

CHAMAN LAL MAHAVIDHYALAYA, LANDHAURA, MANGLAUR ROAD, HARIDWAR.(AUTONOMOUS)

AFFILIATED

SRI DEV SUMAN UTTARAKHAND UNIVERSITY, BADSHAHITHAUL, TEHRI GARHWAL, UTTARAKHAND



NATIONAL EDUCATION POLICY-2020 STRUCTURE OF UG GEOGRAPHY -SYLLABUS 2024-2025

CHAMAN LAL MAHAVIDHYALAYA, LANDHAURA MANGLAUR ROAD, HARIDWAR (AUTONOMUS)

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<u>List of Members of Board of Studies</u>

(Department of Geography)

S. N.	Name of the Members	Designation	Nominated As	Signature
1.	Dr. Naveen Kumar	Assistant	Chairman	
		Professor	Chamman	3 .
		Department of	8 8 9	11
		Geography	9 8	A T
4		Chaman Lal		
		Mahavidhyalya		
2.	D. C. M. 1. IZ	(Landhaura)	,	
۷.	Prof. Naresh Kumar	Professor	Member	
	1 - 1 -	Department Of		
		Geography		140
	4	Meerut College (Meerut)		
3.	Prof. Shyam Singh	Professor	36.1	
•	1101. Silyum Siligii	Department of	Member	-
	* 1	Geography		5
	-	Hindu College		
		(Moradabad)		
4.	Shri Neeraj Kush	Advocate	Member	
5.	Km. Nidhi		-	
<i>)</i> .	Kill. Ividili	Alumnus	Member	
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			1	(V) of V

		Semest	List of all Papers in Six Semester er-wise Titles of the Papers in Under Graduat	e	
Year	Sem.	Course Code	Paper Title	Theory/ Practical	Credits
muli hadi-			Certificate Course in Arts/Science		
FIDOT	I	GEOG101T	Physical Geography	Theory	4
FIRST YEAR		GEOG102P		Practical	2
Thin	II	GEOG201T	Human Geography	Theory	4
		GEOG202P	Surveying Techniques	Practical	2
			Diploma in Art/Sciences		2
	III	GEOG301T	Tourism Geography	Theory	4
SECOND		GEOG302P	Thematic Cartography	Practical	2
YEAR	IV	GEOG401T		Theory	4
		GEOG402P	Quantitative Techniques and Map Projection	Practical	2
		23	Bachelor of Arts/Science		
	V	GEOG501T	Geography of India	Theory	4
	8	GEOG502T	Economic Geography	Theory	4
THIRD	100	GEOG503P	Field Excursion	Practical	2
YEAR	ومهسا	GEOG504R	Survey/ Research Project -1	Project	4
	VI	GEOG601T	Evolution of Geographical Thoughts	Theory	4
		GEOG602T	Agricultural Geography	Theory	4
			Basics of Remote Sensing & GIS	Practical	2
		GEOG604R	Survey/ Research Project -2	Project	4

Subject prerequisites:

Subject is open to all have passed 10+2 level in any stream

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- 1. To study Geography, a student had the subject Geography learnt at 10+2 level.
- 2. Anyone who has mathematics, physics, biology as base subjects at 10+2 level.
- 3. Keen interest in Earth and its physical and social environment and maps.
- Computer and drawing skills.
- 5. Creativity, sound observation and analytical aptitude while working on scientific procedures and research.

COURSE INTRODUCTION

Geography helps us to have an awareness of a place. All places and spaces have a history behind them, shaped by humans, earth, and climate. It also helps students with spatial awareness on the globe. Understanding direction and where things are in the world is still a vital skill, despite having easy access to this information online. Physical Geography: includes the study of the physical makeup of a land which includes climate, landforms, soil and growth, bodies of waters, and natural resources. Human Geography: on the other hand, includes the study of people and culture and how they are distributed across the globe and are more likely to participate in the global community. Geography helps to develop factual reading skills — not only in the studying of maps, but also in the reading materials that are associated with geography. Geography often involves first-hand accounts, reading of research studies, and analysis of data sets. Geography puts history in context.

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It helps us see the why, when, and how of what happened in history. One can learn History better by learning Geography.

Globalization is the process of cultures travelling globally and having an effect on others. Studying geography helps to understand where globalization might lead. Studying geography will make you better understand current events. Studying geography can enhance your navigation skills, no matter where you are. Studying geography will help you make sense of and appreciate different cultures around the globe. Learning about land, resource availability, and how that has shaped a culture to be the way it is today helps you understand the uniqueness of a culture. The study of geography helps us to understand relationships between cultures. Ultimately, this leads to a more accepting and culturally aware society.

Those who study geography have a unique perspective — one that comes with the knowledge of many cultures and spatial awareness that is not replicated in other disciplines. This mix of knowledge can help geographers come up with significant and unique solutions that others may not be able to see. Another way geography can have a positive influence in the world is by creating awareness of the effect of climate change. Geographers have intimate knowledge of weather patterns and climate changes throughout the course of history on areas of land. They also have studied how those changes have affected humans in those areas. That knowledge is shared with others to hopefully bring an understanding and global awareness of the effects of climate change on human society.

