# DEPARTMENT OF GEOGRAPHY, CHAUDHARY RANBIR SINGH UNIVERSITY, JIND SCHEME OF EXAMINATION FOR M. Sc. IN GEOGRAPHY (NEP-2020) w.e.f. 2024-25

Semes ter	Cours e Type	Course Code	urse Code Nomenclature of course cal (P)			Credits		Contact hours per week L: Lecture P: Practical T: Tutorial			Interna I Assess ment	End Term Examin ation	Tot al Mar	Examin ation hours
						To		T	P	Tot	Marks	Marks	ks	
	CC-1	M24- GEO-101	CLIMATOLOGY	T	4	al	1	0	0	al				ME IN
	CC-2	M24- GEO -102	GEOMORPHOLOGY	T	4	-	4	-	-	4	30	70	100	3
	CC-3	M24- GEO -103	WOLRD ECONOMIC GEOGRAPHY	T	4	-	4	-	-	4	30	70	100	3
	CC-4	M24- GEO -104	GEOGRAPHY OF INDIA	T		1	4	-	-	- 4	30	70	100	3
I	PC-I	M24- GEO -105	COMPUTER-BASED DATA MANAGEMENT IN GEOGRAPHY	P	4	26	0	1	8	8	30	70	100	3
	PC-2	M24- GEO - 106	QUANTITATIVE METHODS IN GEOGRAPHY	P	4		0	0	8	8	30	70	100	3
	SEM	M24- GEO - 107	SEMINAR	S	2		0	0	0	2				- 5
				Theor	Í		C	_	ect b	ours	0	50	50	I I
Semes ter	Cours e Type	Course Code	Nomenclature of course	Practi cal (P)	Cr	Tot	L		ctur ical	e P: T:	Interna l Assess ment Marks	End Term Examin ation	Tot al Mar ks	Examin ation hours
	CC-5	M24- GEO -201				al	L	T	P	ai	IVANTES	Marks .		
			AGRICULTURE GEOGRAPHY	T	4		4	0	0	4	30	70	100	3 -
	CC-6	M24- GEO -202	RESEARCH METHODOLOGY IN GEOGRAPHY	T	4		4	0	0	4	30	70	100	3
	CC-7	M24- GEO -203	FUNDAMENTALS OF REMOTE SENSING	T	4		4	0	0	4	30	70	100	3
11	CC-8	M24- GEO -204	EVOLUTION OF GEOGRAPHICAL THOUGHT	T	4	26	4	0	0	4	30	70	100	3
85-15-15	PC-3	M24- GEO -205	FIELD SURVEY BASED REPORT	P	4		-		-				1.00	1,000
	PC-4	M24- GEO -206	ANALYTICAL PHYSICAL GEOGRAPHY	P	4		0	0	8	8	30	70	100	4
	СНМ	M24-CHM & IPR- 201	CONSTITUTIONAL, HUMAN AND MORAL VALUES AND IPR	T	2		2	0	8	8	30 15	70 35	100 50	3
	Interns hip	M24-INT-200	An internship course of 4 Credits of 4-6 weeks of after IInd semester is to be completed by every senhancing the employability or for developing the	student Ir	of corne	chin a	an h	vaca e eit	ition her	for	50	50	100	

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# DEPARTMENT OF GEOGRAPHY, CHAUDHARY RANBIR SINGH UNIVERSITY, JIND SCHEME OF EXAMINATION FOR M. Sc. IN GEOGRAPHY (NEP-2020) w.e.f. 2024-25

Semes	Cours e Type	Course Code	Nomenclature of course	Theor y (T)/ Practi cal (P)		Credits		Contact hours per week L: Lecture P: Practical T: Tutorial			Interna 1 Assess ment	End Term Examin	Tot al Mar	Examin ation hours
					1000	Tot	1	T	P	Tot al	The state of the s	Marks	ks	Hours
	CC-9	M24- GEO-301	ECOLOGY AND CONSERVATION	T	4	aı	4	0	0	4	30	70	diam'r.	
	CC-10	M24- GEO -302	GEOGRAPHICAL INFORMATION SYSTEM AND GPS	Т	4		4	1	0	4	30	70	100	3
	PC-5	M24- GEO -303	DIGITAL IMAGE PROCESSING TECHNIQUES	P	4		0	0	8	8	30	70	100	3
	PC-6	M24- GEO -304	PRACTICAL IN HUMAN GEOGRAPHY	P	4	-	-	-	0			5-70		
À	1/2	M24- GEO -305	URBAN GEOGRAPHY	T	-		0	0	8	8	30	70	100	3
T	DSE-1	M24- GEO -306	POLITICAL GEOGRAPHY	T	4	26	4	-	0	4	30	70	100	3
	DSL-1	M24- GEO -307	REGIONAL PLANNING & DEVELOPMENT	T	4		4	0	0	4	30	70	100	3
		M24- GEO -308	POPULATION GEOGRAPHY	m			-						100	3
	DSE-2	M24- GEO -309	GEOGRAPHY OF TRANSPORTATION	T	4		4	0	0	4	30	70	100	3
		M24- GEO -310	GEOGRAPHY OF TOURISM	T	4		4	0	0	4	30	70	100	3
	OEC	M24- GEO -311	GEOGRAPHY OF INDIA		4		4	0	0	4	30	70	100	3
	SPILE SE		OBSCIONITI OF INDIA	T	2		2	-	0	2	15	35	50	3
Semes ter	Cours e Type	Course Code	Nomenclature of course	Theor y(T)/ Practi cal (P)	Cri	edits Tot	L: Pr	Lec Lec racti	ture cal	Tot	Interna † Assess ment Marks	End Term Examin ation Marks	Tot al Mar ks	Examin ation hours
	CC-11	M24- GEO -401	OCEANOGRAPHY	T	4	253	4	0	0	al I	20	Maria Maria		
EXE ST	CC-12	M24- GEO -402	SOCIAL & CULTURAL GEOGRAPHY	T	4		4	0	0	4	30	70	100	3
	PC-7	M24- GEO -403	GEOGRAPHICAL INFORMATION SYSTEM	P	4		0	0	8	8	30	70	100	3
IV	PC-8	M24- GEO -404	PRACTICAL IN TOURISM MANAGEMENT	P	4	26	0	0	8	8	30	70	100	3
15000		M24- GEO -405	DISATER MANAGEMENT	T	4		4	0	0		**	207		
	DSE-3	M24- GEO -406	HYDROLOGY AND WATER RESOURCE MANAGEMENT	T	4		4		0	4	30	70	100	3

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	100	M24- GEO -407	TROPICAL CLIMATOLOGY	T	4	1.	14	10	To	4	1 20	T ===	1		
	1	M24- GEO -408	ENVIRONMENTAL GEOGRAPHY	T	4		4	-	+-	-	30	70	100	3	
	DSE-4	M24- GEO -409	FUNDAMENTALS OF SOIL GEOGRAPHY	T	4		4	1		4	30	70	100	3	
		M24- GEO -410	GEOGRAPHY OF HARYANA	T	4	1	4	0	0	4	20		-		
	EEC	M24- GEO -411	INDIGENOUS KNOWLEDGE SYSTEM IN RESOURCE MANAGEMENT	T	2		2		1	2	30	35	100	3	
	Showness.		OR	Say N.	1000	-	100	100	255	1000	TOWN COMES	1000		PER SECOND	
Semes	Cours			Theor y(T)/ Practi	6		P	Contact hours per week L: Lecture P:		per week		Interna	End	Tot	
ter	e Type	Course Code	- Some activities of course	Practi Credit		edits	P	: Le ract utor	ical		Assess ment	Term Examin ation	al Mar	Examin ation hours	
			THE REPORT OF THE PERSON OF TH			Tot	L	T	P	To	Marks	Marks	ks		
	CC-11	M24- GEO -401	OCEANOGRAPHY	T	4	411	4	0	0	al 4	30	70	100		
		M24- GEO -405	DISATER MANAGEMENT	T	4		4	0	0	4	30	70	100	3	
	DSE-3	M24- GEO -406	HYDROLOGY AND WATER RESOURCE MANAGEMENT	T	4		4	0	0	4	30	70	100	3	
		M24- GEO -407	TROPICAL CLIMATOLOGY	Т	4		4	0	0	4	30	70	100		
		M24- GEO -408	ENVIRONMENTAL GEOGRAPHY	T	4		4	0	0	4	-	70	100	3	
IV	DSE-4	M24- GEO -409	FUNDAMENTALS OF SOIL GEOGRAPHY	T	4	26	4		0	4	30	70	100	3	
		M24- GEO -410	GEOGRAPHY OF HARYANA	Т	4		4	0	0						
	EEC	M24- GEO -411	INDIGENOUS KNOWLEDGE SYSTEM IN RESOURCE MANAGEMENT	T	2		2	0	0	2	30 15	70 35	50	3	
	D	M24- GEO -412	DISSERTATION/PROJECT WORK	D	1 2		0	0	0	12	100	200	300	3	

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CC-1		
24-25		
roduction		
M.Sc.Geograp	ohy	
I	of the and adjuste	
CLIMATOL	OGY	
M24-GEO-10	1 and characteristic and	Str.
CC	na mai mai Piasi da Ma	
400-499		
N.A.	and the said size of	
constitu  Develop climatic Sharpen moisture system. Enrich classific warmin	ents and structure.  scientific und elements and their the understanding e, stability, instability, instability, instability, climate ch	erstanding about characteristics. about atmospheric ility and weather about climatic ange and global
AND DESCRIPTION OF THE PARTY OF	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Total
1 1 5U		4
4	0	4
-30	0/	30
70	0	70
100	0	100
	roduction  M.Sc.Geograp I  CLIMATeL  M24-GEO-10  CC  400-499  N.A.  • Enhance constitut • Develop climatic • Sharper moistur system. • Enrich classific warmin  Theory  4  4  30	roduction  M.Sc.Geography I  CLIMATCLOGY  M24-GEO-101  CC  400-499  N.A.  • Enhance the knowledge a constituents and structure. • Develop scientific understanding moisture, stability, instability, instability system. • Enrich the knowledge classification, climate che warming.  Theory Practical  4 0  4 0  4 0  30 0

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Definition, Nature and Scope of Climatology. Origin, Development and Importance of Atmosphere. Solar radiation and heat budge. Temperature: factor affecting, horizontal and vertical distribution	15
П	Atmospheric pressure, its relation with temperature and other atmospheric factors, world pressure belts and global distribution pattern of pressure.  Atmospheric circulation: Major wind belts of earth, Walker circulation;  El Nino, La Nina and ENSO, Monsoon: theories of its origin and	15

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	characteristics of Indian monsoon.					
Ш	Precipitation: process, forms, and theo of rainfall. Stability and instability of origin and characteristics of extra tropic	of atmo	sphere: tropica	air masses	tribution , fronts,	15
IV	Climatic classification of world by Koe	ppen an	d Thor	nthwaite		
	Climatic change: reconstruction of past Pollen studies) and theories of climate change and Global warming. Impacts and vegetation of world.	change	e Hum	an induced	aliman	15
<b>Fotal</b>	ContactHours					in in
	SuggestedEvalua	tionMe	thode			60
gerune.	InternalAssessment:30	CIOMIVIC		ndTermExa	mination	70
	heory	30		Theory:		/0
• Cla	ssParticipation:	5		WrittenExar	70	0
• Sen test	ninar/presentation/assignment/quiz/class etc.:	10	77	WIREEIEXAL	mation;/	U
• Mic	I-TermExam:	15	XZ			

#### PartC-LearningResources RecommendedBooks/e-resources/LMS:

- 1. Chritchfield, H. J. (2008): General Climatology, Prentice Hall of India, New Delhi.
- 2. Barry, R. G. and Chorley, R. J. (2010): Atmosphere, Weather and Climate, Routledge, CR
- 3. Lal, D. S. (2011): Climatology, Sharda Pustak Bhawan, Allahabad.
- 4. Das, P. K. (1995): The Monsoons, National Book Trust, New Delhi.
- 5. Singh S. (2013): Climatology, Pravalika Publications, Allahabad.

	CC-2					
Session:202	24-25					
PartA-Intr	roduction					
NameofProgramme	M.Sc.Geograp	ohy mention and the				
Semester	I		date (Nata)			
NameoftheCourse	GEOMORPH	HOLOGY	Harris and the same of the sam			
CourseCode	M24-GEO-10	2				
CourseType	CC		THE TEN			
Levelofthecourse	400-499					
Pre-requisiteforthecourse(ifany)	N.A.					
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	Comprehensive Understanding of Geomorphology.     Analysis of Geological Processes.     Interpretation of Geological Theories.     Regional Geomorphological Application					
Credits	Theory	Practical	Total			
sature will be and stop to	4	0	4			
TeachingHoursperweek A TeachingHoursperweek	4	0	4			
InternalAssessmentMarks	30	0	30			
End-TermExamMarks	70	0	70			
Max.Marks	100	0	100			
ExaminationTime	3 hours					

#### PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
	Definitions, Nature, Scope and Concept of Geomorphology, Geological Time Scale.  Approaches and Models in Geomorphology, Recent Trends in Geomorphological Studies.	15
II	Geomorphic process: Weathering factors, processes and landforms. Mass wasting: resultant landforms.  Global plateTectonic Theory and Resultant Landforms.	15
Ш	Theories and Process of Slope Development.  Landforms: Fluvial, Karst, Aeolian, Glacial Process).	15
IV	Regional Geomorphology context of Kashmir Himalaya, Bundelkhandplateau, Thar Desert, Indian Islands, and Western	15

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TotalContactHours						
Suggested Evalue	4:35				60	
SuggestedEvalua InternalAssessment:30	nonivie					
> Theory			<b>EndTermExa</b>	mination	:70	
	30	>	Theory:	70	STEED!	
ClassParticipation:	5		WrittenExan	nination:7	1.70	
<ul> <li>Seminar/presentation/assignment/quiz/class testetc.:</li> </ul>	10			The state of the s		
• Mid-TermExam:	15					

# RecommendedBooks/e-resources/LMS:

- 1. Bloom, A.L. (2002). Geomorphology. Private Limited, New Delhi.
- Cooke, R.U. and Dounkamp, J.C. (1990). Geomorphology in Environmental Management: A New Introduction. Clarendon Press.
- Critchfield, H.J. (1997), General Climatology. Prentice Hall of India Pvt. Ltd, New Delhi
- 4. Emlenton, C. and Thorne, J. (1979). Process in Geomorphology. Edward Arnold, London.
- Goudie, A. (1984). The Nature of the Environment: An Advanced Physical Geography. Basil Blackwell Publishers, Oxford.
- 6. Hamblin, W.K. (1995). Earth's Dynamic System. Prentice Hall, NJ.
- Kale, V.S. and Gupta, A. (2001). Introduction to Geomorphology. Orient Longman, Hyderabad.
- 8. Michael, A. Summerfield (1991). Global Geomorphology. Prentice Hall.
- Monkhouse, F.J. (2009). Principles of Physical Geography. Platinum Publishers, Kolkata.
- Ritter, D.F., Kochel, R.C. and Miller, J.R. (1995). Process Geomorphology. Dubuque, Win C. Brown Publishers.
- Sharma, H.S. and Kale, V.S. (2009). Geomorphology in India. PrayagPustak Bhawan, Allahabad.
- 12. Sharma, V.K. (2010). Introduction to Process Geomorphology. Taylor and Francis, London.
- 13. Singh, S. (2002). Geomorphology. PrayagPustak Bhawan, Allahabad.
- 14. Strahler, A.A. and Strahler, A.N. (2002). Physical Geography: Science and Systems of the Human Environment. John Wiley and Sons, INC.
- Strahler, A.H. and Strahler, A.N. (1992). Modern Physical Geography. John Wiley and Sons, INC.

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	CC-3		
Session	:2024-25		
PartA-	-Introduction		
NameofProgramme	M.Sc.Geogra	iphy	allolds .
Semester	I		
NameoftheCourse	WOLRD E	CONOMIC GEOG	RAPHY
CourseCode	M24-GEO-1	03	
CourseType	CC		
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	N.A.	Machine Manual Commence	
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearner illbeable to:	• Econo	on Theories.  Energy Resource	nd Sustainability. t Theories and
Credits	Theory	Practical	Total
IE /2	4	0	4
TeachingHoursperweek	4	0	4
Internal Assessment Marks	30	≡ 0	30
End-TermExamMarks	CR 700	0	70
Max.Marks	100	10	100
ExaminationTime	3 hours	0111	

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours				
I	Definition, Scope and Approaches of Economic Geography; Factors of location of economic activities (Physical, social, economic and cultural).					
П	World economies: bases of classification, patterns and characteristics of developed and developing economies of the world.  Economic development: Concept andstages of economic development (classical and contemporary: Rostow's models).	15				
III	World Economy and The Capitalist Mode of Production, The Basic Elements of World Economy: Dynamics of World Economy, Spatial Structure of The World Economy.	15				
IV	Globalization and World Economic: GATT, and WTO; functions and	15				

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relevance. Human Development Index, (	Jiodai i	Hung	er Index	
TotalContactHours				60
SuggestedEvalua	tionMe	thod	S	00
InternalAssessment:30			EndTermExa	mination:70
> Theory	30	A	Theory:	70
ClassParticipation:	5		WrittenExan	
<ul> <li>Seminar/presentation/assignment/quiz/class testetc.:</li> </ul>	10			aniation.70
• Mid-TermExam:	15			
PartC-LearningF	Resour	ces		

# RecommendedBooks/e-resources/LMS:

- 1. Aoyama, Y., Murphy, J., & Hanson, S. (2010): Key Concepts in Economic Geography, London: Sage.
- Bagchi-Sen, S., & Smith, H. L. (2006): Economic Geography: Past, Present and Future, London and New York: Taylor and Francis.
- 3. Barnes, T., Peck, J., Sheppard, E., & Tickell, A. (Eds) (2003): Reading Economic Geography, London: Wiley-Blackwell.
- Coe, N., Kelly, P., & Yeung, H. (2007): Economic Geography: A Contemporary Introduction, John Wiley & Sons, London.
- Combes, P., Mayer, T., &Thisse, J. F. (2008): Economic Geography: The Integration of Regions and Nations, Princeton University.
- 6. Gautam, A. (2010): Advanced Economic Geography, Sharda Pustak Bhawan, Allahabad.
- 7. Hartshorne, T. A., & Alexander, J. W. (2001): Economic Geography, Prentice Hall of India, New Delhi.
- Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces, London: Sage.
- 9. Jones, C. F., &Darkenwald, G. G.: Economic Geography, The Macmillan and Company, New York.

