





PROGRAMME STRUCTURE

SHARDA SCHOOL OF HUMANITIES & SOCIAL SCIENCES

Master of Arts in Geography Programme Code: SHS0136

Batch: 2024-2026



<u>1.1 Vision, Mission and Core values of the University</u>

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community



1.2 Vision of the School of Humanities and Social Sciences

Vision of the School

To become one of the leading schools of humanities and social sciences by setting global standards of excellence in ingenious curriculum, teaching-learning methods, professional development, and cross-cultural understanding

Mission of the School

M1. To promote learning and employability skills among students.

M2. To develop interdisciplinary approach in Social Sciences, in line with the market requirements.

M3. To guide and facilitate students to succeed in their academic profession.

M4. To encourage research and promote knowledge creation.

Core Values

- Integrity
- Leadership
- Diversity
- Community



1.3 Program Educational Objectives (PEO)

The 'Master of Arts in Geography' programme offered by the department, aims to

PEO 1. empower students with knowledge and skills for spatial thinking and analysis,

PEO2: demonstrate a detailed understanding of the selected core discipline of study.

PEO 3. navigate real world problems and contribute to society in a meaningful way".

PEO 4. imbibe scientific way of looking at the surrounding and simultaneously remain focussed on the human welfare, utility of resources, environmental aspects.

Programme Specific Outcomes (PSOs)

At the end of the two-year (four-semester) course, students will have complete knowledge about evolved, contemporary subjects in geography, covering and converging both physical and human geography.

	School	School	School	School
PEO Statements	Mission 1	Mission 2	Mission 3	Mission 4
PEO1:	3	2	2	1
PEO2:	2	4	3	2
PEO3:	3	1	2	3
PEO4:	2	4	3	1



1.4 Program Outcomes of the MA Geography:

PO1: Content Knowledge: Demonstrate thorough knowledge of the key concepts of physical and human geography.

PO2: Understanding of Theory: Confident grasp of theoretical of the classical and contemporary geography theories.

PO3: Communication Skills: Demonstrate the ability to enhance geographical knowledge to others with clarity.

PO4: Research Skills: Develop an ability to solve social scientific research methods to address geographical problems.

PO5: Analytical Skills: Possess analytical skills in areas such as policy analysis, administration/ management, communication, quantitative analysis and problem- solving.

PO6: Values in Geography: Apply a geographical perspective to analyze how social structure manifests itself in their own lives to actively participate in civic life.



1.5 Program Specific Outcomes of the MA Geography:

PSO1: Acquiring higher knowledge of physical Geography.

PSO2: Acquiring advanced knowledge of Human Geography and the spatial connection of physical geography and human geography.

PSO3: Relevantly learn statistical data analysis and Application of GIS and modern geographical map making technique to identify and utilize such highly technical technique as a problem-solving research interface



Program Structure M.A. Geography School of Humanities and Social Sciences

S.No.	Subject Code	Subjects	Teac	hingLo	oad	Credits	Type of Course
			L	Т	Р		
		Theory Subjects					
1.	MGO101	Advanced Geomorphology and Morphometry	4	1	0	5	Core
2.	MGO102	Modern Geographical thoughts	5	0	0	5	Core
3.	MGO103	Demography and Population Geography	3	1	0	4	Core
4.	MGO104	Advanced Political Geography	4	0	0	4	Core Elective
Practic	al			-			
5.	MGP001	Advanced cartography	1	0	4	3	Core (Practical)
6.	MGP002	Basics of Remote Sensing, Geographical Information System (GIS) and Global Navigation Satellite System (GNSS) (Swayam)	0	0	2	1 Certificate MOOC (Qualifier)	Practical MOOC
		Total Credits				22	

SEMESTER: I (Term 1)





SEMESTER II (Term II)

			Teach	ingLoa	d		True of
S.No.	Subject Code	Subjects		Т	Р	Credits	Course
	•	Theory Subjects		·			
1.	MGO105	Applied Climatology and Biogeography	3	1	0	4	Core
2.	MGO106	Development Theory, Regional planning, and Policy	3	1	0	4	Core
3.	MGO107	Settlement Geography	3	1	0	4	Core
4.	MGO108	Historical Geography	4	0	0	4	Core (Elective)
Practi	cal						
5	MGP003	Research Methods and Statistical Techniques in Spatial Analysis	1	0	4	3	Core Practical
6.	MGP004	Geographical Field Training	1	0	2	2	Core Practical
7.	MGP005	Municipal Solid Waste Management (NPTEL, IIT Guwahati)	0	0	0	1 (MOOC)	Core Practical Elective
	Total	Credits		1		22	<u>.</u>



SEMESTER III, (Term I)

			Teaching Load				
S. No.	Subject Code	Subjects	L	Т	Р	Credits	Type of Course:
		Theory Subjects					
1.	MGO201	New Economic Geography	4	0	0	4	Core
2.	MGO202	Geography of migration	3	1	0	4	Core
3.	MGO203	Socio-Cultural Geography	4	0	0	4	Core
4.	MGO204	Geography of health and well	3	1	0	4	Core
		being					Elective
		Practical Subjects					
5.	MGP201	Digital Image processing and Terrain modelling	1	0	4	3	Core Practical
6.	MGP202	Village Survey: Instrumental and Socio-economic	1	0	4	3	Core Practical
	Total Credits					22	
	• 						



SEMESTER: IV (Term II)

S. No.	Subject Subjects			eachin Load	ıg	Credits	Type of	
	Code		L	Т	Р		Course:	
1	MGO205	Geography of Urban Environment and Urban Management	3	1	0	4	Core	
2	MGO206	Flow analysis and Transport Geography	2	2	0	4	Core	
3	MGO207	Watershed Management	3	1	0	4	Core Elective	
4	MGP203	Dissertation I	0	0	24	12	Core	
Total	Total Credits 24							

Credit Summary

Semester I	Semester II	Semester III	Semester IV	Total
22	22	22	24	90



SEMESTER I

		SHARDA UNIVERSITY	(A+)			
Sc	hool: SSHSS	Batch: 2024-2026	(ROMAN)			
Pro	gramme: M.A. Geography	Current Academic Year: 2024-2025				
Bran	ich: Geography	Semester: I				
1	Course Code	MGO101				
2	Course Title	Advanced Geomorphology and Morphometry				
3	Credits	5				
4	Contact Hours (L-T-P)	4-1-0				
	Course Type	Core Course (CC)				
5	Course Objective	The course aims to explain basic principles for development of land time to familiarise with the application part of fundamental concep systems and the application of the geomorphological features.	forms through ots in physical			
6 Course Outcomes		The student will be able to; CO1: list the linkages between landscape form and processes. CO2: demonstrate sound knowledge about the evidence and tecton predict the changing formation of the earth. CO3: construct models by using models, data and logical reasonin evaluate and connect information about geomorphic processes. CO4: analyse the applicability of geomorphology. CO5: explain the techniques of geomorphological analysis. CO6: develop the comprehensive knowledge and applicable Geomorphology.	ic evidence to ag to critically e aspects of			
7	Course Description	The course will provide a deep understanding of geomorphology measuring tectonic changes and overall utility of the subject.	, methods of			
	Unit 1	Concepts in Geomorphology	CO			
	A	 Fundament concepts of time: cyclic, graded and steady state dynamic equilibrium 	Mapping CO2, CO5			
	В	 Scopes of geomorphology, approaches in analysis of geomorphology, 	CO1, CO2			
	С	Recent trends and concepts in geomorphology.	CO1, CO2			
	Unit 2	Global morphology and tectonics:				
	A	 Development of ideas of global tectonics, continental drift, palaeo-magnetic evidence, global seismicity, sea-floor spreading 	CO2, CO3			
	В	• Surface processes and landforms: slope processes and forms, fluvial processes and landforms, aeolian processes and landforms, glacial and periglacial processes and landforms, work of ocean and coastal landforms	CO2, CO3			





С	• Planetary geomorphology and approaches to planetary geomorphology	CO2, CO3
Unit 3	Endogenetic and Exogenetic	
A	• Processes Interaction: rate of uplift, measurement techniques, denudation rates, factors controlling denudation rates,	CO2, CO3
В	• Effects of tectonics on drainage development, sea level change	CO2, CO3
С	• Understanding geomorphology of regions and disasters.	CO2, CO3
Unit 4	Application Aspects of Geomorphology	
А	• Geomorphic hazards and mitigation measures;	CO3, CO4
В	• Geomorphology in engineering construction;	CO3, CO4
С	• Geomorphology in groundwater studies; Geomorphology in mining, agriculture and rural infrastructural development.	CO3, CO4
Unit 5	Morphometry	I
А	Basics of morphometry	CO2, CO6
В	• Delineation of basin; Linear aspects: stream ordering, bifurcation ratio, law of stream numbers, length ratio, law of Stream length, areal aspects: stream frequency, drainage density, circularity ratio	CO6
С	• Relief aspects: hypsometric curve, hypsometric integral curve, clinographic curve.	CO5, CO6
Mode of examination	Theory	
Weightage	IA EA	
Distribution	25% 75%	
Text book	 Huggett, R.J. 2011. Fundamentals of Geomorphology, Routled York Kale, V.S. and Gupta, A. 2001. Introduction to Geomorpho Longman, Hyderabad, India. Thornbury, W.D. 1969. Principles of Geomorphology, Joh Sons, New York 	dge, New <i>ology</i> , Orient n Wiley and



Reference	1. Allison, Robert (ed.) 2002. Applied Geomorphology: Theory and Practice,
Book	John Wiley & Sons Ltd., Chichester, U.K.
	2. Anderson, R.S. and Anderson, S.P. 2010. Geomorphology: The Mechanics
	and Chemistry of Landscapes, Cambridge University Press, Cambridge.
	3. Bierman, P.R. and. Montgomery, D.R. 2014. Key Concepts in
	Geomorphology, Macmillan Education, New York.
	4. Bloom, A.L. 2003. Geomorphology: A Systematic Analysis of Late Cenozoic
	Landforms, Prentice-Hall of India, New Delhi.
	5. Bridges, E.M. 1990. World Geomorphology, Cambridge University Press,
	Cambridge, U.K.
	6. Clark, M.J. (ed.) 1988. Advances in Periglacial Geomorphology, John
	Wiley & Sons Ltd., Chichester, U.K.
	7. Condie, K.C. 2003. Plate Tectonic and Crustal Evolution, Butterworth-
	Heinemann, Oxford, Burlington.
	8. Knighton, A.D. 1984. Fluvial Forms and Processes, Edward Arnold
	Publishers Ltd., London, U.K.
	9. Leopold, L.B., Wolman, M.G., and Miller, J.P. 1964. Fluvial Processes in
	Geomorphology, W.H. Freeman Company, San Francisco.
	10. Richards, K.S. 1982. Rivers: Form and Processes in Alluvial Channels,
	Methuen & C., Ltd., London.
	11. Schumm, S.A. 1977. The Fluvial System, John Wiley & Sons, Inc., New
	York.
	12. Singh Savindra. 2014 , Prayag Pustak Bhawan, Allahabad.
	13. Summerfield, M.A. 1991. Global Geomorphology, Pearson Prentice Hall,
	U.K.

1- Low

2- Medium



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

3- High



	School: SSHSS	Batch: 2024-2025					
]	Programme: M.A. Geography	Current Academic Year: 2024-2025					
B	Franch: Geography	Semester: I					
1	Course Code	MGO102					
2	Course Title	Modern Geographical Thoughts					
3	Credits	5					
4	Contact Hours (L-T-P)	5-0-0					
	Course Type	Core Course (CC)					
5	Course Objective	This course aims to provide knowledge of disciplinary developments post 1970. It aims to enable students to contextualize the conceptual traditions within geography along with the major philosophical influences. It promotes an understanding of the fluidity, expansion and inclusivity of Modern Geographical Thought as against imperial underpinnings and latent Eurocentricity					
6	Course Outcomes	The student will be able to; CO1: define the chronological introduction to the disciple of thoughts in geography. CO2: classify current debates within human geograph understanding of the contexts within which these debates CO3: build and discern the ontological and epistemologic geography CO4: analyse and critically understand a broad range of co spatial issues that society experiences and undergoes. CO5: explain the fluidity, expansion, and inclusivity of Mo Thought as against imperial underpinnings and latent Eur CO6: develop a basic social, cultural, political and econo from global and local perspectives to a broad range of cor	ine specific growth y and develop an emerged. al undertone in the ontemporary socio- odern Geographical ocentricity. omic understanding ntemporary issues.				
7	Course Description	Description The course traces the development of modern geographical thoughts and the advancement it led to broaden scope of geographical application in understanding social economic and political aspects of the sociaties					
	Unit 1	Brief Disciplinary History:	CO Mapping				
	А	• Early origins, imperial influences and institutionalisation; a contested discipline.	CO2, CO5				
	В	 Man-environment interaction: new environmentalism; 	CO1, CO2				



(A+)

С	Concepts: s spatial organ	pace, place, environment, time and nisations	CO1, CO2			
Unit 2	Emergence of Mod	lern Geography:				
А	Key develop Humanistic	pments in the 1970's; post positivist Geography;	CO2, CO3			
В	Geography; Marxist Geography, cography; Postmodern Geographies.	CO2, CO3				
С	 Planetary ge planetary ge 	comorphology and approaches to comorphology	CO2, CO3			
Unit 3	Ontological turns a	and New Theories in Modern Geogr	aphy:			
А	New ontologenetic emotional to the second seco	gies of space and place; cultural turn, urn, narrative turn;	CO2, CO3			
В	 fieldwork decolonizing 	and politics of representation; g geographical research;	CO2, CO3			
С	Grounded Representat	Theory, Minor Theory, Non- ional Theory.	CO2, CO3			
Unit 4	Modern Developm	ents,				
А	Applied Geo	ography and Relevance Debate,	CO3, CO4			
В	 Impact of Indian geog Postcolonial Indian geog 	modern geographical thoughts in ographical ideas. Colonial and l geography and contributions of raphers	CO3, CO4			
С	Regional Pl	anning, Feminist Geography,	CO3, CO4			
Unit 5	Future of Geograp	hy:				
А	Drivers of g difference, o globalising	clobal relevance, emerging subfields, diversity and greater inclusivity in a world.	CO2, CO6			
В	• Socio-spatia processes o identities, d	CO6				
C	• Spatial Ine Geographer	• Spatial Inequality and Regional Imbalances, Geographers and Policy				
Mode of examination	Theory					
Weightage	IA	EA				
Distribution	25%	75%				