Geography will help you better understand news, help fight climate change, be a part of a global community, understand cultures, and learn history. At the end of the day, geography will help to become a better overall global citizen.

rogramme outcomes (POs): (After 3 Years of Study in Geography Under Graduate Programme)				
PO 1 This course will provide students, the basic concepts of Physical & Human Geog				
PO2	It will help in developing analytical and critical thinking based on the themes and issues o Geography.			
PO 3	Students will be able to analyze the problems of present physical as well as cultural world and they will try to find out the possible measures to solve those problems.			
PO 4	Students will be able to understand applied and interdisciplinary aspects of Geography.			
PO 5	Students will be able to design and conduct research projects in geography.			
PO 6	Students will learn how to use various surveying instruments in the field.			
PO 7	Students will be equipped with various statistical techniques and their uses.			
PO 8	Students will learn how to prepare maps based on toposheets as well as GIS.			
PO 9	Students will be able find out an original research question appropriate for geographianalysis.			
PO10	Students will be able to design and implement legitimate geographic methodology.			

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the geom knowledg	rill gain the knowledge of Physical Geography. Student will have a general understanding about orphological and geotechnical process and formation. They will be able to correlate the of physical geography with the human geography. knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through					
	Programme specific outcomes (PSOs): UG I Year / Certificate course Arts/Science					
PO 15	Students will be able to relate and use geographical knowledge and its applied aspects in their practical life.					
PO 14	Through this course students will be able to prepare themselves for Post Graduate and further Ph.D. programs in Geography.					
PO 13	As a spatial science subject will train students to employ in the sectors of geospatial analysis, regional planning and development, tourism, mapping and surveying etc.					
PO 12	Students will prepare themselves for professional careers in Geography.					
PO 11	As a student of Geography, they will be capable to develop their observation power thr field experience and to identify the socio-environmental problems of the areas and regions.					

- analysis of landform development; crustal mobility and tectonics, climate change and dynamics; soil formation and classification; hydrological and oceanographic studies etc.
- Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-vis other social and earth sciences.
- 4. They will be able to acquire the knowledge of Human Geography and will correlate it with their practical life.
- Student will be able to analyse the problems of physical as well as cultural environments of both rural and urban areas. Moreover they will try to find out the possible measures to solve those problems.
- 6. Students will be able to learn various Field Survey Techniques with diverse Survey Instruments.
- 7. Students will be able to learn the application of various modern instruments (GPS) and by these they will be able to collect primary data.
- 8. Applied geomorphologists working independently or serving on multidisciplinary advisory panels are well positioned to influence public policy to the benefit of society and the earth sciences.

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Programme specific outcomes (PSOs): UG II Year/(Diploma in Arts/Science

- 1. Student will have a general understanding about the Tourism Geography of any region. They will be able to correlate the knowledge of Tourism Geography with the Regional Development and Planning.
- 2. Students will be able analyze the prospects and potential of tourism in Uttarakhand State. Moreover they will try to find out the possible contribution of tourism development in regional development and planning.
- 3. Expertise in Statistical Techniques will be useful in quantitative assessment of the geographical data the students can be able to justify their research outcomes which will ultimately contribute to the proper formulation of developmental plans.
- 4. The earth is three dimensional, and it is a challenge to show information in 3D to communicate with others. The map projection techniques will be helpful to put the earth on the flat surface which makes it easier for all to understand. The map projection techniques the students will be able to map and communicate the geographical informations of any region and any plans they have for solving problems that arise.

Programme specific outcomes (PSOs): UG III Year / Bachelor of Arts/Science

PSO 1	Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography.
	Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.
PSO 2	Understanding the role and functioning of global economies, industrial locations; and the use and exploitation of resources with impacts.
PSO 3	Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism behaviouralism, idealism etc.
PSO 4	Students correlate activity of agriculture and its determinants, Classify various types of agriculture in the world and differentiate, Discuss the problems and prospects of agriculture, Acquire new methods, techniques and trends used in agriculture, Understand the concept of sustainable agricultural development.
PSO 5	Conduct Social Survey Project: They will be eligible for conducting social survey project which is needed for measuring the status of development of a particular group or section of the society
PSO6	Training in practical techniques of mapping, cartography, softwares, interpretation of maps, photographs and images etc: so as to understand the spatial variation of phenomena on the Earth's surface.

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PSO7	Students will learn how to prepare map based on GIS by using the modern geographical map making techniques.				
PSO8	Development of Observation Power: As a student of Geography Course they will be capable to develop their observation power through field experience and in future they will be able to identify the socio-environmental problems of a locality.				
PSO9	After the completion of the project they will be efficient in their communication skill as well as power of social interaction. Some of the students are being able to understand and write effective reports and design credentials, make effective demonstrations, and give and receive clear instructions.				
PSO 10	Demonstrate knowledge and understanding of the management principles and apply these to thown work, as a member and leader in a team, to manage projects. They will perform effectively an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				
PSO 11	Employment Opportunities: Many geography grads go into urban and regional planning, a field that is growing fast. Other geographers work in environmental management and consultation and can have a direct impact in the fight against climate change. Also, the skills learned during a geography degree, such as cartography, data representation, and research writing, transfer well into the workforce and can make you a standout applicant.				
PSO12	Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of Uttarakhand by studying and discussing contemporary concepts of social and cultural geography. Explaining and analyzing the regional diversity of Uttarakhand through interpretation of Physical regions.				