10. Knox, P. (2003): The Geography of World Economy, Arnold, London.

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	CC-4	
Session	:2024-25	
PartA-	Introduction	
Name of Programme	M.Sc. Geography	<b>医型性性性</b>
Semester	I	
NameoftheCourse	GEOGRAPHY OF INDIA	
CourseCode	M24-GEO-104	
CourseType	CC 1	
Levelofthecourse	400-499	
Pre-requisiteforthecourse(ifany)	N.A.	
Aftercompletingthiscourse, the learner libeable to:	Development scientific undemographic and their char     Understand the economic s     The students will appreciate geographical know led understand the contemporary	racteristics. tructure of India. te the relevance of ge of India to ry issues.
Credits	Theory Practical	Total
2 2 2 C	4 0	4
TeachingHoursperweek	CR 4U = 0	4
InternalAssessmentMarks	30 0	30
End-TermExamMarks	20170 0/	70
Max.Marks	100 0	100

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Physiographic division of India; Drainage systems" Mechanism of Indian monsoons and climatic regions of India: types of soils and natural vegetation.	15
II	Growth of population, Distribution and density of population; Demographic attributes; sex-ratio, literacy rate and work force; population problems and policies.	15
III	Characteristics of Indian agriculture and its development since	15

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• Mid-	-TermExam:	15					
• Sem teste	inar/presentation/assignment/quiz/class	10					
	ssParticipation:	5		WrittenExar	nination:7	70	
	heory	30	>	Theory:	70	1000	
b Ti	InternalAssessment:30			EndTermExa	mination:	70	
	SuggestedEvalua	tionMet	hods	Malaway.	e de la marita	B COL	
otalC	ontactHours	10.53	(the			60	
	Evolution of administrative map of Indi river water sharing amongst states with of rivers; Terrorism problems of interrand food security.	referer	ice to	SVI . Inter	linking	15	
IV	independence; Agricultural region of India; domestic and international trade	patterns;	Tran	asportation net	work.		

# RecommendedBooks/e-resources/LMS:

- 1. Spare, O.H.K. and A.T.A. learmonth: Geography of India and Pakistan, Methuen London (first Indian Edition, 1984, MunshiramManoharlal, New Delhi) 1967.
- 2. Gautam A: Advanced Geography of India, Sharda Pustakbhawan, allahabad, 2009.
- 3. Sharma, T.C. and Coutinho, O: Economical and commercial Geography of India, Vikas publishing house Pvt. Ltd. New Delhi, 1988.
- 4. Chandna, R.C.: Geography of Population, Kalyani Publishers, 1998.
- 5. Tirtha, Ranji: Emerging India, Conpub. Ann Arbour, U.S.A. Michigan, 2006.

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	PC-1				
S	Session:2024-25				
Pa	rtA-Introductio	on	2 Veliani I Hala		
NameoftheProgramme	M.Sc. Geogra	phy	Testerin mili		
Semester	I	soft EN	( bodydenia		
Name of the Course	COMPUTER-BASED DATA MANAGEMENT GEOGRAPHY				
Course Code	M24-GE	O-105	of the state of th		
Course Type:	PC				
Level of the course (As per Annexure-I	500-599				
Pre-requisite for the course (if any)	NA	98	Selepart		
Course Learning Outcomes (CLO): After completing this course, the learner will be able to:					
Credits	Theory	Practical	Total		
US hith for this file.	00	04	04		
Teaching hours per week	00	08	04		
Internal assessment marks	00	30	30		
End term examination marks	00	70	70		
Max Marks	00	100	100		
Examination Time	03 Hour	1			

Part B- Contents of the Course

#### **Instructions for Paper-Setter**

The examiner shall set four questions. All questions are compulsory.

Distribution of Marks for Evaluation:

Distribution of Marks for Evaluation

Exercise=10x4=40 FileRecord = 20 Viva-voce= 10

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Unit	Topics	Contact Hours
I	Introduction to Computer System: Hardware and Software Introduction to MS Office	30
II	Entering and Management of Data using spreadsheets Uses of basic statistical tools to process the data	30
Ш	Representation of Geospatial Data Line Graph (single and polygraph) Bar graph (simple, compound and multiple) Pie Charts X, Y scatter plots Trend line	30
(V	Introduction to MS Power point and making of power point presentation. Introduction to MS Word and uses of various tools in Report Writing in MS Word.	30
	Total Contact Hours	120
Suggest	ted Evaluation Methods	
Practicu Class Pa	Assessment: um: 30 articipation: 10marks -/presentation/assignment/quiz/class test/Viva-voce etc.: 20 marks	Exercise -40 Viva-Voce-10 File record-20
	Part C-Learning Resources	tribute de la
Recomm	nended Books/e-resources/LMS: apport.microsoft.com/en-us/training	

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	PC-2		
Session:20	24-25		
PartA-Int	roduction		
NameofProgramme	M.Sc.Geog	raphy	
Semester	I		
NameoftheCourse	QUANTITI GEOGRA		METHODS IN
CourseCode	M24-GEO-	-106	
CourseType	CC	tine shakapi	
Levelofthecourse	400-499		TERRITOR PRESIDENT
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwillbeable to:	and of Gain spati	lata.  knowledge about al patterns from generation with bivariant techniques.	ariate and multivariate pt of Hypothesis and
Credits	Theory	Practical	Total
Calle another 145	0 7 50	4	4
TeachingHoursperweek	0	8 = / /	8
InternalAssessmentMarks	2014	30 💝 🖊	30
End-TermExamMarks	0	70	70
Max.Marks	0	100	100
ExaminationTime	3 hours		

#### Part B- Contents of the Course Instructions for Paper-Setter

Note for Paper Setters: The examiner shall set four questions. All questions are compulsory.

#### Distribution of Marks for Evaluation

Exercise=10x4=40 FileRecord = 20 Viva-voce= 10

Unit	Topic	
	S	Hours
I	Data Measurement in Geography: Nominal, Ordinal, Interval, and Ratio Scale. Measures of central tendency: mean, median, mode.  Measures of dispersion: absolute measures: range, quartile deviation, mean deviation, standard deviation, relative measure of dispersion: coefficient of variation.	30
II	Sampling theory and Type of Sampling, probability, and non- probability.  Normal curve as a probability distribution: characteristics and area under	30

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	the curve.	
III	Bivariate analysis in geographical studies: correlation analysis, Spearman's rank correlation and Karl Pearson's correlation coefficient. Simple linear regression model: estimation of regression equation (least square method),	30
IV	Hypothesis testing with Z- test, t-test and chi-square test, Analysis of Variance. Residuals and their mapping.	30
	mapping.	

InternalAssessment:30		EndTermExan	nination:70
Practicum	30		70
class participation:	10	Exercise -40	- , •
Seminar/Demonstration/Viva-voce/Lab records		Viva-Voce-10	
etc.:		File record-20	

### RecommendedBooks/e-resources/LMS:

- 1. Gregory, S. Statistical Methods and the Geographers, Longman, London, 1964.
- 2. Gupta, C.B. An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974
- 3. Johnston, R.J. Multivariate Statistical Analysis in Geography, Longman Scientificand Technical, John Wiley & Sons, 1989.
- Mahmood, A. Statistical Methods in Geographical Studies, Rajesh Publications, New De lhi, 1993.
- Pal,S.K.StatisticsforGeoscientists:TechniquesandApplications,ConceptPublishing Company,New Delhi,1998.
- 6. Houshmand, A.R. Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
- 7. Levin, JandFox, J.A. Elementary Statistics in Social Research, Pearson Education, New Delhi, 2006.
- $\textbf{8.} \ \ Rogers on. P.A. Statistical Methods for Geography, Sage Publication, New Delhi, 2010.$

9. Sarkar, A. Quantitative Geography: Techniques and Presentations. 2013.

4

Sepai 6/7/2024

(A)

	SEM
Session	on:2024-25
NameoftheProgramme	M.Sc.Geography
Semester	I
NameoftheCourse	Seminar
CourseCode	M24-GEO-107
CourseType:(CC/DEC/PC/Seminar/CHM/OEC/EEC)	Seminar
Levelofthecourse	400-499
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwillbea ble to:	<ul> <li>improve the articulation and presentation skills of students.</li> <li>analyze and comprehend the given problem.</li> </ul>
Credits	Seminar
	2
TeachingHoursperweek	यान्य 2
Max.Marks	50
InternalAssessmentMarks	50
ExaminationTime	1 hour

Instructions for Examiner: students shall submit a topic of his/her own interest within 15 days of the commencement of classes students as submit the PPTin hard and soft copy to the department 20 days before the commencement of the exam. The staff council will decide the dates of the seminar and evaluate accordingly.

Note: Any request of the students for submission and evaluation of his /her seminar after the commencement of the final exam shall not be entertained.

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	CC-5		
Se	ession:2024-2	5	
Par	tA-Introduct	ion	
Name of Programme	M.Sc. Geog	graphy	
Semester	II	author py nabolicze	At the party of the
NameoftheCourse	AGRICUL	TURE GEOGRAPI	HY
CourseCode	M24-GEO-	201	
CourseType	CC	to through an it would	
Levelofthecourse	400-499	unit of Assimil Assimil	
Pre-requisiteforthecourse(ifany)	N.A.		467
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeableto:  Credits	Its D	erstanding Agriculture eterminants. oaches and Conceptraphy. cultural Land Use and ernment Policies, ate Impact on Agricultural	Regionalization. Institutions, and ture.
	4	0	4
TeachingHoursperweek	4	0	4
Internal Assessment Marks	- All 1995 1995	0	30
EndTermExamMarks	70	0	70
Max.Marks	100	8/0	100
ExaminationTime	3 hours		32A . 22 Li 25.
PartR-(	Contentsofth	eCourse	MUEL DE STORE

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks..

Unit	Topics	Contact Hours
I	Nature, scope and significance of agricultural geography; origin and dispersal of agriculture; determinants of agricultural patterns: physical, technological and cultural factors. Approaches to the study of agricultural geography - regional and systematic approach, ecological and commodity approach.	
П	Concepts of land capability classification, recent techniques in agriculture (agroforestry, contract farming, agri-business) Concepts of intensity of cropping, degree of commercialization, cropping diversification and concentration, crop combination; Von Thunen model of agricultural land	15

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	use.	File Barre	N. Call	SE STIPLINE	
Ш	Agricultural regionalization: concept and systems, .Agro-climatic region: concept a	and Indi	an ex	periences	
V	Govt. of India Policies and Institutions (F Boards (Tea Board/Coffee Board/Market bank.), Impact of Climate Change: Agricu	Role of ing Org	ICAR	L, KVKs, Con	nmodity ure seed 15
	LABOR DESCRIPTION	TO AND		TotalContac	t Hours 60
	SuggestedEvalua	ationM	ethod	ls	os langa de la
	InternalAssessment:30	A SOL	_		mination:70
	heory	30	-	Theory:	70
• clas	ss participation:	5	VIII.	WrittenExar	
	ninar/presentation/assignment/quiz/class etc.:	10			
• Mid	I-TermExam:	15			
	PartC-learning	reson	rces	Shidha of S	

# RecommendedBooks/e-resources/LMS:

- 1. Bowler, T. R. (1992): The Geography of Agriculture in Developed Market Economics, Longman.
- 2. Geoffrey, H. F. (1970): Geography of Agriculture: Themes in Research, Practice Hall, N.J.
- 3. Grigg, D. (1995): Introduction to Agricultural Geography, Routledge, London.
- 4. Husain, Majid (1996): Systematic Agricultural Geography, Rawat Publications, Jaipur.
- 5. Morgan, W. B. & Munton, R. J. C. (1971): Agricultural Geography, Methuen, London.
- 6. Singh, Jasbir & Dhillon, S. S. (1994): Agricultural Geography, Tata McGraw Hill, New
- 7. Safi, Mohammad (2007): Agricultural Geography, Prentice-Hall of India.
- 8. Singh, Jasbir (1989): Agricultural Geography.
- 9. Tarrant, J. R. (1974): Agricultural Geography, Wiley, New York.
- 10. Ferroni, Marco (2013): Transforming Indian Agriculture India 2040: Productivity, Markets and Institutions, Sage Publications, New Delhi.
- 11. Mohammad, N. & Rai, S. C. (2014): Agricultural Diversification and Food Security in the Mountain Ecosystem, Concept Publishing Company, New Delhi.
- 12. Roling, N. G. & Wageruters, M. A. E. (Eds.) (1998): Facilitating Sustainable Agriculture, Cambridge University Press, Cambridge.

CC-6			
Session:20	The state of the s		
PartA-Int	roduction	0.7	
NameofProgramme	M.Sc.Geog	graphy	THE WORLD
Semester	II		
NameoftheCourse	RESEAR		OOLOGY IN
CourseCode	M24-GEO	-202	
CourseType	CC	A Charles of the Cale	
Levelofthecourse	400-499	words Townson and	
Pre-requisiteforthecourse(ifany)	N.A.	en en fant grænde	
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	and Iden Iden Acq Con Stud App Proc and	erstand and Differential Methods.  tify and Formulate I Develop and Test Hypuire and Analyze Data duct Pilot Studies lies.  ly Qualitative Researchess and Analyze Data Cartographic Technique Comprehensive Researches	Research Problems otheses.  and Select Case h Methods.  a Using Statistical less.
Credits	Theory	Practical	Total
	4	0/4/	4
TeachingHoursperweek	4	O Mark to Alberta	4 124 1
InternalAssessmentMarks	30	0	30
End-TermExamMarks	70	0	70
Max.Marks	100	0	100
ExaminationTime	3 hours	201000000000000000000000000000000000000	
PartB-Co	ontentsofthe	Course	Miles III

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
	Research: Meaning, Definition - Types and Methods- Fundamental, theoretical research, Empirical, Diagnostic and action-oriented research. Concepts in Research: Identification and selection of Research problem,	15

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Formulation and testing of Hypothesis	
Type of data and their source: Data acquisition Techniques :Interview, Questionnaire, Schedule; interpretation of data.  Need and importance of pilot study. Selection of case studies	15
Qualitative methods - Foundations of Qualitative Methods, Interviews, Focus groups, Ethnography, Participant Observation, Case Study	15
Introduction to abstract, synopsis and research paper.  Research reports: Writing preliminaries, main body of research, references and bibliography (APA, MLA), Glossary, Appendix, Plagiarism.	15
ontactHours Production of the control of the contro	60
	Need and importance of pilot study, Selection of case studies.  Qualitative methods - Foundations of Qualitative Methods, Interviews, Focus groups, Ethnography, Participant Observation, Case Study, Discourse analysis—Participatory research  Introduction to abstract, synopsis and research paper.  Research reports: Writing preliminaries, main body of research, references and bibliography (APA, MLA), Glossary, Appendix, Plagiarism.  Meaning and concept of workshop, seminar, conference, symposium

**SuggestedEvaluationMethods** 

InternalAssessment:30		EndTermExa	mination:70
Theory	30	> Theory:	70
ClassParticipation:	5	WrittenExamination:70	
• Seminar/presentation/assignment/quiz/class testetc.:	10		
• Mid-TermExam:	15		

### PartC-LearningResources

# RecommendedBooks/e-resources/LMS:

- 1. Research Methodology Methods and Techniques, Revised Edited by
- C.R. Kothari (2004), New Age International Publishers, New Delhi.
- 2. Social Research Methods by David Dooley (1995), Prentice Hall, London.
- 3. A Survey Research in Geography-ICSSR, New Delhi (1972), Popular Prakashan, Bombay.
- 4. A Survey Research in Geography -1969-1972, Edited by Moonis Raza (1979), Allied Publishers Private Limited, Bombay.
- 5. Doing Development Research by Vandana Desai and Robert B Potter (2006), Sage Publications, New Delhi.
- 7. New Methods in Social Science Research by Allen, T. Harrell (1978), Praeger Publishers, New York.
- 10. Research Methodology in Social Science in India, edited by L.P Vidyarthi and A.K. Helder(1985), today and tomorrow printers and publishers.
- 11. Quantitative Social Research Methods by Kultar Singh (2007), Sage Publication.
- 12. Social Survey Methods by Paul Nicholas ( 2009), Oxfarm Publishers Delhi.
- 15 Fourth Survey of Research in Geography, G.S.Gosal (1999), Manak publication.
- 16 Contributions in Indian Geography R.P. Misra (1983), Hilky publishers, NewDelhi.

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	CC-7		
	Session: 2024-2	5	
Pa	rt A – Introduct	tion	sidene S
NameofProgramme	M.Sc.Geogra	phy	Set less
Semester	II	Trans.	-rethrold
NameoftheCourse	FUNDAMEN	NTALS OF REMO	TE SENSING
CourseCode	M24-GEO-20		CAMPIEL DE SOIS
CourseType	CC		
Levelofthecourse	400-499	and bear on the	
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	Photogr Fundam Electron Remote Image F	tanding Photograms raphy. mentals of Remo magnetic Radiation. Sensing Platform Processing. ations and Indices in	te Sensing and
Credits	Theory	Practical	Total
	4	0	4
TeachingHoursperweek	4	0	4
InternalAssessmentMarks	30	60	30
End-TermExamMarks	70	2 6 /0 /	70
Max.Marks	20100	8/0/	100
ExaminationTime	3 hours	1	
PartB-C	ontentsoftheCo	urse	S DOMESTIC

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question.