,	Text books	1. 2. 3	Dikshit, R. D. (2004): Geographical Thought. A Critical History of Ideas. Prentice-Hall of India, New Delhi. (in English and Hindi). Kapur, A. (ed.) (2001): Indian Geography – Voice of Concern. Concept Publishing. Company, New Delhi.
		5.	Methuen and Company Ltd. and Company, London.
]	Reference books	1.	Harvey, D. (1969): Explanation in Geography. Arnold, London.
		2.	Harvey, M. E. and Holly, P.B. (2002): Themes in Geographic Thought. Rawat Publications, Jaipur and New Delhi.
		3.	Johnston, R.J. (1985): The Future of Geography, Metheun and Company Ltd., New York. (2003 edition published).
		4.	Johnston, R.J. and Sidaway, J.D. (2004): Geography and Geographers. 6th edition, Edward Arnold, London.
		5.	Martin, G. (2005): All Possible Worlds. A History of Geographical Ideas. 4th edition, Oxford University Press, New York.
		6.	Mathews, J. A. and Herbert, D. T. (eds.) (2004): Unifying Geography. Common Heritage, Shared Future. Routledge, London.
		7.	Peet, R. (1998): Modern Geographical Thought. Blackwell Publishers Inc., Massachusetts.
		8.	Sauer, C. O. (1963): Land and Life. University of California Press, Berkeley.
		9.	Sharma, P.R., Yadava, R.S., Sharma, V.N., (ed.) 2013: Inter Disciplinary Advances in Geography, R.K. Books, New Delhi.
		10.	Singh, R. L. and Singh, Rana P.B. (eds.) (1990): Literature and Humanistic Geography. National Geographical Society of India, BHU, Varanasi, Publication number 37



11. Singh, R. L. and Singh, Rana P.B. (eds.) (1992): The Roots of
Indian Geography: Search and Research. National Geographical
Society of India, B.H.U., Varanasi, Publication number 39.
12. Singh, Rana P. B. (2004): Cultural Landscapes and the Lifeworld. Indica Books, Varanasi.
 Soja, E. (1989): Post-modern Geographies. Verso Press, London. Reprinted 1997: Rawat Publications, Jaipur and New Delhi.
 Tuan, Yi-Fu (1977): Space and Place. The Perspective of Experience. Edward Arnold, London.
15. Singh, Ravi S (ed.) 2009. Indian Geography: Perspectives, Concerns and Issues. Jaipur: Rawat Publications
16. Singh, Ravi S (ed.) 2009. Indian Geography in the 21st Centaury: The Young Geographers Agenda. New Castle upon Tyyne, UK: Cambridge Scholars Publishing.

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium
 3. High



S	School: SSHSS	Batch: 2024-2026					
Pro	ogramme: M.A.	Current Academic Year: 2024-2025					
Due	Geography						
Бга	inch: Geography	Semester: 1					
1	Course Code	MGO103					
2	Course Title	Demography and Population geography					
3	Credits	4					
4	Contact Hours (L-T-P)	3-1-0					
	Course Type	Core Course (CC)					
5	Course Objective	This course intends to orient the students towards interdiscip on population issues at different geographical scales. It candidate to appreciate the role of spatial perspectives to population changes and its impact on the economy, society politics at diverse geographical spheres.	blinary perspectives will acquaint the bwards showcasing y, environment and				
6	Course Outcomes	The student will be able to; CO1: choose and comprehend the demography and populative regions. CO2: classify and explain changes happening in population the demography of a region. CO3: construct data detailing of different sources of demogra- versed with debates on population-development linkages. CO4: examine the different components of population chan their consequences upon contemporary socio-economic, env political changes. CO5: explain population data by representing and draw diag CO6: construct the population and demographies of the region of socio-economic factors.	on subject matter of and its impact on aphic data, and well ge, its drivers, and ironmental, and rammatically.				
7	Course Description	The course introduces students to the basic difference betw demography and population geography. The course lays ou population growth and demographic impact which may population changes and population related problems.	een the concepts of t several theories in lead to migration,				
	Unit 1	Demography and Population Geography – Concept and	CO Mapping				
		Scope					





A	• Concepts, scope and difference between demography and Population geography.	CO2, CO5
В	• Theories of Population – Malthusian & Optimum Theory of Population & Theory of Demographic Transition Sources of population data; Methodological problems;	CO1, CO2
С	 Sources of population data: Population Censuses, Vital Registration, Sample Registration System and Large-scale Demographic Surveys 	CO1, CO2
	•	
Unit 2	Population Dynamics	
A	• Distribution of Population; Population Growth: Trends and Theories;	CO2, CO3
В	• Mortality Patterns, Trends and population dynamics	CO2, CO3
C	• Fertility: Trend, Patterns and Determinants; Migration: Trends and Patterns	CO2, CO3
Unit 3	Relationship between Population and Economic Develop	ment
А	 Resources and population: views of Julian Simon, Simon Kuznets and Tragedy of commons 	CO2, CO3
В	• Population resource regions of the world and India	CO2, CO3
С	• Theories on population and economic development (Adam Smith, Malthus, Alfred Marshall, Keynes)	CO2, CO3
Unit 4	Population centric Problem and policies	
А	• Problems of under, over, declining and zero population;	CO3, CO4
В	• Migration Theories: Ravenstien and Everetts Lee, Harris Todaro, Lewis-Fei-Ranis mode	CO3, CO4
С	• Concept of ageing, young, stationary and stable population	CO3, CO4
Unit 5	Population structure in India and representation of Popu	lation data
А	• Population characteristics in India (Population distribution, growth and density; Ethnicity, age-sex attracture much under understand)	CO2, CO6
D		001
В	• Representation of population growth of India and	006





 sphere/circle, cubes, combined; Density map of India by choropleth; compound and superimposed pyramid of population data; Life Table: Basic concepts, types and forms of life tables and Derrulation Projections
 India by choropleth; compound and superimposed pyramid of population data; Life Table: Basic concepts, types and forms of life CO5, CO6 tables and Derrulation Projections
 pyramid of population data; Life Table: Basic concepts, types and forms of life CO5, CO6 tables and Derrulation Projections
Life Table: Basic concepts, types and forms of life CO5, CO6 tables and Demulation Projections
tables and Denvilation Desirations
tables and Population Projections
Theory
IA EA
25% 75%
 Bhende A.A. and Tara Kanitkar (2019)- 'Principles of Population Studies'- Himalaya Publishing House, Bombay . J.N. Desai M.L. Jhingan, B.K. Bhatt (2016), 'Demography', Vrinda Publications (P) Ltd.
 Isher Judge Ahluwalia,Ravi Kanbur,P.K .Mohanty ,(2014)'Urbanisation in India: Challenges, Opportunities and the Way Forward'. P. K. Majumdar(2013), 'India's Demography: Changing Demographic Scenario in India', Rawat Publications. Bose, (2012), Studies in Demography, University of North Carolina P.K. Majumdar (2010), 'Fundamentals of Demography', Rawat Publications Hans Raj (2007), 'Population Studies', Surjeet Publication, Delhi. Agarwal S.S. (1985) - 'India's Population Problem' – Tata McGraw Hill Publication, Bombay. Phadke V.S. &Swapna Banerjee Guha (Ed) (2007) - 'Urbanisation, Development and Environment' – Rawat Publication, New Delhi. K.C. Sivaramakrishnan, Amitabh Kundu, B.N. Singh,(2007)Handbook of Urbanization in India. Shekhar Mukherjee (2006) – 'Migration and Urban Decay' – Rawat Publication, New Delhi. Choubey. (2000), Population Policy in India, Kanishka Publications , New Delhi Government of India – (Various Reports), Census of India, New Dubi



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium

3. **High**



School: SSHSS		Batch: 2024-2026					
Pro	gram: MA	Current Academic Year: 2024-2025					
Programme: Geography		Semester: I					
1	Course Code	MGO104					
2	Course Title	Advanced Political Geography					
3	Credits	4					
4	Contact Hours	4-0-0					
	(L-T-P)						
	Course Type	Core Course (CC)					
5	Course Objective	The objective of this course is to explore the main concepts and research themes in political geography today. Political geography represents a broad					
		engagement with the interactive relationships between power and place, and					
		the construction, contestation and reconfiguration of political geographic					
6	C	spaces that result.					
6	Course	The students will be able to					
	Outcomes	COI: recall and primarily recapitulate the concepts of state, boundaries, and					
		territoriality.					
		CO2: demonstrate understanding and the intricacies of power of place					
		and identity.					
		COS: apply in depth understanding of political identification of state and					
		people.					
		CO4. analyse the global geographies of resistance.					
		CO6: test the theoretical part of political geography by global examples					
	Course	The course will address a range of topics, including territoriality, the state, the					
	Description	politics of space, critical geopolitics, symbolic landscapes					
	puon	and GIS and mapping. Emphasizes theoretical issues but includes empirical					
		material and/or case studies					
	Unit 1 Intro	duction					



А	Disciplinary History of Politic	al Geography	CO2, CO3						
В	Territoriality, Boundaries, and	the State	CO2, CO3						
С	Embodying the Nation-State;	The Performative State	CO2, CO3						
Unit 2 Place,	Power, Identity								
А	The Politics of Symbols, Men	CO2, CO3							
	Resources, Identity and Power	Resources, Identity and Power							
В	Performativity: B/Ordering Id	entity, Territorializations:	CO2, CO3						
	B/Ordering Space.								
	Identity as Practice/Narrative;	Geographies of Identity and							
	Difference								
C	Electoral geography		CO2, CO3						
Unit 3 Politic	cal identification								
A	Embodying the Nation-State;	Embodying the Nation-State; The Performative State							
В	Citizenship/Statelessness	CO2, CO3							
 C	Asylum Seeking/Domopolitic	CO2, CO3							
Unit 4 Geogr	aphies of Resistance								
А	Globalization, Governmentali	CO2, CO3							
	Citizenship?								
В	The Nation-State Strikes Back	c! Rising Nativism	CO2, CO3						
C	State Knowledge/Local Know	CO2, CO3							
	the 21st Century]						
Unit 5 Bound	laries Resurgent								
A	Immigration, Terrorism, and t	he "War on Terror"	CO2, CO3						
В	Foucault: Power Without Bou	Foucault: Power Without Boundaries							
C	Governmentality	CO2, CO3							
Mode of	Theory								
examination									
Weightage	IA	EA							
	25%	/5%							
Text books	1. Adhikari Sudeepura (1997) Political Geography, Rawat	Publication,						
	Jaipur								



Reference Books	1. Agnew, J. A. 1987. <i>Place and politics: The geographical mediation of state and society</i> . Boston: Allen & Unwin.
	2. Agnew, J. A., K. Mitchell, and G. Tuathail, eds. 2003. <i>A companion to political geography</i> . Malden, MA; Oxford: Blackwell Publishers.
	3. Cox, K. R., ed. 2005. Political geography: critical concepts in the social sciences (4 volumes). London: Routledge.
	——. 2002. Political geography: territory, state, and society. Oxford; Malden, Mass.:Blackwell.
	 Flint, C., and P. J. Taylor. 2007. <i>Political geography: world-economy,</i> <i>nation-state, and locality.</i> Harlow, England; New York: Pearson/Prentice Hall.
	 Sack, R. D. 1986. Human territoriality: its theory and history. Cambridge; New York: Cambridge University Press: Introduction, chapters 1 & 5 (pp. 1-27; 127-168).
	 Cresswell, T. 2006. On the move: Mobility in the modern Western world. New York: Routledge.
	——. 1996. In place/out of place: Geography, ideology, and transgression. Minneapolis: University of Minnesota Press.
	7. Glassman, J. 1999. State power beyond the 'territorial trap': the internationalization of the state. <i>Political Geography</i> , 18(6): 669-96.
	8. Murphy, A. B. 1990. Historical justifications for territorial claims. Annals of the Association of American Geographers 80 (4): 531-548.
	9. Newman, D., and A. Paasi. 1998. Fences and neighbours in the postmodern world: boundary narratives in political geography. <i>Progress in Human Geography</i> 22 (2): 186-207.
	10. Sibley, D. 1995. <i>Geographies of exclusion: Society and difference in the West</i> . London; New York: Routledge.



S	chool: SSHSS	Batch: 2024-2026				
Pro	ogramme: M.A. Geography	Current Academic Year: 2024-2025				
Branch: Geography		Semester: I				
1	Course Code	MGP101				
2	Course Title	Advanced cartography				
3	Credits	3				
4	Contact Hours (L-T-P)	1-0-4				
	Course Type	Core Course (CC)				
5	Course Objective	While studying the Advanced Cartography, the student s the theories and techniques in modern map-making co practical skills in preparing and drafting of thematic maps students to develop practical skills in preparing new map c applications of internet mapping, mobile mapping, and ge	hall be introduced to oncepts and develop . The course will help design techniques and to visualization.			
6	Course Outcomes	 The student will be able to; CO 1: show and create professional and aesthet through thoughtful application of cartographic conv CO 2: explain and combine appropriate visual represent geospatial data and communicate map cor CO 3: construct, classify and generalize data, apply and contrast, and choose projections and scales purposes. CO 4: examine the current trends in cartographic se including virtual reality, open-source web tools, and CO 5: Demonstrate mastery in map production for research; analyse, critique, and share high-quality n Construct independently cartographical maps. 	ically pleasing maps rentions. variables to clearly ntent. y principles of colour for maps of varying cience & technology, geo-visual analytics. r communication and naps.			
7	Course Description	The course introduces students to the history and the cartography. This course will give deep understanding in the map-making concepts. Students will develop practical sk drafting of thematic maps and in preparing new map de students will also be exposed to the applications of inter- mapping and geo visualization.	eories in science of techniques of modern sills in preparing and sign techniques. The net mapping, mobile			
	Unit 1	Science of Cartography:	CO Mapping			



А	•	History and	development of cartography;	CO2, CO5				
В	•	Science of	cartography and communication	CO1, CO2				
		theory;						
	•	• Sources of cartographic data; Cartographic CO1, CO2						
С		techniques	and methods in preparation of					
		diagrams and	d maps					
Unit 2	Measur	ring the Ear	th:					
А	•	Properties o	f sphere; The earth: its shape and	CO2, CO3				
		size; Coordi	nate reference system on the sphere;					
В	•	Celestial coo	ordinates: equatorial system, horizon	CO2, CO3				
		system;						
С	•	Geographica	al co-ordinates and grid system;	CO2, CO3				
		UTM grids						
Unit 3	Survey	Methods:						
А	•	Curvature of	CO2, CO3					
	leveling;							
В	•	Geographica	al Positioning System (GPS);	CO2, CO3				
С	•	Trigonometr	rical surveying; Calculation of height	CO2, CO3				
~~	~	by leveling						
Unit 4	Cartog	raphy and v	isualisation 1					
А	•	Soil and veg	etation maps, Environmental maps	CO3, CO4				
В	•	Population n	CO3, CO4					
С	•	Atlas mappi	CO3, CO4					
		Automation	and computer aided cartography					
Unit 5	Cartog	raphy and v	isualisation 2					
А	•	Multivariate	Mapping	CO2, CO6				
В	•	Web Mappin	ng	CO6				
C	•	Mobile Ma	ps and Responsive Design Geo-	CO5, CO6				
		visualization	1					
Mode of	Practica	al						
examination								
Weightage	IA		EA					
Distribution								



