Rajnitik Bhoogol, Allahabad.

- 7. Chauhan, P.R.: Rajnitik Bhoogol, Gorakhpur.
- 8. Dixit, S.K.: Rajnitik Bhoogol, Gorakhpur.
- 9. Dixit, S.K. Electoral Geography, Varanasi.
- 10. Dwivedi, R.L.: Political Geography, Allahabad.

# MA 1<sup>st</sup>Year, Sem. II Course V (Practical)

Program	/Class: MA	Year: Fi	rst	Seme	ster: Second
Subject: Geography					
Course Code: A110807P Course Title: Statistical Methods and Cartography				Cartography	
Course Learnir	ng Outcomes:- O	n completion of this	s course, lea	arners will be able	to:
<ul> <li>Apply advanced cartographic techniques and tools for creating and interpreting maps.</li> <li>Understand and apply statistical methods to analyse and visualize geographical data effectively.</li> <li>Develop skills in integrating cartographic visualization with statistical analysis to address complex spatial questions.</li> <li>Apply cartographic and statistical knowledge to real-world geographic problem-solving and decision-making.</li> </ul>					
	Credits: 4			Core Comp	ulsory
Max. Ma	Max. Marks: 25(Internal) +75(External) Min. Passing M (Minimum 25 Mark				Marks:33 ts in External)
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit		Topics			No. of Lectures
I	Statistical Methods: Collection, Processing and Management of Data; Measurement of Scale, Concept and Methods of Sampling; Correlation - Pearson's, Spearman's; Regression Analysis and Confidence Limit, Test of Significances Chi aguere and Student T test			12	
п	Significance; Chi-square and Student 1-test.Z score, Lorenz Curve and Gini's Coefficient, Location Quotient, Coefficient of Localization & Localization Curve, Nearest Neighbour Analysis, Network Analysis, Graph Techniques and Degree of Connectivity, Shape Analysis, Gravity Model Retail Gravitation				12
III	Cartograms - Climatic Diagrams, Rainfall Dispersion Diagram; Water Budget, Ergo-graph Climatic and Circular, Multiple Dot, Spherical Diagram, Traffic Flow, Land Utilization Maps			10	
IV	Practical Reco	ord & Viva-Voce			11
<ul> <li>Suggested Readings:</li> <li>1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London</li> <li>2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.</li> <li>3. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.</li> <li>4. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition.</li> <li>5. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,.</li> </ul>					

6. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.

# MA 1<sup>st</sup>Year, Sem. II Course VI (Project)

Program/Class: MA	Year: Fin	rst	Semester: Second		
	Subject: G	eography			
Course Code: A110808R		Course Ti	tle: Project Report		
<ul> <li>Course Learning Outcomes:- O</li> <li>Identify significant gap research questions.</li> <li>Design a robust research</li> </ul>	<ul> <li>Course Learning Outcomes:- On completion of this course, learners will be able to:</li> <li>Identify significant gaps in existing geographic knowledge and formulate relevant, feasible research questions.</li> <li>Design a robust research methodology that employs appropriate geographic techniques to</li> </ul>				
<ul> <li>address the identified c</li> <li>Execute effective data tools and software spec</li> <li>Produce a scholarly res and implications, and e</li> </ul>	<ul> <li>address the identified questions.</li> <li>Execute effective data collection and analysis, demonstrating proficiency in using advanced tools and software specific to geographic research.</li> <li>Produce a scholarly research report that clearly communicates the study's findings, methods, and implications, and effectively present the research in a professional academic setting.</li> </ul>				
Credits: 8			Core Compulsory		
Max. Marks: 25(Internal) +75(External) Min. Passing Marks:40 (Minimum 30 Marks in External)			Min. Passing Marks:40 Iinimum 30 Marks in External)		
	Project Repor	rt Guideline	s		
<ul> <li>Project Report Guidelines</li> <li>In the First semester, the Research Project supervisor shall be assigned to students.</li> <li>Research projects shall be allotted by the departmental committee on the basis of the student's research interests and the specialization of a faculty member.</li> <li>In the Second semester, a synopsis of the Research Project shall be submitted by the student and will be approved by the departmental committee.</li> <li>Students will continue to work on assigned research projects during the Third Semester under the guidance of the Supervisor.</li> <li>Students will submit their final dissertations in the fourth semester.</li> <li>Synopsis Must Include the following; <ol> <li>Title of Research Project</li> <li>Table of Content</li> <li>Introduction</li> <li>Review of the Literature</li> <li>Study Area</li> <li>Amis and Objective</li> </ol> </li> <li>Hypothesis (If required)</li> <li>Methodology</li> <li>Tentative Chapterisation</li> <li>Conclusion</li> </ul>					