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	& PROJECTS)				
ograp	hy				Tota Credi /hrs/
Credit/ hrs	Paper 3	Credit.	Research Project	Credit hrs	
2	Applied Geomorphology	4	-		
2	-	-			
2	Social and Cultural Diversity in Uttarakhand	4			
2					
4	Educational Tour	2	Survey Research Project-1		
4	Remote Sensing & GIS Techniques	2	Survey/ Research Project-2		
ų.					
	ernal /	ernal Assessment	ernal Assessment	ernal Assessment	ernal Assessment

Internal Assessment & External Assessment
Only for Theory Paper

Internal Assessment
Marks
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Internal Assessment would be based on Written Test
Internal Assessment would be based on Attendance

Internal Assessment would be based on Attendance

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Internal Assessment would be based on Attendance

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		CERTIFICATE COURSE	IN ARTS/SCIEN		Comment
rogramme: C	ertificate Course	e in Arts/Science		Year: I	Semester: Paper-I
-		Subject: Geography			
Course Code:	GEOG101T	Course Title: Physical G	eography		
ourse Outcon	nes:				
. Understand	the origin of Ur	niverse, Earth and Solar system	n.	i	
Learn about	the Continents	and Oceans.			
. Plate tectoni	ics and related r	movements.			
Origin and o	development of	different Landforms on the Ea	arth.		
Earth's clim	ate and factors	influencing it.			
. Understand	formation of Se	oil, types, profiles and biogeog	graphy.		
Ocean syste	ms of the world	l.			
redits: 04			Core	Compulsory	
ax. Marks: 2	5+75		Min.	Passing Marks:	
otal No. of Le	ectures-Tutorial	s-Practical (in hours per weel	k): 4-0-0	2	
Unit		Торіс	Type The Albania	A. M.	No. of Lectures
Unit I	Meaning, Scope and Branches of Physical Geography, Origin of Universe, Solar system and Earth. Geological Time Scale, Theories of Laplace, Chamberlin, James Jeans, Jeffreys, and Hoyle & Lyttleton, Interior of the earth, Rocks: origin and classification.				
Unit II	theories, Plate landforms: Mo Erosion, norma Vulcanicity and	inents and ocean basins: Conti e Tectonics, Isostasy, Earth ountains, Plateau and Plains, Grall al cycle of erosion, Arid, Glad d Earthquakes.	movements, En radational processe cial, Marine and K	dogenetic forces, s, Weathering and farst topographies.	
Unit III					
Unit IV	Composition a Distribution of and Local. Hun	and structure of atmosphere, temperature, Pressure and pres nidity, Clouds and Precipitation	Insolation, Vertice sure belts, Winds: n, Cyclones and Ar	Planetary, Periodic nticyclones.	14
Unit V	Ocean bottom t	opography, Ocean deposits, Sa	linity, Temperature	, Ocean currents,	00

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Tides and Coral reefs.

- 1. Barry, R.G. and Chorley, R.J. (1998). Atmosphere, Weather and Climate. Routledge, London.
- 2. Bryant, H. Richard (2001). Physical Geography Made Simple. Rupa and Co., New Delhi.
- 3. Bunnett, R.B. (2003). Physical Geography in Diagrams, Fourth GCSE edition, Pearson Education (Singapore) Pvt Ltd.

4. Garrison T (1998). Oceanography. Wordsworth Cp, Bedmont.

5. Lake, P. (1979). Physical Geography (English & Hindi Edition) Cambridge Univ. Press, Cambridge.

6. Monkhouse, F I (1979). Physical Geography, Methuen, London.

7. Singh, S. (2003). Physical Geography (English and Hindi Editions) Prayag Pustak Bhawan, Allahabad.

8. Singh, M.B. (2001) Bhoutik Bhoogol, Tara Book Agency, Varanasi.

- 9. Strahler, A.N. and Strahler A.M. (1992). Modern Physical Geography, John Wiley and Sons, New York
- 10. Wooldridge, S.W. and Morgan, R.S. (1959). The Physical Basis of Geography: An Outline of Geomorphology.Longman, London.

Suggested Online Link:

Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/cec21_hs03/preview https://onlinecourses.swayam2.ac.in/nos20_sc25/preview

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Class Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

	CERTIFICATE COURSE IN	ARTS/SCIENCE		
Programme: Certificate Cours	se in Arts/Science		Year: I	Semester: I Paper-II
	Subject: Geography			*
Course Code: GEOG102P	Course Title: Basic Cartographic	Techniques and M	1ap Reading	s
Course Outcomes:				
1. Learn basics of Cartography	y and Map making			
2. Understand and interpret to	posheets and weather maps			
3. Draw maps with the help of	ftoposheets			
4. Learn function and use of r	neteorological instruments			
Credits: 2		Core Co	mpulsory	

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k. Marks:	80+10+10 (Lab exercise-Record File-Viva-Voce) Min. Passing Marks:		
tal No. of I	Lectures-Tutorials-Practical (in hours per week): L-T-P:0-0-2		
Unit	Торіс	No. of Lectures	
Unit I	Meaning, importance and types of Scale, Conversion of Scale, Construction of Plain, Comparative and Diagonal Scale. Methods of enlargement and reduction of maps.		
Unit II	Definition, nature and scope of cartography, Globe and maps, Essentials of maps, History of map making, Types and uses of maps, Elements of map reading.	4	
Unit III	Cartographic representation of relief: Hachures, Contours, Form line, Spot height, Bench mark, Trig point, Layer tint; Interpolation of contours.	5	
Unit IV	Indian topographical map system: Their classification and types. Interpretation of topographical maps and preparation of base map, index map, drainage map, toporographic map, land use map, settlement map and transportation network map.	8	
Unit V	Indian weather maps: Interpretation and preparation of weather report, Meteorological instruments; Barometer, Thermometer (Minimum, Maximum, Dry and Wet bulb), Rain gauge, Wind vane and Anemometer.	6	