Textbooks	1. Bailey, T. and Gatrell, A. C. (1995): Interactive Spatial Data Analysis.
	Longman, Harlow.
	2. Dorling, D. and Fairborn, D. (1997): Mapping. Ways of Representing the World.
	Longman, Harlow.
	3. Fraser Taylor, D.R. (1980): The Computer in Contemporary Cartography. John
	Wiley and Sons, New York.
Reference Books	4. Fraser Taylor, D.R. (ed.) (1983): Graphic Communication and Design in
	Contemporary Cartography. John Wiley and Sons, New York.
	5. Griffith, D. A. and Amehein (1997): Statistical Analysis for Geographers.
	Prentice Hall, Englewood Cliffs, New Jersey.
	6. Kanetkar, T.P. and Kulkarni, S.V. (1967): Surveying and Levelling, Part II.
	A.V.G. Prakashan, Poona.
	7. Keates, J.S. (1973): <i>Cartographic Design and Production</i> . Longman Group Ltd.
	8. Mailing, D.H. (1973): Co-ordinate Systems and Map Projections. George Philip
	and Sons Ltd.,
	9. Monknouse, F.J. and Wilkinson, H. R (1962): <i>Maps and Diagrams</i> . Methuen and Company Ltd. and Company Ltd., London.
	10. Nag, P. (ed.) (1984): Census Mapping Survey. Concept Publishing Company,
	New Delhi.
	11. Nair, N. B. (1996): Encyclopaedia of Surveying, Mapping and Remote Sensing.
	Rawat Publications, Jaipur and New Delhi.
	12. Raisz, E. (1962): Principles of Cartography. McGraw Hill Books Company
	Inc., New York.
	13. Misra, R.P. and Ramesh, A. (1999): <i>Fundamentals of Cartography</i> . Concept
	Publishing Company, New Delhi.
	14. Rhind, B. and Adams, T. (ed.) (1983): Computers in Cartography. British
	15 Robinson A H H Sale R Morrison I and Muehrcke P C (1984): <i>Elements</i>
	of Cartography. 6th edition, John Wiley and Sons, New York.
	16. Shaw, G. and Wheeler, D. (1994): Statistical Techniques in Geographical
	Analysis. Prentice Hall, Englewood Cliffs, New Jersey.
	17. Singh, R. L. and Singh, Rana P. B. (1993): Elements of Practical Geography.
	Kalyani Publishers, Ludhiana and New Delhi.
	18. Thrower, N. (1996): Maps and Civilisation Cartography, Culture and Society.
	University of Chicago Press, Chicago.
	19. Unwin, D. (1982): Introductory Spatial Analysis. Methuen and Company Ltd.,
	London. 20 Walford N (1995): Coographical Data Analysia John Wiley and Sons
	20. Wallold, N. (1995). <i>Geographical Data Analysis</i> . John Whey and Sons, Chickester
	21 Muchlenhaus I (2014) Web cartography: map design for interactive and
	mobile devices Boca Raton FL: CRC Press
	22. Peterson, M. P. (2014). Mapping in the cloud New York' London' The Guilford
	Press.
	23. Peterson, M. P., & International Cartographic Association (Eds.). (2003). Maps
	and the internet (1st ed). Amsterdam: London: Elsevier.



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium

3. High



School: SSHSS		Batch: 2024-2026				
Pro	ogramme: M.A.	Current Academic Year: 2024-2025				
	Geography					
Bra	nch: Geography	Semester: I				
1	Course Code	MGP102				
2	Course Title	Basics of Remote Sensing, Geographical Information System (GIS) and				
		Global Navigation Satellite System (GNSS) (Swayam)				
3	Credits	1				
4	Contact Hours	0-0-2				
	(L-T-P)					
	Course Type	Core MOOC Course (CC)				
5	Course Objective	The course will lead students to appreciate the basic comp	onents of Remote			
		Sensing and identify the different digital image processing and also expose				
		students in better understanding the application of remote sensing.				
6	Course	The student will be able to-				
	Outcomes	CO1: show the basic knowledge of remote sensing.				
		CO2: analysis applications of PS				
		CO4: appraise application GIS for human utility				
		CO5: construct models and application of knowledge of GNSS				
		CO6: formulate the gained understanding of RS, GPS and GNSS				
7	Course	During the course, the participants will be exposed to B	asic Principles of			
	Description	Remote Sensing, Earth Observation Sensors and Pla	tforms, Thermal			
		Remote Sensing, Spectral Signatures of Different Land cover Features and				
		Visual Image interpretation and Hyperspectral Remote Sensing				
		technology. The course also includes various digital Image processing				
		techniques namely Image Rectification and Registration, Image				
		Enhancement techniques, Image Classification Technique	ues and Accuracy			
		Assessment. Theoretical concepts are followed up with the practical				
		demonstration using free and open source software.				
	Unit 1	Remote Sensing and Digital Image Analysis	CO Mapping			
	A	• Basic Principles of Remote Sensing, Earth	CO1, CO2			
		Observation Sensors and Platforms Remote				
		Sensing.				





В	• Spectral Signature	e of different land cover	CO1, CO2				
	features, Image i	nterpretation, Thermal &					
	Microwave						
_	• Digital Image Pro	cessing: Basic Concepts of	CO1, CO3				
	Rectification and I	Registration, Enhancement,					
C	Classification an	d accuracy assessment					
	techniques.	2					
Unit 2	Global Navigation Satell	ite System					
Α	• Introduction to C	• Introduction to GPS and GNSS, receivers,					
	processing method						
В	Geographical In	formation System: GIS,	CO2, CO4				
	databases, topolog	у,	<u> </u>				
 С	• spatial analysis and	l open-source software	CO2, CO5				
Unit 3	RS and GIS Applications	5					
A	• Agriculture and Sc	il, Forestry and Ecology,	CO2, CO3				
В	• Geoscience and	Geo-hazards, Marine and	CO2, CO4				
	Atmospheric Scien						
С	• Urban and Reg	CO2, CO5					
	Resources						
Mode of	Online MOOC Swayam						
examination	Besides attempting and attaining the MOOC certificate. Students will						
	also be assessed at departr	nent level as per the university	y practical				
	rubrics.						
Weightage	IA EA						
Distribution	25% 75%						
Text Books	1. Gomarasca, M. A. (2	2009) Basics of Geometrics, Sp	ringer Science,				
	New York						
	2. Burrough, P. A., & N	IcDonnell, R., (2000). Principle	es of geographical				
	Information Systems, Oxford Press, London.						
Reference Books	1. Heywood, L. Comelius, S., and Carver, S. (1988) An Introduction						
	to Geographical Information Systems, Addison Wiley Longmont, New York.						
	2. Burrough. P.A 1986	: Principles of Geographical inf	formation Systems				
	for Land Resources	Assessment, Clarandone Press	, Oxford.				



3. Avery, T.V, Interpretation of Aerial Photography Burgass, Publishing
Company.
4. Gautham, N.C 1970: Urban Landuse Study Through Aerial Photo
binterpretations Techniques, Pink Publishing House, Mathura.
5. American Society of Photogrammetry, 1983: Manual of Remote
Sensing (2nd Edition), ASP Falls Church, Virginia.
6. Campbell, J 1984: introductory Cartography, Printers Hall Englewood
Cliffs, N.J
7. Dent B.D 1985: Principles of Thematic Map Design, Addition -
Wesley, Reading, Mass.
Web Sources
1. https://www.gislounge.com/web-based-gis/
2. https://www.giscourse.com/online-resources-for-gis/
3. https://www.esri.com/en-us/esri-press/browse
4. https://libguides.ucd.ie/gisguide/gisbooks
5. https://volaya.github.io/gis-book/en/gisbook.pdf
6. https://open.umn.edu/opentextbooks/textbooks/67

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

Medium
 High



Semester II



School: SSHSS		Batch: 2024-2026					
Pro	ogramme: M.A. Geography	Current Academic Year: 2024-2025					
Branch: Geography		Semester: II					
1	Course Code	MGO105					
2	Course Title	Applied Climatology and Biogeography					
3	Credits	4					
4	Contact Hours (L-T-P)	3-1-0					
	Course Type	Core Course (CC)					
5	Course Objective	In depth study of Climatology and Biogeography. The course indulges students in analysis of interrelationship between man and nature. The course will also expect students in detail discussion on floral and faunal provinces, its various dimensions, and methods of climate change analysis.					
6	Course Outcomes	The student will be able to; CO1: define the ddynamics of climate and related theories. CO2: interpret correlation between the Vegetation as an index of climate and climate. CO3: choose different aspects of floral and faunal provinces CO4: anlayse methods of weather predictions. CO5: appraise the role of man and climate change and various policies to reduce human impact on climate. CO6: build the theories of climate, practical aspects of climate and					
7	Course	Overall course is to foster comprehensive understanding	Overall course is to foster comprehensive understanding of atmospheric				
	Description	phenomena; dynamics and global climates.	~~~				
	Unit 1	Introduction to Climatology:	CO Mapping				
	A	 climate components and its impact, 	CO2, CO5				
	В	 Composition and Structure of Atmosphere; Radiation Laws – Wave, Particle, Stefans- Boltzman & Weins Law 	CO1, CO2				
	С	 Solar Constant; Process of Precipitation; Adiabatic CO1, CO temperature change and Gas Law; Stability and instability Theories of origin of precipitation and related forms;; ocean currents and oceanic influence on climate. 					
	Unit 2	Biogeography and climate					
	А	• methods and techniques of data analysis, downscaling methods, bioclimatology.	CO2, CO3				



В	Evolution	CO2, CO3				
~	provinces.		~~~~			
C	Ecological	successions: stages and climax.	CO2, CO3			
Unit 3	Representation of	Climatic data:				
A	Hythergrap	h & Ergograph	CO2, CO3			
В	• Trend anal	ysis: Rainfall and temperature and	CO2, CO3			
	Water Bala	Water Balance graph and Length of growing				
	period					
С	Surface soi	Surface soil loss equations of watersheds				
	 Flood freq 	uency analysis: Waybill's plotting				
	position, C	Sumbel and Log Pearson Type-III				
	distribution	s, Water balance analysis; Humidity				
	and aridity	indices				
Unit 4	Methods of weath	er analysis and prediction				
А	Empirical C	CO3, CO4				
В	Exceedance characterist	CO3, CO4				
С	regression	CO3, CO4				
	models for					
Unit 5	Climatic changes					
А	Causes ar	• Causes and theories: Global warming –				
	Evidences,	causes and effects; Atmospheric				
	Hazards and	d Disasters,				
В	climate and	society,	CO6			
С	• weather and	l health.	CO5, CO6			
Mode of	Theory					
examination						
Weightage	IA	EA				
Distribution	25%	75%				
Text book/s						
	 Huggett, R.J. 1998. <i>Fundamentals of Biogeography</i>, Routeldge, U.S.A. Lal, D. S. 2003. <i>Climatology</i>, Allahabad: Sharda Pustak Bhawan. 					
Reference Books	1. Clarke, G. L. 196	n Wiley Pub.				


	 Haden-Guest, S., Wright, J. K. and Teclaff, E. M. 1956. World Geography of Forest Resources, New York: Ronald Press Co. Hoyt, J.B. 1992. Man, and the Earth, Prentice Hall, U.S.A. Mathur, H.S. 1998. Essentials of Biogeography, Anuj Printers, Jaipur. Mountain and Tree cover in Mountain Regions Report. 2002, UNEP- WCMC.
	6. Singh Savindra 2015. Paryawaran Bhoogol, Prayag Pushtak Bhawan, Allahabad (Hindi).
	7. Sivaperuman, Chandrakasan et al. 2018. <i>Biodiversity and Climate Change Adaptation in Tropical Islands</i> . Academic Press, London.
	8. Trewartha G. T., 1980. <i>An Introduction to Climate</i> , McGraw Hill Company, New York.
	9. Antonio Navarra, Valeria Simoncini, 2010. A Guide to Empirical Orthogonal Functions for Climate Data Analysis, Springer, Dordrecht, The Netherlands.
	10. Antonio NavarraEugenia Kalney, 2003, Atmospheric Modeling, Data Assimilation and Predictability, Cambridge University Press, London.
	11. John E Hobbs, 2016. <i>Applied climatology: A study of Atmospheric Resources</i> , Elsevier, London
	12. Russell D. Thompson and Allen Perry (eds.), 1997. <i>Applied Climatology: Principles and Practice</i> , Routledge, London.
	 Swadhin Behera and Toshio Yamagata 2016. <i>Indo-Pacific Climate Variability and Predictability</i>, World Scientific, Singapore. Tim Palmer and Renate Hagedorn (eds.), 2006. <i>Predictability of Weather and Climate</i>, Cambridge University Press, London



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SSHSS		Batch: 2024-2026				
Pro	ogramme: M.A.	Current Academic Year: 2024-2025				
	Geography					
Bra	nch: Geography	Semester: II				
1	Course Code	MGO106				
2	Course Title	Development theory, Regional Planning and Policy				
3	Credits	4				
4	Contact Hours (L-T-P)	3-1-0				
	Course Type	Core Course (CC)				
5	Course Objective	Development and Regional planning is a field concerned with analytical approaches to problems that are specifically regional in nature. In the broadest sense, any social science analysis that has a spatial dimension is embraced by regional scientists. The aim of the course is to expose learners to a wide variety of techniques and methods used in regional analysis				
6	Course Outcomes	The student will be able to; CO1: conceptually understand the regional planning in de CO2: show the various planning processes of cities. CO3: select the issues which are important for social plan CO4: discover the economic elements critical for plannin CO5: evaluate planning methods and standards to categor processes. CO6: predict solutions and critically understand the regio dimensions.	evelopment concerns. uning of spaces. g. rise planning onal planning process			
7	Course Description	The course will enable students to appreciate and analysis region's economic analysis in regional studies. The course comprehensive analyse the significance of decision analysis	se the implications of se will further give a and spatial statistics.			
	Unit 1	Foundation of Regional planning	CO Mapping			
	A	• Origin and Context, Concept of Space and Region,	CO2, CO5			
	В	Rationalization of Regional Planning and Spatial Policy.	CO1, CO2			
	С	• Definitions of town and country planning, Orthodoxies of planning, sustainability and rationality in planning, Components of sustainable urban and regional development	CO1, CO2			
	Unit 2	Types of Development Plans				
	А	• Plan making process, planning methodology and	CO2, CO3			



