Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956) ("A++" Grade, NAAC Accredited)



Syllabus of the Programme for Post Graduate Programme

M.Sc. Geography

as per NEP 2020

Curriculum and Credit Framework for Postgraduate Programme

With Multiple Entry-Exit, Internship and CBCS-LOCF With effect from the session 2024-25 (in phased manner)

> DEPARTMENT OF GEOGRAPHY FACULTY OF SCIENCE

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119 HARYANA, INDIA

> Chairperson Department of Geography Kurukshetra University Kurukshetra-136119

		Session: 2024-25			
		Part A - Introduct	ion		
Name of	Programme	M.Sc. Geography			
Semester		I			
Name of	the Course	Geography and Climat	te		
Course (Code	M24-GEO-101			
Course 7	Гуре	CC-1			
Level of	the course	400-499			
Pre-requ (if any)	isite for the course	N.A.			
Course 1	Learning Outcomes	M24-GEO-101.1. enha	nce the knowledge a	bout atmospheric	
(CLO)		constituents and structu	re.		
After con	npleting this course, the	M24-GEO-101.2. deve	lop the scientific und	lerstanding about	
learner w	fill be able to:	climatic elements and	their characteristics.		
		M24-GEO-101.3. sha	arpens the under	standing about	
		atmospheric moisture, system. M24-GEO-101.4. enri	stability, instabili ch the knowledge	about climatic	
Cradita Theory Practical To				Total	
Cicuits		4	0	4	
Teaching Hours per week		4	0	4	
Internal	Assessment Marks	30	0	30	
End Ter	m Exam Marks	70	0	70	
Max. M	arks	100	0	100	
Examina	ation Time	3 hours	•	-	
	Р	art B- Contents of th	e Course		
Instructi each unit considera syllabus. each unit	ons for Paper- Setter: t and one compulsory tion. The compulsory q The examinee will be and the compulsory que	The examiner will set 9 question by taking co- uestion (Question No. required to attempt 5 q stion. All questions will	Q questions asking two urse learning outcom 1) will consist 7 part uestions, selecting on carry equal marks.	o questions from nes (CLOs) into s covering entire ne question from	
Unit	und the companying que	Topics		Contact	
		•		Hours	
I	 Definition of weather and climate; climatology and meteorology. Origin, composition and structure of atmosphere. Solar radiation greenhouse effect heat budget and 			15	
II 4. Atmospheric pressure and its distribution pattern. 5. Theories of general circulation and planetary winds. 6. Walker circulation- ENSO and La Nina, origin of monsoons and jet streams			15		
III	 Atmospheric condensation; pr precipitation, aci 	Moisture: humidit ecipitation formation th d rain.	y, evaporation, eories and types of	15	

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	 8. Stability and instability of atmosphere, air masses and fronts. 9. Weather systems: origin and characteristics of extra tropical and tropical cyclones. 					
IV	10. Climatic classification: bases of cl	imat	ic classification by	15		
	11 Climatic change: pattern evidences	and	theories of climate			
	change.	unu	dicorres er enmate			
	12. Global warming: theories and impac	ts or	n earth systems.			
		T	otal Contact Hour	s 60		
	Suggested Evaluati	on N	Aethods	and a stign s 70		
>	Internal Assessment: 30	20	End Term Ex	amination: /0		
> The	eory	30	F Theory:	70 		
• Class	Participation:	05	written Exa	imination: 70		
• Semi	nar/presentation/assignment/quiz/class test	10				
etc.:	Torm Exam:	15				
• Mid-	Part C-Learning	Res	ources			
Decom	manded Books/e-resources/LMS	nes	ources			
1 A	threns C.D. (1994). Meteorology Today:	An	Introduction to We	ather, Climate and		
E	invironment, West Publishing Co., Minnesot	a, U	SA.			
2. B	Barry, R.G. and Chorley, R.J. (2010): Atmosp	ohere	e, Weather and Clin	nate, Marthren.		
3. C	Critchfield, H.J. (1987): General Climatology	, Pri	ntice Hall of India,	New Delhi.		
4. C	Collins, J.M. (2014): Climatology, Oxford.					
5. D	Das, P.K. (1984): The Monsoons, National B	ook '	Trust, New Delhi.	50)		
6. L	al, D.S. (1966): Climatology, Chaitanya Pub	olishi	ing House, Allahaba	ad.		
7. Lutgens, F.K. and Tarbuck, E.J. (2010): The Atmosphere: An Introduction to						
Meteorology, Prentice Hall of India, New Delhi.						
8. Miller, A.A. (1979): Climatology, Methuen and Co., London.						
9. Oliver, J.E. and Hidore, J.J. (2003): Climatology: An Atmospheric Science, Pearson						
LO D	Education Inc. New Delhi.					
10. K	Lama Sastry, A.A. (1984). Weather and w	veau	ter rorecasting, ru	bildention Division,		
11 T	rewartha GT (1980): An Introduction to	o Cl	imate. McGraw H	ill Company, New		
Y	ork.					

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		CC-2				
	Se	ssion: 2024-25	5			
	Part	A - Introduct	ion			
Name of	f Programme	M.Sc. Geogr	raphy			
Semeste	er	I				
Name o	f the Course	Landforms:	Processes, Structure	and Origin		
Course	Code	M24-GEO-1	02			
Course	Type	CC-2				
Level of	f the course	400-499				
Pre-reau	uisite for the course (if any)	N.A.				
Course	Learning Outcomes (CLO)	M24-GEO-10	2.1. understand	the fundamental		
After co	mpleting this course, the learner	concepts in ge	eomorphology.			
will be a	able to:	M24-GEO-10	2.2. examine the pro	cesses and factors		
		of weatherin	ng and mass wa	sting and slope		
processes.						
	M24-GEO-102.3. understand different processes of					
landforms, hazards, and their management.						
M24-GEO-102.4. comprehend the concepts of						
		applied geom	orphology and groun	dwater studies for		
	development.					
Credits		Theory	Practical	Total		
		4	0	4		
Teachir	ng Hours per week	4	0	4		
Internal	Assessment Marks	30	0	30		
End Ter	m Exam Marks	70	0	70		
Max. M	larks	100	0	100		
Examin	ation Time	3 hours	<u> </u>			
	Part B- C	contents of th	e Course	<i>c c</i>		
Instructi	ions for Paper- Setter: The exam	niner will set 9	9 questions asking tv	wo questions from		
each uni	t and one compulsory question	by taking co	1) will consist 7 par	ts covering entire		
considera	The examinee will be required	Question No.	uestions selecting c	one question from		
each unit	and the compulsory question. All	auestions will	carry equal marks.	ne question nom		
Unit	Te	opics		Contact		
				Hours		
I	1. History, development,	and fundame	ental concepts in	15		
	geomorphology.					
	2. Convection current theory, sea floor spreading,					
	paleomagnetism, continen	tal drift and pl	ate tectonic.			
П	II 3. Weathering and mass wasting: process, factors, types, and its products.					
	 Slope processes: hill slopes, pediments and gullies, theories of slope development. 					
III	5 Fluvial glacial aeolian y	waves and kars	st: nature. processes	15		
	or marini, gradini, addinin, i		, Fritting			