All questions will carry equal marks.

Unit	Topics Topics	Contact Hours
Late	Photogrammetry: History and Development. Aerial Photographs: Types, Geometry, Methods of Determining Scale.  Ground Coverage and Overlapping; Stereoscopes and Stereoscopic Vision, Element of aerial photo interpretation.	15
II	Remote Sensing: Meaning and Basic Principles/Concepts. Electromagnetic Radiations (EMR); Electromagnetic Spectrum; Interaction of EMR with Atmosphere and Earth's Surface Features.Basic Principles of Thermal and Microwave Remote Sensing.	15

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III	Remote Sensing Platforms- Types and Ch Near Polar and Geostationary Orbits.	aracteri	stics; Satellite	Orbits-	15
	Sensors- Types, Specifications and Reso Cartosat). Elements of Image Interpretation Supervised and Unsupervised Classification.	n: Digit	(Landsat, LI al Image Prod	SS and cessing:	
IV	Calculation and application of various indi Sensing Set up and Programmers in I Applications.	ces (NI	OVI, NDWI) emote Sensing	Remote g Data	15
<b>Fotal</b> C	ContactHours		Clair Roll Will		60
	SuggestedEvaluation	<b>Tethods</b>	S	ALCOHOL:	100
	InternalAssessment:30	_		mination	
	InternalAssessment:30 Theory 30		EndTermExa	mination:	100
• Cla	InternalAssessment:30 Theory 30 assParticipation: 5 minar/presentation/assignment/quiz/class 1	>		70	:70
• Cla • Sen test	InternalAssessment:30 Theory 30 assParticipation: 5 minar/presentation/assignment/quiz/class 1 tetc.:	>	EndTermExa Theory:	70	:70
• Cla • Sen test	InternalAssessment:30 Theory 30 assParticipation: 5 minar/presentation/assignment/quiz/class 1	) > 0	EndTermExa Theory:	70	:70

### RecommendedBooks/e-resources/LMS:

- Kumar, D.; Singh, R.B. and Kaur, R. (2019). Spatial Information Technology for Sustainable Development Goals. Springer Nature, Switzerland.
- Gupta, R.P. (2018). Remote Sensing Geology (3rd Edition). Springer Nature, Switzerland.
- 3. Kron, G. (2017), Global Navigation Satellite Systems: Signal, Theory & Applications. Wilmington: Scitus Academics.
- Chuveico, E. (2016). Fundamentals of Satellite Remote Sensing An Environmental Approach (2 nd Edition). CRC Press, Roca Raton.
- Chaunial, D.D. (2016). Principles of Remote Sensing and Geographical Information System (In Hindi), Sharda Pustak Bhawan, Allahabad.
- Heywood, I.; Cornelius, S. and Carver, S. (2011). An Introduction to Geographic Information Systems (4 th Edition). Pearson Education, New Delhi.
- Longley, P.A.; Goodchild, M.; Maguire, D.J. and Rhind, D.W. (2010). Geographic Information Systems and Science (3rd Edition). John Wiley, New Jersey:
- 8. Sabins, F.F. (2007). Remote Sensing: Principles and Interpretation (3rd Edition). Waveland Press, Long Grove.
- Lillesand, T.M.; Kiefer, R.W. and Chipman, J.W. (2004). Remote Sensing and Image Interpretation (5th Edition). John Wiley India, New Delhi.
- 10. Joseph, George (2003). Fundamental of Remote Sensing, University's Press (India) Pvt.

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	CC-8			
* *	Session: 2024-25	,	To all the second	
Par	rt A – Introduct	ion	error design	
NameofProgramme	M.Sc.Geograp	ohy	G SIGNALLY VIII	
Semester	II		HOLDER CO.	
NameoftheCourse	EVOLUTION THOUGHT	N OF	GEOGRAPHICAL	
CourseCode	M24-GEO-20	4	Distribution of	
CourseType	CC	ulgas, at Niculas	* Allerti	
Levelofthecourse	400-499	ile sympletic on	27634000	
Pre-requisiteforthecourse(ifany)	N.A.	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwillbeable to:	The state of the s			
Credits	Theory	Practical	Total	
W.E.	4	5.0	4	
TeachingHoursperweek	4 29 57	5011	4	
Internal Assessment Marks	- 30	= 10 /	30	
End-TermExamMarks	2 0 704	8/0/	70	
Max.Marks	100	0	100	
ExaminationTime	3 hours			

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Classification of knowledge, Nature of geography and its place among sciences.  Geographic knowledge during ancient (Greek and Roman) and medieval (Arab) periods. Contribution of Ancient Indian scholars in geographical development. Foundation of Modern Geography: contributions of Varenius, Kant, Humboldt and Ritter.	15

II	Geography as a study of: Physical features, chorology, landscape science.	
	Concepts in Geography: Environmental determinism, Possibilism, Neo-	15
	determinism, aerial differentiation. Dualism in geography: Physical vs	
	Human geography, systematic vs regional geography.	
III	Quantitative Revolution: Emergence of geography as spatial science.	15
	Positivist Explanations in Geography: Laws, theories, hypotheses, models. Scientific explanations: routes to scientific explanations (Inductive and Deductive approach), cause and effect analysis.	
IV	Modern approaches in geography: Behavioral and Humanistic Perspectives in Geography, Welfare approach, Radical approach	15
T . 10	Structuralism and postmodernism.	
1 otal(	ContactHours	60
	SuggestedEvaluationMethods	
	InternalAssessment:30 EndTermExamination:	70
r	heory 30 Theory: 70	7.0

InternalAssessment:30		EndTermExamination:7	
> Theory	30	> Theory:	70
ClassParticipation:		WrittenExar	nination:70
• Seminar/presentation/assignment/quiz/class testetc.:	10		illiation.70
• Mid-TermExam:	15	16/6	

#### PartC-LearningResources

# RecommendedBooks/e-resources/LMS:

1. Dickinson, R. E. (1969): The Makers of Modern Geography, Routledge, London.

- 2. Dikshit, R. D. (2018): Geographical Thought- A Contextual History of Ideas, Prentice Hall of India, New Delhi.
- 3. Harvey D. (1989): Explanation in Geography, Edward Arnold, London.
- 4. Hartshorne, R. (2000): Perspectives on the Nature of Geography, Rand MacNelly, Chicago.
- 5. James PE and Martin J Geoffrey (1993): All possible Worlds, John Wiley and Sons, New
- 6. Johnston, R. J. (2017): Geography and Geographers, Edward Heinemann, London
- 7. Peet, R.(2011): Modern Geographical Thought, Oxford, Blackwell Publishers.

	PC-3		SELECTION OF
Session:20	24-25		
PartA-Int	roduction		
NameofProgramme	M.Sc.Geograph	ny	resident Mesoria
Semester	II		
NameoftheCourse	FIELD SURV	EY BASED REPO	ORT
CourseCode	M24-GEO-205		
CourseType	PC	USE ONE ASSESSMENT	
Levelofthecourse	500-599		
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	observati • The stud	idents will lear on and primary dat lents will know l will be applied in a	ta collection skills.
Credits		Practical	Total
Credits	0	2 4	4
TeachingHoursperweek	0	8	8
InternalAssessmentMarks	0	30	30
End-TermExamMarks	0	70	70
Max.Marks	0	100	100
ExaminationTime	3 hours		at kurshembirik
PartB-Co	ntentsoftheCou	rse	E KIRIBABARA

#### Instructions:

Candidates are required to submit their filed reports one week before the commencement of the semester examination. A comprehensive survey report on the area/region shall be submitted by the students within two weeks of their return from the tour. The report shall be EvaluatedBy the concerned teacher for recommendations based on which the students appear for the final viva -voce examination.

Since this paper is of a practical nature only, therefore contents of the syllabus need not be organized into units. Students must prepare a field survey report based on field investigation and data collection from the visited areas.

The students of M. Sc. (IInd Semester are required to study and submit their filed survey reports (socio-economic data or physical data) for evaluation and viva voce examination. The duration of the main fieldvisit will be minimum for a period of one week where a single teacher will supervise 15-20 students at a time. The fieldvisit will cover the following region/regions of India decided by the staff council. The classroom teaching would include preliminaries of surveys to equip the students for the fieldwork and surveyreports.

- · The PlateauRegion.
- The Coastal Region.
- · The MountainRegion.
- The North Eastern States.
- The Desert Region.
- The Central India.

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	No. of Contrast of	120		
SuggestedEvaluationMethods				
		nination:100		
30		70		
10		70		
	<b>30</b>	ationMethods  EndTermExan  30 > practicum:  10 Field Report : 50  20 Viva-voce: 20		

#### PartC-LearningResources

# RecommendedBooks/e-resources/LMS:

- 1. Archer, J.E. and Dalton, T.H.: Field Work in Geography, E.T. Bastaford Ltd., London, 1968.
- 2. Creswell, John W., Research Design; Qualitative, Quantitative and Mixed Methods Approach, SAGE Publications, Los Angeles, 2008.
- 3. Flick, U. An Introduction to Qualitative Research, 5th Edition, SAGE, 2014.
- 4. Jones, P.A.: Field Work in Geography, Longman, London, 1968.
- 5. Kothari, C. R., Research Methodology, Methods & Techniques, New Age International Publisher, N. Delhi, 2008.
- 6. Kumar Ranjit, Research Methodology: A step-by-step Guide for Beginners, SAGE Publications, Ltd. London (Third Edition), 2010.
- 7. Montello, D. and P. Sutton, An Introduction to Scientific Research Methods in Geography and Environmental Studies, SAGE, 2012.



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		PC-4		
	Se	ession:2024-25		200. 7
		rt-Introductio	n	
Name	oftheProgramme	M.Sc. Geogr	raphy	
Semes	ster	I		
Name	of the course	ANALLITI	CAL PHYSICA	L GEOGRAPHY
Cours	seCode	M24-GEO-2		E GEOGRAI III
Cours	еТуре	PC		
Level	ofthecourse	500-599	a a second	
Pre-re	equisiteforthecourse(ifany)	N.A.	Emine Albandanie	
Afterc	eLearningOutcomes(CLO) completingthiscourse, the learner e able to:	differe throug unders signific Draw them.  Repress aspects Prepare drainage	th cartographic tect the cartographic tect tand the history, be cance of morphon watersheds and pro- tent the ordering s of the drainage to the slope and ge basin.	pasic concepts and netric analysis. rofiles and interpret , linear and areal pasin. relief maps of the
Credit	S CI	Theory	Practical	Total
Tanak	inglioussan	0	3 4 1	4
	ingHoursperweek alAssessmentMarks	2019	/8/	8
	rmExamMarks	0	30/	30
Max.N		SAFERING QUARTER	70	70
		0	100	100
Exami	nationTime		Hours	
Distribu	Instruction r Paper Setters: The examiner shall ution of Marks for Evaluation	s for Paper-Sel set four questi eRecord = 20	etter	s are compulsory.  Viva-voce= 10
	Practical's		La de la calcia de	ContactHours
				=120
Unit-I	Representation of Climatic data: (Taylor and Foster), Hythergraph,	Rainfall devia Star/Wind ros	ation, Climograph e diagram,	30
Unit-II	Representation of data :Time ser	ies analysis: m data.Ergograph	noving average of a.Isohytes.Rainfal	

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Ш	Serial, superimposed, composite and profile. Drainage network analysis: draining density. Linear aspect: relationship between umber and bifurcation ratio.	aina	ge fr	equency and	
Unit- IV	Relief aspect of drainage basin: A Hypsometric integral curve. Slop slope(Wentworth's)and relative rel method).Representation and Interpretation and Cultural features from topographical rel	ief	analy (G.I	sis average	30
	Total ho	ur			
Deport	Suggested Evaluat	ion l	Metho	ds	
	Internal Assessment:30			ndTerm Exa	mination:70
	acticum	30		Practicum	70
• class	participation:	10		se -40	70
• Semi	nar/Demonstration/Viva-voce/Labrecords	20		Voce-10	

### PartC-Learning Resources

File record-20

### Recommended Books/e-resources/LMS:

etc.:

- Gupta, K. K. & Tyagi, V. C. (1992): Working with Maps, Survey of India, DST, New Delhi.
- Monkhouse, F. J. & Wilkinson, H. R. (1971): Maps and Diagrams, Methuen and Co. Ltd., London.
- 3. Ramamurthy, K. (1982): Map Interpretation, Rex Printers, Madras.
- 4. Siddhartha, K. (2006): Geography through Maps, Kisalaya Publications Pvt. Ltd., Delhi.
- Singh, L. R. & Singh, R. (1973): Map Work and Practical Geography, Central Book, Allahabad.
- Singh, R. L. (2005): Elements of Practical Geography, Kalyani Publishers, New Delhi, India.
- 7. Dury, G. H. (1966): Essays in Geomorphology, Heinmann, London.
- 8. Misra, R. P. & Ramesh, A. (1999): Fundamentals of Cartography, Concept Publishing Company, New Delhi.
- Singh, R. L. (1986): Elements of Practical Geography, Kalyani Publications, New Delhi.
- 10. Singh, S. (2022): Geomorphology, PrayagPustak.
- 11. Strahler, A. H. & Strahler, A. N. (2000): Physical Geography, Wiley.

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Comien			
	2024-25		
	ntroduction		
NameofProgramme	Common to al	l PG Programmes	
Semester	II		
NameoftheCourse	CONSTITUT	TIONAL, HUMAN	AND MORA
CourseCode	VALUES AN		
CourseType	M24-GEO-20	l	
Levelofthecourse	CHM	Teach to the South	
	400-499	a Asian Indonesia in Asian	
Pre-requisiteforthecourse(ifany) CourseLearningOutcomes(CLO)	N.A.	the different const	
Ilbeable to:	and Professional become a part of professionalism. CLO-4:Understa	stand humanism, hu of International peace the basic concept of al Conduct which if the civil society and andconcepts of Inter- ght, Patent, Trader	e. of Mora! Value are required to d for developing
1/1/3/5	threats of Plagian	rism.	mark, etc., and
Credits	threats of Plagian	rism. Practical	Total
	threats of Plagian Theory 2	rism.	
TeachingHoursperweek	threats of Plagian Theory 2 2	rism.  Practical	Total
TeachingHoursperweek InternalAssessmentMarks	threats of Plagian Theory 2 15	Practical	Total 2
TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks	threats of Plagian Theory 2 15 30	Practical 0 0	Total 2 2
TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks Max.Marks	threats of Plagian Theory 2 15 30 50	Practical  0 0 0 0	Total 2 2 15
TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks Max.Marks ExaminationTime	threats of Plagian Theory 2 15 30 50 3 hours	Practical  0 0 0 0 0 0 0	Total 2 2 15 30
	threats of Plagian Theory 2 15 30 50 3 hours ContentsoftheCou	Practical  0 0 0 0 0 0 0 0 rrse	Total 2 2 15 30 50
TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks Max.Marks ExaminationTime	Theory  2  15  30  50  3 hours  ContentsoftheCouminer will set 9 que y taking course lear (Question No. 10 w uired to attempt 5 counter	Practical  O  O  O  O  O  O  Vill consist of 7 parts a selecting of the selections. Selecting of the selections are selecting of the selections.	Total  2  2  15  30  50  destions from Os) into covering the one question

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Morality; Patriotic Values and Ingredients Nation Building; Fundamental Rights and Duties; Directive Principles of the State Policy.	
Humanistic Values: Humanism, Human Virtues and Civic Sense; Social Responsibilities of Human Beings; Ethical ways to deal with human aspirations; Harmony with society and nature; Idea of International Peace and Brotherhood VasudhaivKutumbkam)	7
Moral Values and Professional Conduct: Understanding Morality and Moral Values; Moral Education and Character Building; Ethics of Relations: Personal, Social, and Professional; Introduction to Gender Sensitization; Affirmative Approach towards Weaker Sections (SCs, STS, OBCs, EWS& DAs); Ethical Conduct in Higher Education Institutions; Professional Ethics.	8
Intellectual property Rights:  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.	7
Note: The scope of the syllabus shall be restricted to the generic and introductory level of mentioned topics.	
otalContactHours	30
SuggestedEvaluationMethods	30
InternalAssessment:30 EndTermExamination	:70
Theory: 35	
ClassParticipation:     2014 4 WrittenExamination:3     Seminar/presentation/against a 4/2 in the first and a	35
Seminar/presentation/assignment/quiz/class testetc.:	
• Mid-TermExam:	

# RecommendedBooks/e-resources/LMS:

- Ahuja, V. K. (2017): Law Relating to Intellectual Property Rights, Lexis Nexis, India.
- Bajpai, B. L. (2004): Indian Ethos and Modern Management, New Royal Book Co., Lucknow.
- 3. Basu, D. D. (2008): Introduction to the Constitution of India (Students Edition), 20th ed., Prentice Hall of India Pvt. Ltd., New Delhi.
- 4. Dhar, P. L. & Gaur, R. R. (1990): Science and Humanism, Commonwealth Publishers, New Delhi.
- 5. George, Sussan (1976): How the Other Half Dies, Penguin Press.
- 6. Govindarajan, M., Natarajan, S., &Sendilkumar, V. S. (2004): Engineering Ethics (Including Human Values), Prentice Hall of India Private Ltd., New Delhi.
- 7. Harries, Charles E., Pritchard, Michael S., & Robins, Michael J. (2003): Engineering

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- Ethics, Thompson Asia, New Delhi.
- 8. Illich, Ivan (1974): Energy & Equity, Trinity Press, Worcester.
- Meadows, Donella H., Meadows, Dennis L., Randers, Jorgen, & Behrens, William W. (1972): Limits to Growth: Club of Rome's Report, Universe Books.
- 10. Myneni, S. R.: Law of Intellectual Property, Asian Law House.
- 11. Narayanan, P.: IPRS.
- 12. Neeraj, P. &Khusdeep, D. (2014): Intellectual Property Rights, PHI Learning Private Limited, India.
- 13. Nithyananda, K. V. (2019): Intellectual Property Rights: Protection and Management, Cengage Learning India Private Limited, India.
- Palekar, Subhas (2000): How to Practice Natural Farming, Pracheen (Vaidik) Krishi Tantra Shodh, Amravati.
- 15. Phaneesh, K. R.: Constitution of India and Professional Ethics, New Delhi.
- Pyle, M. V. (2002): An Introduction to the Constitution of India, Vikas Publishing, New Delhi.
- 17. Raman, B. S. (2002): Constitution of India, New Delhi.
- 18. Reddy, B.: Intellectual Property Rights and the Law, Gogia Law Agency.
- Reddy, N. H. & Ajmera, Santosh: Ethics, Integrity and Aptitude, McGraw Hill, New Delhi.
- 20. Sharma, Brij Kishore: Introduction to the Constitution of India, New Delhi.
- Schumacher, E. F. (1973): Small is Beautiful: A Study of Economics as if People Mattered, Blond & Briggs, Britain.
- 22. Tripathy, A. N. (2003): Human Values, New Age International Publishers, New Delhi.
- 23. Wadehra, B. L.: Law Relating to Intellectual Property, Universal Law Publishing Co.