# MA 2<sup>nd</sup>Year, Sem. III Course I (Theory)

Program	gram/Class: MA Year: First Semes			emester: Second	
		Subject: (	Geography		
Cou A1	Course Code: A110901T Course Title: Advance Remote Sensi			ensing and GIS	
Course Learn	ning Outcomes- (	On completion of thi	s course, learners will be	able to:	
<ul> <li>Learn advanced techniques in remote sensing and GIS for spatial data analysis.</li> <li>Enhance capability to interpret complex geospatial data and environmental patterns.</li> <li>Apply GIS and remote sensing tools to address and solve geographical and environmental issues.</li> <li>Innovate in using GIS and remote sensing technologies for sustainable planning and management.</li> </ul>					
	Credits: 4		Core Co	ompulsory	
Max. M	larks: 25(Internal	) +75(External)	Min. Passi (Minimum 25 M	ng Marks:33 Iarks in External)	
	Total No. of L	ectures-Tutorials-P	ractical (in hours per wee	k): L- 4/w	
Unit		Topics		No. of Lectures	
I	I Remote sensing principles, physics of electromagnetic radiation and its interaction with the atmosphere and earth surface materials.			10	
II	Satellite platforms, Sensor technologies and their applications, with an emphasis on high-resolution and hyperspectral imaging systems.			11	
ш	Acquiring and processing, im Emerging tech LiDAR, and an	e- , 12			
IV	Basic concepts geographic pro RS and GIS ap environmental public health.	5. 12			
Suggested R	eadings:				
<ol> <li>Choniyal</li> <li>Pustak Bhay</li> <li>Lillesand</li> <li>edition. John</li> <li>Campbel</li> <li>London.</li> <li>Bhatta, B.</li> <li>Noc Brith</li> </ol>	, D D, (2016) Su yan, Allahabad. I, T.M. and Kief n Wiley and Sons I, J.B. (2002): In . (2010): Remote	idur Samvaden evan fer, R.W. (2000): I , New York ntroduction to Rem Sensing and GIS, O	m Bhogolic Suchna Prar Remote Sensing and Im tote Sensing. 5th edition xford University Press, N	hali ke sighant, Sharda hage Interpretation. 4 <sup>th</sup> h, Taylor and Francis, New Delhi.	

Private Limited.

- 6. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.
- 7. Campbell, J. B. 1996: Introduction to Remote Sensing, 2nd edition, Taylor & Francis, London.

8. Chaisman, N. 1992: Exploring Geographical Information Systems, John Wiley and Sons Inc., New York.

9. Lillesand, T.M. and Kiefer, R. W. 1994: Remote Sensing and Image Interpretation, 3rd edition, John Wiley and Sons, New York.

10. Marcolongo, B. And Mantorani, F. 1997: Photogeology: Remote Sensing Application in Earth Science, Oxford and IBH Pub. Pvt. Ltd., New Delhi.

11. Rajan, M.S. 1995: Space Today, 2nd edition, National Book Trust, New Delhi.

Rao, U.R. 1996: Space Technology for Sustainable Development, Tata McGraw-Hill, NewDelhi 12. Sabins, F.F., 1997: Remote Sensing: Principles and Applications, 3rd edition, W.H. Freeman

& Company, New York.

# MA 2<sup>nd</sup>Year, Sem. III

# Course II (Theory)

Programn	Programme/Class: MA Year: Second Semester			ster: Third	
Subject: Geography					
Cour A11	se Code: 0902T	Со	urse Title: <b>P</b>	opulation Geogr	aphy
<ul> <li>Course outcomes: Students will be able to understand:- Understand demographic concepts and analyze population distribution, composition, and change from a geographical perspective.</li> <li>Examine the spatial aspects of population dynamics, including migration patterns, urbanization, and demographic transitions.</li> <li>Assess the impacts of population changes on resource use, urban development, and environmental sustainability.</li> <li>Apply demographic analysis and spatial techniques to plan and manage population-related issues in diverse settings.</li> </ul>					
	Credits: 4			Core Compu	llsory
Max. Ma	Max. Marks: 25(Internal) +75(External) Min. Passing M (Minimum 25 Marks)			Marks:33 (s in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit	Topics			No. of Lectures	
I	Nature, scope, significance of population Geography and its recent trends. Sources of population data: The Census, Vital Registration and Other Sources			12	
п	Registration and Other Sources.Population Dynamics: Growth, fertility and mortality measurement. Theories of Growth: Malthusian theory, Social Capillary and demographic transition theory. Migration: types, determiners and consequences, patterns of international migration, Theories of Migration: Ravenstein and Lee's Laws				12
III	Population Composition/ Characteristics: Sex Composition- measures, determinants and distribution. Declining Sex Ratio, Age composition: various systems of age groupings, determinants and distribution; population ageing, Occupational structure, determinants of the workforce, types of workers.			11	
IV	Population and Optimum popu Resource regio	l resources: Overpop llation, Ackerman's ns, National Popula	pulation, Ur scheme of l tion Policy	derpopulation, Population- (NPP), 2000.	10