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and landforms. 6. Geomorphic hazards: earthquakes, volcanoes, floods, tsunamis and snow avalanches; processes and management. IV 7. Applied geomorphology: meaning and concept; role of geomorphology in environmental management; accelerated erosion and sedimentation. 15 8. Applications of geomorphology in groundwater management, construction of large dams, transport infrastructure, and urban development. 60 Total Contact hours 60 Suggested Evaluation Methods					
6. Geomorphic hazards: earthquakes, volcanoes, floods, tsunamis and snow avalanches; processes and management. IV 7. Applied geomorphology: meaning and concept; role of geomorphology in environmental management; accelerated crosion and sedimentation. 15 8. Applications of geomorphology in groundwater management, construction of large dams, transport infrastructure, and urban development. 60 Total Contact hours 60 Suggested Evaluation Methods Internal Assessment: 30 End Term Examination: 70 > Theory 30 > Theory: 70 • Class Participation: 5 Written Examination: 70 • Seminar/presentation/assignment/quiz/class test 10 • Clearning Resources Recommended Books/e-resources/LMS: 1. Bloom, A.L. (2020) Geomorphology, Private Limited, New Delhi. Critchfield, H.J., (1997). General Climatology, Prentice Hall of India Pvt. Ltd, New Delhi. 2. Emlenton, C and Thorne, J. (1979) Process in Geomorphology. Corient Longman, Hyderabad. Michael A. Summerfield (1991) Global Geomorphology, Prentice Hall. 4. Goudie, A., (1995), Earth's Dynamic System, Prentice Hall. Monkhouse F.J. (2009), Principals of Physical Geography, Platinum Publishers, Kolkata. 9. Pickering, K.T and Owen, L.A. (197) An Introduction to Global Envir		and landforms.			
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 Human Environment, John Wiley and Sons, INC. 17. Strahler, A.H. and Strahler, A. N., (1992) Modern Physical Geography, John Wiley and Son INC. 18. Strahler, A.H. (2013) Introducing Physical Geography, Wiley and Sons, New York. 19. Strahler, A.N., Strahler A.H. (2008). Modern Physical Geography. John Wiley and Sons, New York. 20. Thornbury, WD. (2004) Principles of Geomorphology, John Wiley Sons, New York. 	16.	Strahler, A.A. and Strahler, A. N., (2002) Phy	sical	Geography: Science	and Systems of th
 Strahler, A.H. and Strahler, A. N., (1992) Modern Physical Geography, John Wiley and Son INC. Strahler, A.H. (2013) Introducing Physical Geography, Wiley and Sons, New York. Strahler, A.N., Strahler A.H. (2008). Modern Physical Geography. John Wiley and Sons, New York. Thornbury, WD. (2004) Principles of Geomorphology, John Wiley Sons, New York. 		Human Environment, John Wiley and Sons, INC.			
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 Strahler, A.H. (2013) Introducing Physical Geography, Wiley and Sons, New York. Strahler, A.N., Strahler A.H. (2008). Modern Physical Geography. John Wiley and Sons, New York. Thornbury, WD. (2004) Principles of Geomorphology, John Wiley Sons, New York. 		INC.			
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York. 20. Thornbury, WD. (2004) Principles of Geomorphology, John Wiley Sons, New York.	19.	Strahler, A.N., Strahler A.H. (2008). Modern Ph	iysic	al Geography. John V	Viley and Sons, New
20. Thornbury, WD. (2004) Principles of Geomorphology, John Wiley Sons, New York.		York.			
	20.	Thornbury, WD. (2004) Principles of Geomorpho	logy	, John Wiley Sons, Ne	w York.
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	Se	ssion: 2024-25	5			
	Part	A – Introduc	tion			
Name of	f Programme	M.Sc. Geog	raphy			
Semeste	er	I				
Name o	f the Course	Geography a	and World Economie	S		
Course	Code	M24-GEO-1	03			
Course	Туре	CC-3				
Level of	f the course	400-499				
Pre-requ	uisite for the course (if any)	N.A.				
Course After co will be a	Learning Outcomes (CLO) mpleting this course, the learner able to:	M24-GEO-103.1. provide understanding about the location and distribution of economic activities M24-GEO-103.2. acquaint with the spatial organization of world economies. M24-GEO-103.3. familiarize with location theories of economic activities. M24-GEO-103.4. acquire knowledge about trade blocs, trends in trade and various processes of				
globalization.						
Credits		Theory	Practical	Totai		
		4	0	4		
Teachir	ng Hours per week	4	0	4		
Internal End Tor	Assessment Marks	30	0	30		
End Ter Max M	m Exam Marks	100	0	100		
Examin	ation Time	3 hours	-	-		
Dataini	Part B- C	ontents of th	e Course			
Instructi each uni considera syllabus. each unit	t and one compulsory question (The examinee will be required t and the compulsory question. All	hiner will set 9 by taking co Question No. to attempt 5 q questions will	9 questions asking tw urse learning outcom 1) will consist 7 par uestions, selecting of carry equal marks.	vo questions from mes (CLOs) into ts covering entire one question from		
Unit	Тс	opics		Contact Hours		
П	1. Geographical approach to economy: space, place and scale. 15 2. Concepts in economic geography: economic man, goods and services, production, exchange and consumption; consumption process: significance of consumption in economy. 15 3. Spaces of consumption: store, street, mall and theme parks. 15 4. World economies: bases of classification, patterns and characteristics of developed and developing economies of 15					
	the world. 5. Economic development: measures, patterns, prob	meaning, blems and st	evolution, goals, ages of economic			
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	development (classical and con Romer's models).	ntem	porary: Rosto	w's,		
III	III 6. Network structure and economic activities, impact of transport on economic activities, spatial variation in production and transport cost. 15 7. Leasting theories of Weber Leasth Christeller and Illman					
IV	 Bootation incorrector weekly beekly, Globalization and recent trends in trade; major regional trade blocks of GATT, WTO, EU and TRIPS: Fu functions and relevance of OPEC re developed and developing countries 	patte f the incti- gard of th	ern of internation world. ons and relevating energy crision ing world.	nce; s in	15	
		Т	otal Contact H	ours	60	
	Suggested Evaluation	ion N	lethods			
	Internal Assessment: 30		End Tern	I Exa	imination: 70	
≻ 1	Theory	30	> Theory:		70	
• Cla	ass Participation:	05	Written	Exan	nination: 70	
• Ser etc	minar/presentation/assignment/quiz/class test	10				
• Mi	d-Term Exam:	15				
	Part C-Learning	Res	ources			
Reco	mmended Books/e-resources/LMS:					
1.	Aoyama, Y., Murphy, J. and Hanson, S. (20)	10):	Key Concepts in	n Eco	onomic Geography,	
	London: Sage.					
2.	Bagchi-Sen, S. and Smith, H.L. (2006): Economi	c Geo	ography: Past, Pr	esent	and Future, London	
3	Barnes, T., Peck, J., Sheppard, E. and Tickell, A	. (Ed	s) (2003): Readin	ng Ec	onomic Geography,	
2.	London: Wiley-Blackwell.	. (., (,,	0		
4.	Coe, N., Kelly, P. and Yeung, H. (2007): Econor John Wiley & Sons, London.	mic (Geography: A Co	ntemj	porary Introduction,	
5.	Combes, P., Mayer, T. and Thisse, J.F. (2008 Regions and Nations, Princeton University	8): E	conomic Geogra	phy:	The Integration of	
6	Gautam A (2010): Advanced Economic Geogra	ohy.	Sharda Pustak Bh	awan	. Allahabad.	
7.	Hartshorne, T.A. and Alexander, J.W. (2001): New Delhi.	Econ	omic Geography	, Prei	ntice Hall of India.	
8.	Hudson, R. (2005): Economic Geographies: Circu	uits, I	Flows and Spaces	, Lon	don: Sage.	
 Jones, C.F. and Darkenwarld, G.G. Economic Geography, The Macmillan and Company, New York. 						
10. Karlsson, C., Andersson, M. and Norman, T. (2015): Handbook of Research Methods and Applications in Economic Geography, Edward Elgar Publishing, Cheltenham, UK.						
11.	11. Knox, P. (2003): The Geography of World Economy, Arnold, London.					
12.	12. Saxena, H.M. (2013): Economic Geography, Rawat Publications, Jaipur.					
13.	13. Wheeler, J.O. and Muller, P.O. (1985): Economic Geography, John Wiley and Sons, New York.					
14.	Willington, D.E. (2008): Economic Geography, H	Iusba	nd Press.			
15.	Wood, A. and Roberts, A. (2010): Economic Routledge London and New York	c Ge	ography: Places	, Net	tworks and Flows,	
	Rounedge, London and New Tork.					