#### Relevant Websites, Movies, and Documentaries

- http://uhv.ac.in, <a href="http://www.uptu.ac.in">http://www.uptu.ac.in</a>.
- Story of Stuff, <a href="http://www.storyofstuff.com">http://www.storyofstuff.com</a>
- Cell for IPR Promotion and Management: http://cipam.gov.in/
- World Intellectual Property Organization: <a href="https://www.wipo.int/about-ip/en/">https://www.wipo.int/about-ip/en/</a>
- Office of the Controller General of Patents, Designs & Trademarks: http://www.ipindia.nic.in/
- Al Gore, An Inconvenient Truth, Paramount Classics, USA.
- Office of the Controller General of Patents, Designs & Trademarks: IP India
- Movies and Documentaries:
- Al Gore, An Inconvenient Truth, Paramount Classics, USA.
- · Charlie Chaplin, Modern Times, United Artists, USA.
- Modern Technology The Untold Story, IIT, Delhi.
- Gandhi, Right Here Right Now, Cyclewala Productions.

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	CC-9		
	Session:2024-2	05	
	rt A-Introduc		
Name of Programme			
Semester	M.Sc.Geog	grapny	
Name of the Course	The second secon	V AND CONCERN	
Course Code		Y AND CONSERV	ATION
	M24-GEO-	-301	
Course Type	CC		
Level of the course	400-499	NULTWINE DE	
Pre-requisite for the course(if any)	N.A.		
Course Learning Out comes(CLO) After completing this course, the learner will be able to:	Demounder struct     To environment	c understanding of ever constrate an entry le restanding the econture and function know about the conmental degradation conmental problems.	vel competence i logical dynamics Biodiversity and
Credits	Theory	Practical	Total
IE/E	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks CR	5 70	0	70
Max. Marks	100	2 0	
			100
Examination Time	3hours	8/11	100

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
1	Evolutionary Biogeography: Theory of Evolution. Process and types of speciation. Adaptation and natural selection.	15
II	Concept of ecology and ecosystem.Population ecology: population characteristics, natality, mortality, age pyramids, sex ratio. Concept of population dispersion, and dispersal.	15
III	Community ecology: Community characteristics, Concept and types of biodiversity, Species richness, Species diversity, diversity index. Ecological succession and types: Primary and secondary succession.	15

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Department of Geography, CRSU, Jind

Page 29 of 74

IV	Biological classification of Flora and Fauna, Conservation of Biodiversity, IUCN and IUCN Red List, Major Threats to Biodiversity loss. Extinction of Species with Special Reference to					
	India.					
1111	Total Contact Hours	BL S	No.		60	
	Suggested Evaluation	n Me	thods			
	InternalAssessment:30				mination:70	
al ho	> Theory	30	7110	Theory:	70	
	• Class Participation:	05		-	mination:70	
Sem	inar/presentation/assignment/quiz/class test etc.:	10		to altroughe		
1/2	• Mid-Term Exam:	15				
	Part C-Lagraina	D				

#### Part C-Learning Resources

#### Recommended Books/e-resources/LMS:

- Anjuneyulu, Y. (2004). Introduction to Environmental Science. B. S. Publications, Hyderabad.
- Chapman, J. L. and Reiss, M. J. (1995). Ecology Principles and Applications. Cambridge University Press.
- Dash, M. C. (2001). Fundamentals of Ecology. Tata McGraw-Hill Publishing Co. Kormondy, E. J. (1996). Concepts of Ecology. Prentice Hall of India.
- 4. Odum, E. P. (1971). Fundamentals of Ecology. W.B. Saunders Co.
- 5. Ricklefs, R. E. and Miller, (1999). Ecology. W.H. Freeman and Co.
- 6. Smith, T. M. and Smith, R. L. (2007). Elements of Ecology. Pearson Education.
- 7. Singh, S. (2007). ParyavaranBhugol. PrayagPustak Bhawan, Allahabad.
- 8. Singh, S. (2006). Environmental Geography. PrayagPustak Bhawan, Allahabad.
- 9. Mathur, H. S. (2003). Essentials of Biogeography. Pointer Publication, Jaipur.

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	CC-10			
Session:20	024-25			
PartA-Int	roduction			
NameofProgramme	M.Sc.Geography			
Semester	III			
NameoftheCourse	GEOGRAPHICAL INFO	ORMATION SYSTEM		
CourseCode	M24-GEO-302			
CourseType	CC #	August 100 Part 100 P		
Levelofthecourse	400-499	PERSONAL PROPERTY.		
Pre-requisiteforthecourse(ifany)	N.A.			
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwillbeable to:	<ul> <li>understand the basics of Geographic Information Systems.</li> <li>enrich skills in the functioning of GIS.</li> <li>understand the tools used in GIS.</li> <li>acquire knowledge about the application of GIS.</li> </ul>			
Credits	Theory Practica			
TeachingHoursperweek 2	4 0	4		
InternalAssessmentMarks	30 0	30		
End-TermExamMarks	70 0	70		
Max.Marks	100 14 0	100		
ExaminationTime	3 hours	100		
	3 hours ontentsoftheCourse			

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	GIS: Definition and scope; Development of GIS, Computer requirements of GIS. Functions of GIS. Components of GIS: Hardware, Software, User. Graphic user interface of Arc GIS, SAGA GIS and Q-GIS.	15
П	Geographic Data: Spatial and Non-Spatial, their sources. Spatial Data Structure: Raster and Vector; Non spatial data: file system and DBMS. Definition and need of coordinate projection system: types, characteristics and relevance of projection system.	15
III	Data input in GIS: scanning and digitization of maps and images, Errors	15

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	in GIS, editing and cleaning. Spa Neighborhood and Proximity. Queries queries.	tial An	nalysis in GIS: (S: Spatial and Nor	Overlay, n-spatial	
IV	Understanding GPS; GPS satellite const segment and user segment; GPS signals observations; Introduction to DGPS; GP GPS system: NAVSTAR, GALILIO and	and coo	les; Errors in GPS		
Total(	ContactHours	14 3		60	
	SuggestedEvaluat	tionMet	thods	Sent pione in Committee	
32 755	InternalAssessment:30		EndTermExa	mination:70	
	> Theory 30 > Theory: 70				
• Cla	assParticipation:	5	WrittenExan		
<ul> <li>Seminar/presentation/assignment/quiz/class</li> </ul>		10			

## PartC-LearningResources

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#### RecommendedBooks/e-resources/LMS:

testetc.:

• Mid-TermExam:

- Burrough, P.A. and McDonnell, R. (2016): Principles of Geographic Information Systems. Oxford University Press, Oxford.
- Chang, K. T. (2017): Introduction to Geographic Information Systems. Tata McGraw Hill Publications Company, New Delhi.
- 3. Demers, M. N. (2008): Fundamentals of Geographic Information Systems. John Wiley and Sons, Singapore.
- Rahman A., (2017): Global Positioning System: Concept, Technique and Application, New Age International Pvt. Ltd, New Delhi.
- Grewal M. S., (2013): Global Navigation Satellite Systems, Inertial Navigation and Integration, Willey-Blackwell.

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PC-5		
Session:2024-25		- Dissert virial
rt A-Introduction		
III		
DIGITAL IMAGE PROCESSING TECHNIQUES		
PC		
500-599		
preparatio Learn th enhancem Understan change de Apply the in various	on methods.  The various technical technical the image class tection.  The various technical tec	niques of image ification, accuracy, ospatial techniques
Theory	Practical	Total
0	4	4
0	8	8
0	30	30
0	70	70
	2 2 2	70
0	100	70 100
	M.Sc. Geograph III  DIGITAL IMATECHNIQUES M24-GEO-303 PC 500-599 N.A.  Understar preparatio Learn the enhancem Understanchange de Apply the in various Theory 0 0 0	Session:2024-25  rt A—Introduction  M.Sc. Geography  III  DIGITAL IMAGE PROCESSI TECHNIQUES  M24-GEO-303  PC  500-599  N.A.  • Understand the remote preparation methods.  • Learn the various technic enhancement.  • Understand the image class change detection.  • Apply the knowledge of geography in various domains of

Instructions for Paper-Setter

Note for Paper Setters: The examiner shall set four questions. All questions are compulsory.

## Distribution of Marks for

#### Evaluation

Exercise=10x4 =40 File Record = 20 Viv		Viva-voce= 10
Unit	Topics	Contact Hours
I	Satellite Data Download from USGS and BHUVAN (ISRO) Layer Stack; Mosaic and Subset. Understanding digital in (digital signature and digital numbers). Visualizing the DN value	etc.; 30
	Georeferencing of Toposeats image to image registration. Preparation NCC and FCC making subset. Making subset and Resolution merge.	30
III	Use of filters and Contrast Stretch, Supervised classification of the image. Unsupervised classification of the image.	30
IV	Accuracy assessment of classified image. Change detection.	30



otalContactHours			120
Suggested Ev	aluatio	n Methods	
InternalAssessment:30		EndTermExan	ination:76
> Practicum	30	> Practicum	70
Class Participation:	10	Lab Exercise: 40	70
Seminar/Demonstration/Viva-voce/Lab	20	Viva-Voce:10	
records		File record:20	
etc.:			

### Part C-Learning Resources

### Recommended Books/e-resources/LMS:

- Kumar, D.; Singh, R.B. and Kaur, R. (2019). Spatial Information Technology for Sustainable Development Goals. Springer Nature, Switzerland.
- Peter, J.G., Teunissen and Oliver, M. (Eds.) (2019). Springer Handbook of Global Navigation Satellite Systems. Springer Nature, Switzerland:
- 3. Gupta, R.P. (2018). Remote Sensing Geology (3rd Edition). Springer Nature, Switzerland.
- Kron, G. (2017). Global Navigation Satellite Systems: Signal, Theory & Applications. Wilmington: Scitus Academics.
- Chuveico, E. (2016). Fundamentals of Satellite Remote Sensing An Environmental Approach (2 nd Edition). CRC Press, Roca Raton.
- Chaunial, D.D. (2016). Principles of Remote Sensing and Geographical Information System (In Hindi), Sharda Pustak Bhawan, Allahabad.
- 7. Scott, M. (2015). Global Navigation Satellite Systems and Their Applications. Springer, New York.
- Heywood, I.; Cornelius, S. and Carver, S. (2011). An Introduction to Geographic Information Systems (4 th Edition). Pearson Education, New Delhi.
- Longley, P.A.; Goodchild, M.; Maguire, D.J. and Rhind, D.W. (2010). Geographic Information Systems and Science (3rd Edition). John Wiley, New Jersey:
- DeMers, M. (2009). Fundamentals of Geographic Information Systems (4th Edition). John Wiley, New Jersey.
- Sabins, F.F. (2007). Remote Sensing: Principles and Interpretation (3rd Edition). Waveland Press, Long Grove.
- 12. Chang, K-t. (2006). Introduction to Geographic Information Systems. Tata McGraw Hills, New Delhi
- Lillesand, T.M.; Kiefer, R.W. and Chipman, J.W. (2004). Remote Sensing and Image Interpretation (5th Edition). John Wiley India, New Delhi.

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				PC-6		A 100
			Se	ssion:2024-2:	5	5.45
			Part	A-Introduct	ion	
Nameo	oftheProgramme			M.Sc. Geog	graphy	
Semest	ter			III		
Name	of the course	when the state of the	SHE VE	PRACTIC	AL IN HUMAN (	CEOGRAPHY
Course	Code	-	William (a)	M24-GEO-		DOGKHI III
Course		No. of Part Assessment	all lie	PC	At the State of th	
	fthecourse		Wilder .	500-599	Walter States	
Pre-rec	uisitefortheco	urse(ifan	ıy)	N.A.		
	LearningOutcompletingthisco able to:	urse, the le		geogra • Enhar	rstanding the aphical data in SPS nee the practica ate techniques in SPS rstand The tools of SS	l knowledge of PSS.
Credits		1/2/		Theory	Practical	Total
1	1	1	4	0	4	4
Teachi	ngHoursperwe	ek /	2000	0	8	8
	AssessmentMa	irks		0	30	30
	mExamMarks	1 2	The best of	0	70	70
Max.M			CI	1 00	100	100
Examin	ationTime \				3 Hours	
istribu	Paper Setters: 7 tion of Marks: =10x4=40	<u>Ins</u> Γhe exami	truction ner shall ation	ntents of the s for Paper-S set four ques eRecord = 20	Setter tions, All questions	s are compulsory.  Viva-voce= 10
		Pr	actical's			ContactHours
Unit-I	Gravity Model	iii. Cost be	enefit An	alysis	c Development ii.	
Unit-II	methods a. Ar Method ii. C Density and Ag	rithmetic Ir alculation gricultural	of Arit Density.	Method, b. G thmetic Dens	pulation Projection deometric Increase sity, Physiological	
	Measures of S analysis.	ettlement	i. Rank	Size Rule ii. I	Nearest neighbor	30
	Calculation of	Crop Cor	ncentrati	on Index: Lo	cational quotient	30
Unit-IV	method. Meas Calculation of a	ure of inec	quality: lo producti	orenez curve, vity.	ginni coefficient.	
Unit-IV	method. Meas	ure of inec	producti	orenez curve, vity. otal hour	ginni coefficient.	

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Internal Assessment:30	E	ndTerm Exar	mination:70
> Practicum	30 >	Practicum	70
• class participation:		xercise -40	
Seminar/Demonstration/Viva-voce/Labrecords	20 Viva-		
etc.:	File R	ecord-20	

#### PartC-Learning Resources

#### Recommended Books/e-resources/LMS:

- 1. Majid, Hussain, M (2008): Systematic Agricultural Geography, Rawat Publications, Jaipur (India).
- 2. Singh, J. and Dhillon, S.S. (2006): Agricultural Geography, Tata McGraw-Hill Publishing Company Limited, New Delhi.
- 3. Shafi, M. (1984): Agricultural Productivity and Regional Imbalances: A Study of Uttar Pradesh, Concept Publishing Company, New Delhi.
- 4. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
- 5. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
- 6. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd London.
- 7. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
- 8. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.



	DSE-1(i)					
Session:2	024-25					
	troduction					
NameofProgramme	M.Sc.Geography					
Semester	III					
NameoftheCourse	URBAN GE	OGRAPHY				
CourseCode	M24-GEO-3					
CourseType	DSE		The second secon			
Levelofthecourse	400-499					
Pre-requisiteforthecourse(ifany)	N.A.		CONTRACTOR OF THE PARTY OF THE			
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	Urban Urban Function Approx Conter	standing Urban ization.  Morphology and Sonal Classification aches in Urban Geomporary Urban Issuppment.	n and Theoretical			
Credits	Theory	Practical	Total			
Tooching	4	0	4			
TeachingHoursperweek	4	0	4			
InternalAssessmentMarks	30	0	30			
End-TermExamMarks	70	= 0	70			
Max.Marks	100 14	8/0/	100			
ExaminationTime	3 hours	121	A. 167 F. 17			
PartB-Co	ontentsoftheCo	ourse	A REPORT OF THE			

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
I	Urban Geography: definition, nature, scope, different approaches and urban settlement concept (town, cities, and metropolitan). Origin and growth of urban places, factors and stages of urban growth and change. Urbanization: definition, concept, trends and pattern of urbanization in the world with special reference of India.	15
II	Aspects of Urban space: urban morphology: concentric zone model, sector model and multiple nuclei model, City Region Relationship of influence or umland and Urban Sprawl. Rural-Urban Fringe: structural	15

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	characteristics and its development.					
III	Functional classification of towns: by Ashok Mitra. Central place theory of rule and Law of Primate City concept.	C. D Christa	Harris Iller a	and H.J Nel nd Losch. Ra	son and	15
IV	Contemporary Urban issues and challen Environmental Pollution. Urban develop India. The concept of sustainable develo	ment F	Policie	s and program	l, and	15
Total C	ContactHours		01 010			60
	SuggestedEvaluat	ionMe	thods			
	InternalAssessment:30	24		EndTermExa	mination	:70
	heory	30	10000	Theory:	70	
• Cla	ssParticipation:	5	100	WrittenExar		70
	ninar/presentation/assignment/quiz/class etc.:	10				
• Mic	i-TermExam:	1.5				
Iso I	PartC-LearningR	esour	ces		1 6 25	

# RecommendedBooks/e-resources/LMS:

1. Hall, P. (2002). Cities of tomorrow: An intellectual history of urban planning and design in the twentieth century. Blackwell Publishing.

 Harris, C. D., & Nelson, H. J. (1991). Urban analysis: A global perspective. University of Chicago Press.

3. Christaller, W. (1966). Central places in southern Germany. Prentice Hall.

4. Losch, A. (1954). The economics of location. Yale University Press.

5. Mitra, A. (2009). Urbanization in India: Challenges and opportunities. Economic and Political Weekly, 44(10), 11-15.

6. Sinha, S. (2018). Urbanization and urban development in India: An overview. Indian Journal of Geography and Environment, 8(2), 1-14.