#### **Suggested Readings:**

1. Ararwala and Sinha, 1977, India's Population Problems, Tata McGraw-Hill Publishing Co. Ltd., New Delhi

2. Bird, J., 1977: Centrality And Cities, Routledge, London.

3. Borooah, G.L., 1938, Population Geography of Assam, Mitali Publications.

4. Garnier, J. Beaujeu, 1966, Geography of Population, Commonwealth Printing Press Ltd.

5. Hassan, M. Izhar, 2005, Population Geography, Rawat Publications.

6. Singh, Ram Dayal, 1985, Population Structure of Indian Cities, Inter-India Publ., New Delhi.

7. Bhende, A. and Kanitkar, T. (2000): Principles of Population Studies, Himalaya Publishing House, Mumbai.

8. Chandna, R.C. (2010): A Geography of Population, Kalyani Publisher, New Delhi.

9. Clarke, J.I. (1992): Population Geography, Pergamon Press, Oxford.

10. Hassan, M.I. (2005): Population Geography, Rawat Publication, Jaipur.

11. Hornby, F. William and Jones, M. (1987): An Introduction to Population Geography,

Cambridge University Press, Cambridge

# MA 2<sup>nd</sup>Year, Sem. III

# Course III (Theory)

Programm	ne/Class: MA	Year: Sec	ond	Semes	ster: Third
	Subject: Geography				
Cour A110	Course Code: A110903T Course Title: Economic and Resource				Geography
Course outcon	Course outcomes: Students will be able to understand :-				
<ul> <li>Under influer</li> <li>Analyz</li> </ul>	<ul> <li>Understand the spatial distribution of economic activities across India and the factors influencing these patterns.</li> <li>Analyze regional disparities in economic development and the role of governmental and</li> </ul>				
non-go • Evalua marke • Apply	<ul> <li>non-governmental policies in shaping economic landscapes.</li> <li>Evaluate the impact of globalization on India's economy, including changes in labor markets, industries, and trade.</li> </ul>				
differe	ent regions of Inc	lia.			
Credits: 4 Core Compulsory				lsory	
Max. Marks: 25(Internal) +75(External) Min. Passing Ma (Minimum 25 Marks)			larks:33 in External)		
	Total No. of Le	ectures-Tutorials-Pr	actical (in h	ours per week): L	- 4/w
Unit		Topics			No. of Lectures
I	Nature, scope geography. Co Nature, man an	and significance of oncepts of resource ad culture. Classifica	f economic es and thei ation of reso	and resource r relation with ources.	12
п	Biotic and abiotic resources, Energy resources. Classification of Economic Activities, Factors influencing Location of Industry.			12	
IIIResource conservation and resource regions, Industrial Regions in India. Theories and Models of Economic and Recourse Geography.			10		
IV	Sustainable dev resources. Impa its impact on th	velopment of resour act of globalisation ae environment.	cces. Politic on the India	s of the world n economy and	11

#### **Suggested Readings:**

 Bryson, J., Henry, N., Keeble, D. and Martin, R. (eds.) (1999): The Economic Geography Reader: Producing and Consuming Global Capitalism. John Wiley and Sons, Inc, New York.
 Clark,G. L., Gertler, M. S. and Feldman, M. P. (eds.) (2000): The Oxford Handbook of Economic Geography. Oxford University Press, USA.

3. Coe, N. (2007): Economic Geography: A Contemporary Introduction. Blackwell Publishers, Inc., Massachusetts.

4. Gautam, A. (2006): Aarthik Bhugol Ke MoolTattava, Sharda Pustak Bhawan, Allahabad.

5. Guha, J. S. and Chattoraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata.

6. Hanink, D. M. (1997): Principles and Applications of Economic Geography: Economy, Policy, Environment. John Wiley and Sons, Inc, New York.

7. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall

8. Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications, London.

9. Knowles, R, Wareing, J. (2000): Economic and Social Geography Made Simple, Rupa and Company, New Delhi.

10. Sokal, Martin 2011. Economic Geographics of Globalisation: A short Introduction. Cheltenham, UK : Edward Elgar.

11. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi,

# MA 2<sup>nd</sup>Year, Sem. III Course IV(A) (Theory)

Programm	e/Class: MA Year: Second Semester: Third				ter: Third
Subject: Geography					
Cours A110	Course Code: A110904T Course Title: Marketing Geogra			aphy	
Course outcom	nes: Students w	ill be able to under	stand:-		
The cour Disaster     Understa Resource	<ul> <li>The course aim is to give basic understanding of concept Environment, Climate Change and Disaster Management.</li> <li>Understanding of the concept of appraisal and conservation of Environment and Natural Resources.</li> </ul>				
• It will he • This cour	rse shall introdu	ce the basic concept	it various Ir s related to	npacts of Climate	Change.
• This pap	er shall help in u	inderstanding Globa	l effort in fi	eld of disaster ma	nagement.
	Credits: 4			Core Compu	lsory
Max. Ma	Max. Marks: 25(Internal) +75(External) Min. Passing Ma (Minimum 25 Marks)			arks:33 in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w				4/w	
Unit	Topics			No. of Lectures	
Ι	Marketing Geography: Definition, scope and significance. Growth and development, Approaches of Study: Commodity, Spatial, Social, Economic, Behavioral. Application of Planning: Market, Urban, Agriculture.			11	
п	Classification, structure and hierarchy of Market, Christaller and Losch Model of Market Locations, Reilly's Models of Interaction and Trade Area Delimitation.			rket, Christaller lly's Models of	12
IIILocal, Regional, National and International Markets, Factors of Development of Trades. World Trade Organization, World Trading Zone: SAFTA (South Asian Free Trade Association), NAFTA (North Atlantic Free Trade Association).			12		
INIndian Agricultural Marketing, Regulated, Government Purchase Centers, Informal Marketing.			10		
Suggested Read 1. Berry, B.J.L. 2. Saxena, H.M. 3. Skinner, G.W	Suggested Readings: - 1. Berry, B.J.L. – Geography of Market Centers and Retailing, Prentice Hall. 2. Saxena, H.M. – Marketing Geography, Jaipur. 3. Skinner, G.W. – Marketing and Social Structure in Rural China, Journal of Asian Studies.				