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		S	ession: 2024-	25	
		Part	A - Introdu	iction	
Name o	f Prog	amme	M.Sc. Geog	raphy	
Semeste	er		I		
Name c	of the (Course	Physical and	Economic Geography	of India
Course	Code		M24- GEO	-104	
Course	Type		CC-4		
Level of the course 400-499					
Pre-req	uisite	for the course (if any)	N.A.		
Course After co will be a	Learn ompleti able to	ing Outcomes (CLO) ng this course, the learner	M24-GEO-10 system in Ind M24-GEO-10 vegetation ch M24-GEO-10 agriculture, n M24-GEO-10 spatial distril trade in India	04.1. understand the rel lia. 04.2. acquaint with dr aracteristics in India. 04.3. enrich about spatia narketing and loan facili 04.4. enhance knowle bution of industries, tra	ief and monsoon ainage, soil and al organization of ties. edge about the ansportation, and
Credits			Theory	Practical	Total
			4	0	4
Teaching Hours per week			4	0	4
Internal Assessment Marks		30	0	30	
End Term Exam Marks			70	0	70
Max. Marks			100	0	100
Examin	ation	lime	3 hours	1. 0	
Instruct each uni consider syllabus. each uni	ions for it and ation. . The of t and the	one compulsory question The compulsory question examinee will be required the compulsory question. A	aminer will se n by taking (Question No I to attempt 5 Il questions w	the course et 9 questions asking two course learning outcom b. 1) will consist 7 parts questions, selecting or vill carry equal marks.	o questions from nes (CLOs) into s covering entire ne question from
Unit			Topics		Contact Hours
Ι	 Physiographic divisions and regionalization schemes of India. Indian monsoon, climatic regions and concept of seasons. 				15
 II 3. Drainage: patterns, type and distribution; water regime of Indian rivers. 4. Soils and vegetation: distribution, characteristics and associated problems. 				15	
ш	5. 6.	Social basis of identity: Agriculture: traditiona husbandry, green revol	regional dim l and mode ution signific and credit	ensions. ern farming, animal cance and challenges;	15

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IV	 Industrial complexes and industrial development, industrial programs in India. 	rial r ial p	egions, challenges olicies, and start-	up 15
	8. Trade and transport: significance	and st	atus.	
			Total Contact Ho	ours 60
	Suggested Evalu	ation	Methods	
	Internal Assessment: 30		End Term En	xamination: 70
> T	heory	30	> Theory:	70
• Cla	ss Participation:	5	Written Exa	amination: 70
Seminar/presentation/assignment/quiz/class				
test	etc.:			
• Mic	d-Term Exam:	15		
	Part C-Learnin	ng Re	sources	
Recor	mmended Books/e-resources/LMS:			5 10 JAN 101 101 101
1.	Dubey, R. N., 1974: Economic Geograp	phy o	f India, Kitab Mal	hal, Allahabad
2.	Hussain Majid., 2015: Geography of In	ndia, 1	Mc Graw Hill Edu	acation.
3.	Joshi, H. L., 1990: Industrial Geograph	y of I	ndia, Rawat Publi	cations, Jaipur
4.	Nag, P. and Sengupta, S., 1992: Geographic New Delhi.	raphy	of India, Concep	t publications. Co.,
5.	Singh, R. L.: India: A Regional Geogra	aphy,	N.G.S.I., Varanas	si, 1971
6.	Sharma, T. C. and Coutinho, O. 198	8: Ec	onomic and Com	mercial Geography

- of India. Vikas Publishing House Pvt. Ltd, New Delhi. 7. Singh, S. and Saroha, J. 2019. Geography of India, Mc Graw Hill Education.
- 8. Tiwari, R. C.: Geography of India, PrayagPustak Bhawan, Allahabad.

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	Se	ssion: 2024-25	5		
	Part	A – Introduc	tion		
Name o	f Programme	M.Sc. Geogr	raphy		
Semeste	r	I			
Name o	f the Course	Quantitative	Methods in Geography		
Course	Code	M24-GEO-1	05		
Course	Туре	CC-5			
Level o	f the course	400-499			
Pre-requ	uisite for the course (if any)	N.A.			
Course	Learning Outcomes (CLO)	M24-GEO-10	5.1. understand tools	of quantitative	
After co	mpleting this course, the learner	information a	nd data.	haut statistical	
will be	able to:	analysis of sp	atial pattern from geogra	aphical data.	
		M24-GEO-10	5.3. enrich know	ledge about	
	inferential data analysis and errors associated with				
		nt. M24_GEO_10	5.4 acquaintance with	bivariate and	
		multivariate a	nalytical techniques.	bivariate and	
Credits		Theory	Tutorial	Total	
		4	0	4	
Teachir	ng Hours per week	4	0	4	
Internal	Assessment Marks	30	0	30	
End Ter	m Exam Marks	70	0	70	
Max. M	arks	100	0	100	
Examin	ation Time	3 hours			
	Part B- C	contents of th	e Course		
Instructi each uni considera syllabus. each unit	t and one compulsory question ation. The compulsory question (The examinee will be required t and the compulsory question. All	hiner will set 9 by taking co Question No. to attempt 5 q questions will	9 questions asking two of urse learning outcomes 1) will consist 7 parts of uestions, selecting one carry equal marks.	questions from s (CLOs) into covering entire question from	
Unit		Topics		Contact	
				Hours	
Ι	1. Descriptive statistics: histo	ogram and free	luency curve, measures	ot 15	
	central tendency: mean,	, median, me	ode, partitioned value	s:	
	quartiles and percentiles, c	comparison of	mean, median and mode	2	
	2. Measures of dispersion:	absolute m	easures: range, quarti	le	
	deviation, mean deviation.	, standard devi	ation, relative measure	of	

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	dispersion: coefficient of variation					
]	 II 3. Normal curve as a probability distribution: characteristics and area under curve. Sampling theory and chance error. 4. Measures of inequality: location quotient, Lorenz curve and Circination 					15
Ι	 II 5. Bivariate analysis in geographi correlation analysis, Spearman's Pearson's correlation coefficient, coefficient of determination. 6. Simple linear regression model: es (least square method), interprise geographical studies. 	cal s ran test timat etatio	studies: k corr of sig ion of r n and	scatter dia relation and gnificance (t regression eq l significance	igram, Karl test), uation ce in	15
Ι	 V 7. Hypothesis testing and chi square: significance test and interpretation. 8. Residuals and their mapping, correlation matrix. 	utilit basi	y in ge cs of	ographical st multivariate	udies, and	15
			Т	otal Contact	Hours	60
	Suggested Evalua	tion 1	Metho	ls		
	Internal Assessment: 30		E	nd Term Ex	amina	tion: 70
>	Theory	30	>	Theory:	70	
•	Class Participation:	5		Written Exa	minatio	on: 70
•	Seminar/presentation/assignment/quiz/class test	10	1			
	etc.:					
•]	Mid-Term Exam:	15	1			
	Part C-Learning	g Res	ource	5		
Re	commended Books/e-resources/LMS:					
1. 2.	Gregory, S. Statistical Methods and the Ge Gupta, C. B. An Introduction to Statistic Delhi, 1974.	eogra cal l	phers, Method	Longman, I ls, Vikas P	Londor ublishi	n, 1964. ing House,
5.	and Technical John Wiley & Sons 1989	19515	III OC	ography, Lo	inginai	1 Scientific
4.	Mahmood, A. Statistical Methods in Geo New Delhi, 1993.	ograp	hical	Studies, Raj	esh Pu	ublications,
5.	5. Pal, S.K. Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi, 1998.					s, Concept
6.	6. Houshmand, A.R. Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.					gricultural
7.	7. Levin, J and Fox, J.A. Elementary Statistics in Social Research, Pearson Education, New Delhi, 2006.					n, Pearson
8.	Rogerson. P.A. Statistical Methods for Ge 2010.	eogra	phy, S	Sage Publica	tion, 1	New Delhi,
9.	Sarkar, A. Quantitative Geography: Techn	iques	and P	resentations	. 2013	
	× .			5		

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		PC-1		
	Se	ssion: 2024-25	5	
	Part	A – Introduc	tion	
Name o	f the Programme	M.Sc. Geog	raphy	
Semeste	er	I		
Name o	of the Course	Advanced C	Cartography	
Course	Code	M24-GEO-1	106	
Course	Туре	PC-1		
Level o	f the course	500-599		
Pre-req	uisite for the course (if any)	N.A.		
Course	Learning Outcomes (CLO)	M24-GEO-10	06.1. understand th	e basic concepts
After co	ompleting this course, the learner	of cartograph	ic techniques	
will be	able to:	M24-GEO-10	06.2. represent the	e diagram/graphs
		through excel	l programme.	
		M24-GEO-10	06.3. representation	of climatic and
		socio-econon	nic data	
		M24-GEO-106.4. prepare choropleth, dot and		
		other diagrams through cartographic techniques.		
Credits		Theory	Practical	Total
		0	4	4
Teachin	ng Hours per week	0	8	8
Internal	Assessment Marks	0	30	30
End Te	rm Exam Marks	0	70	70
Max. M	larks	0	100	100
Examin	nation Time	0	4 h	ours
	Part B- C	contents of th	e Course	
	Instructio	ons for Paper	-Setter	
Note for	Paper Setters: The examiner shall se	t four questions	s. All questions are co	mpulsory.
		CM and a fam I	Production	
F	Distribution	of Marks for f	o	V_{ive} , $v_{oce} = 20$
Exercise	e = 10x4=40 Fl Practical	's	0	Contact
	Tracucar	3		Hours $= 120$
Unit-I	1. Nature, scope, and recent	t advancement	in cartography.	30
	2. Types and characteri	stics of di	istribution maps:	
	Chorochromatic, Choros	chematic. Isor	oleths, Choropleth.	
	Dot and Diagrammatic	,, -I	, , , , , , , , , , , , , , , , , , , ,	
	Dot and Drug and attended			