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- 1. Monkhouse, F.J. & Wilkinson, F.J. (1985). Maps and Diagrams. Methuen, London.
- 2. Raisz, E (1962). General Cartography. John Wiley &Sons, New York.
- 3. Sharma, J.P. (2001). Prayogik Bhoogol. Rastogi Pub, Meerut.
- 4. Singh, R. L. & Singh, Rana PB (1993). Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
- 5. Singh, L. R. (2006). Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all.

Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:

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	CERTIFICATE COURSE IN ARTS/ SCIENCE		-i
Programme:	Certificate Course in Arts/Science Year:	1	Semester: II Paper-I
	Subject: Geography		
Course Cod	e: GEOG201T Course Title: Human Geography		
Course Outco	omes:		
1. Learn Mear	ning, Concept, Nature, Scope and development of Human Geography.		
2. Understand	Cultural Changes in and around the world.		
	the different races, religions, tribes, their culture and cultural development.		
Credits: 04	Core Compulse	ory	
Max. Marks: 25+75 Min. Passing Marks			
	Lectures-Tutorials-Practical (in hours per week): 4-0-0		=
Unit	Topic		No. of Lectures
Unit I	Definition and scope of Human Geography; human versus physical geographranches of Human Geography; Development of Human Geographam Contributions of German and French Geographers. Contribution of Ir Geographers.	phy:	12
Unit II	Schools: Determinism, possibilism, welfare or humanistic and positivism; Approaches: ecological, landscape, locational, welfare and humanistic.		12
Unit III	Elements of environment; physical and human environment; constraints opportunities of the environment; impact of environment on man; impact of on environment; environmental problems; pollution, natural hazards, and clinchange.	man mate	12
Unit IV	Evolution of man: Classification of races, Characteristics of races and their world distribution, Human adaptation to the environment: Eskimo, Bushman and Masai. Tribes of India; habitat, economy and culture with special reference to Naga, Bhil, Santhal, Gaddi, Bhotia, and Tharu tribes.		
Unit V Human Settlements: Origin, types and patterns (Rural and Urban) characteristics, House types and their distribution with special reference to India.			

- 1. Singh, L.R. (2005). Fundamentals of Human Geography. Sharda Pustak Bhawan, Allahabad.
- 2. DeBlij, H.J. Human Geography: Culture, Society and Space. John Wiley, New York.
- 3. Haggett, P. (2004). Geography: A Modern Synthesis. Harper & Row, New York
- 4. Hussain, M. (1994): Human Geography. Rawat Publication, Jaipur.
- 5. Kaushik, S.D.& Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Pub. Meerut.
- 6. Norton W. (1995). Human Geography. Oxford University Press, New York.
- 7. Singh, K. N. & Singh J. (2001). Manviya Bhoogol. Gyanodaya Prakashan, Gorakhpur.

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Suggested Online Link:

Suggested equivalent online courses:

Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/nou20 hs18/preview

This course can be opted as an elective by the students of following subjects: Open to all.

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

	CERTIFICATE COURSE IN AR	15/5CILITOR	
	Programme: Certificate Course in Arts/Science	Year: I	Semester: Il Paper-II
	Subject: Geography		
Course Code	: GEOG202P Course Title: Surveying Techniques		
Course Outco	mes:		
. Understand	importance of Surveying.		
. Learn to us	e Different Surveying instruments including GPS.		
Credits: 2		Core Compulsory	
Max. Marks:	80+10+10 (Lab exercise-Record File-Viva-Voce)	Min. Passing Marks:	
otal No. of I	ectures-Tutorials-Practical (in hours per week): 0-0-2		
Unit	Topic		No. of Lectures
Unit I	Fundamentals of Surveying: Objects, Primary divisions of	survey, Classification.	2
Unit II Plane Table Surveying: Radiation, Intersection, Close Traverse, Open Traverse, Resection by two point and three-point problems.			9
Unit III Surveying by Prismatic Compass: Close Traverse, Open Traverse, and Correction of bearing.			
Unit IV Measurement of height and depth by Indian Pattern Clinometer.			5
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Suggested Reading:

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- 1. Monkhouse, F.J. & Wilkinson, F.J. (1985). Maps and Diagrams. Methuen, London.
- 2. Raisz, E. (1962). General Cartography. John Wiley & Sons, New York.
- 3. Sharma, J.P. (2001). Prayogik Bhoogaol. Rastogi Pub, Meerut.
- 4. Singh, R.L. & Singh, Rana P.B. (1993) Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
- 5. Singh, L. R. (2006). Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.

Suggested Online Link:

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Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all.

Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:

	DIPLOMA IN ARTS/SCIENCE		
Programme: 1	Diploma in Arts/Science	Year: II	Semester: II Paper-I
	Subject: Geography		· · · · · · · · · · · · · · · · · · ·
Course Code	e: GEOG301T Course Title: Tourism Geography		
Course Outco	mes:		
1. Understand	I the concept and importance of tourism and tourism Geography.		
2 T C 4			
2. Infrastructu	are required by the tourism services.		
3. Learn impa	acts on Environment, economy and society.		
4. Tourism pr	rospects and challenges in Uttarakhand.		
Credits: 4	Core Comp	oulsory	
Max. Marks:	25+75 Min. Passir	ig Marks:	
Total No. of L	ectures-Tutorials-Practical (in hours per week): 4-0-0		
Unit	Topic		No. of Lectures
Unit I	Concept of Leisure and Tourism; Development of Tourism; Types of Tourism; Definition, Scope and Significance of Geography of Tourism; Geographical Basis of Tourism; Resources and Infrastructure for Tourism: Transportation, Accommodation and Basic Infrastructure.		
Unit II	Impact of Tourism: Physical, Economic, Social and Cultural Impacts of Ecotourism; New Emerging Trends in Tourism. Statistics of tou data collection.		

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Unit III	Tourism Marketing: Marketing Concepts and Marketing in Tourism; The Tourist Product; Segmentation- A Priori Segmentation; Tourism Circuits: Tour Agencies. Components of a Tourism Plan, The Tourism Planning Process.	12
Unit IV	Globalization and Tourism; Tourism in India; Resource and Growth; National Tourism Policy in India; Tourism Organizations. Role of WTO, IATA, UPTAA, AI, IATO, etc. in promotion and development of tourism	12
Unit V	Sustainable Tourism Development in Uttarakhand: Policies and Planning for Tourism Development; Tourism Carrying Capacity and Limits of Acceptable Change; Pro-Poor Tourism (PPT); Environmental, Cultural, Social and Historical Attractions with special reference to Uttarakhand Himalaya; Framework for Monitoring Sustainability of Tourism in Uttarakhand.	12

- 1. Bhatia A.K. (1978). Tourism in India. Sterling pub. New Delhi.
- 2. Burkarl, A.J. (1974). Tourism, Past, present and future Heineman London.
- 3. Gearing Charles, E (1976). Planning for Tourism development Praeger Pub, NewYork
- 4. Lawbon, F &Bauet B. (1977) Tourism and recreation Development mass, CBI pub.
- 5. Robinson H. (1976). A Geography of Tourism. MacDonald and Evans Ltd; London.
- Douglas Pearce (1981). Topics in Applied Geography, Tourist Development. Longman London New York.
- 7. Stephen L.J. smoth (1989). Tourism Analysis: A Handbook-Longman Scientific of Telchnical.
- 8. Ministry of Tourism Govt. of India (1999): Report on National Tourism.
- 9. Pande, G.C. and D.C. Pandey (1999). Environmental Development and Management: Strategies and Policies, New Delhi.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

DIPLOMA IN ARTS/SCIENCE		90
Programme: Diploma in Arts/Science	Year: II	Semester: III Paper-II
Subject: Geography		
Course Code: GEOG302P Course Title: Thematic Cartography		

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Course Outcomes:

- 1. Learn theme-based cartography.
- 2. Able to represent geographical data of different types using diagrams, graphs and maps.

Credits: 2	Core Compulsory	
Max. Marks: 80+10+10 (Lab exercise-Record File-Viva-Voce)	Min. Passing Marks:	

Total No. of Lectures-Tutorials-Practical (in hours per week): 0-0-2

Cartography: Meaning, Rules and Methods of Geographical data representation, Types of Diagrams, Graph, Distribution maps and cartogram. Isopleth and choropleth maps. Cartographic representation of geographical data by (a) dot method (b) proportional sphere method and circle method. Representation of economic data:	6
	6
Agricultural, land use, production and industrial data.	
Representation of population data: Growth, distribution and employment.	6
Representation of climatic data: Climatograph, Climograph and Hythergraph.	6
Drainage ordering, Slope analysis: Wentworth's and Smith's methods.	6

Suggested Reading:

- 1. Monkhouse, F.J. & Wilkinson, F.J. (1985) Maps and Diagrams. Methues, London.
- 2. Raisz, E (1962) General Cartography. John Wiley &Sons, New York.
- 3. Sharma, J.P. (2001) Prayogik Bhoogol. Rastogi Pub, Meerut.
- 4. Singh R.L. & Singh, Rana P B (1993) Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
- 5. Singh, L R (2006) Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): N.A.

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Course Prerequisites:

-	DIPLOMA IN ARTS/SCIENCE	Torne Morter Ser
Programme:	Diploma in Arts/Science Year: II	Semester: IN Paper-I
	Subject: Geography	
Course Cod	e:GEOG401T Course Title: Regional Planning and Development	
Course Outc	omes:	
1. Understand	the concept of region, planning and development	
	I the importance of Regional planning.	
	process and strategies of planning.	
4. Understand	the theories of regional planning.	
5. Problems of	of planning and causes of regional disparities.	
Credits: 4	Core Compulsory	
Max. Marks:	25+75 Min. Passing Marks:	
Total No. of	Lectures-Tutorials-Practical (in hours per week): 4-0-0	
Unit	Topic	No. of Lectures
Unit I	Regional concept in geography: Concept, Scope & purpose of regional planning, Types of regions: Formal and functional; uniform and nodal, single purpose and composite region.	
Unit II	Regional Planning: Planning process - sectoral, temporal and spatial dimensions; short-term and long-term perspective planning, Indicators of development and their data sources, measuring levels for regional development and disparities, Planning for regional development and multiregional planning in national context	
Unit III		
Unit IV	Concept of Multi-level planning: Decentralized planning; peoples participation in the planning process, Concept and approaches of urban development, Landscape ecology and sustainable urban development, Application of remote sensing and Geographic Information System in Development Planning.	13
Unit V	Theories and Models for Regional Planning: Growth Pole Model of Perroux;	