7. UN-Habitat. (2020). World cities report 2020: The future of cities. Retrieved from https://unhabitat.org/world-cities-report

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THE RESERVE OF THE PARTY OF THE	DSE-1(ii)		
S	ession:2024-25	and the same of th	
Par	t A-Introducti	on	
Name of Programme	M.Sc. Geogr	raphy	
Semester	Ш		
Name of the Course	POLITICA	L GEOGRAPHY	
Course Code	M24-GEO-3		
Course Type	CC	ALL FOR A STATE OF	
Level of the course	400-499	married and the	
Pre-requisite for the course(if any)	N.A.		
Course Learning Out comes(CLO) After completing this course, the learner	like state, n	d be able to unders	stand key concepts
will be able to:	changing natu	kages of space and placed some of the issues	e, challenges it is
will be able to:	changing natural facing; the link geopolities and	re of modern state kages of space and p	e, challenges it is
Credits	changing natural facing; the link geopolitics and local level.  Theory	kages of space and placed some of the issues	e, challenges it is politics in terms of s of concern at the
Credits  Teaching Hours per week	changing natural facing; the link geopolitics and local level.  Theory  4	re of modern state kages of space and placed some of the issues  Practical  0 0	e, challenges it is politics in terms of s of concern at the
Credits  Teaching Hours per week  Internal Assessment Marks	changing natural facing; the link geopolitics and local level.  Theory	kages of space and placed some of the issues  Practical	c, challenges it is politics in terms of s of concern at the  Total
Credits  Teaching Hours per week  Internal Assessment Marks  End Term Exam Marks	changing natural facing; the link geopolitics and local level.  Theory  4	re of modern state kages of space and placed some of the issues  Practical  0 0	e, challenges it is politics in terms of s of concern at the  Total  4  4
Credits  Teaching Hours per week Internal Assessment Marks End Term Exam Marks Max. Marks	changing natural facing; the link geopolitics and local level.  Theory  4  4  30	Practical  0 0	c, challenges it is politics in terms of s of concern at the  Total  4  4  30
Credits  Teaching Hours per week  Internal Assessment Marks  End Term Exam Marks	changing natural facing; the link geopolitics and local level.  Theory  4  30  70	Practical  0 0 0 0	c, challenges it is politics in terms of s of concern at the  Total  4  4  30  70

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topic	Contact
HE	S	Hours
I	Nature and scope of Political Geography; Perspectives: Political- Economy, World Systems, Place, and Globalization.	15
П	Concepts of Nation, State, Nation-State; Emergence and growth of territorial state; Globalization and the Crisis of the Territorial State; Forms of Governance: Unitary and Federal	15
III	Rise and Demise of German Geopolitics; Geopolitics in the post ColdWar World—S.B. Cohen's model of Geo-strategic and Geo political regions	15
IV	India as a regional power in South Asia; National and Regional political parties in India; Women as a marginalized section in Indian politics; Inter-state water disputes in India (special	15

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reference to SYL canal).		Service Services	S SHARWALL	
Total Contact Hours	1 27		. 60	
Suggested Evaluation Methods				
InternalAssessment:30		EndTermExa	mination:70	
> Theory	30	> Theory:	70	
Class Participation:	05		mination:70	
<ul> <li>Seminar/presentation/assignment/quiz/class</li> </ul>	10			
testetc.:				
• Mid-Term Exam:	15			

#### Part C-Learning Resources

#### Recommended Books/e-resources/LMS:

- 10. Agnew, J.A. (1987), Place and Politics, Boston: Allen and Unwin.
- 11. Agnew, J.A. (1998), Geopolitics, London: Routledge.
- 12. Blacksell, Mark (2003), Political Geography, London: Routledge.
- 13. Flint, Collin and Taylor, P.J. (2011), Political Geography, New Delhi: Pearson.
- 14. Cox, Kevin R. (2008), The Sage Handbook of Political Geograph, New Delhi: Sage.
- 15. Dicken, Peter (2003), Global Shift, New Delhi: Sage.
- Dikshit, R.D. (2000), Political Geography: The Spatiality of Politics, New Delhi: Tata McGraw Hill.
- 17. Dodds, Klaus (2007), Geopolitics, New York: Oxford University Press.
- 18. Gallaher, Carolyn et.al. (2009), Key Concepts in Political Geography, New Delhi: Sage.
- 19. Jones, Martin, Rhys Jones and Michael Woods (2003), An Introduction to Political Geography, London: Routledge.
- 20. Khor, Martin (2001), Rethinking Globalization, London: Zed Books.
- 21. Nash, Kate (2000), Readings in Contemporary Political Sociology, Oxford: Blackwell.
- 22. Painter, J. (1995), Politics, Geography and Political Geography, London: Arnold.

Department of Geography, CRSU, Jind

DSE-1(iii	)	A De la Colonia	
Session:2	024-25		
PartA-In	troduction		
NameofProgramme	M.Sc.Geogra	phy	
Semester	III	F7	
NameoftheCourse	REGIONAL	PLANNING & DE	VEL ODMENT
CourseCode	M24-GEO-30	7	VELOPMENT
CourseType	CC	the second second	
Levelofthecourse	400-499		
Pre-requisite for the course (if any)	N.A.		
CourseLearningOutcomes(CLO)	The state	*** *	
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwil lbeable to:	regional planni The students	ill learn about the bang. will study the regerent theoretical ba	gional planning
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, the learner wil	The students process's diffe	ng. will study the re-	gional planning
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwil lbeable to: Credits	regional planni The students process's diffe structures.	will study the re- erent theoretical ba	gional planning
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearnerwil lbeable to: Credits TeachingHoursperweek	regional planni The students process's diffe structures. Theory	will study the re- erent theoretical base.  Practical	gional planning ackgrounds and Total
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearnerwil lbeable to:  Credits  TeachingHoursperweek InternalAssessmentMarks	regional planni The students process's diffe structures. Theory 4	will study the regrent theoretical ba	gional planning ackgrounds and Total 4
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearnerwil lbeable to:  Credits  TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks	regional planni The students process's diffe structures. Theory 4	rent theoretical barractical  O  O	gional planning ackgrounds and  Total  4  4  30
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearnerwil lbeable to:  Credits  TeachingHoursperweek InternalAssessmentMarks	regional planni The students process's diffe structures. Theory 4 4 30	Practical  0 0	gional planning ackgrounds and Total 4

#### PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topic	Contact
	S	Hours
I	Regional Concept in Geography and its application to Planning . Basic Principles and Objectives of Regional Planning. Types of Region: Formal & Functional, Uniform & Nodal, Single Purpose & Composite Region. Methodologies and Techniques of Regional Planning .	15
II	Theories and models of the regional development: Hirschman's model. Growth centers and Growth pole theory of Perroux. Rostow's Model of Growth and Development. Gunnar Myrdal Model of Cumulative Causation.	15
Ш	Planning Regions of India (Macro, Meso & Micro). Regional Planning in India through Five Year Plans. Area Development Programmes for Tribal, Hilly, Drought Prone, Desert and Border Areas. Panchayati Raj	15

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Institutions, Multi-level Planning, Dec	entralized	l Plai	nning.	-0-10/10 E   10/10/10
IV Regional Development in India: Proble Indicators of Development, Levels of I Disparities in India. Case Studies: Reg and Regional Planning in India (DVC) Regional Planning and Development.	Regional gional Pla	Deve	lopment and	
TotalContactHo	urs			60
SuggestedEvalua	tionMet	hods		
InternalAssessment:30		]	EndTermExar	nination:70
> Theory	30	4	Theory:	70
ClassParticipation:	5		WrittenExam	ination:70
<ul> <li>Seminar/presentation/assignment/quiz/class testetc.:</li> </ul>	10			
• Mid-TermExam:	15			
PartC-Learning	Street, Street,	oe .		

### RecommendedBooks/e-resources/LMS:

- 1. Mishra. R. P. (1992). Regional planning: concepts, techniques, policies and case studies.
- 2. Bhat. L. S. (1972) Regional planning in India.
- Chaudhary, J.R. (2001) Introduction to Development and Regional Planning: With Special Reference to India.
- 4. Mishra. J. Sinha. C. (1985) Planning and regional development in India.
- 5. Prasad B.K. (2005) India's development agenda: issues, challenges and policies.
- 6. Nath V. Aggarwal S.K. (2009) (Edited), Regional Development and Planning in India selected Essays Concept Publishing Company.
- 13. Glasson John and Marshall Tim, 2007. Regional Planning, Taylor and Francis, London and New York.
- Kulshreshta S. K. 2012. Urban and Regional Planning in India: A Handbook for Professional Practice, Sage, Newm Delhi.
- 16. Lichfield N., Kettle P. and Whitbread M. 2016. Evaluation in the Planning Process: The Urban and Regional Planning Series (Volume 10), Elsevier.
- 18. Stiftel B. and Watson V. 2005. Dialogues in Urban and Regional Planning, Psychology Press.
- 19. Siddhartha, K., Models in Regional Planning, Kasalaya Publications, New Delhi, 2008.
- 20. Siddhartha, K., Regional Planning of India, Kasalaya Publications, New Delhi, 2007.
- 21. Singh, R.L., India- A Regional Geography, National Geographical Society of India, Varanasi, 2003.

DSE-2	2(i)		
Sessio	n:2024-25		
PartA	-Introduction		
NameofProgramme	M.Sc.Geo	graphy	
Semester	III		
NameoftheCourse	POPULA	TION GEOGRAPH	V
CourseCode	M24-GEC		The second second second second
CourseType	CC	r en en 2 desemble de	
Levelofthecourse	400-499	and the same of the same	
Pre-requisiteforthecourse(ifany)	N.A.	Table 1	
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearner llbeable to:  Credits	wi Con Ana Grov Eval Popu Assee	erstanding Popular cepts and Methodolog lysis of Population with Theories luation of Migratical Planning essment of Contemps and Policies	gy
Credits	Theory	Practical	Total
Total: IX	4	0	4
TeachingHoursperweek	4	0	4
Internal Assessment Marks	30	0	30
End-TermExamMarks 5	CR 70 SU	0	70
Max.Marks	100	0 2 / 1	100
ExaminationTime	3 hours	- W	

# PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
	Concepts, Scope and Methodology of Population Geography; Demography and Population Geography, Sources of Population Data. Population Dynamics: Growth, fertility and mortality measurement. Factors affecting Population distribution, density and growth.	15
II	Theories of Growth: Malthusian Theory, Social Capillarity and Demographic Transition Theory. Optimum Theory of population – Carr Saunders and its criticism. Migration: Types, determinant and consequences. Theories of Migration: Zelinsky, Ravenstein and Lee's Laws.	15

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III Population Planning: Population	Dicteibut	ion	and Cl		1 (6 1 1 1 1
Population Planning: Population Distribution and Characteristic; Population Policy: Developed and Developing Countries, India's					15
Population Policy; Demographic Divis	1 Develo	ping	Countries,	India's	
reparation issues Ageing, Disabil	ity and	Wom	en; Populati	on and	15
Resource; Digital Divide and Inequa- environmental crises.	ality, Pop	oulatio	on in the cor	ntext of	
TotalContactH	ours		minute de	righten a	60
SuggestedEvalu	ationMet	hods	The surface of the su	1000	MINIT
InternalAssessment:30	E Die	I	EndTermExa	mination	:70
> Theory	30	1000	Theory:	70	92,00
ClassParticipation:	5		WrittenExar	nination:7	0
<ul> <li>Seminar/presentation/assignment/quiz/class</li> </ul>	10				
testetc.:					
• Mid-TermExam:	15				
PartC-Learning	The state of the s				

#### RecommendedBooks/e-resources/LMS:

- 1. Bhende, A.A. &Kanitkar, (2014), Principles of Population Studies, Himalayan Pub. H., Mumbai,
- 2. Bogue, D. J., Principles of Demography, New York, 1969.
- 3. Clarke, J.I. Population Geography, Oxford, 1981.
- 4. Coontz, S.H.Population Theories and the Economic Interpretation.
- 5. Garnier, B.J., Geography of Population, Longman Group Limited, London, 1966.
- 6. Jones, H,R., A Population Geography, London, 1981.
- 7. Jhingan M.L. Bhatt B.K. and Desai, J.N. Demography, Vrid Pub. Delhi, 2006.
- 8. Khan, J.H. Socio-Economic and Structural Analysis of Internal Migration, New Delhi, 2010.
- 9. Maurya, S.D.: Population Geography, Pravalika Publication, Allahabad, 2018
- 10. Newbold, K. Bruce, Population Geography, Rawat Publications, 2017.
- 11. Siddiqui. F.A. Regional Analysis of Population Stsructure, new Delhi, 1984.
- 12. Smith, T., Fundamentals of Population Study, New York, 1960.
- 13. Trewartha, G.T., A Geography of Population: World pattern, New York, 1969.
- 14. United Nations, The Determinants and Consequences of Population Trends, Population Studies, 17 Un, New York, Revised Edition.
- 15. White. P. and Wood. R. The Geographical Impact of Migration, Longman, Inc, New York, 1980.
- 16. Wood, R. Population Analysis in Geography, Longman, London, 1979.
- 17. Zelinsky, W. A Prolong to Population Geography, Prentice Hall, New Jersey, 1966.

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troduction		
M.Sc.Geogra	phy	
III	diago, lo motion and	
GEOGRAPI	HY OF TRANSPOR	TATION
M24-GEO-30	09	TATION
CC		
400-499		
N.A.		
transpor understa acquain its impa provide	rt geography and the types of touri tance with tourism act awareness of the car	sm and their trend infrastructure and
Theory	Practical	Total
4	0	4
т 4	0	4
30	0	30
70	0	70
100	0	100
3 hours	3/11	100
ntentsoftheCo	The state of the s	
	M.Sc.Geogra III  GEOGRAPI  M24-GEO-30  CC  400-499  N.A.  familian  transpo  underst  acquain  its impa  provide  tourism  Theory  4  30  70  100	M.Sc.Geography III  GEOGRAPHY OF TRANSPOR  M24-GEO-309  CC  400-499  N.A.  • familiarization with the transport geography • understand the types of touri • acquaintance with tourism its impact • provide awareness of the car tourism destinations  Theory Practical  4 0  4 0  30 0  70 0  100 0

Unit	Topics	Contact Hours
I	Nature, scope, significance and development of transport geography. Factors associated with the development of transport system; economic, social, cultural and institutional. Impact of transport infrastructure on economic and regional development.	15
	Characteristics and relative significance of different modes of transport: railways, roads, airways, and waterways, pipelines, etc. Structure measures- network structure, measurement of accessibility and connectivity.	15
Ш	Bases of spatial interaction, complementarities, intervening opportunities and transferability (model of ulmann).Patterns of movement: the type,	15

	patterns of movement and transport function, pattern of movement, geometr	modes y and tr	. Tra	nsport netwo	ork; the	
IV	Transport policy and planning in Indiproblem of urban transportation. Environmental pollution and congestion alternatives cities in India. National highway develo	ronmen to the	tal de transp	egradation: ve	ehicular n mega	15
<b>FotalCo</b>	ntactHours			and the		60
	SuggestedEvaluat	tionMe	thods			
Liberial.	InternalAssessment:30			EndTermExa	mination	:70
> Th	eory	30		Theory:	70	
• Class	Participation:	5		WrittenExar		70
Semi testet	nar/presentation/assignment/quiz/class	10				
• Mid-						

# PartC-LearningResources

## RecommendedBooks/e-resources/LMS:

- 1. Bomford, C.G. and Robinson, H. 1978. Geography of transport. Macdonald and Evans, London.
- 2. Bhaduri, S. 1992. Transport and Regional development, Concept, New Delhi.
- 3. Chorley R.J. & Hagett P. 1967. Models in Geography Methuen & Co. London.
- 4. Hurst, M.E.(ed.) 1974. Transportation Geography, McGraw-Hill.
- 5. Hagget, F and Chorlley, R.J. 1968. Network Analysis', Edward Arnold, London.
- 6. Hay, A. 1973. Transport Economy, MacMillan, London.
- 7. Hoyle, B.S.(ed). 1973. Transport and Development, MacMillan, London.
- 8. Mukerji, A.B. 1974. 'Road Transportation Network Structure and Levels of Urbanization in Rajasthan, The National Geographical Journals of India, Vol. XX, Part I.
- 9. Oni, A. O. 2007. A Study of Accessibility and Connectivity of Lkeja Arterial Roads. Journal of Land Use and Development Studies, Vol. 3, 1.
- 10. Raza, M. and Agrawal Y.P. 1985. Transport Geography of India, Concept, New Delhi.
- 11. Robison H & Bamford C.G. 1978. Geography of Transport Machdonals& Evans.
- 12. Saxena, H.M. 2005. 'Transport Geography', Rawat Publications, Jaipur.
- 13. Taffe, E.J. & Gauthier (Jr.) H.L. 1973. Geography of Transportation, Prentice-Hall, Englewood Cliffs, N.J.
- 14. Ullman E.L. 1957 American Commodity Flow University of Washington Press.

White H.P. and Senior, M.L. 1983. Transport Geography, Longman, London.