Vol.24

4. Yadav, H.R. – (ed. Yadav, H.L.) Retailing in Saryupar Plain (Hindi), Radha Publications, New

Delhi.

5. Davies, R.L. - Marketing Geography.
6. Shrivastava, V.K. – (ed) Commercial Activities in South Asia, Concept Publications, NewDelhi.

7. Shrivastava, V.K. & Dixit, R.S., Biparan Bhoogol.

# MA 2<sup>nd</sup>Year, Sem. III Course IV(B) (Theory)

Program	Program/Class: MA Year: Second Semes			ester: Third		
	Subject: Geography					
Cour A1	Course Code: A110905T Course Title: Industrial Geogr				raphy	
Course Learnin	ng Outcomes: -	On completion of th	is course, le	earners will be abl	e to:	
Define	Magning conce	nts and approaches	of Economi	c Geography		
Define     Unders	tand the nature of	of Economic activitie	s Resource	e Distribution		
Unders	tand the Effect o	f globalization on d	eveloping c	ountries		
	Credits: A	- 8-00 million on 0		Core Comp	ulsory	
	Cleans. 4	-				
Max. Ma	arks: 25(Internal)	) +75(External)		Min. Passing Minimum 25 Mark	viarks:33	
	Total No. of I	ectures_Tutorials_P	ractical (in l	hours per week):	[_ 1/w	
				nours per week).		
Unit		Topics			Lectures	
I	I Meaning and Scope of Industrial Geography, Industrial Revolution and its Consequences, Trends of Industrialization in India & Abroad.				9	
II	Factors of Location of Industries, Theories of Industrial Location - Weber, Hoover, Losch; Industrial Complexes.			12		
ш	World and Ind Pattern of Iron Industries and Prospects of In Geography.	ia Industrial Region & Steel, Textile, Su Economic Develop idustrial Sprawl. We	s. Distributi 1gar & Ferti ment, Proble eber, Theori	ion and Spatial lizer Industry, ems and es of Industrial	11	
IV	Impact of Globalization on Industrial Development, Industrial Policies and their Implications in Industrialization in India, Sustainable Industrial Development.				13	
Suggested Rea	adings: -					
1. Alezender, 0	G. – Geography o	of Manufacturing (1	967)			
2. Miller, E. –	Geography of M	anufacturing, Prenti	ce Hall.			
3. Fridrich, J. Alfred Weber's Theory of Location of Industries.						
5 Smith D M – Industrial Geography						
6. Hooever, E.M. – Location in Space Economy.						
7. Kumar, Prar	nila & Sharma, S	S.K. – AudhogikBho	oogol, Bhop	oal.		
8. Lora, R.M	– AudhogiBhoog	gol	- 1			
9. Sharma, V.N. – Industrial Development and Planning in India.						

## MA 2<sup>nd</sup>Year, Sem. III Course IV (C) (Theory)

Programm	Programme/Class: MA Year: Second Semester			er: Fourth	
Subject: Geography					
Cours A110 Course outcom	se Code: 1906T nes: - Students v	Co vill be able to unde	ourse Title: erstand:	Cultural Geograj	phy
	Credits: A			Core Compul	sory
Max. Ma	rks: 25(Internal)	+75(External)	(M	Min. Passing M inimum 25 Marks	arks:33 in External)
	Total No. of Le	ctures-Tutorials-Pra	ctical (in ho	ours per week): L-	4/w
Unit		Topics			No. of Lectures
I	Nature and Scope of Cultural Geography, Approaches and Development; Relationship of Culture with Environment; Resources and Technology.			10	
II	Major Concepts-Cultural Diffusion, Material Culture, Cultural Landscape and Cultural Ecology; Origin & Dispersal of Man.			12	
III	Origin, Types & Dispersal of Human Races, Racial Composition of India; Linguistic and Religious Structure of the World.				10
IV	Domestication of Plants and Animals; Renewal and Dispersal Activities of Crops-Paddy, Maize, Sugarcane and Rubber.Agricultural Practices and Innovations; Globalization and Cultural Development; Ecological Impact of Population13Explosion; Cultural Hearths; Major Cultural Realms and Regions of the World.13				13
<ul> <li>Suggested Readings: -</li> <li>1. Dohrs, I., Sommers, L.,1967, Cultural Geography, Thomas Crowell Company</li> <li>2. Fred, E. D., Lawrence, M., Cultural Geography, Thomas Y. Crowell Company, New York</li> <li>3. Jackson, P., David, D., Atkinson, D., Cultural Geography, Rawat Publication</li> <li>4. Schech, S., and Haggis, J., 2000, Culture and Development, Blackwell Publishers, Great Britain</li> </ul>					