В	Case studies. <i>International</i> , London Master Plan, Chicago master Plan,	CO2, CO3
С	Case studies. National, Calcutta Master Plan, Delhi Master Plan and Madras Master Plan	CO2, CO3
Unit 3	Social planning and policy;	
A	• Community participation; Marginalization and concepts of inclusive planning, Gender concerns. Settlement Policy:	CO2, CO3
В	• National Commission on Urbanisation, Rural Habitat Policy – Experiences in developing countries regarding Settlement structure, growth and its spatial distribution.	CO2, CO3
С	• urban and rural social transformation and its effects on social life, safety, security and crime in urban areas and its spatial planning implications, social structure and spatial planning;	CO2, CO3
Unit 4	Elements of Micro and Macro Economics	
А	• Concepts of demand, supply, elasticity and consumer market; concept of revenue cost. Economic principles of land use planning	CO3, CO4
В	• Economies of scale, economic and social cost, production and factor market;	CO3, CO4
С	• Policies and strategies of economic planning, balanced vs. unbalanced growth, public sector dominance; changing economic policies, implications on land and case studies.	CO3, CO4
Unit 5	Planning Standards and technique	
A	• Spatial standards, performance standards and benchmarks, variable standards. UDPFI guidelines, zoning regulations and development controls.	CO2, CO6
В	 Theil's index, rations: urban – rural, urban concentration, metropolitan concentration; Social area and strategic. choice approach – interconnected decision area analysis. 	CO6
С	 Location dimensions of population groups – Social area and strategic choice approach – inter connected decision area analysis. 	CO5, CO6



Mod	de of	Theory	
exar	mination		
Wei	ghtage	IA	EA
Dist	ribution	25%	75%
Tex	t Book/s	1. Glasson John an	d Marshall Tim, 2007. Regional Planning, Taylor and
		Francis, London and	d New York.
		2. Hall Peter and Te	wdwr-Jones Mark, 2010. Urban and Regional Planning,
		Routledge, London	and New York.
		3. Kulshreshta S.	K. 2012. Urban and Regional Planning in India: A
		Handbook for Profe	essional Practice, Sage, New Delhi.
Refe	erence Books	1. Lichfield N., K	Lettle P. and Whitbread M. 2016. Evaluation in the
		Planning Process: Elsevier.	The Urban and Regional Planning Series (Volume 10),
		2. RahmaanA. U. 2	011. The Imperatives of Urban and Regional Planning:
		Concepts and Case	Studies from the Developing World, Xlibris Corporation.
		3. Stiftel B. and	Watson V. 2005. Dialogues in Urban and Regional
		Planning, Psycholo	gy Press.
		4. Wang X. and Ho	ofe R. 2008. Research Methods in Urban and Regional
		Planning, Springer.	
		5. Wong C. 2006.	. Indicators for Urban and Regional Planning: The
		Interplay of Policy	and Methods, Routledge
		6. Davis H. Craig, 1 UBC Press	1990. Regional Economic Analysis and Project Evaluation,
		7. Ebdon David. 1985	5. Statistics in Geography, Basil Blackwell.
		8. Isard Walter, 1960	. Methods of Regional Analysis: An Introduction to Regional
		Science, MIT and Joh	nn Wiley & Sons, Inc.
		9. Isard Walter, <i>et.</i> Aldershot Ashgate	Al. 1998. Methods of Interregional and Regional Analysis,
		10. Klosterman, R.	E. 1990. Community Analysis and Planning Techniques,
		Rowman & Littlefiel	d Savage, Maryland.
		11. Krueckeberg, Don Methods and Models.	nald A. and Silvers Arthur L. 1974. <i>Urban Planning Analysis:</i> John Wiley, NY.
		12. Maki, Wilbur	and Lichty Richard, 2000. Urban Regional Economics:
		Concepts, Tools, App	lications, Iowa State Univ. Press.
		13. Oppenheim, Norl Prentice-Hall New I	bet, 1980, Applied Models in Urban and Regional Analysis, ersev
		14. Trevz George I. 1	993. Regional Economic Modelling: A Systematic Approach
		to Economic Forecas	ting and Policy Analysis, Academic Publishers, Boston.



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SSHSS		Batch: 2024-2026				
Pro	gramme: M.A.	Current Academic Year: 2024-2025				
	Geography					
Brai	nch: Geography	Semester: II				
1	Course Code	MGO107				
2	Course Title	Settlement Geography				
3	Credits	4				
4	Contact Hours (L-T-P)	3-1-0				
	Course Type	Core Course (CC)				
5	Course Objective	The course will introduce students to the settlement	aspects of human			
		spatial interaction while giving them in depth understar	nding of history of			
		settlement, rural urban dimensions, and growth of mode	ern settlements.			
6	Course	The student will be able to;	d as sout turn da in			
	Outcomes	Settlement Geography	a recent trends in			
		CO2: interpret and relate main aspects of rural settlement of the world				
		CO3 identify the evolution of Indian villages and changes occurred so far				
		CO4: list the urban settlement and principles of urban hierarchies.				
		CO5: evaluate the policies for a better settlement evolution in India.				
		CO6: propose the settlement factors, policies vis a vis global change.				
7	Course	To provide an understanding of evolutionary, morphological and				
	Description	functional attributes of settlement at different scales.	To sensitize the			
		students about contemporary settlement issues and	concern in the			
	Unit 1	Settlement Geography	CO Mapping			
		Settlement Geography definition nature and	CO2 CO5			
	11	• Settlement Ocography, definition, nature and	002,005			
		Geography				
	D	Geography	CO1 CO2			
	D	• Settlement types, characteristics and	01,002			
		differences. Human settlement as a system.	G01 G02			
	С	Factors influencing settlements.	CO1, CO2			
	Unit 2	Geography of Rural settlements				
	Α	• Characteristics of rural settlements; Theories	CO2, CO3			
		and models of settlement diffusion: Eric				
		Bylund (Sweden), Gunnar Olsson (Sweden),				







Mode of	Theory	
examination		
Weightage	IA	EA
Distribution	25%	75%
Text book/s*	1.Daniel, P. (2 and New De 2.2.Eidt, R. C., Sin and Settlement.	2002): Geography of Settlement. Rawat Publications., Jaipur elhi. ngh, K. N. and Singh, Rana, P.B., (eds.) (1977): Man, Culture . Kalyani Publishers., New Delhi.
Reference books	1. Desai, A.R. (20 2. Bahskar, G. and The impact of Glo	19): Rural Sociology, Popular Prakashan, Bombay. d Reddy, A.V. (2005): Rural Transformation in India: balization New Century Publication New Delhi
	3. Jha, H. P. and R University Press, N	odger G. (2018): The changing village in India, Oxford New Delhi.
	 4. Bhattacharya, S Development in E 5. Fraster, T.G. (2 D.K.Printworld, D 	. (2012): Challenges of Livelihood and Inclusive Rural ra of Globalization, Raj Publisher, Jalandhar, Punjab. 013): Indians Rural Transformation and Development, belhi.
	6. Ghosh, S. (19) Kolkata.	99): A Geography of Settlements. Orient Longman,
	Evans, New York.	(1970). A Geography of Settlements. MacDonald and
	Patterns in India. I 9. Oliver, P. (1987) of Taxas Press. Al	Publication Division, Govt. of India, New Delhi. 7): Dwellings. The House across the World. University
	10. Rapoport, A. Englewood Cliffs,	(1969): House, Form and Culture. Prentice-Hall, Inc., NJ.
	II. Rykwert, J. (Press, University I	ed.) (2004): Settlements. University of Pennsylvania Park, USA.
	National Geograph	hical Society of India, Varanasi.
	Readings in Rural of India, Varanasi.	Settlement Geography, National Geographical Society
	14. Singh, R. L. a Rural Habitat in I India, Varanasi, Pu	nd Singh, Rana P. B. (eds.) (1978): Transformation of Indian Perspective, National Geographical Society of ub. 19.
	15. Singh, R.L., Geographic Dime Society of India, V	Singh, K.N and Singh Rana P.B., (eds.) (1976): ensions of Rural Settlements. National Geographical Varanasi,
	16. Schwartzberg, Press, Chicago, 19	J.: Historical Atlas of South Asia, Chicago University 880.



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SSHSS		Batch: 2024-2026					
Pro	ogramme: M.A.	Current Academic Year: 2024-2025					
	Geography						
Bra	nch: Geography	Semester: II					
1	Course Code	MGO108					
2	Course Title	Historical Geography					
3	Credits	4					
4	Contact Hours (L-T-P)	3-1-0					
	Course Type	Core Course (CC)					
5	Course Objective	Historical geography includes the history of exploration and map-making as well as the evolution of the academic discipline of geography itself. Historical geography has come to be a sub-discipline that studies how people influence the shaping of geographies over time					
6	Course Outcomes	The student will be able to; CO1: recall the evolution of historical geography. CO2: classify different sources of evidences and data collect CO3: construct the natural world and human world CO4: examine the growth of human Civilisation and powe civilizations. CO5: theoretically evaluate the Indian civilizational spread is and interconnection of civilisation in ancient world. CO6: formulate the historical geographical aspects in totality	tion methods er structure in these in vedic, budhist y.				
7	Course Description	A study of the various ways in which history has affected and by geography, including but not limited to physical, pol- environmental elements. Topics may include the eme- civilizations, the spread of Islam, and global commercial re- goal of this course is to prepare students for an interconnected	nd has been affected itical, cultural, and orgence of ancient elations. An overall ed world.				
	Unit 1	Evolution of Historical Geography:	CO Mapping				
	А	• Nature and Scope of Historical Geography. Its relationship between history and geography.	CO2, CO5				
	В	• Introduction, early (1700-1920) modern (1920-50),	CO1, CO2				
	С	• contemporary (1950 onwards).	CO1, CO2				
	Unit 2	Sources of evidence and data.					
	A	• religious texts, epics and literary sources; travel accounts, archival sources, chronicles, old maps, revenue records; limitations of sources.	CO2, CO3				
	B	Archival research	CO2, CO3				



С	Dendrochro	nology, Geological time scale and	CO2, CO3			
	Carbon dati	Carbon dating				
Unit 3	Re-construction of	Natural World: physical environment, l	andscape			
А	Thinking lik	te a geographer; Climate and History	CO2, CO3			
В	Borders and	Migration	CO2, CO3			
С	• Sino- Indian	a sub-continent	CO2, CO3			
Unit 4	Historical Geograp	hies of Human World:				
А	Power and c	ontrol (Population, and Civilization)	CO3, CO4			
В	Rural transf	ormations and urbanisation	CO3, CO4			
С	• industrialisa	tion, trade and transport and	CO3, CO4			
	communicat	tion. (Major land and ocean routes)				
Unit 5	Historical Geography of India					
А	Differences	in the geographical approaches of	CO2, CO6			
	ancient phil	osophers				
В	• Vedic, Buddhist, and medieval geography and CO6					
	Janapadas; a	administrative organization of space				
С	Assimilatio	n and geographical branches,	CO5, CO6			
	travelers an	d traders.				
Mode of	Theory					
examination						
Weightage	IA	EA				
Distribution	25%	75%				
Text Book/s	1. Robin But	lin, Historical Geography: Through the	he Gates of Space			
	and Time (I	London, 1993)				
	2. Brian Gral	ham and Catherine Nash (Harlow	, 1999); Modern			
	Historical (Geographies. Cambridge				



Reference bo	oks 3 H C Darby The Relations of History and Geography: Studies in
	England, France and the United States (Exeter, 2002)
	4. Bruce M S. Campbell and Ken Bartley. England on the Eve of the
	Black Death: an Atlas of Lav Lordship. Land and Wealth. 1300–
	49 (Manchester, 2006): Mark Overton, Agricultural Revolution in
	England: the Transformation of the Agrarian Economy (Cambridge,
	1996)
	5. Charles W. J. Withers and Miles Ogborn (Manchester, 2004)
	Georgian Geographies: Essays on Space, Place and Landscape in the
	Eighteenth Century, ed.
	6. Michael Williams, The relations of environmental history and
	historical geography', Journal of Historical Geography, 20 (1994), 3–
	7 Alan R H Baker Geography and History: Bridging the
	Divide (Cambridge, 2003), pp. 37–71
	8. Ali, S.M. 1966. <i>The Geography of the Puranas</i> , People's Publishing
	House, Delhi.
	9. Baker, A.R.H (ed.) 1972. Progress in Historical Geography, David and
	Charles.
	10. Baker, A.R.H., Hamshere, J.D., Langton, J., 1972. Geographical
	Interpretation of historical Sources, David and Charles.
	11. Bharadwaj, O.P., 1986. Studies in the Historical Geography of Ancient
	India, Sundeep Prakashan, Delhi.
	12. Butin, Robin A., 1993. Historical Geography: Through the Gates of Space
	and Time, Edward Arnold, London.
	13. Brian Fagan, The Little Ice Age: How Climate Made History, 1300-1850,
	Basic Books, 2000, ISBN: 978-0-465-02272-4
	14. David R. Montgomery, Dirt: The Erosion of Civilizations, 2nd Ed.,
	University of California Press, 2012, ISBN: 978-0-520-27290-3
	15. Graham Brian, Nash Catherine, 2000. Modern Historical Geographies,
	Longman, Essex, England.
	16. Guelke, L., 1982. <i>Historical Understanding in Geography: An idealist approach</i> , Cambridge University Press, Cambridge.
	17. Law, B., 1968. <i>Historical Geography of Ancient India</i> , Societe Asiatique
	deiParis, Paris.
	18. Pacione, M., 1987. Historical Geography: Progress and Prospect, Croom
	Helm, London.
	19. Roberts, P.E., 1995. Historical Geography of India, Vol. I & II, Printwell,
	Jaipur.



20. Sircar, D.C., 1971. Studies in the Geography of Ancient and Medieval
India, Motilal banarasi Dass, India
21. Tamaskar, B.G., 1985. <i>Contributions to Historical Geography of India</i> , Inter-India Publications, New Delhi.
 Baker, Alan R. H. "The Dead Don't Answer Questionnaires': Researching and Writing Historical Geography." <i>Journal of Geography in Higher</i> <i>Education</i> 21.2 (1997): 231–243. DOI: 10.1080/03098269708725427
 23. Black, Iain S. "Analysing Historical and Archival Sources." In <i>Key Methods in Geography</i>. 2d ed. Edited by Nicholas Clifford, Shaun French, and Gill Valentine, 466–484. London: SAGE, 2010.
24. Craggs, Ruth. "Historical and Archival Research." In <i>Key Methods in Geography</i> . 3d ed. Edited by Nicholas Clifford, Meghan Cope, Thomas Gillespie, and Shaun French, 111–128. London: SAGE, 2016.
25. Alexendar Cunnigham (1871) <i>The Ancient Geography of India</i> , Trubnu & Company
26. Bimala Churna Lal (1954) <i>Historical Geography of India</i> , Societe Asiatique de Paris. Paris
27. Sircar (1960) <i>The Studies in the Geography of Ancient and Medieval India</i> , Motilal Banarsidas Publication House,
28. Bechan Dubey (1965) <i>Geographical Concepts in Ancient India</i> , Ph.D. thesis BHU, <u>http://hdl.handle.net/10603/340404</u>
29. S.M. Ali (1966) <i>The Geography of Puranas</i> , Peoples Publication House, New Delhi
30. Habeeb, I.: An Atlas of the Mughal Empire, Oxford University Press, Delhi, 1982.
31. Norton, W.: Historical Analysis in Geography. Longman, New York, 1984.
32. Schwartzberg, J.: Historical Atlas of South Asia, Chicago University Press, Chicago, 1980.