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- 1. Chitambar, J.B. (1993) Introductory Rural Sociology, Wiley Eastern, New Delhi.
- 2. Goomen, M.A. and Datta, A. (1995) Panchayats and their Finance, Rawat Pub. Co., New Delhi.
- 3. Matthews G. (editor) (1995) Status of Panchayati Raj: 1994, Institute of Social Sciences / Rawat Pub. Co., New Delhi.
- 4. Matthews A. (1994) Panchayati Raj: From Legislation to Movements, Rawat Pub. Co., New Delhi:
- 5. Misra, H.M. (ed) (1987) Contributions to Indian Geography, Volume 9: New Delhi.
- 6. De Blij, H.J. and Muller, P.O. (1997) Geography: R.R.C, 8th edition, J. W. & S. Ltd., NewYork.
- 7. Dickinson, J., Gould, B., Clarke, C., Mather, S., Prothero, M., Siddle, D., Smith, C. and Thomas-Hope, E. (1996) A Geography of the Third World, 2nd edition, Routledge, London
- 8. Bhat, L.S. (1972) Regional Planning in India, Indian Statistical Institute, Calcutta.
- 9. Bhat, L.S. (2003) Micro Planning: A Case Study of Karnal Area, KB Publications, New Delhi.
- 10. Chand, M. and Puri, V.K. (2004) Regional planning in India; Allied Publishers, New Delhi.
- 11. Chandana, R. C. (2005) Regional Development and Planning. Kalyani Publishers, New Delhi.
- 12. Dube, K.K. and Singh, M.B. (1986): Pradeshik Niyojan. Tara Book Agency, Varanasi.
- 13. Friedman, J.&Alonse, W. (1968) Regional Development & Planning, M.I.T. Press, Cambridge-Massachusetts.
- 14. Kuklinski, A.R. (ed.) (1975) Regional Development & Planning: International Perspectives.
- 15. Kuklinski, A.R. (1972) Growth Centres in Regional Planning. Mounton and Company, Paris.
- 16. Mishra, R.P, Sundaram, K.V., and Prakasarao, V.L.S. (1976) Regional Development Planning in India, Vikas Publishers., New Delhi.
- 17. Mishra, R.P. (1969) Regional Planning. University of Mysore, Mysore.
- 18. Mishra, R.P. (2002) Regional Planning, Concepts, Techniques, Policies and Case Studies, Concept Publishing Company, New Delhi.
- 19. Pandey, D.C. and P.C. Tiwari (1989) Dimensions of Development Planning, Volumes I and II, New Delhi.
- 20. Singh O.P. and D.C. Pandey (1986) Development Planning: Theory and Practice, Nainital.
- 21. Sharma, P.R. (ed.) (1993) Regional Policies and Development in the Third World. Rishi Publication., Varanasi.
- 22. Sundaram, K.V. (1977) Urban and Regional Planning in India, Vikas Publishers. New Delhi.
- 23. Sundaram, K.V. (1997) Decentralized Multilevel Planning: Principles and Practice. Asian and African Experience. Concept Publishing Company, New Delhi.

Suggested Online Link:

Suggested equivalent online courses: https://onlinecourses.swayam2.ac.in/aic19_ge05/preview

This course can be opted as an elective by the students of following subjects: Open to all.

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations Course Prerequisites:

	DIPLOMA IN ARTS/SCIE	ENCE	
Progra	mme: Diploma in Arts/Science	Year: II	Semester: IV Paper-II
	Subject: Geography		
Course Code: GEOG402P	Course Title: Quantitative Techniques Projections	and Map	,



Course Outcomes:

- 1. Understand the importance of statistical methods in Geographical studies.
- 2. Learn data collection, tabulation, analysis and prediction.
- 3. Understand the need of projection and construction methods.

Credits: 2	Core Compulsory
Max. Marks: 80+10+10 (Lab exercise-Record File-Viva-Voce)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week): 0-0-2

Unit	Topic	No. of Lectures
Unit I	Data: Meaning, and Types, Collection of data, Sampling Techniques and Methods, Measures of central tendency: Mean, Mode, and Median.	7
Unit II	Measures of dispersion; Mean Deviation, Quartile Deviation and Standard deviation, Correlation: Karl Pearson's and Spearman's methods.	5
Unit III	Definition, Necessity and Classification of map projection, Mathematical method of drawing projections, Construction of map projections: Simple conical projection with one and two standard parallels, Bonne's projection, Polyconic projection.	7
Unit IV	Cylindrical projections: Equidistant and Equal area cylindrical projections, Mercator's, Gall's stereographic projection.	6
Unit V	Zenithal Projections: Polar zenithal equidistant, Equatorial zenithal equidistant, Polar zenithal equal-area, Equatorial zenithal equal-area.	5

Suggested Readings:

- 1. Monkhouse, F.J. &Wilkinson, F.J.(1985)Maps and Diagrams. Methues, London.
- 2. Raisz, E. (1962). General Cartography. John Wiley & Sons, New York.
- 3. Sharma, J.P. (2001). Prayogik Bhoogaol. Rastogi Pub, Meerut.
- 4. Singh, R.L. & Singh, Rana P.B. (1993). Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
- 5. Singh, L. R. (2006). Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:

	DEGREE IN ARTS/SCIENCE		
Program	nme: Degree in Arts/Science	Year: III	Semester: V Paper-I
	Subject: Geography		
Course Code	e: GEOG501T Course Title: Geography of India		
Course Outco	mes:		
1. Help studen	its to know the Uniqueness of India in the world.		
2. Learn about	t the physical and cultural diversities and interrelationships	of India.	
3. Understand	the agricultural, industrial and trade aspects of India.		
Credits: 4		Core Compulsory	
Max. Marks:	25+75	Min. Passing Marks:	
Total No. of L	ectures-Tutorials-Practical (in hours per week): 4-0-0		
Unit	Topic	Salvery I	No. of Lectures
Unit I	India- A subcontinent, Physical features, Geologic struct Climate, Natural vegetation, Soils, Natural regions.	ure, Drainage system,	16
Unit II	Agriculture, Crops (Food, plantation and commercial), A Agriculture regions, Irrigation, Livestock raising and Fisher	Control of the Contro	10
Unit III	Industries: Metallurgical, Textile, Engineering, Chemical, and Agro-industries, Industrial regions, Minerals and Powe		10
Unit IV	Population (density, distribution and urbanization), Magional development and planning, Regional disparied Integrated rural development programme, Panchayati rawatershed management.	ties, Five-year plans, j, Command area and	
Unit V	Transportation: Roads and railways, air transportation and programmer and External (Trend, composition and di Economic Zones).	ipeline transportation. rection); SEZ (Special	10

- 1. Chauhan B.S. & Gautam Alka (2011) Bharat (Geography of India), Rastogi Publication, Meerut.
- 2. Chauhan B.S.& Gautam Alka (2013) Bharatvarsh kaVistrat Bhogool, Rastogi Publication, Meerut.
- 3. Hussain, Majid (2015) Geography of India, McGraw Hill Education, New Delhi.
- 4. Mamoria, C.B. (2007) Bharat Ka Bhoogol. Sahitya Bahwan, Agra.
- 5. Sharma, Y.K. (2009) Geography of India, Lakshmi Narayan, Agra.

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- 6. Sharma, M.L.& Sharma H.S. (2011) Bharatka Bhogool, Rastogi Publication, Meerut.
- 7. Sharma, J.K.& Kalwar, S.C. (2011) Bharat ka Bhogool, Rastogi Publication, Meerut.
- 8. Singh R. L. (1993) Regional Geography of India, National Geographic Society of India, Varanasi.

Suggested Online Link:

Suggested equivalent online courses:

Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/nou20_ag10/preview

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

	DEGREE IN ARTS/SCIENCE	
Programme: L	Degree in Arts/Science Year: III	Semester: V Paper-II
	Subject: Geography	
Course Code	: GEOG502T Course Title: Economic Geography	
Course Outco	mes:	
. Understand	broad meaning and scope of Economic Geography.	
. Understand	Economic landscape.	
Learn world	I production of crops, industries, resources, and petroleum etc.	
	ies of industrial location and factor responsible.	
. Understand	trade and transportation scenario of the world.	
Credits: 4	Core Compulsory	Y
Max. Marks:	25+75 Min. Passing Ma	rks:
Total No. of L	ectures-Tutorials-Practical (in hours per week): 4-0-0	
Unit	Торіс	No. of Lectures
Unit I	Meaning, aim and scope of economic geography, Resources: Mean classification, conservation and concepts, Economic landscapes.	ning, 14
Unit II	Primary production, Vegetation & forest economy, Soil resources, Miresources (Iron ore and bauxite), Power resources (Coal, Petroleum and Helectricity), Resource conservation.	neral 12 ydro-
Unit III	Main crops in the world: Wheat, paddy, sugarcane, coffee and tea. industries: Iron & steel, textiles, petro-chemical and sugar.	12

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Unit IV	Theory of industrial location: Weber and Losch, Industrial regions of India and World.	10
Unit V	World transportation: trans-continental railways, sea and air routes, international trade, patterns and trends, trade blocks: NAFTA, EEC, ASEAN, G7 and G20, Globalization and developing countries.	12

- 1. Alexander, I W (1988) Economic Geography. Prentice Hall, New Delhi.
- 2. Boesch, H (1964) A Geography of World Economy. Von Nostrand, New York.
- 3. Gautam, A (2006) Arthik Bhugol ke Mool Tatve. Sharda Pustak Bhawan, Allahabad.
- 4. Hartshorne, TA & Alaxender IW (1988) Economic Geography. Englewood Cliff, New Jersey.
- 5. Singh, KN and Singh I (2003) Arthik Bhugol ke Mool Tatve. Gyanodaya Prakashan, Gorakhpur.