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Exercise = 10x4=40		4=40 File Record = 10	Viva-voce = 20
	Contact Hours = 120		
Unit-I	1. 2. 3.	Nature, scope, and recent advancement in cartography. Types and characteristics of distribution maps: Chorochromatic, Choroschematic, Isopleths, Choropleth, Dot and Diagrammatic. Types and characteristics of statistical diagrams: One dimensional (bar, line), Two dimensional (circular,	30
	4.	rectangular, square), Three dimensional (sphere, cube) and other diagrams (Snail, pyramid, flow diagram/cartogram). Characteristics of graph/diagrams/maps representing climatic data: Rainfall deviation, Climograph (Taylor	

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and Foster), Hythergraph, Star/Wind rose diagram,	
Isopleths, Line and bar and polygraph.	
Unit-II Representation of data using Excel program:	30
1. Time series analysis: moving average of rainfall and	
temperature data.	
2. Poly and trend graphs; line and bar, rainfall deviation	
diagram, bar graphs (simple, comparative and	
compound); wheel diagram.	
Unit-III Representation of climatic and socio-economic data:	30
3. Climograph (Foster and Taylor)	
4. Hythergraph	
5. Ergograph	
6. Wind rose diagram	
7. Isopleth	
Unit-IV 8. Dot method	30
9. choropleth (mono-variate, bi-variate)	
10. Age and sex pyramid	
11. Snail diagram	
12. Triangle diagram	
13. Cartogram (Traffic flow, rectangular)	
Suggested Evaluation Methods	
Internal Assessment: 30 End Term Exa	mination: 70
Class Participation: 5 Lab record. Viva-V	oce, write-up and
Seminar/Demonstration/Viva-voce/Lab records 10 execution of t	the practical
etc.:	
Mid-Term Exam:	
Fart C-Learning Resources	
Recommended Books/e-resources/LMS:	
1. Dent, B.D. (1999) Cartography: Thematic Map Design, (Vol. 1), McGr	raw Hill.
2. Gupta, K.K. and Tyagi, V.C (1992) Working with Maps, Survey of	India, DSI, New
3 Monkhouse F I and Wilkinson H R (1971) Mans and Diagrams Meth	uen and Co. Ltd.
London	fueli und co. Etd.,
4. Ramamurthy, K (1982) Map Interpretation, Rex Printers, Madras.	
5. Robinson A (1953) Elements of Cartography, John Wiley.	
6. Siddhartha, K (2006) Geography through maps, Kisalaya Publications	Pvt. Ltd, Delhi
7 Circle C (2005) Man month and practical accorrently Vikas Bublishing	
7. Singh, G (2005) Map work and practical geography. Vikas Fublishing	g House Pvt. Ltd.,
 New Delhi Singh, L P and Singh, P (1072) Man work and practical account 	g House Pvt. Ltd.,

9. Singh, R.L (2005) Elements of Practical Geography. Kalyani Publishers, New Delhi. India.

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	SEM
Sessi	on: 2024-25
Name of the Programme	MSc Geography
Semester	П
Name of the Course	Seminar
Course Code	M24-GEO-107
Course Type: (CC/DEC/PC/Seminar/CHM/OEC/EEC)	Seminar
Level of the course	400-499
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	M24-GEO-107.1.improve the articulation and presentation skill of students M24-GEO-107.2.analyse and comprehend the given problem
Credits	Seminar
Teaching Hours per week	2
Max. Marks	50
Internal Assessment Marks	0
End Term Exam Marks	50
Examination Time	1 hour
Instructions for Examiner: Evaluation of the parameters as decided by staff cour examination/viva-voce examination.	he seminar will be done by the internal examiner(s) acil of the department. There will be no external

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	Session: 2024-25				
	Part A – Introduction				
Name o	f Programme	M.Sc. Geog	raphy		
Semeste	er	II			
Name o	f the Course	Geography i	n Hazard Manageme	nt	
Course	Code	M24-GEO-2	201		
Course	Туре	CC-6			
Level o	f the course	400-499			
Pre-requ	uisite for the course (if any)	N.A.			
Course	Learning Outcomes (CLO)	M24-GEO-20	1.1.understand the	concept of hazard	
After co	mpleting this course, the learner	and disaster.			
will be a	able to:	M24-GEO-20)1.2.make a dist	inction between	
		vulnerability	and risk.		
		M24-GEO-20	1.3.make an acquair	ntance with quasi-	
	natural and man-made hazards.				
M24-GEO-201.4.aware about the role of geospath			role of geospatial		
technology in disaster management.				t	
Credits		Theory	Practical	Total	
4			0	4	
Teachir	ng Hours per week	4	0	4	
Internal	Assessment Marks	30	0	30	
End Ter	rm Exam Marks	70	0	70	
Max. M	arks	100	0	100	
Examin	ation Time	3 hours	•	-	
	Part B- C	ontents of th	e Course		
Instructi	ions for Paper- Setter: The exam	niner will set 9	9 questions asking tw	vo questions from	
each uni	t and one compulsory question	by taking co	urse learning outcom	mes (CLOs) into	
considera	ation. The compulsory question (Question No.	1) will consist / par	ts covering entire	
syllabus.	The examinee will be required t	o attempt 5 q	uestions, selecting o	ne question from	
each unit	and the compulsory question. All	questions will	carry equal marks.	Contract	
Unit	10	opics		Hours	
T	1 Disk bazards and disasters	definitions	distinctions	15	
1	2 Hazards: classification and	dimensions	distilletions.	15	
	3 Disaster effects and impac	ts (physical an	d social)		
II	4 Disaster valperability	efinition tur	as measures and	15	
ш	4. Disaster vulnerability. 0	cinition, typ	is, measures and	15	
	5 Disaster risk assessment and management				
	6 Disaster cycles: mitigation measures and preparedness				
Ш	7. Desertification: causes	issessment.	ffects and control	15	
	measures.				
	8. Sea level change: causes	, consequence	es, projections and	×	
	6. Bed level change. causes	, consequence	s, projections and		

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	control measures.				
	9. Technological hazards: nature,				
	perception, mitigation, protection an				
IV	10. Disaster risk reduction framework:	andai.	15		
	11. Disaster management in India: s	strate	egies, p	policies and	
	organizational structure setup.				
	12. Geospatial technology applications	s in	disaster	r prevention	
	and monitoring.				
		T	otal Co	ontact Hours	60
	Suggested Evaluat	ion N	Method	s	
	Internal Assessment: 30	1.0.0	E	nd Term Exa	mination: 70
> The	eory	30	\succ	Theory:	70
• Class	Participation:	05		Written Exan	nination: 70
• Semin	nar/presentation/assignment/quiz/class test	10			
etc.:					
• Mid-	Term Exam:	15			
	Part C-Learning	Res	ources		
Recom	mended Books/e-resources/LMS:				
1. Ale	exander, D. (1993): Natural Disasters, Spring	ger, I	Berlin.		
2. Car	ter, N.W. (1991): Disaster Management:	ΑI	Disaster	Manager's	Handbook, ADB,
Ma	nila.				
3. Coc	ch, N.K. (1994): Geohazards: Natural and H	uma	n, Pears	son, New Dell	hi.
4. Coc	oke, R.U.and DoornKamp, J.C. (197	74)	Geomo	orphology in	n Environmental
Ma	nagement: An Introduction, Clarendon Pres	s, O	cford.		
5. Cut	ny, F.C. (1983): Disasters and Development	, Ox	ford Un	iversity Press	
6. Cut	tter, S.L. (2006): Hazards Vulnerability	and	i Envi	ronmental Ju	istice, Routledge,
Lor	ndon.			New Dalls	
7. Gu	pta, H.K. (2013): Disaster Management, Un	ivers	al Intro	ss, New Delni	sastars Longmon
8. Hev	witt, K. (1977): Regions of Risk: A Geogra	pnic	ai intro	duction to Di	sasters, Longman,
Har	riow.	Die E	orth V	ive Books No	aw Delhi
9. Hus	sky, 1. (2012). Encyclopedia of the Hazard	nhice	al Study	of Disasters	Sage Publication
IU. Kap	w Delhi	pinea	ii Study	of Disasters,	Sage I ubileation,
11 Mo	dh S (2010): Managing Natural Disast	er F	Tydrolc	ogical Marin	e and Geological
Dis	asters Macmillan New Delhi	e 1. 1	i) di bic	Broun, marin	
12 Nat	tional Policy on Disaster Management. (2)	009):	: Minis	try of Home	Affairs, Govt. of
Ind	ia. New Delhi.				anerosa con contesta a
13. Nla	ikie, P. (1994): At Risk: Natural Hazar	ds, l	People'	s Vulnerabili	ty and Disasters,
Rou	utledge, London.				
14. Pau	I, B.K. (2011): Environmental Hazards	and	Disast	ters-Context,	Perspectives and
Ma	Management, Wiley-Blackwell, Chichester, West Sussex, UK.				
15. Pin	e, J.C. (2014): Hazards Analysis: Reducing	g the	Impact	t of Disasters,	CRC Press, New
16 Sin	ah R.B. (2006): Natural Hazards and	Disa	ster M	anagement.	Vulnerability and
Mit	igation Rawat Publications New Delhi	Disa		unagement.	, uniorability and
17. Sin	gh. S. and Singh. J. (2013): Disaster Manag	emer	nt, Prav	alika Publicat	ions, Allahabad.
17.011	Bui, ar and angel, er (2010). Droublet manub		.,		
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- 18. Sinha, A. (2001): Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
- 19. Smith, K. (1996): Environmental Hazards: Assessing Risks and Reducing Disasters, Routledge, London.
- 20. Stoltman, J.P. (2004): International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
- 21. Turk, J. (1985): Introduction to Environmental Studies, Saunders Publications, Tokyo, Japan.
- 22. Varley, A. (1994): Disaster, Development and Environment, John Wiley and Sons, Chichester.