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1.High, 2 Medium, 3 Low



School: SSHSS		Batch: 2024-2026						
Pro	gramme: M.A. Geography	Current Academic Year: 2025-2026						
Brai	nch: Geography	Semester: II						
1	Course Code	MGP103						
2	Course Title	Research Methods and Statistical techniques in Spa	tial Analysis					
3	Credits	3						
4	Contact Hours (L-T-P)	1-0-4						
	Course Type	Core Course (CC)						
5	Course Objective	This course attempts to introduce the students to the basic knowledge related to geographical field research design. The course examines the questions related to data collection, methods, and its analysis. It also critically evaluates the dissertation based on field survey.						
6	Course Outcomes Course Description	 The student will be able to; CO1: learn the methods of data collection. CO2: apply relevant statistical techniques as per the selected topics. CO3: classify and select the locational analysis. CO4: apply network analysis. CO5: spatial statistical analysis and model simulation in the dissertation work. CO6: plan field work through practical experience and get skills of data collection methods and processing and analysis of obtained data. The course gives in depth understanding of the basic concepts of field research methods and research design in geography. The course especially 						
	Unit 1	work on given topic.	CO Manning					
	A	 Collection of data: methods, sources and types; Sampling procedures: random, stratified random, systematic and cluster;. 	CO2, CO5					
	В	• Classification and tabulation of data;	CO1, CO2					
	С	• Data input in computer and analysis through Excel application and SPSS software						
	Unit 2	Statistical methods						
	А	• The normal frequency distribution curve and its characteristics; Curve fitting;	CO2, CO3					





В	•	Test of significanc t-test, F-test, analy	e: chi-square test, stude sis of variance	ent's	CO2, CO3
 С		Analysis of time s	CO2, CO3		
Unit 3	Locati	onal Analysis:			
А	•	Absolute and relati of randomness, dispersion;.	CO2, CO3		
В	•	Nodes-population size and shape: hierarchy of se Interaction: movem	CO2, CO3		
С	•	Service area and interactions zones industrial location	ons, and	CO2, CO3	
Unit 4	Netwo	rk Analysis			
А	•	Topologic structure barrier networks networks shape and	res: branching, circuit ; Geometric structu d density, pattern and or	and res: der;	CO3, CO4
В	•	Matrix analysis: accessibility, sym matrix, diameter, p multiplication and	vity, rical atrix	CO3, CO4	
С	•	Derivation of con third order connec matrix; Calculat accessibility of a n	nectivity matrix, second ctivity matrix, accessib ion of nodal deg ode, total possible paths	d & ility gree,	CO3, CO4
Unit 5	Spatia	l statistical analysi	S		
A	•	binomial test, t-tes Analysis of variand	t, Mann-Whitney U test, ce; Multivariate		CO2, CO6
В	•	analysis; Gravity surface analysis –	potential model; Tr	rend	CO6
С	•	simulation model,	diffusion models		CO5, CO6
Mode of examination	Practic	al			
Weightage	IA	EA			
Distribution	25%	75%			



Text Book/s	 Black, James A. and Champion, D.J. 1976. <i>Methods and Issues in Social Research</i>, John Wiley and Sons, New York. Bonnett, Alastai, R. 2008. <i>What Is Geography?</i> Sage, London. Creswell, J. W. 2009. <i>Research Design: Qualitative, Quantitative and Mixed Methods Approaches</i>, Sage, California, USA
Reference books	 Gopal, Krishan and Singh, Nina, 2016. Researching Geography: The Indian Context. Routledge, Delhi. Harris, C. 2001. Archival Fieldwork, Geographical Review, 91 (1-2), 328-334 Hart, C. 1999. Doing Literature Review: Releasing the Social Science Research Imagination, Sage, London. Hay, I. 2010. Qualitative Research Methods in Human Geography, 3rd ed. Oxford University Press, South Melbourne, Australia, Lunsbury J.F. and Aldrich, F.T. 1979. Introduction to Geographic Field Methods and Techniques, Charles E. Mercill Publishing Company, Columbus. Misra, R. P. 2015. Research Methodology: A Handbook, Concept Publishing Company, New Delhi. Montello, Daniel R. and Sutton, P.C. 2006. An Introduction to Scientific Research in Geography, Sage Publications, London. Oliver, Paul, 2004. Writing Your Thesis, Vistaar Publications, New Delhi Preece, R. 1994. Starting Research: An Introduction to Academic Research and Dissertation Writing, Continuum, London. Sharma, P.R., R. S. Yadava and Sharma, V.N. 2011. Research Methodology: Concepts and Studies, R. K. Books, New Delhi. Stoddard, Robert H. 1982. Field Techniques and Research Methods in Geography, Kendall/Hunt for National Council for Geographic Education



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



S	chool: SSHSS	Batch: 2024-2026	
Pro	ogramme: M.A.	Current Academic Year: 2024-2025	
	Geography		
Bra	nch: Geography	Semester: II	
1	Course Code	MGP105	
2	Course Title	Municipal Solid Waste Management	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Type	Core Course (CC)	
5	Course Objective	Solid waste management is an essential part of every	y society, but it is
		also one of the most neglected ones. An in-depth une	derstanding of the
		subject is required to tackle the current solid waster	nanagement crisis
		effectively. This course attempts to familiarize various	s steps involved in
	Carrier Orate and a	Solid waste management.	
0	Course Outcomes	CO1: show and understand the meaning and important	non of solid wasta
		management historically	lice of solid waste
		CO2: analyse main processes of waste handling	
		CO3: choose transporting waste from collection centre	26
		CO4: classify and compare the methods of landfill site	e selection.
		CO5: critically understand the social and economic fac	ctors of waste
		management.	
		CO6: discuss and test the solid waste management of	urban areas.
7	Course	The problems affiliated with solid waste management	(SWM) in today's
	Description	sprawling civilized and urbanized society are intrica	te because of the
		quantity and varied nature of wastes, the funding res	triction for public
		disposal, interference of technology (energy and ra	w materials), and
		complex infrastructure development network in urban	cities. As a result,
		If SWM is to achieve in consummate approach, the fun	damentals aspects
	Linit 1	need to be identified.	CO Monning
	Unit I	Evolution, sources, Types, and Generation of Solid Wosto	CO Mapping
	Δ	Introduction to solid waster functional	CO2 CO5
		elements, estimation of solid waste quantity	
	В	• types and sources of solid waste Sampling	CO1. CO2
		and characteristics	
	C	• Factors affecting solid waste generation rate	CO1. CO2



Unit 2	Wate handling, s	torage, processing and types of co	llection of Solid	
	waste			
А	Handling Separati	on and storage at source;	CO2, CO3	
В	Processing at sour	ce	CO2, CO3	
С	Primary collection	; Types of collection system	CO2, CO3	
Unit 3	Analysis of Solid	waste collection system and types	of Transfer	
	station			
А	Analysis of collec	tion system (I)	CO2, CO3	
В	Analysis of collec	tion system (II)	CO2, CO3	
С	Analysis of collect of Transfer station	tion system (III), Need and Types	CO2, CO3	
Unit 4	Landfill			
А	Site selection and	types of landfill	CO3, CO4	
В	Leachate collectio	n and treatment	CO3, CO4	
С	Designing and bio	-mining of old dump sites	CO3, CO4	
Unit 5	Special waste and	l Integrated Solid waste managem	nent	
А	construction and d	lemolition waste	CO2, CO6	
В	Management of B waste	io-medical, e-waste and inert	CO6	
С	Municipal waste n	nanagement rules	CO5, CO6	
	Public private partnership and financing MSWM			
Mode of	Theory			
examination				
Weightage	IA	EA		
Distribution	25%	75%		
Text Book/s	1. Banwari Lal and	d Reddy, M R V P (Eds.) (2005). W	ealth from waste:	
	trends and technol	ogies. (2nd ed.). New Delhi: TERI.		
	2. Bilitewski, Berr	nd (1997). Waste management. Berl	in: Springer-	
	Verlag.			
Reference books	3. Bonomo, Luca	and Higginson, A.E. (Eds.) (1988).	International	
	overview on solid	waste management: a report from the	he international	
	solid wastes and p	ublic cleansing association. London	: Academic Press.	
	628.44/.45 -INT			
	4. Chandra, Ram (Ed.) (2016). Environmental waste n	nanagement. Boca	
	Raton: CRC Press			
	5. Cheremisinoff	, Nicholas P. (2003). Handbook	a of solid waste	
	management and v	vaste minimization technologies. Ox	ford: Butterworth-	
	Heinemann.			
	6. Curi, Kriton (Ed	d.) (1985). Appropriate waste manag	gement for	
	developing countr	ies. New York: Plenum press. 628.4	4/.49(063)	



7. Dawson, Gaynor W. and Mercer, Basil W. (1986). Hazardous waste
management. New York: Wiley-Interscience.
8. Dominguez, George S. and Bartlett, Kenneth G. (Eds.) (1986).
Hazardous waste management. Florida: CRC Press. 628.44 -HAZ
112228
9 Eduliee G. H. and Harrison, R. M. (2020). Electronic Waste
Management (2nd ed.) London: RSC Publishing 628 54:621 38 -FLE
177513
10 Fell Robin Phillips Tony and Gerrard Charles (Eds.) (1993)
Geotechnical management of waste and contamination. Proceedings of
the conference on Geotechnical management on waste and contamination
held at Sydney from 22.22 March 1002 Detterdom, A. A. Delkome
field at Sydney from 22-25 March, 1995. Rotterdam: A. A. Barkema
028.5
11 Costochnical Encineering Program (1096) Costochnical and
11. Geolecinical Engineering Program (1980). Geolecinical and
geonyurological aspects of waste management. Proceedings of the 8th
annual symposium on geolechnical and geonydrological aspects of waste
management held in Fort Collins on 5-7 February 1980. Rotterdam: A.A.
Balkella $024.13:028.10(003)$
12. Glustozzi, Filippo, Nizamuddin, Sabzoi (Eds.) (2022). Plastic waste
for sustainable asphalt roads. Cambridge: Elsevier.
13. Goel, Sudha (Ed.) (2017). Advances in solid and hazardous waste
management. New Delhi: Capital Publishing. 628.4.032 - ADV
171020 CL 14. Hagerty, D.Joseph, Pavoni, Joseph L. and Heer, John
E. (1973). Solid waste management. New York: Van Nostrand. 628.44
15. Hester R.E. and Harrison R.M. (Eds.) (2009). Electronic waste
management: design, analysis and application. Cambridge: Royal
Society of Chemistry.
16. Jana, B. (Ed.) (2000). Waste recycling and resource management in
the developing world: ecological engineering approach. Kalyani:
University of Kalyani. 628.1/.6 -WAS
17. Kalamdhad, Ajay S (Ed.) (2021). Integrated approaches towards
solid waste management. New Delhi: Capital Publishing.



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



Se	chool: SSHSS	Batch: 2024-2026					
Pro	gramme: M.A.	Current Academic Year: 2024-2025					
	Geography						
Brai	nch: Geography	Semester: II					
1	Course Code	MGP104					
2	Course Title	Geographical field training					
3	Credits	3					
4	Contact Hours (L-T-P)	1-0-4					
	Course Type	Core Course (CC)					
5	Course Objective	This course is intended to give students practical experience useful i designing and implementing a research project in geography. Th principal area of expertise is physical geography, but the course wi emphasize surveying, mapping, and sampling approaches that appl across intradisciplinary boundaries.					
6	Course	The student will be able to;					
	Outcomes	CO1: engage students in field training.					
		CO2: get exposure to the unfamiliar topographical region	on.				
		CO3: carry geographical instruments to practice on field	d.				
		CO4: carry out research in different physical settings.					
		CO5: prepare geography research report by creating evi	dence material				
		and mapped.	• • • •				
		enquiry	iysical geography				
7	Course	The course is structured to include instructional, and or	rganizational time				
	Description	each week, along with several full days in the field.	Fieldwork will be				
	1	occasionally strenuous and will almost certainly take p	lace regardless of				
		inclement weather. Students should be prepared to work	in rain, snow, ice,				
		sleet, wind, cold, dense brush, viscous mud, and both flo	wing and standing				
		water, although hopefully not all these hazards will be a	encountered at the				
		same time. The students will travel to any area which ha	as different terrain				
		features.					
	Unit 1	Principles of field training:	CO Mapping				
	A	• Meaning and objectives; Field as laboratory	CO2, CO5				
		of geography;					





В	Contents	of field training: physical, social,	CO1, CO2				
	economic	and cultural;					
	• Field tra	CO1, CO2					
С	based rep						
Unit 2	Field Visit						
Α	• Students	will undertake field training for 2 to 3	CO2, CO3				
	weeks du	ration in any region of India having					
	geographi	cal importance					
В	Physical a	analysis of the location	CO2, CO3				
С	Group wi	se presentation	CO2, CO3				
Mode of	Practical						
examination							
Weightage	IA	EA					
Distribution	25%	75%					
Readings	1. Archer, J.E. and	nd Dalton, T.H. (1968): Field Work in	Geography.				
	William Clowes	and Sons Ltd. London and Beccles.					
	2. Lousenbury, J	. F. and Aldrich, F. I. (1986): <i>Introduct</i> ad Techniques, Charles E. Marrill Public	lighting Company				
	Colombus.	a rechniques. Charles E. Merrin rub.	iisiinig. Company,				
Reference Book	1. Bolton, T. and	Newbury, P.A. (1968): Geography th	rough Fieldwork.				
	Blandford Press,	London.	-				
	2. Jones, P. A. (1	968): Field Work in Geography. Long	mans, Green and				
	Company Ltd., L	ondon and Harlow.					
	3. Pugh, J.C. (19	(5): Surveying for Field Scientists. Me	thuen and				
	4 Parsons Tony	and Knight Datar G (2005): How to	do vour				
	4.1 alsons, 10hy Dissertation in G	eography and Related Disciplines Ro	utledge London				
	2nd Ed.		uneuge, Londoni				
	5. Kitchen, Rob a	nd Tate, Nicholas J. (2009): Conducti	ng Research into				
	Human Geograph	hy: Theory, Methodology & Practice.	Prentice Hall-				
	Pearson, Harlow	U.K. 2nd Ed.					
	6. Kitchen, Rob a	and Fuller, Duncan (2005): The Academ	mic's Guide to				
	Publishing. Vista	ar Publs. (Sage), New Delni.	a in Uuman				
	<i>Geography</i> Ovf	(2003): Quananive Research Method and University Press, Melbourne, 2nd I	s m пuman Fd				
	8. Hav Jain (ed.)	(2004). Communicating in Geograph	v and the				
	Environmental Se	ciences. Oxford University Press. Mell	bourne. 2nd Ed.				