5. Hussain Majid. Cultural Geography, Anmol Publications PVT. Ltd

6. Mitchell, D.,2000, Cultural Geography- A Critical Introduction, Black Well

7. Oakes, Timothy.S., and Price, Patricia L., 2008, The Cultural Geography Reader, Routledge Publication, New York

# MA 2<sup>nd</sup> Year, Sem. III Course V (Practical)

Program	Programme/Class: MA Year: Second Semester: Th			ster: Third	
Subject: Geography					
Course Code: A110907P Course Title: Geographic Informatio				on System	
<ul> <li>Course outcomes: Students will be able to understand: -</li> <li>To differentiate between qualitative and quantitative information.</li> <li>To understand the nature of various data.</li> <li>To understand sampling methods for data collection.</li> <li>To present data through graphical and diagrammatic formats.</li> <li>The concept of probability is mainly the normal distribution.</li> </ul>					
	Credits: 4	Ļ		Core Compu	lsory
Max. M	arks: 25(Internal	) +75(External)	(M	Min. Passing M inimum 25 Marks	larks:33 in External)
	Total No. of Le	ectures-Tutorials-Pr	actical (in h	ours per week): L	- 4/w
Unit		Topics			No. of Lectures
I	Advanced fund (Including Ope QGIS etc.	nctionalities of GIS software Packages pen-Source Software's). – ARC GIS, ERDAS,			11
п	Advanced techniques in creating, managing and manipulating shapefiles and geodatabases in various GIS software. Working with coordinate systems and projections GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure.			12	
III	Techniques for accurate geo-referencing of maps and creating detailed point, line, and polygon features. Preparation of Maps with Legend, Scale, Symbology, North Arrow etc and Export of Map in various Formats. Use of GPS Surveying for position (location), navigation, tracking, and mapping.			13	
IV	Downloading remote sensing images from various online platforms (like Bhuvan, USGS, ASF, Copernicus, etc.). Land use Classification (Supervised and Unsupervised) using downloaded images and GIS Packages. Detailed practical analysis of land use changes and environmental impacts.			9	
Suggested R 1. Choniyal, Pustak Bhav 2. Lillesand edition. Johr 3. Campbell London	eadings: D D, (2016) Su an, Allahabad. , T.M. and Kief Wiley and Sons l, J.B. (2002): In	dur Samvaden evan er, R.W. (2000): R , New York htroduction to Remo	n Bhogolic Remote Sens ote Sensing	Suchna Pranali ke sing and Image I . 5th edition, Tay	e sighant, Sharda interpretation. 4 <sup>th</sup> ylor and Francis,

4. Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi.5. Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi

6. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.

## MA 2<sup>nd</sup>Year, Sem. IV Course I (Theory)

Programm	e/Class: MA	Year: Sec	ond	Semest	er: Fourth
	Subject: Geography				
Cours A111	se Code: 001T	(	Course Title:	Urban Geograp	hy
Course outcom	es: Students wil	l be able to underst	tand :-		
<ul> <li>The courchange a</li> <li>Understation</li> <li>It will here</li> </ul>	<ul> <li>The course aim is to give a basic understanding of the concept of Environment, Climate Change and Disaster Management.</li> <li>Understanding the appraisal and conservation of Environment and Natural Resources.</li> <li>It will belp develop an understanding of the various impacts of climate change</li> </ul>				
• This cou	rse shall introduc	ce the basic concept	ts related to	disaster Managem	ient.
This pap	er shall help in u	nderstanding Globa	al efforts in	the field of disaste	er management.
	Credits: 4			Core Compu	lsory
Max. Marks: 25(Internal) +75(External) Min. Passing Ma (Minimum 25 Marks)			arks:33 in External)		
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					4/w
Unit	Unit Topics			No. of Lectures	
I	Introduction: I different appro	Defining the city a aches to examining	nd understa ; it and its tr	nding the ansformations.	10
п	Urban Transformations in Historical Contexts: Early cities to industrial cities, global cities, colonial and post-colonial cities.			11	
III	IIIUrban society: Social organization of the city, emergence of urban cultures and subcultures, nature of urban economy, Emergence of urban elites and poor.			12	
IV	IV       Governing the City: Role of state in urban planning and development, local politics, citizenship and governance. Contemporary Urban Issues; Urban Poverty; Housing; Slum; Study & Preparation of Master Plan of Selected Cities			12	
Suggested Read	lings:-				

1. Mohan Sudha 2005: Urban Development and New Localism. Rawat Publications, Jaipur.

2. Pacione, Micheal, 2001: Urban Geography, Routledge, London

3. Naqvi, H. K. (1971). Urbanisation and Urban Centres under the Great Mughals. Shimla: Indian Institute of Advance Studies .