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DSE-2(ii	ii)	9, 1-1-1-1	
Session:	2024-25	A SERVICE	
PartA-I	ntroduction		
NameofProgramme	M.Sc.Geogra	aphy	2 31-2
Semester	III	9	
NameoftheCourse	GEOGRAP	HY OF TOURISM	1
CourseCode	M24-GEO-3		
CourseType	CC		
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	N.A.	Name of Allahouse of	
CourseLearningOutcomes(CLO)	The students		a comprehensive
Aftercompletingthiscourse, the learner will beable to:	understanding planning and	of tourism geo development strateg al influences, and the tourism industry,	graphy, impacts, gies, sustainability as specific context
Aftercompletingthiscourse, the learner wi	understanding planning and	of tourism geo development strateg al influences, and th	graphy, impacts, ties, sustainability the specific context with a focus on
Aftercompletingthiscourse, the learner will be able to:  Credits	understanding planning and practices, glob of the Indian Haryana.	of tourism geo development strateg al influences, and th tourism industry,	graphy, impacts, ties, sustainability te specific context with a focus on
Aftercompletingthiscourse, the learner will beable to:  Credits  Teaching Hoursperweek	understanding planning and practices, glob of the Indian Haryana.	of tourism geo development strateg al influences, and th tourism industry, Practical	graphy, impacts, gies, sustainability the specific context with a focus on  Total  4
Aftercompletingthiscourse, the learner will be able to:  Credits  Teaching Hoursperweek  Internal Assessment Marks	understanding planning and practices, glob of the Indian Haryana.	of tourism geo development strateg al influences, and th tourism industry,  Practical	graphy, impacts, gies, sustainability le specific context with a focus on  Total  4 4
Aftercompletingthiscourse, the learner will beable to:  Credits  Teaching Hoursperweek  Internal Assessment Marks  End-Term Exam Marks	understanding planning and practices, glob of the Indian Haryana.  Theory  4	of tourism geo development strateg al influences, and th tourism industry,  Practical  0 0	graphy, impacts, gies, sustainability ie specific context with a focus on  Total  4  4  30
Aftercompletingthiscourse, the learner will be able to:  Credits  Teaching Hoursperweek  Internal Assessment Marks	understanding planning and practices, glob of the Indian Haryana.  Theory 4 4 30	of tourism geo development strateg al influences, and th tourism industry,  Practical  0  0  0	graphy, impacts, gies, sustainability te specific context with a focus on  Total  4 4

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Definition, nature scope and significance of Geography of Tourism, Types of Tourism, Geographical basis of Tourism: Relation between Geography and Tourism, Factors affecting Tourism, Elements of Tourism, Tourism as an industry.	15
II	Impact of tourism: Physical, economic, social and cultural, Perceptional.  Concept of eco-tourism and Sustainable tourism. New trends in Tourism,  Globalization and Tourism.	15
III	Tourism planning and development: Concept and issues, Strategic tourism planning, Infrastructure and support system, Role of accessibility in the development of Tourism industry, Evaluation of Tourism potential	15

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and Environmental laws.		MATERIAL PROPERTY.	STATE OF THE PARTY
IV Indian Tourism Industry: Regional dir of Tourism, Government policies for p in India with special reference to Harya	olanning a	in India, The orga and promotion of	nization 1 Γourism
TotalContactHo	ours		6
SuggestedEvalua	ationMet	hods	productive,
InternalAssessment:30		EndTermExa	mination:70
> Theory	30	> Theory:	70
• ClassParticipation:	5	WrittenExa	mination:70
• Seminar/presentation/assignment/quiz/class testetc.:	10		
• Mid-TermExam:	15		
PartC-Learning	Docours		

## RecommendedBooks/e-resources/LMS:

- 1. Hall, C. M., & Page, S. J. (2009). The geography of tourism and recreation: Environment, place, and space (4th ed.). Routledge.
- 2. Williams, S. (2012). Tourism geography: Critical understandings of place, space and experience. Routledge.
- Gössling, S., & Hall, C. M. (Eds.). (2013). Tourism and global environmental change: Ecological, social, economic and political interrelationships. Routledge.
- 7. Higham, J., &Lück, M. (Eds.). (2008). Marine wildlife and tourism management: Insights from the natural and social sciences. CABI Publishing.
- 8. Honey, M. (2008). Ecotourism and sustainable development: Who owns paradise? (2nd ed.). Island Press.
- 11. Inskeep, E. (1991). Tourism planning: An integrated and sustainable development approach. Van Nostrand Reinhold.
- 12. Papatheodorou, A. (2006). Tourism and development in the Mediterranean: A sustainable perspective. Routledge.
- 13. Mowforth, M., & Munt, I. (2015). Tourism and sustainability: Development, globalisation and new tourism in the Third World (4th ed.). Routledge.
- 14. Tribe, J. (2011). The economics of recreation, leisure and tourism (4th ed.). Routledge.
- 15. Butler, R. W., & Boyd, S. W. (2012). Tourism and the environment: A geographical perspective. Routledge.
- Bhattacharya, D., & Palmer, R. (2004). India: The emerging giant. Oxford University Press.

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		Session:2024		
27	Pa	rtA-Introdu	ction	
11000	neofProgramme	M.Sc.Geog	raphy	Sulet.
	ester	Ш	man transfer was to the second	
Nam	neoftheCourse	GEOGRA	PHY OF INDIA	caledani. I i i
1000	rseCode	M24-GEO-	311	PLEASE AND ADDRESS OF THE PARTY
	rseType	OEC	Control of the Contro	
Leve	elofthecourse	400-499	ortelia Status (Silver)	
Pre-r	requisiteforthecourse(ifany)	N.A.	and the second second	
After	rseLearningOutcomes(CLO) rcompletingthiscourse,thelearnerwi ble to:	• Analysis	ension of Physiograph of India's Climate and D n of Key Industries: Iron extile nt of Population Distributh in India	rainage System  & Steel and
Cred	its / K	Theory	Practical	Tearl
	Manuary 1 & A. S.	2	1 lactical	Total
Геас	hingHoursperweek	2	10	2
	nalAssessmentMarks	15	0	2
	ermExamMarks CA	50		15
	Marks	50	5/0/	50
Exam	inationTime	3 hours	3 0	50
		Contentsofth	8 / 1/	
onsist uestio	ctions for Paper-Setter: The examit and one compulsory question of 7 parts and cover the entire syllons, which includes selecting one questions will carry equal marks.	<ul> <li>This computation</li> <li>Labus Examination</li> </ul>	alsory question (Question ees are required to atten	on No. 1) wil
		opics		Contact
Unit	To	opics		
		opics		Contact
Unit	Physiographic divisions of Irth Clima	opics ate of India. textile.		Contact Hours
U <b>nit</b> I	Physiographic divisions of Inda Clima Drainage system of India.  Industries: iron & steel and cotton	opics ate of India. textile.		Contact Hours
U <b>nit</b> I	Physiographic divisions of the Climater Drainage system of India.  Industries: iron & steel and cotton Population of India: distribution, described by the Suggestee of the Population of India: distribution, described by the Population of India: distribution of I	opics ate of India. textile.	owth.  TotalContact Hours	Contact Hours
I II	Physiographic divisions of India.  Drainage system of India.  Industries: iron & steel and cotton Population of India: distribution, descriptions of India:	opics ate of India. textile. lensity and gro	owth.  TotalContact Hours	Contact Hours  15  15

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Department of Geography, CRSU, Jind

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ClassParticipation:	4	WrittenExamination:35
• Seminar/presentation/assignment/quiz/class testetc.:	4	devoted
• Mid-TermExam:	7	

#### PartC-LearningResources

#### RecommendedBooks/e-resources/LMS:

- 1. Dubey, R.N., 1974: Economic Geography of India, Kitab Mahal, Allahabad
- 2. HussainMajid.,2015:GeographyofIndia, McGrawHillEducation.
- 3. Joshi, H.L., 1990: Industrial Geography of India, Rawat Publications, Jaipur
- 4. Nag, P. and Sengupta, S., 1992: Geography of India, Concept publications. Co., New De lhi.
- 5. Singh, R.L.: India: A Regional Geography, N.G.S.I., Varanasi, 1971
- Sharma, T.C. and Coutinho, O. 1988: Economic and Commercial Geography of India. Vikas Publishing House Pvt. Ltd., New Delhi.
- 7. Singh, S. and Saroha, J. 2019. Geography of India, McGraw Hill Education.
- 8. Tiwari, R.C.: GeographyofIndia, Prayag Pustak Bhawan, Allahabad.



CC-11			M. C. West vol
Session:20	24-25	The Helph	
PartA-Int	roduction		
NameofProgramme	M.Sc.Geogra	nhy	
Semester	IV	·P···J	
NameoftheCourse	OCEANOG	RAPHV	
CourseCode	M24-GE	NAM III	
et pole	O-401		
CourseType	CC	Angracine Albandala Kr	
Levelofthecourse	400-499	New Company of the Company	August 1
Pre-requisiteforthecourse(ifany)	N.A.	A Commission of the Commission	CONTRACTOR OF THE
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwillbeable to:	Analysis of Circulation     Compreher Hydrologic	of Ocean Temperature  asion of Hydrolo al Cycle t of Groundwater	re, Salinity, and
Credits	Theory	Practical	Total
	4	0	4
TeachingHoursperweek	4.0	0	4
InternalAssessmentMarks	30	3 0	30
End-TermExamMarks	70	\$ / 0/	70
Max.Marks	100	10	100
ExaminationTime	3 hours		
PartB-Cor	tentsoftheCo	urse	PART AND STREET

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
1 32   18	Definition, nature and scope of Oceanography.  Major topographic features of ocean basins, bottom relief of Atlantic, Pacific and Indian oceans.	15
II	The heat budget of ocean-Distribution of temperature and salinity. coral reefs-origin and distribution Theories of the origin of coral reefs (Subsidence and standstill.	10
Ш	Ocean water: circulation, factors affecting ocean currents, currents in Atlantic, Pacific & Indian Ocean.Man & Oceans: Oceans as a store house of Minerals &	15

	Food resources.			The state of the same	70.5	Markey Co.
IV	Wegner's drift hypothesis, and so	ea floo	r s	preading and	Plate	20
	Tectonics.sea-level changes; evidences, laws	mechar	nism	and impact; n	naritime	
TotalC	ContactHours					60
	SuggestedEvalua	tionMet	hods	3		
	InternalAssessment:30			EndTermExa	mination	1:70
	heory	30		Theory:	70	
• Clas	ssParticipation:	5	e di	WrittenExar	nination:	70
	ninar/presentation/assignment/quiz/class etc.:	10				
• Mid	I-TermExam:	15				

# PartC-LearningResources RecommendedBooks/e-resources/LMS:

- 1. Chorley R.J. (1967): Introduction to geographical Hydrology, Methuen, London.
- Dakshinamarthy C. etal (1973): Water resource of India & their utilization in Agriculture, Indian Agricultural Res. Inst. New Dehli.
- Eskstein O. (1965): Water Resource Development, harvard University Press, Cambridge, Mass.
- 4. Facon R. (1963): The Problem of Water- A world survey, Faber & Faber.
- 5. International Water Resource Association & Central Board of Irrigation & Power. (1975).
- 6. Water for Human needs wol. II, III, IV & V, proceedings of the second world congress on waters resource 1-b-Dec. New Dehli.
- 7. Sing R.A. & Singh S.R. (1979): Water management, Principles & Practices, Tara Publication, Varanki.
- 8. Todd D.K. (1959) :Ground Water Hydrology, John Wiley, New York.
- 9. Negi, S.S. (1994): Geographical Science & Water Resource Management, Printwell Jaipur (India)
- 10. Joseph W & Howard P: Introductory oceanography, McGraw Hill, Lognkusha, Ltd. New Delhi. (International Student Education)
- 11. Peter K. W. (1970): Oceanography: An Introduction to the marine Environment, John Wiley & Sons Inc. New York.
- 12. Sharma R.C. (1970): Oceanography for Geographers, Chaitanya Publishing House, Allahabad.
- 13. Negi B.S. (1994-95): Climatology & Oceanography, KedarnathRamanathMeerat, New Delhi.

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CC-12			
Session	:2024-25		
PartA-	Introduction		
NameofProgramme	M.Sc.Geography		
Semester	IV		
NameoftheCourse	SOCIAL & CULTURAL GEOGRAPHY		
CourseCode	M24-GEO-402		
CourseType	CC		
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerw llbeable to:	<ul> <li>Understanding Concepts and Scope of Social Geography</li> <li>Analysis of Social Identities and Issues in India</li> </ul>		
SET FREE FEE	Comprehension of Cultural Geography and Its     Evolution     Assessment of Cultural Dynamics and		
Credits	Comprehension of Cultural Geography and Its Evolution     Assessment of Cultural Dynamics and Landscape Evolution     Theory Practical Total		
Credits	Comprehension of Cultural Geography and Its Evolution     Assessment of Cultural Dynamics and Landscape Evolution     Theory Practical Total		
	Comprehension of Cultural Geography and Its Evolution     Assessment of Cultural Dynamics and Landscape Evolution     Theory Practical Total     4 0 4		
Credits TeachingHoursperweek InternalAssessmentMarks	Comprehension of Cultural Geography and Its Evolution     Assessment of Cultural Dynamics and Landscape Evolution     Theory Practical Total     4 0 4     30 0 30		
Credits TeachingHoursperweek	Comprehension of Cultural Geography and Its Evolution     Assessment of Cultural Dynamics and Landscape Evolution     Theory Practical Total     4 0 4		

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
ı	Concepts, Nature and Scope; Development of Social Geography, Concepts of Social Space; Relevance of Social Geography. Social Identities in India: Ethnicity, Tribes, Caste and Religion; Mother Tongues and Language Shifts in India; Social Issues in India.	15
II	Definition, Evolution and Development of Cultural. Geography; Place of Cultural Geography within. Geography; Cultural Area.	15
III	Cultural Region; CulturalHearth; Cultural Realm and Regions of the World; Landscape and Environment, Planning and Policies for Multi-Culturalism, The contribution of Otto Schluter and Carl Sauer.	15
IV	Landscape Evolution; Cultural Diffusion; Adaptation. Acculturation;	15

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Assimilation; and Resistance/ Cultural Resilience. A general account of the cultural geography of Haryana. Humankind is a geomorphic and biotic agent.

TotalContactHours

60

 SuggestedEvaluationMethods

 InternalAssessment:30
 EndTermExamination:70

 ➤ Theory
 30
 ➤ Theory: 70

 • ClassParticipation:
 5
 WrittenExamination:70

 • Seminar/presentation/assignment/quiz/class testetc.:
 10

 • Mid-TermExam:
 15

#### PartC-LearningResources

#### RecommendedBooks/e-resources/LMS:

- Agnew, J. A. (1998). Geography as social science: A critical introduction. University of Chicago Press.
- 2. Blunt, A., & Dowling, R. (2006). Social geography: A critical introduction. SAGE Publications.
- 3. Gupta, A. (2000). Cultural geography in India: An overview. GeoJournal, 50(1), 1-9. https://doi.org/10.1023/A:1004171105597
- 4. Harris, C. D., & Nelson, H. J. (1991). Urban analysis: A global perspective. University of Chicago Press.
- 5. Massey, D. (2005). For space. SAGE Publications.
- Sauer, C. O. (1963). The Morphology of Landscape. In J. Leighly (Ed.), Landscapes in the American West (pp. 315-350). University of California Press.
- 7. Schluter, O. (1918). Die Kulturellen Lebensräume. Geographische Zeitschrift, 24(1), 1-12.
- 8. Singh, R. B. (2010). Cultural geography of India: A regional perspective. Indian Geographical Journal, 85(1), 15-26.
- 9. Tuan, Y. F. (1977). Space and place: The perspective of experience. University of Minnesota Press.
- 10. Williams, R. (1973). The country and the city. Oxford University Press.

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	PC-7				
	Session:20	24-25			
	PartA-Int				
	eofProgramme	M.Sc.Geography			
Seme	ester	IV			
Nam	eoftheCourse	GEOGRAPHICAL INFORMATI	ON CYCTER		
Cour	seCode	M24-GEO-403	ION SYSTEM		
	seType	PC PC			
Leve	Levelofthecourse 500-599				
Pre-re	Pre-requisiteforthecourse(ifany) N.A.				
Aftero Ilbeah	- Fig.	<ul> <li>understand the basics of Information System.</li> <li>enrich skills about functioning</li> <li>understand the tools used in G</li> <li>acquire knowledge about appli</li> <li>Theory Practical</li> </ul>	IS. ication of GIS.		
	18 /A		Total		
Teach	ningHoursperweek		4		
Intern	alAssessmentMarks	THE SUBSTITUTE OF SEA SET VICTORIAN	4		
	TermExamMarks TermExamMarks	0 30	30		
Max.N		0 70	70		
	inationTime	0 100	100		
		3 hours ntentsoftheCourse			
he exs			Market Control		
Exercis	aminer shall set four questions. All q  Distribution o	f Marks for Evaluation	-voce = 10		
ercis	Distribution of $\mathbf{se} = 10\mathbf{x} 4 = 40$	f Marks for Evaluation  Record = 20 Viva	-voce = 10 ContactH		
	Distribution o  See = 10x4 = 40  File I	tuestions are compulsory.  f Marks for Evaluation  Record = 20 Viva  Top ics	and the second second		
Exercis	Distribution of SAGA and QGIS:  Projection and re-projection in QC	ruestions are compulsory.  If Marks for Evaluation  Record = 20  Top  ics  software.  GIS.	ContactH		
Exercis Init	Introduction to SAGA and QGIS: Projection and re-projection in QC Geo-referencing of toposheet in S. Image to image registration in SAGA	ruestions are compulsory.  If Marks for Evaluation  Record = 20  Top  ics  software.  GIS.  AGA and QGIS.  GA and QGIS.	ContactH ours		
Exercis Init	Introduction to SAGA and QGIS: Projection and re-projection in QC Geo-referencing of toposheet in S. Image to image registration in SAG Generation of Geo-database/shape Vectorization of data (point, line non-spatial data. Symbolization: Cproportional	ruestions are compulsory.  If Marks for Evaluation Record = 20  Top ics Software.  GIS.  AGA and QGIS. GA and QGIS. If files.  and polygon). Joining of spatial and Chorochromatic, choropleth and point	ContactH ours 30		
xercis Init	Introduction to SAGA and QGIS: Projection and re-projection in QC Geo-referencing of toposheet in S. Image to image registration in SAC Generation of Geo-database/shape Vectorization of data (point, line non-spatial data. Symbolization: Cproportional Queries in QGIS: Spatial and Non-Hands on training of GPS and DG	ruestions are compulsory.  If Marks for Evaluation  Record = 20  Top ics  Software.  GIS.  AGA and QGIS.  GA and QGIS.  files.  and polygon). Joining of spatial and Chorochromatic, choropleth and point  -spatial data based.	ContactH ours 30		
xercis Init	Introduction to SAGA and QGIS: Projection and re-projection in QC Geo-referencing of toposheet in S. Image to image registration in SAG Generation of Geo-database/shape Vectorization of data (point, line non-spatial data. Symbolization: Cproportional	ruestions are compulsory.  If Marks for Evaluation  Record = 20  Top ics  Software.  GIS.  AGA and QGIS.  GA and QGIS.  files.  and polygon). Joining of spatial and Chorochromatic, choropleth and point  -spatial data based.	30 30 30 30		
xercis (nit	Introduction to SAGA and QGIS: Projection and re-projection in QC Geo-referencing of toposheet in S. Image to image registration in SAG Generation of Geo-database/shape Vectorization of data (point, line non-spatial data. Symbolization: Coproportional Queries in QGIS: Spatial and Non-Hands on training of GPS and DG OntactHours	ruestions are compulsory.  If Marks for Evaluation  Record = 20  Top ics  Software.  GIS.  AGA and QGIS.  GA and QGIS.  files.  and polygon). Joining of spatial and Chorochromatic, choropleth and point  -spatial data based.	ContactH ours 30 30		