9. Stoddard, Robert H. (1982): *Field Techniques and Research Methods in Geography*. Kendall/Hunt Pub. Dubuque IO.

COs- POs Matrix

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



SEMESTER III



School: SSHSS		Batch: 2024-2026				
Pro	gramme: M.A.	Current Academic Year: 2025-2026				
	Geography					
Brai	nch: Geography	Semester: III				
1	Course Code	MGO201				
2	Course Title	New Economic Geography				
3	Credits	4				
4	Contact Hours (L-T-P)	4-0-0				
	Course Type	Core Course (CC)				
5	Course Objective	The course significantly frame economic aspects of social, cultural and political factors as central to the functioning of economies; and that the economic processes needs to be analysed in social, cultural and political contexts				
6	Course	The student will be able to;				
	Outcomes	CO1: understand the concept of new economic geography	<i>.</i>			
		CO2: compare and explain stages of growth in economic	systems.			
		CO3: analyse the importance of information in spatial eco	onomics.			
		CO4: imagine and elaborate in catalytic relationship	p between the			
		CO5: further link the local and global economy				
		CO6: theorise the new economic approaches in analysing	global aspects.			
7	Course	The course New economic geography provides an integra	ated and micro-			
	Description	founded approach to spatial economics. It emphasize	es the role of			
	-	clustering forces in generating an uneven distribution of ec	onomic activity			
		and income across space. The approach has been applied to	o the economics			
		of cities, the emergence of regional disparities, and	the origins of			
	TT •4 1	international inequalities.	CO M ·			
	Unit I	Introduction to Spatial Economics and concept of	CO Mapping			
		New economics	<u> </u>			
	A	• The re-discovery.	CO2, CO5			
	В	• Issues in spatial economic systems;	CO1, CO2			
	С	Economic-geographic links	CO1, CO2			
	Unit 2	Stages of Growth				
	A	Evolution of Economic Systems and Sectors	CO2, CO3			
	В	 Stages of economic growth; evolution of economic systems; 	CO2, CO3			



С	• Three-sector society; infor accounting	hypothesis and post-industrial rmal economy and social	CO2, CO3				
Unit 3	Information and K	tems:					
А	• Information attention	CO2, CO3					
В	• Knowledge e	CO2, CO3					
С	• Creative ind recreating ec	dustries and cultural economies, onomic spaces	CO2, CO3				
Unit 4	Economies of Urba	n Systems:					
А	• FIRE & ICE	economies and global cities	CO3, CO4				
В	• City re-imaging, city branding and place CO3, CO4 marketing						
С	Place-making	g and place-led development	CO3, CO4				
Unit 5	Space-Economy of International Systems:						
А	Economic gr	CO2, CO6					
В	Economic co	CO6					
С	• Sustainable of partnership for the second	CO5, CO6					
Mode of	Theory	· · · · · · · · · · · · · · · · · · ·					
examination							
Weightage	IA	EA					
Distribution	25%	75%					
Text book/s	1. Anderson Will	liam P. 2012. Economic Geograp	hy, Routledge,				
	London.		007 E ·				
	2. Coe N. M., Ke	IIY P. F. and Yeung H. W. C. 20 amportant Introduction Blackwell Ox	007. Economic				
Reference Books	1. Dicken P. 1990. (Global Shift: Mapping the Changing (Contours of the				
	World Economy, Ha	rper Collins Publishers, New York.					
	2. Fujita Masahisa, H	Krugman Paul and Venables Anthony	, 2001. The				
	Spatial Economy: Ca	ities, Regions and International Trade	e, The MIT				
	Press.	A Economic Systems Drantica Hall N	Jow Jersey				
	4. Hanink D. M. 199	7. Principles and Applications of Eco	onomic				
	Geography, John W	iley, New York.					



	5. Jovanovich M. 1998. International Economic Integration: Limits and
	Prospects, Routledge.
	6. Knox Paul, Agnew John, McCarthy Linda, 2008. <i>The Geography of the</i>
	World Economy, OUP, USA.
	7. Lee R. and Wills J. (eds.), 1997. <i>Geography of Economics</i> , Arnold, New
	York.
	8 Machlup Fritz 1977 A History of Thought on Economic Integration
	Columbia University Press New York
	Columbia Oniversity Fless, New Tork.
	0 Mackinnan D and Cumbers A 2007 An Introduction to Economia
	9. MacKinnon D. and Cumbers A. 2007. An Introduction to Economic
	Geography: Globalization, Uneven Development and Place,
	Pearson/Prentice Hall, Harlow.
	10. Murray Warwick E. 2006. <i>Geographies of Globalization</i> . Routledge.
	11. Prager Jean-Claus and Thisse Jacques-Francois, 2012. Economic
	Geography and the Unequal Development of Regions, Routledge,
	London.
	12. Sachar A. and Oberg S. (eds.) 1990. The World Economy and the
	Spatial Organisation of Power, E.S.F. Publication, Strasbourg.
	spenier e Sumsenen of I ener, 2021 i I dentanden, statseourg.
	13 Sassen Saskia 2012 Cities in a World Economy Sage
	15. Sussen Suskiu, 2012. Cines in a World Leonomy, Suge.
	14 Shannord E and Parnos T. I. 1094 The Canitalist Space Economy
	14. Sheppard E. and Barnes T. J. 1964. The Capitalisi Space Economy:
	Geographical Analysis after Ricardo Marx and Strafa, Unwin Hyman,
	London



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium







to 1

В	• Environmental Medicine (Water, Soil, Climate and Health);	CO2, CO3
С	• Medical Pluralism in developing countries with reference of India.	CO2, CO3
Unit 3	Globalization and Health	
А	Climatic factors and global health	CO2, CO3
В	• Air pollution and health GIS Lab 3 Buffers and spatial estimation of exposure	CO2, CO3
С	• Modelling disease diffusion: Human health and mobility; Spatial patterns of disease diffusion	CO2, CO3
Unit 4	Geography of Chronic Diseases	
А	• Determinants of the Health of Populations	CO3, CO4
В	• Distribution Patterns of Disease Geographical Patterns of Major diseases with special reference to India; Malaria, Cholera, Tuberculosis, AIDS	CO3, CO4
С	• Human health behavior; Spatial disparity of health	CO3, CO4
Unit 5	Health Care System and Planning	
А	• Geography of Nutrition with special reference to India;	CO2, CO6
В	• Health Services System in Developed and Developing Countries-U.S.A. and India	CO6
С	Issues of critical health planning	CO5, CO6
Mode of examination	Theory	
Weightage	IA EA	
 Distribution	25% 75%	
Text books	 Akhtar, R. and Learmonth, A.T. (1986) : Ge Aspects of Health and Disease in India, Con New Delhi. Mc-Glashan, N.D.(1972) : Medical Geograp and Field Studies, Methuen, London. 	ographical cept Publishers, ohy, Techniques



Reference books	3.	Pacione, M. (1986) : Medical Geography : Progress and Prospects; Edited, Croam, Helm London.
	4.	Pyle, G.P.(1971) : Applied Medical Geography, Washington, D.C.V.H. Winnston and Sons.
	5.	Akhtar, R.(1982) : The Geography of Health: An Essay and Bibliography, Marwah, New Delhi.
	6.	Shannon, G.W. and Dever, G.E.A.(1973) : Health Care Delivery, Special Perspectives, New York.
	7.	Emch, M., Root, E. D., & Carrel, M. (2017). Health and medical geography (4th ed.). New York, NY: The Guilford Press. **Free online access to Health and medical geography in the UF Library.
	8.	Optional textbook: Gatrell, A. C. and Elliott, S. J. (2014). Geographies of Health: An Introduction (3rd ed.). John Wiley & Sons.

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

- 1. Low
- Medium
 High



A+

School: SSHSS		Batch: 2024-2026					
Pro	ogramme: M.A.	Current Academic Year: 2025-2026					
	Geography						
Bra	nch: Geography	Semester: III					
1	Course Code	MGO202					
2	Course Title	Geographies of Migration					
3	Credits	4					
4	Contact Hours (L-T-P)	3-1-0					
	Course Type	Core Course (CC)					
5	Course Objective	Migration is one of the key challenges of our times and it influences political and social life in a range of structural ways. This course provides a lively and engaging overview of this lively field of geography, informed by the impressive range of geographical scholarships on the issue. The course will equip students with the conceptual skills and factual knowledge to understand migration trends and debates, and to form and express your own views on migration and related topics					
6	Course	The student will be able to;					
	Outcomes	 CO1: define migration which provides the theoretical building blocks you need to think clearly and critically about migration. CO2: explain the 'Perspectives', which showcases different ways of looking at migration. CO3: apply cchallenges at a range of real-world issues that arise from migration and its governance. CO4: examine the reasons of migration. CO5: judge the internal migration patterns. CO6: construct the migration theories and current course of migration studies in the discipline. 					
7	Course	This course endeavours to encourage the understand	ing of issues and				
	Description	challenges of human migration from spatial perspectives. Different forms of human migration, its characteristics and regional patterns shall be highlighted. Place of migration issues in the 2030 SDG agenda is also evaluated					
	Unit 1	Migration Overview	CO Mapping				
	A	• basic concepts, data source, measures, and historical perspectives	CO2, CO5				
	В	scope and significance	CO1, CO2				
	С	• Determinants of migration.	CO1, CO2				
	Unit 2	Theories and Models of Migration					
	A	Studies on migration	CO2, CO3				



В	• E. G. Ravenstein, J.Q. Stewart, G.K. Zipf, S. A.Stouffer, E.S. Lee, T. Hagerstrand and W. Zelinsky	CO2, CO3				
С	Comparative analysis of theoretical and practical understanding of migration	CO2, CO3				
Unit 3	Perspectives					
А	Historical Geographies of Migration	CO2, CO3				
В	• Migrants as Rational Actors, Experiences of Migration	CO2, CO3				
С	• Concepts Nationalism, Geopolitics Hospitality, Integration in geographies of migration	CO2, CO3				
Unit 4	Mobility Identity, Violence Representing Migration					
А	Migration and Climate Change	CO3, CO4				
В	Migration and Surveillance	CO3, CO4				
С	 Migration and Exploitation 	CO3, CO4				
Unit 5						
A	 concepts, characteristics, typologies, 	CO2, CO6				
В	• regional patterns, explanations, and implications	CO6				
С	 migration and development 	CO5, CO6				
Mode of examination	Theory					
Weightage	IA EA					
 Distribution	25% 75%					
Text Book/s	 Brettell, C. B., and Hollifield, J.F. (eds.) 2014. <i>Migration Theory:</i> <i>Talking across Disciplines</i>, 3d ed. New York: Routledge. Castles, S., de Haas, H. and Miller, M.J. 2014. <i>The Age of Migration:</i> <i>International Population Movements in the Modern World</i>, 5th ed. New York and London: Guilford. 					
Reference Books	 Hatton, T., and Williamson, J.G. 1998. The age of mass migration: causes and economic impact, New York: Oxford University Press. Kosinsk, L.A., Elahi, K.M. (eds.) 1985. <i>Population redistribution and</i> <i>development in South Asia</i>, Boston: Kluwer Academic Publishers Group. Li, W., Skop, E., Morken, A. 2017. <i>Geography of Migration</i>, London: Oxford University Press. Mavroudi, E. and Nagel, C. 2016. <i>Global migration: patterns,</i> <i>processes, and politics</i>, New York, NY: Routledge. 					


7. Mishra, D.K. (eds.) 2016. Internal migration in contemporary India,
New Delhi: Sage.
8. Naerssen, T.V., Spaan, E., and Zoomers, A. 2008. Global migration
and development, New York: Routledge.
9. Piguet, E., and Laczko F. (eds.) 2014. People on the move in a changing
climate: the regional impact of environmental change on migration, New
York: Springer.
10. Rajan, S.I., and Bhagat R.B. (eds.) 2018. Climate change,
vulnerability and migration, London: Routledge.
11. Rajan, S.I., and Percot, M. (eds.) 2012. Dynamics of Indian migration:
historical and current perspectives, London: Routledge.
12. United Nations Development Programme (UNDP) 2009. Human
Development Report 2009: Overcoming barriers- human mobility and
development, New York: Palgrave MacMillan.