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- AL-	00-7					
S	ession: 2024-25					
Part	A - Introduct	tion				
Name of Programme	M.Sc. Geogra	M.Sc. Geography				
Semester	II					
Name of the Course	Research Me	thodology in Geograp	bhy			
Course Code	M24-GEO-20	02				
Course Type	CC-7					
Level of the course	400-499					
Pre-requisite for the course (if any)	y) N.A.					
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	 M24-GEO-202.1.realization of importance of fieldwork in learning geography. M24-GEO-202.2.ability to identify research problem and formulation of research design M24-GEO-202.3. acquaintance with satellite data. M24-GEO-202.4.development of capability to extract information from resource satellite imageries 					
Credits	Theory	Practical	Total			
	4	0	4			
Teaching Hours per week	4	0	4			
Internal Assessment Marks	30 0 30					
End Term Exam Marks	70 0 70					
Max. Marks	100	0	100			
Examination Time	3 hours					
Part B-	Contents of th	e Course				

Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist 7 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours				
Ι	 Introduction to research methodology: meaning and objectives of research, characteristics of research, types of research. Introduction of research design: purpose and characteristics of design; problems and formulation of research design in geography 					
Π	 Sources of data: characteristics of primary and secondary data. Significance of field work in geography. Sampling design for collection of primary data, quantitative and qualitative data, hypothesis formulation and testing. 	15				
III	 Remotely sensing data: processes of obtaining data, air and space based, types of satellites, sensors characteristics, resolution and types. 	15				

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	6. Panchromatic, multispectral, thermal and hyperspectral remote sensing data, characteristics and significance	
IV	 Indian remote sensing resource satellites data, changing characteristics, significance and uses; applications of remote sensing data in geographical research: data requirement for urban, agriculture and resource mapping and monitoring. Format of report/dissertation/thesis writing. 	15
	Total Contact Hours	60

Suggested Evaluat	ion N	letho	ods		
Internal Assessment: 30		End Term Examination			
> Theory	30	Þ	Theory:	70	
Class Participation:	5	Written Examination: 70		mination: 70	
 Seminar/presentation/assignment/quiz/class test etc.: 	ntation/assignment/quiz/class test 10				
• Mid-Term Exam:	15				

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- 1. Black, J.A. and Champion, D.J. (1976): Methods and Issues in Social Research, New York, John Wiley and Sons, Inc.
- 2. Goode and Hatt, Research Methodology in Social Sciences, Oxford University Press, New Delhi.
- 3. Gomez, B. and John Paul Jones. 2010. Research Methods in Geography-A Critical Introduction. Wiley Blackwell Publications, Singapore.
- 4. Har Prasad (1992) Research Methods and Techniques in Geography, Rawat Publishers, Jaipur.
- 5. Kundu, A. Measurement of Urban Processes: A Study of Regionalization, Popular Prakashan, Mumbai.
- 6. Mishra, H.N. and Singh, V.P. (1998) Research Methodology: Social, Spatial and Policy Dimensions, Rawat Publishers, Jaipur.
- 7. Kothari, C. R. Research Methodology, New Age International Publishers.
- 8. Campbell, J.B. (2002) Introduction to Remote Sensing, Taylor & Francis, New York, USA.
- 9. Jensen, J.R. (2000), Remote Sensing of the Environment: An Earth Resource Perspectives, Pearson Education.
- 10. Lillesand, TM. and Keffer, R. (1994) Remote Sensing and Image Interpretation, John Willy & Sons, New York.
- 11. Meenakshi Kumar (2000), Text book on Remote Sensing; NCERT, New Delhi.
- 12. Nag and Kudrat (2002), Remote Sensing and Image Interpretation, Concept Publishers, Delhi.
- 13. Xuemeng Ca0 and Emily F. Henderson 2021. Exploring Diary Methods in Higher Education Research: Opportunities, Choices and Challenges, Routledge.