4. Racine, J. (ed): Calcutta 1981. Concept Pub. Co., New Delhi.

5. Ramachandran R. 1989: Urbanisation arid Urban Systems in India. Oxford University Press, New Delhi.

6. Rao, R. Rammohan and S. Simhadri 1999: Indian Cities: Towards Next Millenium, Rawat Publications, Jaipur.

7. Ray Chaudhuri, Jayasri (2001): An Introduction to Development and Regional Planning. Orient Longman, Kolkata

Sharma, R.N. and K. Sita 2001: Issues in Urban Development. Rawat Publications, Jaipur.
 Short, J. R. (1984). An Introduction to Urban Geography. London: Routledge and Keygen Paul.

10. Singh, A. K. (1990). Urbanisation and Administration of Urban Infrastructure. New Delhi: Inter-India Publications.

## MA 2<sup>nd</sup>Year, Sem. IV Course II (Theory)

Program/Class: MA Year: Second			ond	Seme	ster: Fourth	
	Subject: Geography					
Cour A11	se Code: 11002T	Со	urse Title: A	Agriculture Geog	graphy	
<ul> <li>Course Learning Outcomes: - On completion of this course, learners will be able</li> <li>Define Meaning, concepts and approaches of Economic Geography</li> <li>Understand the nature of Economic activities, Resource Distribution</li> </ul>				e to:		
e chachs		i giobalization on a	eveloping e	ountries.		
	Credits: 4			Core Comp	ulsory	
Max. Marks: 25(Internal) +75(External) Min. Passing N (Minimum 25 Mark			Marks:33 as in External)			
Total No. of Lectures-Tutorials-Practical (in hours per week): I				L- 4/w		
Unit	Unit Topics			No. of Lectures		
Ι	Definition and Capability Cla	Definition and Scope of Agricultural Geography, Land Capability Classification with Special Reference to India.			10	
п	I Land Use Classification with Special Reference to India. Carrying Capacity of Land, Kostrowicki's Classification of World Agriculture.			11		
IIIMethods of Agricultural Productivity Measurement - Kendall's Ranking Coefficient Method, Weighted Ranking Coefficient Method.			12			
IV	Delimitation M Weaver and D Measurement of of Modern Ag Agriculture.	1ethod of Crop Com oi; Cropping Intensi of Level of Agricult riculture on Environ	nbination Re ity and Dive cural Develo ment and S	egions by ersification, opment. Impact ustainable	12	

#### Suggested Readings: -

1. Bayliss Smith, T. P: The Ecology of Agricultural Systems. Cambridge University Press, London, 1987.

2. Berry, B.J.L. et al: The Geography of Economic Systems. Prentice Hall, New York, 1976.

3. Brown, L.R.: The Changing Food Prospects - The Nineties and Beyond. World Watch Institute, Washington D.C., 1990.

4. Dyson, T.: Population and Food - Global Trends and Future Prospects, Routledge, London, 1996.

5. Gregor, HP: Geography Of Agriculture. Prentice Hall, New York, 1970.

6. Grigg, D. B. The Agricultural Systems of the World. Cambridge University, 1988.

7. Hrtshom, T.N. Alexander, J.W: Economic Geography Prentice Hall, New Delhi, 1988.

8. Mannion, A.M.: Agriculture and Environment Change. John Wiley, London, 1995.

9. Morgan, W.B. and Norton, R.J.C.; Agricultural Geography. Mthuen, London, 1971 10.Morgan, W.B : Agriculture in the Third World - A Spatial Analysis Westview Press, Boulder, 1978.

## MA 2<sup>nd</sup>Year, Sem. III Course III (Theory)

Programme/Class: MA Year: Second		Semes	Semester: Third			
	Subject: Geography					
Course Code: A111003T Course Title: Advance Environmental			Geography			
<ul> <li>Course outcomes: Students will be able to understand :-</li> <li>Understand complex environmental systems and the interactions between human activities and natural processes.</li> <li>Analyze environmental issues using advanced geographical theories and methodologies.</li> <li>Evaluate the effectiveness of environmental policies and practices using geographic data and spatial analysis.</li> <li>Develop strategies for sustainable environmental management and conservation through applied geographic knowledge.</li> </ul>						
	Credits: 4			Core Compul	lsory	
Max. Marks: 25(Internal) +75(External) Min. Passing Ma (Minimum 25 Marks)				arks:33 in External)		
	Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit	Topics			No. of Lectures		
I Environment, Ecosystem and Biodiversity. Global environmental problems: Desertification, Climate Change, Global Warming, Sea Level Rise etc. Concept of Sustainable Development and SDG.			10			
Ш	IIUrban Environmental Problems and their Management: Air, water and solid waste management. National Parks for Environmental Protection. Wetlands Protection and Conservation.10			10		
IIIDesert, Coastal, Mountain and Mangrove ecosystems of India. Ganga Action Plan, Project Tiger.			12			
IV	Environmental Governance: Environmental policies and programs, environmental education and legislation.			13		
Suggested Readings: -						
<ol> <li>Casper J.K. (2010). Changing Ecosystems: Effects of Global Warming. New York, USA: Infobase Pub.</li> <li>Hudson, T. (2011). Living with Earth: An Introduction to Environmental Geology. Delhi, India: PHI Learning Private Limited.</li> </ol>						

3. Miller, G.T. (2007). Living in the Environment: Principal, Connections, and

Solutions.Belmont, Australia: Brooks/ Cole Cengage Learning.