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SHSS		Batch: 2024-2026	
Progra Geogra	m: M.A phy	Current Academic Year: 2025-2026	
Branch	: Geography	Semester: III	
1	Course Code	MGO203	
2	Course Title	Socio-Cultural Geography	
3	Credits	4	
4	Contact Hours	4-0-0	
	(L-T-P)		
5	Course Type	Core Elective	
6	Course Objective	The objective of this course is to lead students to under geography concept and associate with differences in spatial c	stand the cultural sultural identities.
7	Course Outcomes	 Students will be able to; CO1: List the basic concepts of Socio-cultural geography at different school of thoughts of Geography. CO2: extend basic idea of evolution of culture in different CO3: Construct the issues leading to specific behaviour an CO4: Examine association of food and folk culture of Indian CC05: Perceive Region formation and role of social groups diversity. CO6: Propose new ideas and theories of spatial social constructs 	nd contribution by parts of the world. d societal norms. culture concept. in Indian unity and struction.
8	Course	The course will introduce students to the basic concepts of c	ultural geography.
	Description	Students will be able to associate with the cultural genesis a major cultural realms of the world and also of India.	and differences of
Syllabu	s Outline		CO Mapping
Unit 1		Concept of Culture, Cultural Complexes	
A		Meaning, concepts, scope and approaches cultural geography. Culture and society, civilization, cultural hearth, culture area, core, domain, sphere	
В		• Contribution of social geography to social theory; power relations and space. Culture identity and conflict, concept of ethno-plight and acculturation	COI



С	Geography of Socio-cultural aspects and major approximations by Cormon French British and American	C01
Unit 2	Evolution of Culture	CO1
A	Evolution of early human groups, beginnings of	C01, C02
	civilizations;	,
В	• Cultural regions: world regions, vernacular regions;	CO1, CO2
	Cultural landscapes: development and adaptation;	
С	Cultural globalization; Cultural turn	CO1, CO2
Unit 3	Social and Cultural Geographical Issues	
А	• Contribution of social geography to social theory;	CO2, CO3
	power relations and space. Culture identity and	
	conflict, concept of ethno-plight and acculturation	
В	Behaviour pattern and heritage (Oriental and	CO2, CO3
	Occidental) Culture norms, identity and nationalism	
С	• Understanding society and its structure and process;	CO2, CO3
	geographical bases of social formations;	
Unit 4	Indian Socio-Cultural geography	
А	• Social differentiation and region formation;	CO2, CO3. CO4
	evolution of socio-cultural regions of India; bases of	
	social region formation; role of race, caste, ethnicity;	
	religion and languages; Indian unity and diversity;	
	social transformation and change in India.	
В	• Folk-culture and Tirbal societies	CO3, CO4
С	Geographies of food and ethnic wear	CO3, CO4
Mode of	Theory	
examination		
Weightage	IA EA	
Distribution		
Readings Text book/s	 ⁵ 1. Crutcher, Michael E. 2010. <i>Tremé: Race and Place in a No</i> <i>Neighborhood</i>. Athens, GA: University of Georgia Press 2. Aizaiuddin Ahmad (2002). Social Geography. Payot Public 	ew Orleans



Reference books	2. Barber, C.L. 1965. The Story of Language. London: The English Language
	Book Society and Pan Books Ltd.
	3. Bhardwaj, S.M. 1973. Hindu Places of Pilgrimage in India. Berkeley:
	University of California Press.
	4. Blunt, A., Gruffudd, P., May, J. and Ogborn, M. 2003: Cultural geography in
	practice. London: Arnold.
	5. Crang, M. 1998: Cultural Geography. London: Routledge.
	6. Kosambi, D.D. 1972. The Culture and Civilization of Ancient India in
	Historical Outline. New Delhi: Vikas Publications.
	7. Maloney, C. 1974. People of South Asia. New York: Winston Norton.
	8. Norton, W. 2006. Cultural Geography. Environments. Landscapes. Identities.
	Inequalities (2nded.). Toronto: Oxford University Press.
	9. Parekh, B. 2000: Multiculturalism: Cultural Diversity and Political Theory.
	London: Macmillan Press.
	10. Singh, Rana P.B. 2004. Cultural Landscapes and the Lifeworld: Literary
	Images of Banaras. Varanasi: Indica Books.
	11. Sopher, David E., ed. 1980. An Exploration of India: Geographical
	Perspectives on Society and Culture. Ithaca, New York: Cornell University Press.
	12. Stump, Roger W. 2008. The Geography of Religion: Faith, Place, and Space.
	Lanham (USA): Rowman& Littlefield Publishers.
	13. Subbarao, B. 1958. Personality of India: Pre- and Proto- Historic Foundation
	of India and Pakistan. 2ndedition. M.S. University Baroda, Vadodara.
	14. Wagner, P. and M. Mikesell, eds, 1962. Readings in Cultural Geography.
	Chicago: The University of Chicago
	15. Weber, Max. 1965. The Sociology of Religion. London: Methuen & Co.
	16. Appadurai, A. 1996: Modernity At Large: Cultural Dimensions Of
	Globalization. Minneapolis: University of Minnesota Press.



School: SSHSS		Batch: 2024-2026				
Pro	ogramme: M.A.	Current Academic Year: 2025-2026				
	Geography	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
Bra	nch: Geography	Semester III				
1	Course Code	MGP202				
2	Course Title	Village Survey: Instrumental and Socio-economic				
3	Credits	3				
4	Contact Hours (L-T-P)	1-0-2				
	Course Type	Core Course (CC)				
5	Course Objective	The course is designed to acquaint the student with the	importance of			
		field work as one of the methodologies in Geography.				
		The students are to be sensitized about pre-field w	vork preparations,			
		conduct of the field work, post-field work based and th	e writing of a field			
	Course outcome	Students will be able to:				
	Course outcome	CO1: show the basic idea of village study				
		CO2: explain how to hold the census record of the e	ntire village			
		CO3 : Construct the issues of village survey	intile village.			
		CO1: Evamine various factors of village settlement				
		CO5: massure and man the physical aspects	of village with			
		instruments.	of village with			
		CO6: combine instrumental survey with social survey	ev in a report			
		form.	- j u rep «re			
7	Course	The project report will involve statement of objectives	and scope of field			
	Description	investigation; methods of field work for studies of differ	rent scales (macro,			
		meso, and micro); preparation of a questionnaire; san	npling techniques,			
		collection, processing, representation, analysis and interpretation of				
data/information. The candidates are required to write a project re						
	Unit 1	Instrumental Survey:	CO Mapping			
	A	• Surveying with the help of theodolite and	CO2. CO5			
		levelling by dumpy level;	- ,			
	В	• Use of GPS and total stations for collection of	CO1, CO2			
		data and mapping.				
	Unit 2	Household Survey:	1			



A	Making household s	interview schedule; Conducting survey and report writing,	CO2, CO3				
В	Resource Social map	mapping; Infrastructure mapping; ping	CO2, CO3				
Unit 3	Report presentation	on la					
A	• Two repor students	ts will be prepared groupwise by	CO2, CO3				
В	Instrumenta	ıl survey	CO2, CO3				
С	Household	survey	CO2, CO3				
Mode of	Practical						
examination							
Weightage	IA	EA					
Distribution	25%	75%					
Readings Text book/s*	 Archer, J.E. and William Clowes and 2. Bolton, T. and N Blandford Press, L 	 Archer, J.E. and Dalton, T.H. (1968): <i>Field Work in Geography</i>. William Clowes and Sons Ltd., London and Beccles. Bolton, T. and Newbury, P.A. (1968): <i>Geography through Fieldwork</i> Blandford Press, London. 					
	 Company Ltd., Lo Company Ltd., Lo Lousenbury, J. H <i>Geographic Field</i> Publishing Compa Pugh, J.C. (1975) Company Ltd., Lo Knight, Peter G <i>Exams & Coursew</i> Thornes, Cheltenh Parsons, Tony a <i>Dissertation in Ge</i> London. Kitchen, Rob an <i>Human Geography</i> Hall-Pearson, Harl Kitchen, Rob an <i>Publishing</i>. Vistaa Stoddard, Robe <i>in Geography</i>. Ker 	 ndon and Harlow. F. and Aldrich, F.T. (1986): Introduc Methods and Techniques. Charles E. ny, Colombus. 5): Surveying for Field Scientists. Methods. 5): Surveying for Field Scientists. Methodon. and Parsons, Tony (2003): How to a cork in Geography and Related Discipant, U.K. nd Knight, Peter G. (2005): How to a cography and Related Disciplines. 2nd and Tate, Nicholas J. (2009): Conducting: Theory, Methodology & Practice. ow, U.K. and Fuller, Duncan (2005): The Academic Publications (Sage), New Delhi. ert H. (1982): Field Techniques and Indall/Hunt Publication, Dubuque, Iow 	tion to Merrill ethuen and do your Essays plines. Nelson do your ded., Routledge, ing Research into 2nd ed., Prentice mic's Guide to Research Methods wa, U.S.A.				



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SSHSS		Batch: 2024-2026						
Pro	ogramme: M.A.	Current Academic Year: 2025-2026						
	Geography							
Bra	nch: Geography	Semester III						
1	Course Code	MGP201						
2	Course Title	Digital image processing and Terrain modelling						
3	Credits	3						
4	Contact Hours (L-T-P)	1-0-4						
	Course Type	Core Course (CC)						
5	Course Objective	The course aims to develop an understanding of terrain e modelling and potential applications. This will also enable so deal problems in physical geography and environmental issues	The course aims to develop an understanding of terrain extraction principles, modelling and potential applications. This will also enable students to efficiently deal problems in physical geography and environmental issues.					
6	Course Outcomes	The student will be able to; CO1: define Digital Terrain Modelling CO2: demonstrate digital terrain and surface model general CO3: organize Primary and Secondary topographic Attribu CO4: infer Digital Image processing and image enhanceme better interpretation. CO5: determine multi-resolution data fusion and visualizat CO6: elaborate Image Classification and Change detection	tion tools. tes and applications. int techniques for ion techniques					
7	Course Description	The course will give broad understanding of Digital Terrain digital terrain and surface model generation tools. The course Primary and Secondary topographic Attributes and applicate processing and data fusion.	Modelling and se also delves upon ions digital image					
	Unit 1	Digital image,	CO Mapping					
	A	• Digital image, supply and storage of digital data	CO2, CO5					
	В	radiometric and geometric correction	CO1, CO2					
	С	• image registration CO1, CO2						
	Unit 2	Colour Composite						
	А	• Colour Composite, image enhancement, filtering,	CO2, CO3					
	В	• transformation, indices,	CO2, CO3					
	С	• Colour enhancement, image fusion, perspective visualization	CO2, CO3					
	Unit 3	Digital image classification:						
	А	• supervised and unsupervised classification;	CO2, CO3					
	В	accuracy assessment	CO2, CO3					



С	Digital change detection	CO2, CO3
Unit 4	Digital Terrain Modelling:	
А	• principles and applications, data sources, scale and quality assessment.	CO3, CO4
В	• Principles of Photogrammetry, Radargrammetry, LiDAR and GPS-based altitude determination.	CO3, CO4
С	• DTM vs. DSM, Contour/Point interpolation: IDW, Spline, Krigging etc.; 3D Visualization	CO3, CO4
Unit 5	Terrain Analysis	
A	• Terrain analysis on Gridded DEM: slope, aspect, curvature, flow direction, watershed delineation etc.	CO2, CO6
В	Terrain Classification;	CO6
С	• Secondary topography Attributes – wetness indices, stream-power indices, radiation indices, temperature indices etc.	CO5, CO6
Mode of	Practical	
examination		
Weightage	IA EA	
Distribution	25% 75%	
Text Book/s	 De Mers, M.N. 2008. Fundamentals of Geographic Inform Edition, John Wiley & Sons, NewYork. El-Sheimy, N., Valeo, C. and Habib, A. 2005. Digital Acquisition, Manipulation and Applications, Artech House. 	nation Systems, 4th Terrain Modeling:
Reference Book	 S. Florinsky, I.V. 2012. Digital Terrain Analysis in Soil Scient Academic Press, Elsevier. Jensen, J.R. 2007. Remote Sensing of the Environment: An Perspective, 2nd Edition, Pearson. Jensen, J.R. 2015. Introductory Digital Image Processing: Perspective, 4th Edition, Pearson. Li, Z., Zhu, C. and Gold, C. 2004. Digital Terrain Modelin Methodology, CRC Press Peckham, R.J. and Jordan, G. (eds.), 2007. Digital Terrain Development and Applications in a Policy Support Environn 8. Wilson, J.P. and Gallant, J.C. (eds.), 2000. Terrain Analys Applications, John Wiley & Sons. Wilson, J.P. 2018. Environmental Applications of Digital Terrain Wiley-Blackwell. Zhou, Q., Lee, B. and Tang, G. (eds.), 2008. Advances in Analysis, Springer 	nce and Geology, n Earth Resource : A Remote Sensing ng: Principles and n Modelling: nent, Springer. sis: Principles and Terrain Modeling, n Digital Terrain



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



SEMESTER IV



School: SSHSS		Batch: 2024-2026							
Progra Geog	amme: M.A. graphy	Current Academic Year: 2025-2026							
Branc	h: Geography	Semester IV	Semester IV						
1	Course Code	MGO207							
2	Course Title	Watershed management							
3	Credits	4							
4	Contact Hours (L-T-P)	3-1-0							
	Course Type	Core Course (CC)							
5	Course Objective	The course aims to introduce students in the watershed management due to criticality of the water management. The course also evaluates the structure of Watershed and function structure of watershed.							
6	Course	The student will be able to;							
7	Outcomes Course Description	 CO1. Define concept, components, characteristics of water management CO2 classify the morphological and climatic characteristic CO3 identify the land capability classification and soil resceevaluation. CO4 compare the plan and approaches of integrated waters management. CO5 evaluate Integrated watershed management programm CO6: propose the impetus of watershed management in current of land use changes on various hydrological cycle soil erosion and choosing suitable soil and water conservation control it. It tries to touch upon divergent disciplines is complex topic. The course is designed as an elective to building of the candidates to undertake research work of assignment in the sub-fields of watershed management, where in sustainable development. 	shed s of Watershed burces shed nes. <u>rrent times.</u> derstanding the parameters and tion techniques relevant to this o help capacity or professional nich plays a key						
	Unit 1	Introduction to Watershed management	CO Mapping						
	А	Philosophy and Concept of Watershed management	CO2, CO5						
	В	Components of watershed: land, water and vegetation	CO1, CO2						
	С	Physical and Socio-Economic characteristics of watershed	CO1, CO2						
	Unit 2	Function and Structure of Watershed	1						
	AWatershed Delineation and codification.CO2, CO								



В	Morphological Characteristic of Watershed CO2, CO3						
С	Climatic characteri	stics of Watershed	CO2, CO3				
Unit 3	Watershed Analys	sis:					
А	Land capability cla	CO2, CO3					
В	Soil resource evalu	CO2, CO3					
С	Groundwater Hydrology: Divisions of subsurface water, formations according to their water-bearing properties, types of aquifer and aquifer properties, Darcy's law and elementary groundwater flow equation, geological formations as aquifers, groundwater monitoring, groundwater resource estimation.						
Unit 4	Objectives of IWN	1					
А	Land and Water co	nservation practices	CO3, CO4				
В	Importance of l development	CO3, CO4					
С	Water harvesting livestock developm	CO3, CO4					
Unit 5	Development and	Management of Watershed					
А	Participatory Rural basic principle, Employed in PRA	CO2, CO6					
В	Empowerment of V property rights, Watershed manager	CO6					
С	Water Resource Planning, Management and Policy: Water resources management (demand and supply side), watershed management, water harvesting, national water policy						
Mode of	Theory						
examination							
Weightage	IA	EA					
Distribution	25%	75%					
Readings Text book/s*	1. Murty, J.V.S., 1994. Watershed Management in India, Wiley Eastern Ltd, New Delhi.						