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		00-0				
	Se	ssion: 2024-25	5			
	Part	A - Introduct	tion			
Name of	me of Programme M.Sc. Geography					
Semester		II				
Name of	f the Course	Geography of Agriculture and Food Security				
Course	Code	M24-GE0-2	03			
Course	Code	M24-0L0-2	.05			
Lourse	l ype	400 400				
Level of	the course	400-499				
Pre-requ	lisite for the course (if any)	N.A.	2.1 sain Imourlad	ra al	out the	
Course I	relating this course, the learner	MZ4-GEO-20	miculture geography	and its	origin and	
Aller col	ble to:	determinants	& approaches	and no	origin and	
will be a	ble to.	M24 GEO 20	approaches.	know	edge of	
		wiz4-OEO-20	concepts and	land	canability	
		classification	concepts and	land	capaointy	
M24-GEO-203.3 understand the ag				aoricultural		
regionalisation agroclimatic regions and its				its major		
regionalisation, agroeninatie regions and				no inger		
M24-GEO-203.4.familiarize with the			problems,			
prospects and policies of Indian agriculture.				•		
Credits Theory Practical T			Fotal			
4 0			4			
Teachin	g Hours per week	4	0		4	
Internal	Assessment Marks	30	0		30	
End Ter	m Exam Marks	70	0		70	
Max. Ma	arks	100	0		100	
Examina	ation Time	3 hours				
	Part B- C	contents of th	e Course			
Instructi	ons for Paper- Setter: The exam	niner will set 9	9 questions asking tw	vo ques	tions from	
each unit	t and one compulsory question	by taking co	urse learning outcom	mes (C	LOs) into	
considera	tion. The compulsory question (Question No.	1) will consist / par	ts cover	ring entire	
syllabus.	The examinee will be required	to attempt 5 q	carry equal marks	ne que	suon nom	
Unit	and the compulsory question. An	Topics	cally equal marks.		Contact	
Omt		Topics			Hours	
	1. Nature, scope and signifi	icance of agri	cultural geography;	origin		
	and dispersal of agricultu	re; determinan	ts of agricultural pat	tterns:	15	
1	physical, technological an	d cultural facto	ors.		15	
	2. Approaches to the study	of agricultural	geography - regiona	al and		
	systematic approach, ecolo	ogical and com	modity approach.			
	3. Concepts of land capabi	lity classificat	ion; land use surve	y and		
	classification.				15	
ш	4. Concepts of intensity of	cropping, deg	ree of commercializ	ation,	15	
	cropping diversification a	nd concentration	on, crop combination	; Von		
	Thunen model of agricultu	ural land use.				
I			6	7		
			ww		20	
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	5. Agricultural regionalisation: conc	ept	and criteria; Whittlesey's		
ш	agricultural systems; measurement of agricultural efficiency and				
m	productivity.	15			
	Agro-climatic zonation: concept and	d Ind	ian experiences.		
7. Neo-liberalization and Indian agriculture; problems of Indian agriculture; food security in India.					
	agri-business, sustainable agricult	ural	development; agriculture		
	and climate change: impacts and	adap	tation; Indian agricultural		
	policies and challenges.				
			Total Contact Hours	60	
	Suggested Evaluat	ion I	Methods		
	Internal Assessment: 30	1.00	End Term Examinati	ion: 70	
> The	eory	30	> Theory: 70		
 Class 	Participation:	5	Written Examination	n: 70	
• Semin	nar/presentation/assignment/quiz/class test	10			
etc.:					
• Mid-	Ferm Exam:	15			
	Part C-Learning	Res	ources		
Recom	nended Books/e-resources/LMS:				
1. Bow	ler TR (1992) The Geography of Agric	cultu	re in Developed Market H	Economics.	
Lon	gman.				
2. Geo	ffrey, H.F. (1970) Geography of Agricultur	e: Th	emes in Research. Practice	Hall, N.J.	
3. Grig	g D (1995) Introduction to Agricultural Ge	ogra	phy. Routledge, London.		
4. Hus	ain, Majid (1996) Systematic Agricultural (Jeog	raphy. Rawat Publications, J	aipur.	
5. Mor	gon, W.B. and Munton, R.J.C. (1971) Agric	cultu	ral Geography. Methuen, Lo	ondon.	
6. Sing	h Jasbir and Dhillon S.S. (1994) Agricult	ural	Geography. Tata Mc Graw	Hill, New	
Dell	ni.				
7. Safi.	Mohammad (2007) Agricultural Geograph	y. Pi	entice-Hall of India.		
8. Sing	h Jasbir (1989) Agricultural Geography.				
9. Sym	ons, Leslic (1967): Agricultural Geography	, G.	Bell and Sons, London.		
10. Tarr	ant, J.R. (1974) Agricultural Geography, W	illey	, New York.		
11. Ferr	oni, Marco, (2013). Transforming India	n a	griculture- India 2040: Pr	oductivity,	
Mar	kets and Institutions, Sage Publications, Ne	w De	elhi.		
12. Moh	ammad, N. (1992). New Dimension in Agr	icult	ure Geography, Vol. I to VI	II, Concept	
Publ	ishing Company, New Delhi.			-	
13. Moh	ammad, N. and Rai, S.C. (2014). Agricultu	ral D	Diversification and Food Sec	urity in the	
Mou	intain Ecosystem, Concept Publishing Com-	pany	, New Delhi.		
14. Roli	ng, N.G., and Wageruters, M.A.E. (eds.) (1998). Facilitating Sustainable A	griculture,	
Cam	bridge University Press, Cambridge.		-		
15. Shaf	i, M. (2006). Agricultural Geography. Pear	son H	Education, Delhi.		
16. Whi	te P. (2007). Emergence of agriculture: A g	loba	l view, Routledge, London.		
17. Wrig	ght J. (2009). Sustainable agriculture and	foc	d security in an era of o	il scarcity,	
Eart	hscan, London.		ero musici statente da sensi dan Managari 650 da		
18. You	ng, A. (1998). Landuse Resources: Now	and	for the Future, Cambridge	University	
Press	s, Cambridge.			J	
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		CC-9				
		Session: 2024	-25			
	Р	art A – Introd	uction			
Name of	of Programme	M.Sc. Geog	M.Sc. Geography			
Semest	er	II				
Name of	of the Course	Population D	ynamics and Policies			
Course	Code	M24- GEO ·	-204			
Course	Туре	CC-9				
Level of	of the course	400-499				
Pre-req	uisite for the course (if any	y) N.A.				
After co will be	able to:	M24- GEO - mer data base, me M24- GEO - population ar M24- GEO population th M24- GEO - different cou	204.1. gain knowledge ab ethodological issues and m 204.2. familiarize with th ad demographic dividends. -204.3. acquaire know eories and models. 204.4. aware about populat intries and relation betwee nent.	apping. e dynamics of wledge about tion policies of een population		
Credits		Theory	Practical	Total		
			0	4		
Teachi	Teaching Hours per week		0	4		
Internal	Assessment Marks	30	0	30		
End Te	rm Exam Marks	70	0	70		
Max. M	larks	100	0	100		
Examin	ation Time	3 hours				
	Part E	B- Contents of	the Course			
each un consider syllabus. each uni Unit	it and one compulsory quest ation. The compulsory question. The examinee will be require t and the compulsory question.	ion by taking on (Question No red to attempt 5 All questions w Topics	(a) questions asking two questions elearning outcomes (a) will consist 7 parts c (questions, selecting one c (a) carry equal marks.	(CLOs) into overing entire question from		
I	1 Sources quality reliab	ility and applica	tions of nonulation data	15		
	 Sources, quarty, reliab Methodological proble Problems of mapping p 					
11	 Concepts, measurement fertility, mortality, minute Composition of present determinants, and work for a structure and wor	nts, determinan gration (includi opulation: co d patterns of a ce. nd: linkages b	ts, and world patterns of ng policies) and growth. ncepts, measurements, ge and sex, occupational etween population and	15		

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	economic development.					
III	7. Theory of population: Malthus,	viev	vs of	Marx and R	icardo,	15
	demographic transition model.					
	8 Population resource relations: concepts of over population					
	under population and optimum p	onul	ation	· nonulation re	source	
1	regions	opun	unon	, population it	Jouree	
1	0 Limits to growth: concent and ann	licat	ion			
IV	9. Elimits to growth, concept and app	meat	1011.	1 1'		15
1.4	10. Comparative study of population	on p	roble	ems and point	cies of	15
	developed and less developed cour	ntrie	s.	10 1		
	a) Developed world: U.S.A.,	Aust	tralia	, and Canada.		
	b) Less developed world: Ind	ia, C	hina	and Brazil.		
	11. Population problems and environm	nenta	al im	plications.		1
				Total Conta	ct Hours	60
	Suggested Evalu	atio	n Me	thods		
	Internal Assessment: 30			End Term E	xamina	tion: 70
≻ 1	Theory	30	>	> Theory:	70	
• Cla	ass Participation:	5		Written Ex	aminati	on: 70
• Ser	minar/presentation/assignment/quiz/class	10				
test	t etc.:					
• Mie	d-Term Exam:	15				
	Part C-Learnin	σR	eson	rces		
Suggos	stad Daadings:	5	coou	1005		
Jugges	Bhende A A and Kanitkar T (2011): Princi	inles	of P	pulation Studie	e Himal	ava Publishing
1.	House Mumbai	ipies	0110	pulation Studie	s, minai	aya i donshing
2	Cassen Robert & Bates Lisa M (1994).	onul	ation	Policy: A New	w Conse	nsus Overseas
2.	Development Council, Washington, D.C.	opui	ution	roney. It ne		nous overseus
3.	Chandna, R. C. (2016): Population Geography	v: Co	mcen	ts. Determinant	s and Pa	tterns, Kalvani
	Publishers, New Delhi.		P			,,
4.	Demko, G. J. and others (Eds.) (1971): Popu	lation	1 Geo	graphy, Reader	. McGra	w- Hill Books
· · · ·	Co., New York			010,	,	
5.	Graff, M., and Bremner, J. (2014): A Pra	ctica	1 Gu	ide to Populati	ion and	Development,
	Washington DC: Population Reference Bureau					
6.	Hassan, M.I. (2020) Population Geography: AS	System	matic	Exposition, Ro	utledge, l	London.
7.	May, J.F. (2012) World population policies:	their	origi	in, evolution, an	nd impac	et, Washington
	DC: Springer.					
8.	Mahajan, N(2014) Population Geography, R.K.	publ	isher	s, Delhi.		
9.	Premi, M.K. () Social Demography,					
10.	Murray C. J. L., J. A. Salomon, C. D. Math	ers a	nd A	. D. Lopez (),	Summar	y Measures of
	Population Health: Concepts, Ethics, Measuren	nent a	and A	pplications. WI	IO, Gene	va.
11.	Newbold, K Bruce (2016) Population geograph	ıy: To	ools a	nd Issues.		
12.	Qazi, S.A(2010). Population Geography, APH	publi	shers			
13.	Trewartha, G. T. (1972): The Less Develope	ed Ro	ealm-	A Geography of	of its Po	pulation, John
14	Wiley & Sons, Inc., New York.	D 1		0 1 64	D 1	. D
14.	Prove New Verk	Real	m-A	Geography of it	s Popula	non Pergamon
15	Woods P (1070): Population Analysis in Good	monh	w Lo	nomen London		
15.	United Nations (1907): Health and Martality	graph	iy, Lo	f Clobal Cana	Drog	anding of the
10.	Symposium on Health and Mortality Brussele	10.2	2 Nor	vember 1007	an, Floc	ceding of the
	Symposium on meanin and Monanty, Brussels,	19-2	2 110	venitier 1997.		
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CC-10 Session: 2024-25					
Part A - Introduction					
Name of Programme M Sc. Geography					
Semester	II	II			
Name of the Course	Project	Rep	ort Based on Field S	Survey	
Course Code	M24-GI	EO-	205	•	
Course Type	CC-10				
Level of the course	400-499)			
Pre-requisite for the course (if any)	N.A.				
Course Learning Outcomes (CLO)	M24-GE	0-2	205.1. work as a tea	m and handle the field	
After completing this course, the learner will be able to:	M24-GE	s. 0-2	205.2. identify soo	cio-economic problem	
	M24-GF	0-2	05.3 aware about s	ampling techniques for	
	data coll	ecti	on in the field.	ampring cominques for	
	M24-GE	0-2	05.4. get training of	f retrieval, analysis and	
2.11	interpret	atio	n of socio-economic	field data.	
Credits	Theor	у	Practical	Total	
	4		0	4	
Teaching Hours per week	4		0	4	
Internal Assessment Marks	30	_	0	30	
Max Marks	100		0	100	
Examination Time	3 hours		· · ·	100	
Part B-	Content	s of	f the Course		
Instructions for Paper- Setter: Examin	ner will h	ave	to evaluate the can	didate on the basis of	
field report prepared by the student.					
Unit Topics Contact Hours			Contact Hours		
Note: Since this paper includes the fie	eld based	stu	dy, every student o	or a group of students	
will prepare a report on the bases of	data gen	era	ted from the field.	The prepared report	
will be evaluated by an external exam	iner duly	ap	proved by PGBOS.	60	
Suggest	ed Evalu	atio	n Methods	ours 00	
Internal Assessment: 30			End Term I	Examination: 70	
> Theory		30	> Theory:	70	
Class Participation:		5	Field Report: 40		
Seminar/presentation/assignment/quiz	z/class	10	Presentation based	viva-voce on report: 30	
test etc.:					
Mid-Term Exam: 15					
Part C-Learning Resources					
Suggested Readings:	(107())	M	d 1 11 '		
1. Black James A and D.J. Champion (1970): Methods and Issues in Social Research, New					