4. Singh, R.B. (1993) Environmental Geography. Delhi, India: Heritage Publishers.

5. UNEP. (2007). Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme. UK: University Press, Cambridge.

6. Dash, M.C., 1993: Fundamentals of Ecology, Tata McGraw-Hill, New Delhi.

# MA 2<sup>nd</sup>Year, Sem. IV Course IV (A) (Theory)

Program	Program/Class: MA Year: Second Sem		ster: Fourth		
Subject: Geography					
Course Code: A111004T Course Title: Rural Geogr			e: Rural Geograj	ohy	
<ul> <li>Course Learning Outcomes:- On completion of this course, learners will be able to:</li> <li>Define Meaning, concepts and approaches of Economic Geography</li> <li>Understand the nature of Economic activities, Resource Distribution</li> </ul>					
• Unders	Credits: 4		eveloping c	Core Comp	ulsory
Max. Ma	arks: 25(Internal)	) +75(External)	(N	Min. Passing Minimum 25 Mark	Marks:33 (s in External)
	Total No. of L	ectures-Tutorials-P	ractical (in l	hours per week): l	L- 4/w
Unit		Topics			No. of Lectures
I	Conceptual scope of rural geography, different approaches to study rural Geography, concept and significance of rural development. Indicators of rural development.			10	
Ш	Rural Settlements: Definition and characteristics Types and patterns of rural settlements and their distribution with special reference to spacing, rural house types, based on building materials, size and shape.			12	
IIIRural infrastructure facilities and amenities, New Agricultural technology: Rural transportation, rural education, rural industries and rural marketing.			11		
IV	<ul> <li>Critical review of rural development strategies in India;</li> <li>Integrated Rural Development Program (I.R.D.P.),</li> <li>Community Development programs. MNREGA, Soil Health</li> <li>Card, National Agriculture Policies.</li> </ul>			12	
Suggested Readings: -					
<ol> <li>Singh Kartar., Rural Development: Principles, Policies and Management.</li> <li>Maheshwari, R.S., Rural Development in India.</li> <li>Clout, S.D., Rural Geography.</li> <li>Husain, Majid., Agricultural Geography, New Delhi.</li> <li>Bell, G.(Ed.), Strategies for Human Settlements: Habitat and Environment.</li> <li>Chisholm, M., Rural Settlement and Land Use.</li> <li>Singh, R.L. et.al: Readings in Rural Settlement Geography.</li> <li>Singh, K.N.(Ed.) Rural Development in India: Problems, Strategies and Approaches.</li> </ol>					
9. Wanmali, Sudhir., Service Centres in Rural India. 10. Mishra, H.N.(Ed.) Rural Geography.					

# MA 2<sup>nd</sup>Year, Sem. IV Course IV (B) (Theory)

Program/Class: MA Year: S		Year: Sec	cond Seme		ster: Fourth	
Subject: Geography						
Course Code: A111005T Course Title: Geography of H					ealth	
Course Learning Outcomes:- On completion of this course, learners will be able to:						
• Define	Meaning, concep	ots and approaches of	of Economi	c Geography		
• Unders	tand the nature o	f Economic activitie	es, Resource	e Distribution		
• Unders	tand the Effect o	f globalization on d	eveloping c	ountries.		
	Credits: 4 Core Compulsory					
Max. Ma	arks: 25(Internal)	) +75(External)	(N	Min. Passing N Iinimum 25 Mark	Marks:33 as in External)	
	Total No. of L	ectures-Tutorials-P	ractical (in l	hours per week): l	L- 4/w	
Unit		Topics			No. of Lectures	
	Meaning, Scop	e, Significance, De	velopment,	Methods and		
I	Techniques of	Geography of Healt	th, Geograp	hical factor	10	
	affecting huma	in health & diseases	- Physical,	Social,	12	
	Vital & Health	Indices: Classificat	tion of Dise	ases Genetic		
п	Communicable	e & Non- communic	cable. Occur	pational and	10	
	Deficiency Diseases, Geography of Hunger and Malnutrition.					
	Patten of Distr					
	Ecology, Etiol					
111	III Cholera, Malaria, Tuberculosis, Hepatitis, Cancer, AIDS and					
	SIDs and their Regional Patterns with special reference to India					
Disease Diffusion Models and Health Care Accessibility						
	Models; Health					
IV	UNICEF & Re	11				
1.	NGO's. Health	Planning and Poli	cies in Indi	a, Family	11	
	Welfare; Immunization, National Disease Eradication,					
Aayusninan Bharat 1 Ojana & Health for all.						
Buggesieu Reaulligs: -						
1. Cliff, A. & Hagget, P. – Atlas of Disease Distribution.						
2. May, J.M. – Study in Disease Ecology.						
3. May, J.M. – Ecology of Human Disease.						
4. Forste, D.H. – Health, Disease and Environment. 5. Pyle, G.P. – Applied Medical Geography						
p. ryle, U.r. – Applied Medical Geography. 6. Mishra, R.P.I. – Medical Geography of India						
7 Rais, Akhter – Environment and Health						
8. Learmonth, A.T.A. – Disease Ecology.						
9. Hunter, J.M. – Geography of Health and Disease.						
10. Raise, A. and Learmonth, A.T.A. – Geographical Aspect of Health and Disease.						