Department of Geography, CRSU, Jind

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Page **55** of **74** 

> Practicum :	30	> Theory:	70
ClassParticipation:	10	Practicum	7.5
<ul> <li>Seminar/presentation/assignment/quiz/class</li> </ul>	20	Exercise:40	
testetc.:		Viva-voce:10	
		File record:20	
PartC-LearningF	Resour	ces	The state of the s
RecommendedBooks/e-resources/LMS:		Madilla Francisco	Printell Labor
1. https://dst-iget.in/understanding-gis/			



	PC-8		CANAL SELECTION		
S	ession:2024-2	25			
Part	t A-Introduc	ction			
NameoftheProgramme	M.Sc. Geo	graphy			
Semester	IV				
Name of the course	PRACTIC	CAL IN TOURISM	I MANAGEMEN		
CourseCode	M24-GEO		- III II III GENTEN		
CourseType	PC				
Levelofthecourse	500-599				
Pre-requisiteforthecourse(ifany)	N.A.		COMMENCE FOR SERVICE		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, the learner will be able to:  Credits	poter naturattrib Deve imple camp Utilizing inclusions booki	al, cultural, a	to design and nsive marketing booking systems, vations, managing		
Credits	Theory	Practical	Total		
Tanki II	0	4	4		
TeachingHoursperweek C	1 50	8	8		
Internal Assessment Marks	0	30	30		
EndTermExamMarks	2010	8 / 70 /	70		
Max.Marks	0	100	100		
ExaminationTime	STATE OF THE PERSON NAMED IN COLUMN 1	3 Hours	mort family to		
Instruction lote for Paper Setters: The examiner shall istribution of Marks for Evaluation exercise=10x4=40  File	e Record = 2	Setter stions. All questions	s are compulsory.  Viva-voce= 10		
Practical's	S		Contact Hours =120		
Unit-I Assess a potential tourism site			30		
Unit-II Data analysis of Tourist arrive tourism expenditure. Generate re analysis.	ports, create	visualizations, data	30		
Jnit-III Develop promotional materials s social media content. Design a to	ur package fo	or market.	30		
Unit-IV Organize a field trip to a tourist hotel, travel agency, or tourist	sm-related by	usiness such as a Prepare a report	30		

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	No. of	Y ZERIESIEN	SE PRIESE MILE
ur			
ion	Metho	ds	
	E	ndTerm Exa	mination:70
30			70
10			Contract of the
	Annual Section		
	<b>30</b>	ion Metho E 30 >	ion Methods  EndTerm Exam  30 > Practicum  10 Viva-Vcce-50

#### PartC-Learning Resources

### Recommended Books/e-resources/LMS:

- 1. Anil Kumar (2012) "Hospitality and Tourism Management" (Excel Books)
- 2. Arch G. Woodside (2008) "Tourism Management: Analysis, Behaviour and Strategy" (Publisher: CABI)
- 3. C. R. Goeldner (2007) "Tourism: Principles, Practices, Philosophies" (Wiley)
- 4. Chris Cooper (2017) "Tourism Principles and Practice" (Pearson Education)
- 5. David Airey and John Tribe (2006) "Tourism and Destination Management" (Sage)
- 6. Devesh Nigam (2008) "Tourism Planning and Tour Operation" (Shree Publishers)
- 7. DimitriosBuhalis (2022) 'Encyclopedia of Tourism Management and Marketing" (Edward Elgar Publishing)
- 8. Jennifer Raga (2017) "Hospitality and Tourism Management Trends, Challenges and Innovations" (Society Publishing)
- 9. John Beech and Simon Chadwick (2006) "The Business of Tourism Management" (Pearson Education)
- 10. K.V. Rao (2014) "Tourism Planning and Development" (Sterling Publishers Pvt. Ltd.)
- 11. Manoj Dixit (2020) "Tourism Management" (Oxford University Press India)
- 12. Meenakshi Gupta (2019) "Tourism: Principles and Practices" (VK Global Publications Pvt. Ltd.)

DSI	E-3(i)		
Sess	sion:2024-25	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
Par	tA-Introduction		
NameofProgramme	M.Sc.Geo	graphy	
Semester	IV	5 1-5	
NameoftheCourse	DISATER	RMANAGEMENT	
CourseCode	M24-GEO		MARKET YES
CourseType	CC		
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	) N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearn llbeable to:  Credits	erwi appro acquiconcinter deve of co and a deve conse frequi	ently occurring man-n	ion.  various fundamental uding technological  arding management nazards occurring in  ding about the
100	Theory	Practical	Total
Teaching Hoursperweek 5	4	0	4
Internal Assessment Marks	CR Y SU	0	4
	30	0	30
End-TermExamMarks	20170	8/0/	70
Max.Marks	100	0	100
ExaminationTime	3 hours	Manager Manager	
Part	B-Contentsofthe(	Course	Salava and Salava

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
1	Risk, Hazard and disasters: definition and distinction. Hazards: classification and dimensions. Disaster effects and impacts (physical and social).	15
II	Disaster vulnerability: definition, types, measures and affecting factors.  Disaster risk assessment and management. Disaster cycles: mitigation measures and preparedness	15
III	Desertification: causes, assessment, effects and control measures. Sea level change: cause, consequence, projections and control measures.	15

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	Technological hazards: nature, theories and practice, perception, mitigation, protection and adaptation.	
IV	Disaster risk reduction framework: Sandai. Disaster management in India: strategies, policies and organization structure setup. Geospatial technology applications in disaster prevention and monitoring,	15
Total	ContactHours	60

SuggestedEvalua	tionMet	thods	A balasa no
InternalAssessment:30		EndTermExa	mination:70
> Theory	30	> Theory:	70
ClassParticipation:	5	WrittenExamination:70	
• Seminar/presentation/assignment/quiz/class testetc.:	10		imation: 70
• Mid-TermExam:	15		

#### PartC-LearningResources

# RecommendedBooks/e-resources/LMS:

- 2. Alexander, D. (1993); Natural Disasters, Springer, Berlin.
- Carter, N.W. (1991): Disaster Management: A Disaster Manager's Handbook, ADB, Manila.
- 4. Coch, N.K. (1994): Geohazards: Natural and Human, Pearson, New Delhi.
- Cooke, R.U.andDoornKamp, J.C. (1974) Geomorphology in Environmental Management: An Introduction, Clarendon Press, Oxford.
- 6. Cuny, F.C. (1983): Disasters and Development, Oxford University Press.
- Cutter, S.L. (2006): Hazards Vulnerability and Environmental Justice, Routledge, London.
- 8. Gupta, H.K. (2013): Disaster Management, University Press, New Delhi.
- Hewitt, K. (1977): Regions of Risk: A Geographical Introduction to Disasters, Longman, Harlow.
- 10. Husky, T. (2012): Encyclopedia of the Hazardous Earth, Viva Books, New Delhi.
- 11. Kapur, A. (2010): Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
- 12. Modh, S. (2010): Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, New Delhi.
- 13. National Policy on Disaster Management, (2009): Ministry of Home Affairs, Govt. of India, New Delhi.
- Nlaikie, P. (1994): At Risk: Natural Hazards, People's Vulnerability and Disasters, Routledge, London.
- Paul, B.K. (2011): Environmental Hazards and Disasters-Context, Perspectives and Management, Wiley-Blackwell, Chichester, West Sussex, UK.

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DSF	E-3(ii)		
Sess	ion:2024-25		
	A-Introduction		
NameofProgramme	M.Sc.Geogra	aphy	
Semester	IV	7	
NameoftheCourse	HYDROLO MANAGEM	The second secon	ER RESOURCE
CourseCode	M24-GEO-4		
CourseType	CC		
Levelofthecourse	400-499	TARRES AND LINE	
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearn llbeable to:	erwi geogra	and the uses of and the computation awareness al	water in different
18/3	manage		
Credits	Theory Theory	Practical	Total
Credits	Theory 4	The state of the s	Total 4
TeachingHoursperweek	Theory	Practical	4
TeachingHoursperweek InternalAssessmentMarks	Theory 4	Practical 0	4 4
Credits	Theory 4	Practical 0	4 4 30
TeachingHoursperweek InternalAssessmentMarks	Theory 4 4 30	Practical 0 0 0	4 4

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
I	Definition, nature, scope and historical development of hydrology. Relationship of hydrology with other physical sciences. Hydrological cycle, estimation of global water budget, human impact on hydrological cycle.	15
II	Surface Water Hydrology: River Basin and problems of regional hydrology. Streams flow hydrograph, streamflow measurement, rainfall-runoff relationship. Surface water resources of India.	15
Ш	Groundwater Hydrology: Type of aquifer and aquifer properties. Darcy's law and elementary groundwater flow equation. Geological formation of aquifers and estimation of groundwater resource of India.	15

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Contemporary Issues and Challer Water resource planning, man management (demand and supp harvesting and National Water Po	ly side), water	Poli	cv: Water r	esource	15
TotalContactHours					60
SuggestedI	EvaluationMe	thods			
InternalAssessment:30	User Jacob	_	EndTermExa	mination	:70
> Theory	30	17237	Theory:	70	.,0
ClassParticipation:	5	H) E	WrittenExa	mination:7	70
<ul> <li>Seminar/presentation/assignment/quiz/o testetc.:</li> </ul>	class 10				
Mid-TermExam:	15				

# PartC-LearningResources RecommendedBooks/e-resources/LMS:

- Andrew, D. W. and Trimble, S. 2004. Environmental Hydrology, 2nd Edition, Lewis Publishers, CRC Press.
- 2. Beek, E., Loucks, P.D. 2005. Water Resource Systems Planning and Management: An
- 3. Introduction to Methods, Models and Applications, UNESCO, Paris.
- 4. Bhattacharya, S.K. 1988. Urban Domestic Water Supply in Developing Countries, CBS
- 5. Publishers, CR Distributors, Delhi.
- 6. Chow, V.T., Maidment, D.R. and Mays, W.L. 1988. Applied Hydrology, McGraw-Hill
- 7. International Editions, McGraw-Hill Book Company, New York.
- 8. Beach, Tim and Jonathan, M.F. 2017. Wetland Hydrology: The International Encyclopaedia of Geography, Wiley Online Library.
- Jain, S.K., Aggarwal, P.K. and Singh, V.P. 2007. Hydrology and Water Resources of India Springer, The Netherlands. Karanth, K.R. 1988. Groundwater: Exploration, Assessment and Development, Tata-McGraw Hill, New Delhi.
- Mahajan G. 1989. Evaluation and Development of Groundwater, Ashish Publishing House, New Delhi.
- 11. Micklin, Philip, P. 1996. Man and the water cycle: challenges for the 21st century, Geojournal, 39 (3): 285-298.
- Rai, S.C. 2017. Hydrology and Water Resources: A Geographical Perspective, Ane Book Pvt. Ltd., New Delhi.
- Singh, V.P. 1995. Environmental Hydrology, Kluwar Academic Publications, The Netherlands.
- Subramanya, K. 2010. Engineering Hydrology, Tata McGraw Hill Education Pvt. Ltd. New Delhi.

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	DSE-3(iii)			
	Session: 2024-25			
I	Part A - Introduction	0		
NameofProgramme	M.Sc.Geography			
Semester	IV			
NameoftheCourse	TROPICAL CLIMAT	COLOGY		
CourseCode	M24-GEO-407	OLOGI		
CourseType	CC			
Levelofthecourse	400-499			
Pre-requisiteforthecourse(ifany)	N.A.			
Aftercompletingthiscourse, the learnerw libeable to:	Develop scient			
autro (%)	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr	and their characteristics in		
Credits	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl	and their characteristics in derstanding about weather areas. nowledge about climatic imate change and global		
1/3	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl warming. Theory Prac	and their characteristics in derstanding about weather areas, nowledge about climatic imate change and global		
TeachingHoursperweek	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl warming.  Theory Prac	derstanding about weather areas.  nowledge about climatic imate change and global tical Total		
TeachingHoursperweek InternalAssessmentMarks	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl warming. Theory Prac	derstanding about weather areas, nowledge about climatic imate change and global tical Total		
TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl warming.  Theory Prace	derstanding about weather areas.  nowledge about climatic imate change and global tical Total  0 4 0 4		
TeachingHoursperweek InternalAssessmentMarks	climatic elements tropical areas.  Sharpen the un system in tropical Enrich the kr classification, cl warming.  Theory Prace  4  30  70	derstanding about weather areas.  nowledge about climatic imate change and global tical Total  0 4  0 4  0 30		

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
	Nature, scope and significance of Tropical Climatology. Energy balance in tropical areas. Temperature distribution in tropical areas.	15
II	Atmospheric pressure and circulation in tropical area-Hadley Cell. Walker circulation and ENSO. Monsoon-theories of origin and	15

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characteristics and areas of influence.	SESSION OF				
III Tropical cyclones-origin and character and distribution. Heavy precipitation even	istics.	ropic ropic	cal rainfall-dy al areas.	namics	15
Tropical climates: classification and cha agriculture: human adaptation to trop warming on tropical climates and bioma	racteris	tics.	Tropical clima	tes and global	15
TotalContactHours					60
SuggestedEvaluat	ionMe	thods			
InternalAssessment:30			EndTermExa	mination	:70
> Theory	30		Theory:	70	
• ClassParticipation:	5	HE W	WrittenExan	nination:7	0
<ul> <li>Seminar/presentation/assignment/quiz/class testetc.:</li> </ul>	10				deser-
• Mid-TermExam:	15				
PartC-LearningR	esour	ces	V		

## RecommendedBooks/e-resources/LMS:

- Barry, RF and RJ Chorley (1998) Atmosphere, Weather and Climate, Routledge, London.
- 2. Chritchfield, HJ, General Climatology.
- 3. Das PK (1987) The Monsoons, NBT Publications, New Delhi.
- 4. Fein JS and PM Stephens (1987) Monsoons, Wiley Intersciences.
- Koenigsberger O H and others, Manual of Tropical Housing and Buildings, Universities Press
- McGregor, GR and Simon Nierswold (1998) Tropical Climatology: An introduction to the Climates of the Low Latitudes, Wiley Interscience.
- Parenti, C (2011) Tropic of Chaos: Climate Change and New Geography of Violence, Nation Books, New York
- 8. Robinson PJ and S Henderson (1999) Contemporary Climatology, Henow.
- Thompson, RD and A Perry (Ed.) (1997): Applied Climatology, Principles and Practices, Routledge, London.
- 10. Trewartha, GT. An Introduction to Climate. McGraw Hill Company, New York, 1980.