Reference	ce Book 1. Ela and N	ngo, L., Jayakumar, R., 2001. Modeling in Hydrology, UNESCO, ew Delhi.
	2. Raj Public	esh Rajora, 2002. Integrated Watershed Management, R. Rawat cations, New Delhi.
	Web s	sources-
	1.	<u>https://www.yourarticlelibrary.com/watershed-</u> management/watershed-management-meaning-types-steps-and- programmes/77309
	2.	https://www.geographynotes.com/watershed-management- 2/watershed-management-components-and-practices- geography/6250
	3.	https://lotusarise.com/watershed-management-upsc/
	4.	https://www.indiawaterportal.org/faqs/watershed-management-in- india
	5.	<u>https://www.india.gov.in/integrated-watershed-management-</u> programme-ministry-rural-development
	6.	https://www.mapsofindia.com/government-of-india/integrated- watershed-management-programme.html



Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
C01	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



A+)

School: SSHSS		Batch: 2024-2026						
Pro	gramme: M.A.	Current Academic Year: 2025-2026						
	Geography							
Brai	nch: Geography	Semester IV						
1	Course Code	MGO206						
2	Course Title	Flow Analysis and Transport Network						
3	Credits	4						
4	Contact Hours (L-T-P)	3-1-0						
	Course Type	Core Course (CC)						
5	Course Objective	 The students will be exposed to the role and significance of geography. The students will be conscious of the various facets of transitional transitiona transitional transitional transitional transitional transiti	of 'transport' in nsport network. of flow analysis.					
6	Course Outcomes	The student will be able to; CO1: define the principal issues confronting the transportation systems today. CO2: explain and get an insight into accessibility issues. CO3: apply the graph theory. CO4: analyse the urban transportation systems of the world. CO5: evaluate various regional transport planning. CO6: formulate overall issues of transport and flow analysis for better						
7	Course Description	The course touches upon the principal issues confronting the transportation systems. The course also provides an insight into 'how transportation systems work' through live case-study from India and World						
	Unit 1	Transport and Spatial Interaction	CO Mapping					
	А	• Spatial interaction and time-space convergence.	CO2, CO5					
	В	• enlarging the catchment area of markets, dynamic relationship between transport and spatial readjustment	CO1, CO2					
	С	• role of transport as a lead sector	CO1, CO2					
	Unit 2	Problem of accessibility:						
	А	• The transport network, network shape and location,	CO2, CO3					
	В	• regional variations in its density, methods of measurement, transport and spatial processes,	CO2, CO3					
	C • traffic flow and regional interaction CO2, C							
	Unit 3	Theory and topology						
	А	• Graph theory and Network Geometry:	CO2, CO3					
	В	Concept of topology,	CO2, CO3					



С	• topological measurement of network efficiency. CO2, CO	3					
 Unit 4	Urban Transport:						
А	Profile of urban transport facilities, CO3, CO	4					
В	• traffic in towns, transport services and urban land CO3, CO use pattern,	4					
С	• role of intermediary transport modes, modal split. CO3, CO	4					
Unit 5	Regional Transport Planning:						
А	• The framework of regional transport planning CO2, CO traffic generation, methods of forecasting, zonal interchange of traffic,	6					
В	• mode and route assignment methods; Indian Transport: Transport development during colonial and plan periods						
С	• transport and regional structure of Indian Economy, CO5, CO metropolitan transport.	6					
Mode of	Theory						
examination							
Weightage	IA EA						
Distribution	25% 75%						
Text Book/s	 Brooks, P.W., 1994. The Development of Air Transport Hurst, M.E. <i>Transportation geography: Comments and Reading</i>, Mc Graw Hill, 256 Gautam, P.S. 1992. <i>Transport Geography of India: A Study of Cl Division, M.P.</i>, Mittal Publications, New Delhi 	(ed.) 5-273 hambal					
 Reference books	1. Ashton, W.D., 1966. The Theory of Traffic Flow, Methuen, Lo	ndon					
	2. Berry, B.J.L et a., 1966. Essays on Commodity Flow and Spatial Structure of Indian Economy, Department of Geography, Chicago.						
	3. Berry, B.L.J. and Marble, D.F. (eds.) 197). <i>Spatial Analysis: A Reader in Statistical Geography</i> , Prentice Hall.						
	 Cooley, C.H. 1994. The Theory of Transportation, in Hurst, M Transportation geography: Comments and Reading, Mc Graw 29. 	I.E. (ed.) Hill, 15-					



6. Fleming, D.K. and Hayuth, Y. 1994. Spatial Characteristics of Transportation
Hubs: Centrality and Intermediacy, Journal of Transport Geography, 2 (1), 3-
18.
7. Haggett, P. 1965. Locational Analysis in Human Geography, London.
8. Haggett, P. and Chorley, R.J. 1969. Networks Analysis in Geography,
London.
9. Kansky, K.J., 1963. Structure of Transportation Networks: Relationships
between Network Geometry and Regional Characteristics, University of
Chicago, Department of Geography, Research Paper, Chicago, 84.
10. Nagar, V.D. and Gautam S. 1964. Principles and Problems of Indian
Transport, Kailash Pustak Sadan, Gwalior.
11. Owen, W. 1968. Distance and Development: Transport and
Communications in India, Washington.
12. Raza, M. and Aggarwal, Y. 1986. Transport Geography of India, Concept
Publishing Company, New Delhi.
13. White, H. P. and Senior, M.L. 1983. Transportation Geography, Longman
Inc. New York.
 18. 7. Haggett, P. 1965. Locational Analysis in Human Geography, London. 8. Haggett, P. and Chorley, R.J. 1969. <i>Networks Analysis in Geography</i>, London. 9. Kansky, K.J., 1963. <i>Structure of Transportation Networks: Relationships between Network Geometry and Regional Characteristics</i>, University of Chicago, Department of Geography, Research Paper, Chicago, 84. 10. Nagar, V.D. and Gautam S. 1964. <i>Principles and Problems of Indian Transport</i>, Kailash Pustak Sadan, Gwalior. 11. Owen, W. 1968. <i>Distance and Development: Transport and Communications in India</i>, Washington. 12. Raza, M. and Aggarwal, Y. 1986. <i>Transport Geography of India</i>, Concept Publishing Company, New Delhi. 13. White, H. P. and Senior, M.L. 1983. <i>Transportation Geography</i>, Longman Inc. New York.

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

Medium
 High



School: SSHSS		Batch: 2024-2026					
Pro	ogramme: M.A.	Current Academic Year: 2025-2026					
	Geography						
Bra	nch: Geography	Semester IV					
1	Course Code	MGO205					
2	Course Title	Geography of Urban Environment and Urban Manage	ement				
3	Credits	4					
4	Contact Hours (L-T-P)	3-1-0					
	Course Type	Core Course (CC)					
5	Course Objective	 This course attempts to acquaint the students to the conceptual process of urbas environment. 2) The course examines the questions related to urban urbanization and contemporary environmental issues in India. 3) It also critically evaluates the policies and interventions aimed at sustainable 					
	Course Outeense	urban environment development and management state					
0		The student will be able to; CO1: define the concepts and components of urban development an management. CO2: explain urban poverty and slums at different scales. CO3: apply knowledge of urban infrastructure development management an urban governance. CO4: analyse the concepts and process of urban environmental issues. CO5: evaluate the consequences of urban environmental consequences a different scales. CO5: elaborate on the knowledge of sustainable environmental management					
7	Course Description	This course attempts to acquaint the students to the conceptu environment. It also critically evaluates the policies and int sustainable urban environment development and management	al process of urban erventions aimed at nt strategies.				
	Unit 1	Introducing Urban Environment:	CO Mapping				
	А	• nature and concept,	CO2, CO5				
	В	 relevance of the study at local, regional and global level, 	CO1, CO2				
	С	• dynamics of urban environment.	CO1, CO2				
	Unit 2	Urban Development Concepts and Process:					
	А	• Trend of urbanization in developed and developing countries,	CO2, CO3				



В	• Physical exp and urban he	ansion of cities, ecological foot prints eat island.	CO2, CO3			
С	Ecological fe	pot prints and urban heat island.	CO2, CO3			
Unit 3	Urbanization and E	nvironment in India:				
A	• trends and p environment	CO2, CO3				
В	• water, air, so ecological ar	lid waste and e-waste pollution; slums: nd health consequences; Case studies.	CO2, CO3			
С	 green buildir waste man strategies; C 	ng, open and green patches; sustainable agement; wastewater management ase studies.	CO2, CO3			
Unit 4	Urban Issues and C	omponents:				
А	• Concept of urbanization developing v	urban development and management; : trends, patterns; challenges in vorld	CO3, CO4			
В	• Urban Pove poverty, pov services for Case studies	• Urban Poverty Alleviation: Concept of urban poverty, poverty and informal sector; urban basic services for the poor; employment opportunities; Case studies				
С	 Slum Impro Nature of sl programmes rehabilitation in slums; Ca 	• Slum Improvement and Upgradation in India: Nature of slum; evaluation of slum improvement programmes and schemes; resettlement and rehabilitation actions; infrastructure development in slume: Gass Studies				
Unit 5	Infrastructure Develo	opment Management:				
A	• Urban land sanitation; he	use planning; water supply and ousing; traffic; disaster management	CO2, CO6			
В	• Sustainable	Urban Development and Management:	CO6			
С	 Integrated i Management Government 	 Integrated infrastructure development planning; Management towards sustainable cities; Government programmes and policies 				
Mode of examination	Theory					
Weightage	IA					
Distribution	25%					
Readings Text book/s*	 1. Atkinson, A. et. al., 1999. <i>The Challenges of Environmental Management in Urban Areas</i>, Ashgate Pub. Co., Sydney. 					



	2. Gilbert, R., Stevenson, G. H. and Stren, R. 1996. Making Cities Work,
	Earthscan Publications, London.
Reference Book	3. Hardoy, J.E., Mitlin, D. and Satterthwaite, D. 1992. Environmental Problems
	in Third World Cities, Earthscan, London.
	4. Joss, Simon, 2015. Sustainable Cities: Governing for Urban Innovation,
	Palgrave, London.
	5. Kundu, A. 1993. In the Name of Urban Poor: Access to Basic Amenities, Sage, Delhi
	6. Maitra, A. K. 2000. <i>Urban Environment in Crisis</i> , New Age International Publishers, New Delhi.
	7. Pugh, C. 1996. <i>Sustainability, the Environment and Urbanization</i> , Earthscan Publications, London.
	8. Ronald, J. F., et.al. 1994. <i>Mega City Growth and the Future</i> , United Nations University Press, New York.
	9. Singh, K. and Steinberg, F.M. 1996. <i>Urban India in Crisis</i> , New Age International Limited Publications, New Delhi.
	10. Singh, R.B. (ed) 2006. <i>Sustainable Urban Development</i> , Concept Publishing Company, New Delhi.
	11. Singh, R. B. (ed) 2015. Urban Development Challenges, Risks and Resilience in Asian Mega Cities, Springer, Japan.
	12. Sivaramakrishnan, K.C. 2001. <i>Problems of Governance in South Asia</i> , Centre for Policy Research, New Delhi.
	13. Timothy, B. 2009. Sustainable Urban Development, Routledge, London
	14. Wheeler, S.M. and Beatley, T. 2014. The Sustainable Urban Development,
	Routhledge, New York.
	15. Badcock, B. 2002. Making Sense of Cities: A Geographical Survey, Oxford
	University Press, London
	 16. Douglas. I. 1983. The Orban Environment, Edward Arnold, Maryland, USA. 17. Friedmann, J. 1995. Where we stand: A Decade of World City Research, In: P. L. Knox and P. Taylor (eds) World Cities in a World-system. 21-47.
	Cambridge University Press, Cambridge:
	18. Hardoy, J. E., Mitlin, D. Satterthwaite, D. 1992. Environmental <i>Problems in Third World Cities</i> , Earthscan, Great Britain.
	19. Housing and Urban Development Corporation (HUDCO) & UN Centre for
	Human Settlements (Habitat) 2001. The State of Indian Cities 2001, HUDCO
	and Habitat, Nairobi- New Delhi.
	20. Michael, P. 2009. Urban Geography: A Global Perspective, Taylor &
	Francis, Great Britain.
	21. Marcotullio, P. and Mc Granahan. G. 2007. Scaling Urban Environmental
	Challenges: From Local to Global and Back, Earthscan, Great Britain.
	22. Murray, Robin 2002. Zero Waste, Greenpeace Environmental Trust,
	Londoan
	23. Newman, P. 2002. <i>The Environmental Impacts of Cities</i> , Environment and Urbanization 18: 275
	24 Singh R B (ed) 2015 Urban Development Challenges Pisks and
	Resilience in Asian Mega Cities Springer Japan
	Residence in Listan mega cares, opringer, supar.



25. Singh, Savindra 2015. ParyavaranBhoogol, PrayagPustakBhavan, Allahabad
(Hindi)
26. Roberts, P., Ravetz, J. and George, C. 2009. Environment and the City.
Routledge, London
27. White, R. 1994. Urban Environmental Management, Routledge, London

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3

1. Low

2. Medium



School: SHSS		Batch: 2024-2026					
Program: MA		Current Academic Year: 2025-2026					
Branch: Geography		Semester: IV					
1	Course Code	MGP203					
2	Course Title	DISSERTATION I					
3	Credits	12					
4	Contact	0-0-24					
	Hours(L-T-P)						
	Course Type	Core Course (CC)					
5	Course Objective	 To acquaint students with the philosophy, ethics, design, andevaluation of research in Social Sciences. To create awareness about the basics of scientific research inSocial Sciences. 					
		 To understand methodology of quantitative and qualitative research. To provide the theoretical orientation and background forresearch. 					
6	Course Outcomes	The student will be able to- CO1: define the nature of his research. CO2: explain different variables associated with his study. CO3: identify the variables to study theirrelevance and effect. CO4: list the gaps in his researchtopic. CO5: deduct their experimental findings CO6: develop a complete research plan.					
7	Course Description	This course will introduce the principal steps taken during a social science research study and aims to provide students with the knowledge and competencies necessary to plan and conduct research projects of their own.					
	Unit 1	Data collection					
		Data collection, Analysis, developing, graphs, piecharts					
	Unit 2	Results and interpretation					
		Analysis of findings, interpretation with supporting researches, merits and demerits					

Unit 3	References	
	References as per APA	CO3, CO6



Unit 4	Pre- submission						
	Departmental presentation o	CO2, CO3,					
			CO4, CO5,				
			CO6				
Unit 5	Dissertation						
	Submission and defending the	CO2, CO3,					
	Sending paper for publicatio	CO4, CO6					
Mode of	Drooti	ool/Vivo					
examination	Flaction						
Weightage	IA	EA					
Distribution	istribution 60% 40%						
Readings Text book*	 Relevant Journals Books						

COURSE ARTICULATION MATRIX

- 1. -High
- 2. -Medium
- 3. Low

Pos/ Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	2	2	2	2	3	3	2
CO2	2	1	3	3	2	2	2	2	3	2	2
CO3	2	1	3	3	2	2	2	2	2	3	3
CO4	2	1	3	3	2	2	2	2	3	3	2
CO5	2	1	3	3	2	2	2	2	3	2	3
CO6	2	3	2	3	3	1	2	3	3	3	3