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York, John Wiley and Sons, Inc.

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- 2. Goode and Hat, Research Methodology in Social Sciences, Oxford University Press, New Delhi.
- 3. Gomez B and John Paul Jones. (2010) Research Methods in Geography-A Critical Introduction. Wiley Blackwell Publications, Singapore.
- 4. Har Prasad (1992) Research Methods and Techniques in Geography, Rawat Publishers, Jaipur.
- 5. Kundu A. Measurement of Urban Processes: A Study of Regionalization, Popular Prakashan, Mumbai.
- Mishra, H.N. and Singh V.P. (1998) Research Methodology: Social, Spatial and Policy Dimensions, Rawat Publishers, Jaipur.

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			PC-2			
		S	ession: 2024-	25		
N. (C.1 D	Part	A – Introdu	iction		
Name of	t the P	rogramme	ramme M.Sc. Geography			
Semeste	r		II			
Name of	Name of the Course Morphometric Analysis					
Course	Course Code M24-GEO-206					
Course Type PC-2						
Level of the course 500-599						
Pre-requ	isite	for the course (if any)	N.A.			
Course	Learn	ing Outcomes (CLO)	M24-GEO-2	06.1. understand the	e history, basic	
After completing this course, the learner will be able to:		concepts and significance of morphometric analysis. M24-GEO-206.2. draw watershed and profiles an interpret them. M24-GEO-206.3. represent the ordering, linear an areal aspects of drainage basin.				
			M24-GEO-2	06.4 prepare the slope	and relief maps of	
			drainage bas	in.		
Credits			Theory	Practical	Total	
			0	4	4	
Teachin	ng Ho	urs per week	0	8	8	
Internal	Asses	ssment Marks	0	30	30	
End Ter	mExa	am Marks	0	70	70	
Max. M	arks	T 1	0	100	100	
Examina	ation	lime		4 nours (or as deci	ded by PGBOS)	
Note for P Exercise	Paper S	Instruct Setters: The examiner shall set Distribution Fi	ions for Pape t four questions of Marks for le Record = 1	er-Setter s. All questions are compo Evaluation 10 Viv	ulsory. va-voce = 20	
		Practica	ıl's		Contact Hours	
UnitI		TT' . C 1 '	1 . 1	t ic Nisteral	= 120	
Umt-1	1.	History of morphometric	analysis and	significance. Natural	30	
		unit for morphometric a	inalysis- wate	ershed, Arrangement,		
		identification and interpr	retation of top	pographical sheets of		
	India.					
	2. Profile: Transverse and longitudinal, Drainage network					
analysis. Linear and arear properties, Relationship between						
stream order, number, length and bifurcation ratio.						
	3.	Relief aspect of drain	hage basin:	Area-neight curve,		
		Altimetric frequency	curve, Hy	ypsographic curve,		
		Hypsometric integral curv	ve and Clinog	raphic curve.		
	4.	Development of slope ar	nd various me	ethods of its analysis		
		(Wentworth and Smith's	method).			
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Unit-II	1. 2. 3. 4.	Representation and Interpretation of topographical maps Representation and Interpretation of topographical maps. Delineation of watershed (all exerci Profile analysis: Transverse composite and projected) and Thalweg profile.	of P of C ises (Se lon	hysical features from ultural features from shall be based on it) rial, superimposed, gitudinal or valley	30	
Unit-III	5. 6. 7.	Ordering methods of Stream: Horton and Strahler.30Linear aspect: relationship between stream order and number, average stream length and bifurcation ratio.30Areal aspects: drainage frequency and density30				
Unit-IV	8. 9.	Relief aspect: area height curve, altimetric frequency curve, hypsographic curve, hypsographic integral curve and clinographic curve. Slope analysis: average slope (Wentworth's) and relative relief (G.H Smith's method).			30	
		Suggested Evaluat	tion	Methods		
		Internal Assessment: 30		End Term Exam	mination: 70	
Pra	cticui	n	30	Practicum	70	
Class Participation: Seminar/Demonstration/Viva-voce/Lab records etc.:		5 10	Lab record, Viva-Vo execution of th	bee, write-up and he practical		
• Mid-7	Ferm I	Exam:	15		Χ	
Part C-Learning Resources						

Recommended Books/e-resources/LMS:

1

- 1. Dury, G.H. 1966. Essays in Geomorphology. Heinmann, London.
- 2. Misra, R.P. and Ramesh, A. 1999. Fundamentals of Cartography, Concept Publishing Company, New Delhi.
- 3. Miller, A. 1964. The Skin of the Earth. Methuen, London.
- 4. Monkhouse, F. J. and Wilkinson, H.R. 1980. Maps and Diagrams. B.I. Publications, New Delhi.
- 5. Singh, R. L. 1986. Elements of Practical Geography, Kalyani Publications, New Delhi.
- 6. Singh. S. Geomorphology (2022), Prayag Pustak.
- 7. Strahler and Strahler (2000), Physical Geography, Wiley.