# MA 2<sup>nd</sup>Year, Sem. IV Course IV (C) (Theory)

Programm	e/Class: MA	Year: Sec	ond	Semes	ter: Fourth
Subject: Geography					
Course Code: A111006T Course Title: Geography of Tou			ırism		
<ul> <li>Course outcomes:- Students will be able to understand : <ul> <li>Analyze tourism's geographical distribution and dynamics, understanding how location, culture, and economy shape travel patterns.</li> <li>Evaluate tourism's economic, cultural, environmental, and social impacts on local and global scales, identifying both positive and negative consequences.</li> <li>Develop and assess strategies for sustainable tourism that balance environmental conservation, cultural integrity, and economic development.</li> <li>Apply geographic analysis and methodologies to inform tourism policy-making, planning, and management, enhancing destination competitiveness and the quality of visitor experiences.</li> </ul> </li> </ul>					
Credits: 4 Core Compulsor					lsory
Max. Marks: 25(Internal) +75(External) Min. Passing M (Minimum 25 Marks)				larks:33 s in External)	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w					
Unit	Topics			No. of Lectures	
I	Basics of Tourism; Definition of tourism; Factors influencing tourism: historical, natural, socio-cultural and economic; tourism as an industry.			11	
п	Tourism types: cultural, eco-ethno-coastal and adventure tourism, national and international tourism; globalization and tourism; International pattern of Tourism;			12	
ш	Tourism development in India - origin and evolution, spatial pattern, problems and policies; Tourism circuits			10	
IV	Impacts of tou negative impact tourism- Curre Role of foreign	rism: physical, ecc cts of Tourism; En nt trends, spatial pa n capital & impact o	onomic and vironmental tterns and re f globalizat	social impact, laws and ecent changes; ion on tourism.	12

#### Suggested Readings:-

1. Bhatia A.K. : Tourism Development : Principles and Practices. Sterling Publishers, New Delhi 1996

2. Bhatiya, A.K. International Tourism-Fundamentals and Practices, Sterling, New Delhi (1991)

3. Chandra R.H. : Hill Tourism : Planning and Development, Kanishka Publishers, New Delhi 1998.

4. Hunter C and Green H : Tourism and the Environment : A Sustainable Relationship, Routledge, London 1995.

5. 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.

9. Milton D. : Geography of World Tourism. Prentice. Hall, New York, 1993

10. Pearce D. G. : Tourism To-day : A Geographical Analysis, Harlow, Longman, 1987.

11. Robinson, H. : A Geography of Tourism. Macdonald and Evans, London. 1996

# MA 2<sup>nd</sup> Year, Sem. IV Course V (Practical)

Program/Class: MA		Year: Sec	ond Semester: Four		ster: Fourth	
	Subject: Geography					
Course Code: A111007P			Course Title: Surveying			
<ul> <li>Course Learning Outcomes:- On completion of this course, learners will be able to:</li> <li>Identify the various Survey Operations and Survey Instruments</li> <li>To understand the idea of Basic and applied Instrumental surveying</li> </ul>						
	Credits: 4 Core Compu					
Max. Marks: 25(Internal) +75(External) Min. Passing M (Minimum 25 Mark			Marks:33 (s in External)			
	Total No. of Lectures-Tutorials-Practical (in hours per week): L-4/w					
Unit		Topics			No. of Lectures	
I & II	Measurement of Horizontal and Vertical Angle by Theodolite22Survey by Sextant22			22		
III & IV	Surveying by Dumpy Level			23		
Suggested Readings:						
<ol> <li>Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London</li> <li>Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.</li> <li>Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.</li> <li>Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition.</li> <li>Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kolumni Bublishers, New Dalki.</li> </ol>						

English editions). Kalyani Publishers, New Delhi,.6. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.

# MA 2<sup>nd</sup> Year, Sem. IV Course VI (Project)

Program/Class: MA	Year: Secon	nd	Semester: Fourth			
Subject: Geography						
Course Code: A111008R	Course Title: Project Report					
Course Learning Outcomes:- O	Course Learning Outcomes:- On completion of this course, learners will be able to:					
• Identify significant gaps in existing geographic knowledge and formulate relevant, feasible research questions.						
<ul> <li>Design a robust research methodology that employs appropriate geographic techniques to address the identified questions.</li> </ul>						
• Execute effective data collection and analysis, demonstrating proficiency in using advanced tools and software specific to geographic research.						
Produce a scholarly res	search report that clea	arly comm	unicates the study's findings, methods,			
and implications, and effectively present the research in a professional academic setting.						
Credits: 8 Core Compulsory						
Max. Marks: 25(Internal) +75(External) Min. Passing Marks:40 (Minimum 30 Marks in External)						
Project Report Guidelines						
Dissertations Shall be submitted as per guidelines of CSJM University, Kanpur.						