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	S	ession:2024-	25	A STATE OF THE STA
	Par	t A-Introduc	ction	
Name	of Programme	M.Sc. Geo	graphy	
Seme	ster	IV		
Name	of the Course	ENVIRO	NMENTAL GEOGR	APHV
Cours	se Code	M24-GEO		ALL III
	е Туре	CC	Mark and State of Sta	
Level	of the course	400-499		
Pre-re	equisite for the course (if any)	N.A.		
After	e Learning Outcomes (CLO) completing this course, the learner e able to:	onservi balance.  Understa  pollutior degradat Status o	and causes o	of environment f environment vation in genera
	Hamman / E / E SSSS	4	Practical 0	Total
Teach	ing Hours per week	4		4
	al Assessment Marks	30	0	4
	erm Exam Marks	70	0	30
Max. N		100	0	70
Exami	nation Time	3hours	8/11	100
		ontents of th	6	1662
onsist on uestion	tions for Paper-Setter: The examit and one compulsory question. of 7 parts and cover the entire syllars, which includes selecting one questions will carry equal marks.	This computed bus. Examin	lsory question (Ques	tion No. 1) will empt a total of 5 pulsory question.
I	Relationship with other branches o	s of environm f knowledge,	nmental geography; nental Geography;	Hours 15
II	Mountain Ecosystems: Mountain e highland-lowland interactive syster	ecology, risks ns.	and vulnerabilities,	15
III	Environmental pollution- meanin impacts; Air, Water and Lar Degradation – Nature, process, typ	nd pollution	s: Environmental	15

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degradation; Green house effect, Global wand Desertification	armin	g, Oz	one depletion	
IV Concepts, Types and Distribution Biogeographically Classification of India, Animal Conflicts in India, Major Envi Programme in India	Defore	estati	on and Man -	
Suggested Evaluat	To ion M	tal C	ontact Hour	60
Internal Assessment: 30	IOH IVI		IndTermExa	mination:70
> Theory	30		Theory:	70
Class Participation:	05	ESTA	WrittenExan	The state of the s
<ul> <li>Seminar/presentation/assignment/quiz/ class test etc.:</li> </ul>	10		······································	imation.70
Mid-Term Exam:	15			
Part C- Learning		urce	•	

### Recommended Books/e-resources/LMS:

- Anderson J.M. (1981): Ecology for Environmental Science: Biosphere, Ecosystems and Man, Arnold, London.
- Awasthi, N.M. and Tiwari, R.P.L. (1995): Paryavaran Bhugool (Environmental Geography), Madhya Pradesh Hindi Granth Academy, Bhopal.
- 3. Goudie, Andrew (1984): The Nature of the Environment, Oxford Katerpring Co. Ltd.
- 4. Nobel and Wright (1996): Environmental Science, Prentice Hall, New York.
- 5. Odum, E.P. (1971): Fundamental of Ecology, W.B. Sanders, Philadelphia.
- 6. Saxena, H.M. (1994): PrayavaranevnParisthitikiBhugool (Geography of Environment and Ecology) Rajasthan Hindi Granth Academy, Jaipur.
- 7. Singh, Savinder (1991): Environmental Geography, PrayagPustakBhawan, Allahabad.
- 8. Singh, R.B. (ed.) (1989): Environmental Geography, Heritage, New Delhi.
- 9. Strahler, A.N. and Strahler, A.H. (1973): Environmental Geosciences: Interaction between natural systems and Man, John Wiley and Sons, New York.
- 10. Strahler, A.H. and Strahler A.N. (1977): Geography and Mans Environment, John Wiley, New York.
- 11. William, M.M. and John, G. (1996): Environmental Geography Science, Landuse and Earth System, John Wiley and Sons, New York

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DSE-4(ii)			
Session:2	024-25		A CONTRACTOR OF THE
PartA-In	troduction		
NameofProgramme	M.Sc.Geogra	aphy	
Semester	IV	Proj	
NameoftheCourse	FUNDAME	NTALS OF SOIL O	PEOCDADIIV
CourseCode	M24-GEO-4	09	DEUGKAPHY
CourseType	CC	Care Laboratory and	
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	N.A.	200 Basic mediadan	
CourseLearningOutcomes(CLO) Aftercompletingthiscourse,thelearnerwi llbeable to:	• Study growth • Determ propert • Enable environ • Know	the role of essential and development.	nutrient for plan and chemica
Credits	Theory	Practical	Total
T1: II	4	0	4
TeachingHoursperweek	4	0	4
InternalAssessmentMarks	30	0	30
End-TermExamMarks	70	0/	70
Max.Marks	100	P / 0	100
ExaminationTime	3 hours		100
PartB-Co	ntentsoftheCo	Hrse	

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
1	Introduction to soil geography: Concepts and definitions, Process of origin of soil, pedogenesis, soil profile and categories of soil taxonomymajor groups. Soil forming processes and factors, Weathering and soils, Soil as a medium for plant growth, Essential nutrient elements, Plant roots and soil relations. Soil fertility and soil productivity.	15
II	Physical properties of soil: Soil morphology, Soil texture, Soil Structure; Genesis and Types of structure, Soil consistence, Soil:- moisture, colour, porosity and permeability; Effects of tillage on structure and porosity.	15
III	Chemical properties of soil: chemical composition of soils, Ion exchange,	15

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Cation exchange, Determination of soil pH, N clays, humus, organic matter, and NPK.	Management of soil pH, Soil
Soil and environmental problems: Classification erosion, Universal soil loss equation (USLE), it saline and sodic soils. Soil Contamination, Mic Elements in soils: Iron, manganese, Copper and soil, Methods of Soil reclamation.	Nature and management of
ContactHours	60
Suggested Evaluation Me	
	clays, humus, organic matter, and NPK.  Soil and environmental problems: Classification erosion, Universal soil loss equation (USLE), it saline and sodic soils. Soil Contamination, Mic Elements in soils: Iron, manganese, Copper and soil, Methods of Soil reclamation.  ContactHours

InternalAssessment:30		EndTermExamination:	
> Theory	30	> Theory:	70
ClassParticipation:	5	WrittenExamination:70	
• Seminar/presentation/assignment/quiz/class testetc.:	10		
• Mid-TermExam:	15		

#### PartC-LearningResources

### RecommendedBooks/e-resources/LMS:

Miller, R. W. and Donahue, R. L. (1992): Soils: An Introduction to Soils and Plant Growth, Prentice-Hall

of India, New Delhi

- 2. Brady, N. C., and Weil, R. R. (2008): The Nature and Properties of Soils, Prentice Hall, New Jersey
- 3. Pitty, A. F. (1978): Geography and Soil Properties, Methuen and Co., London
- 4. Bridges, E. M. and Davidson, D. A. (1982): Principles and Applications of Soil Geography, Longman

  Group, London
- 5. Daji, J. A. (1970): A Textbook of Soil Science, Asia Publication House, New York
- 6. Birkeland, P. W (1999): Soils and Geomorphology, Oxford University Press, New York
- 7. Backman, H.O and Brady, N.C. (1960), The Nature and Properties of Soils, McMillan, New York.
- 8. Bennet, Hugh H., Soil Conservation, McGraw Hill, New York.
- 9. De, N.K. and Ghos, P. (1993): India: A Study in Soil Geography, Sribhumi Publishing Co., Calcutta.

10. Russell, Sir Edward J. (1961), Soil Conditions and Plant Growth, Wiley, New York

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DSF	E-4(iii)				
Sess	sion:2024-25				
Part	tA-Introduction				
NameofProgramme	M.Sc.Geogra	phy			
Semester	IV				
NameoftheCourse	GEOGRAPI	GEOGRAPHY OF HARYANA			
CourseCode		M24-GEO-410			
CourseType	CC				
Levelofthecourse	400-499		10.00		
Pre-requisiteforthecourse(ifany)	) N.A.	72 6 6 6 6 6 6 6 6			
Aftercompletingthiscourse, the learn libeable to:	nerwi Physica	chensive Understand Geography.	and of Haryana's		
The state of the s	<ul> <li>Insight</li> <li>Manage</li> <li>Compresent</li> <li>and Der</li> <li>Awaren</li> </ul>	into Natural Res	Human Resources		
	<ul> <li>Insight</li> <li>Manage</li> <li>Compresent</li> <li>and Der</li> <li>Awaren</li> </ul>	into Natural Resement.  hensive View of Inographic Trends.  ess of the state	Human Resources		
Credits	<ul> <li>Insight</li> <li>Manage</li> <li>Compression</li> <li>Awaren</li> <li>heritage</li> </ul>	into Natural Resement.  Thensive View of Inographic Trends.  The state including festivals	Human Resources e's rich cultural		
Credits TeachingHoursperweek	<ul> <li>Insight</li> <li>Manage</li> <li>Compression</li> <li>Awaren</li> <li>heritage</li> <li>Theory</li> </ul>	into Natural Resement.  chensive View of Imagraphic Trends.  ess of the state, including festivals  Practical	Human Resources e's rich cultural i. Total		
Credits TeachingHoursperweek InternalAssessmentMarks	Insight     Manage     Compress     and Der     Awaren     heritage     Theory     4	into Natural Resement.  Thensive View of Inographic Trends.  The state including festivals  Practical	Human Resources e's rich cultural total 4		
Credits TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks	• Insight Manage • Compression of the Compression o	into Natural Resement.  Thensive View of Imagraphic Trends.  The state including festivals including festivals are to the state of the	Human Resources e's rich cultural s.  Total 4 4		
Credits TeachingHoursperweek InternalAssessmentMarks	• Insight Manage • Compression of the compression o	into Natural Resement.  Thensive View of Inographic Trends.  The state of the state	Human Resources e's rich cultural s.  Total 4 4 30		

PartB-ContentsoftheCourse

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact
	Haryana – An introduction; Physical setting – Location, size and extent; Geological history; Origin; Relief features, climate, soils, drainage and natural vegetation, Natural Resources	15
П	Agriculture: Major Crops and Cropping Pattern. Problems and Prospects, Influencing Factors, Irrigation, Regional Disparities.agriculture marketing, problems of agriculture-groundwater depletion, and lack of agro-biodiversity.	15
Ш	Industries: Major Industrial Belts / Pockets and Distribution Problems and Prospects of Industrialization.	15

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	Trade and Transportation: Agro-based Produces & Their Trading Transport Ne	Goods &	& The	eir Trading I	ndustrial	
IV	Human Resources- distribution of Pop female ratio, workforce, dependency Proportion Trend of Urbanization, Cu Distribution.	ratio,C	Growt	h & Com	parative	15
Total	ContactHours			-		60
	SuggestedEvalua	tionMet	hods			
	InternalAssessment:30			EndTermExa	mination	:70
> 1	Theory	30		Theory:	70	
• Cla	assParticipation:	5		WrittenExa	mination:7	70
	minar/presentation/assignment/quiz/class tetc.:	10				
• Mic	d-TermExam:	15				

# PartC-LearningResources RecommendedBooks/e-resources/LMS:

- 1. Census of India. (2011). Provisional Population Totals. Office of the Registrar General & Census Commissioner, India.
- Datta, A. (2006). Globalization and Economic Transformation in India. Concept Publishing Company.
- 3. Haryana Economic Survey. Government of Haryana. (Available at Haryana Government Economic Surveys)
- 4. Haryana State Industrial and Infrastructure Development Corporation. Annual Report. Government of Haryana, (Available at HSIIDC Annual Reports).
- 5. Hooda, S. (2015). Haryana: Cultural Traditions and Contemporary Perspectives. Blue Rose Publishers.
- 6. Khullar, D. R. (2012). India: A Comprehensive Geography. Kalyani Publishers.
- 7. Malik, S. C. (1994). Folklore of Haryana. National Book Trust, India.
- 8. Sihag, R. C. (2002). Traditions and Customs of Haryana. Shubhi Publications.
- 9. Singh, J. (1976). Agricultural Geography of Haryana. Vishal Publications.
- 10. Singh, J. (2010). India's Urbanization, 1901-2001. Concepts Publishing Company.
- 11. Singh, Jasbir. (1976). Agricultural Geography of Haryana. Vishal Publications.
- 12. Singh, R. (2007). Haryana: Cultural and Ethnic Diversity. Rawat Publications.
- 13. Singh, R. L., & Singh, R. P. B. (1978). Geography of India. National Geographical Society of India.

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EEC			
Session:2	024-25		
PartA-In	troduction		
NameofProgramme	M.Sc.Geogra	phy	
Semester	IV		
NameoftheCourse	INDIGENO RESOURCE	US KNOWLEDG MANAGEMENT	E SYSTEM I
CourseCode	M24-GEO-4		
CourseType	EEC		Chorles S. I.
Levelofthecourse	400-499		
Pre-requisiteforthecourse(ifany)	N.A.		
CourseLearningOutcomes(CLO)	Explain tradition	onal knowledge.	
Aftercompletingthiscourse, the learner will beable to:	help in improvement help conservation Resources.	ing decision-makers. ation and manager linkage between	ment of natural
llbeable to:	help in improvements help conservations.  Resources.	ing decision-makers. ation and manager linkage between	ment of natural
Credits	help in improve help conservate Resources, understand the Natural Resour	ing decision-makers. ation and manager linkage between ces.	ment of natural local people and
Credits TeachingHoursperweek	help in improvements help conservation Resources, understand the Natural Resources.  Theory	ing decision-makers.  ation and manager  linkage between  ces.  Practical  0	ment of natural local people and Total 2
Credits  TeachingHoursperweek  InternalAssessmentMarks	help in improvements help conservations.  Resources, understand the Natural Resources.  Theory 2	ing decision-makers.  ation and manager  linkage between ces.  Practical  0 0	ment of natural local people and  Total 2 2
Ilbeable to:	help in improvements help conservations.  Resources.  understand the Natural Resources.  Theory  2  2  15	ing decision-makers.  ation and manager  linkage between ces.  Practical  0 0 0	ment of natural local people and Total 2 2 15
Credits  TeachingHoursperweek  InternalAssessmentMarks	help in improvements help conservation and the Natural Resour Theory 2	ing decision-makers.  ation and manager  linkage between ces.  Practical  0  0  0	ment of natural local people and Total 2 2 15 35
Credits  TeachingHoursperweek  InternalAssessmentMarks  End-TermExamMarks	help in improvements help conservation and the Natural Resour Theory 2 2 15 35 35 15 15 15 15 15 15 15 15 15 15 15 15 15	ing decision-makers.  ation and manager  linkage between ces.  Practical  0 0 0	ment of natural local people and Total 2 2 15

Instructions for Paper-Setter: The examiner will set 9 questions, with two questions from each unit and one compulsory question. This compulsory question (Question No. 1) will consist of 7 parts and cover the entire syllabus. Examinees are required to attempt a total of 5 questions, which includes selecting one question from each unit and the compulsory question. All questions will carry equal marks.

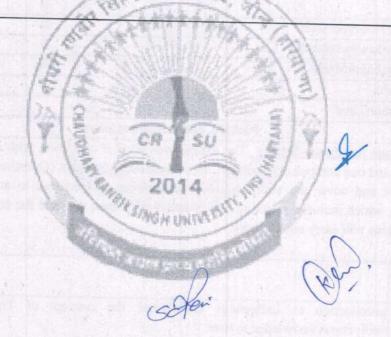
Unit	Topics	Contact
1	Introduction to Indigenous knowledge, the concept of Traditional /indigenous knowledge system.  The role of Traditional Technical Knowledge in biodiversity conservation.	15
П	Case studies:  1. A study of traditional knowledge in agricultural resources and practices.	15
	<ul><li>2. A study of traditional knowledge of water harvesting systems</li><li>3. An exploration of the ethical principles guiding resource management</li></ul>	

and governance among the Adivasi com	munitie	s in c	entral India	Application of the second
TotalContactHours		Sin		30
SuggestedEvalua	tionMe	thods		
InternalAssessment:15			EndTermExa	mination:50
> Theory	15	A	Theory:	35
ClassParticipation:	4		WrittenExar	The state of the s
<ul> <li>Seminar/presentation/assignment/quiz/class testetc.:</li> </ul>	4		and the state of the state of	
Mid-TermExam:	7			

#### PartC-LearningResources

# RecommendedBooks/e-resources/LMS:

- Julian T Inglis (1993) Traditional Ecological Knowledge, Concepts And Cases, International Development Research Centre.
- 2. Charles R Menzies (2006) .Traditional Ecological Knowledge and Natural ResourceManagement, University of Nebraska Press.



	D				
Session	on:2024-25	Service of the servic			
Part	A-Introduction	20/20 V.S. (1)			
NameofProgramme		M.Sc.Geography			
Semester	IV				
NameoftheCourse	PROJECT (DISS	PROJECT (DISSERTATION)			
CourseCode	M24-GEO-	M24-GEO-			
CourseType	D				
Levelofthecourse	500-599				
Pre-requisiteforthecourse(ifany)	N.A.		P1-1 (4500), 31		
CourseLearningOutcomes(CLO)	The student ill				
Aftercompletingthiscourse, the learned libeable to:	methodology steps ta	fter duly following	ng all the research		
Aftercompletingthiscourse, the learner libeable to:	methodology steps ta	fter duly following	ng all the research se Research code: M24-GE		
Aftercompletingthiscourse, the learner libeable to:  Credits	methodology steps ta Methodology in Geo 202).  Theory	fter duly following the course ography (Course	ng all the research		
Aftercompletingthiscourse, the learner libeable to:  Credits  Teaching Hoursperweek	methodology steps ta Methodology in Geo 202).  Theory  0 0	fter duly following the course ography (Course Practical	ng all the research se Research code: M24-GE		
Aftercompletingthiscourse, the learner libeable to:  Credits  TeachingHoursperweek  Internal AssessmentMarks	Theory  Theory  0  0  0	ography (Course  Practical	ng all the research see Research code: M24-GE  Total		
CourseLearningOutcomes(CLO) Aftercompletingthiscourse, thelearne llbeable to: Credits TeachingHoursperweek InternalAssessmentMarks End-TermExamMarks Max. Marks	Theory  O  O  O  O  O	ography (Course Practical	ring all the research see Research code: M24-GE  Total 12 8 100		
Aftercompletingthiscourse, the learner libeable to:  Credits  Teaching Hoursperweek  Internal Assessment Marks	Theory  Theory  0  0  0	Practical 12 8	ring all the research se Research code: M24-GE  Total  12  8		

#### Instructions:

Instructions:
Staff council will decide and display the number of seats available for dissertation during the 3rd semester and choice of topics will be asked. If numbers of candidates are more than seats displayed, the suitable methodology will be decided by the staff council. The candidates selected for dissertation will have to submit and present his/her topic before staff council on or before the dates decided by staff council during the 3rd semester. The candidates are required to submit his/her dissertation at least 15 days before the commencement of final exams of 4th semester. The internal assessment marks of the candidates will be based on the his/her presentation and evaluation done by the staff council.

		120
luationMe	ethods	
		vamination: 150
50		
		50
100	Dissertation	100
WE SH	BY TO STATE OF THE STATE OF	
	50	IuationMethods  EndTermE  50 Presentation  100 Dissertation

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#### RecommendedBooks/e-resources/LMS:

- 1. Archer, J.E. and Dalton, T.H.: Field Work in Geography, E.T. Bastaford Ltd., London, 1968.
- 2. Creswell, John W., Research Design; Qualitative, Quantitative and Mixed Methods Approach, SAGE Publications, Los Angeles, 2008.
- 3. Flick, U. An Introduction to Qualitative Research, 5th Edition, SAGE, 2014.
- 4. Jones, P.A.: Field Work in Geography, Longman, London, 1968.
- 5. Kothari, C. R., Research Methodology, Methods & Techniques, New Age International Publisher, N. Delhi, 2008.
- 6. Kumar Ranjit, Research Methodology: A step-by-step Guide for Beginners, SAGE Publications, Ltd. London (Third Edition), 2010.
- 7. Montello, D. and P. Sutton, An Introduction to Scientific Research Methods in Geography and Environmental Studies, SAGE, 2012.