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Session: 2024-25								
Part A - Introduction								
Name of the Programme MSc. Geography								
Semeste	r	II						
Name o	f the Course	Constitu	ition	al, Human and Mora	l values, and IPR			
Course	Code	M24-CH	M-20	01				
Course	Type	CHM	101 20					
Course Type CHM								
Dre requ	uisite for the course (if any)	NA	400-499					
Course	Learning Outcomes (CLO)	1	1					
After co	mpleting this course, the learner	2						
will be	ble to:	3						
will be a	lole to.	4						
Credits		Theor	y	Practical	Total			
		2		0	2			
Teachir	ng Hours per week	2		0	2			
Internal	Assessment Marks	15		0	15			
End Ter	m Exam Marks	35		0	35			
Max. M	arks	50		0	50			
Examin	ation Time	3 hou	irs					
	Part B- C	ontents	of th	e Course				
Instructi	ions for Paper- Setter: The exam	niner will	set !	9 questions asking ty	wo questions from			
each uni	t and one compulsory question	by takin	g co	urse learning outco	mes (CLOs) into			
considera	ation. The compulsory question (Q	Juestion 1	No. 1) will consist at least	st 4 parts covering			
entire sy	llabus. The examinee will be requ	uired to a	ttem	pt 5 questions, selec	cting one question			
from eac	h unit and the compulsory question	n. All que	stion	is will carry equal ma	arks.			
Unit	То	Topics Contact			Contact			
T					nours			
Î								
III								
IV	IV							
			Т	otal Contact Hours	30			
	Suggested Evaluation Methods							
Internal Assessment: 15 End Term Examination: 35					amination: 35			
> Theory			15	> Theory	35			
Class Participation: 4 Written Examination				amination				
Seminar/presentation/assignment/quiz/class			4					
etc.:								
• Mid-		7						
_	Part C-L	earning	Res	ources				
Recommended Books/e-resources/LMS:								

CHM

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Note: Syllabus of this paper will be provided by academic branch of the university.

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Session: 2024-25				
Part	A - Introduct	ion		
Name of the Programme	Common to all PG Programmes			
Semester	2 nd			
Name of the Course	Constitutional, Human and Moral Values, and IPR			
Course Code	M24-CHM-20	1		
Course Type	CHM			
Level of the course	400-499			
Pre-requisite for the course (if any)		-		
Course Learning Outcomes (CLO)	M24-CHM-20	1.1.Learn the diffe	rent Constitutional	
After completing this course, the learner will	Values, Funda	mental rights and dut	ies enshrined in the	
be able to:	India Constitut	tion.		
	M24-CHM-20	1.2.Understand human	nism, human virtues	
	and values, and	d ide of International p	eace.	
	M24-CHM-20	1.3. Grasp the basic	concepts of Moral	
	Values and Pr	ofessional Conduct w	hich are required to	
	become a par	t of the civil society	and for developing	
	professionalist	n.	1 0	
	M24-CHM-20	1.4 Understand conce	ents of Intellectual	
	Property Right	ts Convright Patent	Trademark etc. and	
	about threats o	f Plagiarism	Trademark etc., and	
	about un cuts o	r i lugiunsin.		
Credits	Theory	Practical	Total	
	2	0	2	
Teaching Hours per week	2	0	2	
Internal Assessment Marks	15	0	15	
End Term Exam Marks	35	0	35	
Max. Marks	50	0	50	
Examination Time	3 hours			
Part B-C	Contents of the	Course		
Instructions for Paper- Setter: The examin	ner will set 9 qu	uestions asking two qu	uestions from each	
unit and one compulsory question by taking c	ourse learning o	outcomes (CLOs) into	consideration. The	
compulsory question (Question No. 1) will	consist at leas	st 4 parts covering er	tire syllabus. The	
compulsory question All questions will carry	equal marks	ig one question from	each unit and the	
Unit	onics		Contact Hours	
Constitutional Values	opies		8	
Historical Perspective of Indian Co	nstitution. Basi	c Values enshrined in	Ŭ	
the Preamble of the Indian Con	stitution: Conc	ept of Constitutional		
Morality: Patriotic Values and Ingre	dients Nation F	Building: Fundamental		
Rights and Duties : Directive Princi	ples of the State	Policy.		
II Humanistic Values:			7	

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	Humanism, Human Virtues and Civic Sense;	Soc	ial Responsibilities of	1	
	(VasudhaivKutumbkam).				
Ш	Moral Values and Professional Conduct	8			
1	Understanding Morality and Moral Value	s; N	Ioral Education and		
	Character Building; Ethics of Relations	: P	ersonal, Social and		
	Professional; Introduction to Gender Sensitiza	tion;	Affirmative approach		
	towards Weaker Sections (SCs, STs, OBC	's, E	WS& DAs); Ethical		
	Conduct in Higher Education Institutions; Prof	fessio	onal Ethics.		
	Intellectual Property Rights:			7	
	Meaning, Origins and Nature of Intellectual Property Rights				
	(IPRs); Different Kinds of IPRs - Copyright, Patent, Trademark, Trade				
	Secret/Dress, Design, Traditional Knowledge; Infringement and				
	Offences of IPRs – Remedies and Penalties; Basics of Plagiarism policy				
of UGC.					
	Note: Scope of the syllabus shall be restricte	ed to	generic and		
	introductory level of mentioned topics.		Total Contact Hours	30	
	Suggested Evaluati	on N	Tethods	50	
	Internal Assessment: 15	on it	End Term Exe	amination: 35	
> Th	eorv	15	> Theory	35	
• Clas	s Participation:	4	Written Ex	amination	
• Sem	inar/presentation/assignment/quiz/class test etc.:	4			
• Mid-	Term Fxam	7			
- Wild	PartC-Learning	Reso	urces		
Recom	mended Books/e-resources/LMS:	11050			
Ahuia, V	K. (2017). Law relating to Intellectual Propert	v Rig	hts. India, IN: Lexis N	Vexis.	
Baipai, I	B. L., Indian Ethos and Modern Management, N	ew R	oval Book Co., Luckr	now, 2004.	
Basu, D.	D., Introduction to the Constitution of India (St	uden	ts Edition) Prentice H	all of India Pvt. Ltd.,	
New De	lhi, 20th ed., 2008.				
Dhar, P.	L. & R.R. Gaur, Science and Humanism, Comm	onwe	ealth Publishers, New	Delhi, 1990.	
George,	Sussan, How the Other Half Dies, Penguin Press	s, 19	76.		
Govinda	rajan, M., S. Natarajan, V.S. Sendilkumar (eds.)	, Engineering Ethics	(Including Human	
Values)	Prentice Hall of India Private Ltd New Delhi 2	004		101	

Harries, Charles E., Michael S. Pritchard & Michael J. Robins, *Engineering Ethics*, Thompson Asia, New Delhi, 2003.

Illich, Ivan, Energy & Equity, Trinity Press, Worcester, 1974.

Meadows, Donella H., Dennis L. Meadows, Jorgen Randers & William W. Behrens, *Limits to Growth: Club of Rome's Report*, Universe Books, 1972.

Myneni, S.R, Law of Intellectual Property, Asian Law House.

Narayanan, P, IPRs.

N.A.

Neeraj, P., &Khusdeep, D. (2014). Intellectual Property Rights, India, IN: PHI learning Private Limited.

Nithyananda, K V. (2019). Intellectual Property Rights: Protectionand Management. India, IN: Cengage Learning India PrivateLimited.

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Palekar, Subhas, How to practice Natural Farming, Pracheen (Vaidik) KrishiTantraShodh, Amravati, 2000.

Phaneesh, K.R., Constitution of India and Professional Ethics, New Delhi.

Pylee, M.V., An Introduction to Constitution of India, Vikas Publishing, New Delhi, 2002.

Raman, B.S., Constitution of India, New Delhi, 2002.

Reddy, B., Intellectual Property Rights and the Law, Gogia Law Agency.

Reddy, N.H., SantoshAjmera, Ethics, Integrity and Aptitude, McGraw Hill, New Delhi.

Sharma, Brij Kishore, Introduction to the Constitution of India, New Delhi,

Schumacher, E.F., Small is Beautiful: A Study of Economics as if People Mattered, Blond & Briggs, Britain, 1973.

Singles, Shubham et. al., Constitution of India and Professional Ethics, Cengage Learning India Pvt. Ltd., Latest Edition, New Delhi, 2018.

Tripathy, A.N., Human Values, New Age International Publishers, New Delhi, 2003.

Wadehra, B.L., Law relating to Intellectual Property, Universal Law Publishing Co.

Relevant Websites, Movies and Documentaries:

Value Education Websites, http://uhv.ac.in, http://www.uptu.ac.in.

Story of Stuff, http://www.storyofstuff.com

Cell for IPR Promotion and Management: http://cipam.gov.in/.

World Intellectual Property Organization: https://www.wipo.int/about-ip/en/

Office of the Controller General of Patents, Designs & Trademarks: http://www.ipindia.nic.in/

Al Gore, An Inconvenient Truth, Paramount Classics, USA.

Charlie Chaplin, Modern Times, United Artists, USA.

Modern Technology – The Untold Story, IIT, Delhi.

A. Gandhi, Right Here Right Now, Cyclewala Productions.

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Note: PG board of studies in geography authorise staff council of the department to carry minor corrections in scheme and syllabi of PG programme, if any.

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