Suggested Online Link:

Suggested equivalent online courses:

Courses on Swayam / MOOCs https://onlinecourses.nptel.ac.in/noc21_hs50/preview

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

	DEGREE IN ARTS/SCIEN	CE	
Programme: Degree in Arts/	Science	Year: III	Semester: V Paper-III
	Subject: Geography		
Course Code: GEOG503P	Course Title: Field Excursion		
Course Outcomes:	<u> </u>		
1. Understand different physi	o-cultural settings of the visited region or	area.	
2. Understand the geographic	al differences among regions and areas ar	nd their causes.	
3. Learn to interact with peop	oles of different culture.		
4. Learn to Prepare tour report	t		
Credits: 2		Core Compulsory	
Max. Marks: 75+25 (Tour R	eport-Viva-Voce)	Min. Passing Mar	ks:
Total No. of Lectures-Tutori	als-Practical (in hours per week): 0-0-2		
Unit	Topic		No. of
			Lectures

Unit I	How to prepare Field Manuscript, Steps and methods of preparing Tour report, Methodology adopted for Research in Field Trip, Various other aspects of study in Field Trip, Preparation of Surveying in Field Trip. Prerequisites of field trip.	30
	Conducts during field visit.	
	(Different lectures would be taken before and during field visit).	

Suggested Continuous Evaluation Methods:

The following shall be the guidelines and structure of Educational tour;

Geographical Excursion Committee

1. All faculty members shall organize geographical excursion as 'tour in-charge' in rotation according to departmental seniority list.

2. There shall be Geographical Excursion Committee headed by HOD in University and Principal in colleges. Tour in-charge shall act as convener of committee and shall convene a meeting at the beginning of session or semester. All other teachers of department shall be member of committee. Four/Five meritorious students based on last available examination result shall be invited by the tour in-charge to participate in meeting as members of committee.

3. Committee shall:

a) Review the tour plan.

b) Confirm that all arrangements shall be made in advance before tour departure.

c) Listen to the opinion of students and give recommendations to tour in-charge accordingly.

d) Review academic nature of tour and evaluate day wise tour plan and academic activity as submitted by Tour in-charge.

Structure of the tour party

1. For 20 or less than 20 students one faculty member with one non teaching staff shall accompany the Tour party. For 21 to 50 students two faculty members with one non teaching staff shall accompany the Tour party. If two faculty members are required for tour, second faculty member shall be selected on the recommendation of tour in-charge. If students are more than 50 then a separate tour batch shall be constituted in same manner.

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2. If female students are also participating in tour and tour in-charge, accompany other faculty member or Non teaching staff none are female then one female attended (Female faculty member from Geography or any other departments/female non teaching staff) shall accompany with tour party.

Responsibility of tour in-charge

1. Tour shall at least of 6 days stay at location with inter region variation.

- 2. Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.
- 3. Tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc in location where tour is being planned for following activities like;

a) Interaction of students.

b) Lectures on various local physical and cultural attributes of the area by the experts.

c) Local visit with faculty members having academic understanding of the area.

- 4. Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.
- 5. Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.
- 6. Questionnaire survey on various socio-cultural or any other aspects. Questionnaire must be prepared in advance and shall be shared during Geographical Excursion Committee meeting.
- 7. Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.
- 8. Tour in-charge will prepare list of students accompanying the tour with their information like mobile number, address, guardian contact information and one recent color photo. One copy will also be submitted to the head in universities and Principal in colleges.
- 9. Teacher shall always try to minimize tour expenditure of students by;

a) Using concession train reservation and avoiding buses if possible.

- b) Making stay arrangements of students in advance in youth hostels/lodges/guest 25 house etc.
- c) Try to visit few important locations only with objective of spot study and avoiding unnecessary travel for sightseeing.
- 10. After the completion of tour there shall be presentation by students regarding learning outcomes and experiences under the supervision of tour in-charge. Presentation shall be attended by Geographical Excursion Committee members along with other faculty members, staff, students etc.
- 11. All students shall submit tour report under supervision of Tour in-charge for evaluation. Tour report shall portray all activities conducted and places visited for the purposes of study.
- 12. In case of any incident/injury where one or more than one student can't join tour party in return journey. One teaching/non teaching staff member shall stay with student until student's guardian arrives or alternative arrangement is not made by the college. In case tour in-charge stays the other teacher/staff member shall act as tour in-charge for remaining tour period according to seniority.

Exemption of Students from Tour

1. Tour can be exempted in very special circumstances on recommendation of tour incharge and head (in University) or Principal (in Colleges). Exempted students will prepare local tour report based on his/her own local tour visits. Report shall be prepared under supervision of tour in-charge.

TA. DA and other expenses

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

Suggested equivalent online courses

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	DEGREE IN ARTS/SCIENCE		
Programme:	Degree in Arts/Science	Year: III	Semester: V Paper-IV
	Subject: Geography		
Course Coo	le: GEOG504R Course Title: Survey/ Research Project -1	, , , , , , , , , , , , , , , , , , , 	
Course Outc	omes:		
. Understand	d the importance of research and research methodology.		
	to conduct research project.		
	repare project report.		
_	credits for Theory and 1 credit for preparation of field survey)	Core Compu	sory
Max. Marks	-	Min. Passing	Marks:
	Lectures-Tutorials-Practical (in hours per week): L-T-P: 0-0-P		
Unit	Topic		No. of Lectures
Unit I	Meaning, types and significance of Research, Literature review and	formulation of	45
	research design, research problem, objectives, hypothesis, Research	h materials and	
	methods, Sampling. Techniques of writing scientific reports: P	reparing notes,	
	references, bibliography, abstract and keywords etc.		
Unit II	Selection of research problem and study area.		15
Note	1. Each faculty member shall teach these topics of research to h students independently.		
	2. Student shall choose supervisor according to his/her research i specialisation of Faculty member.	nterest and	

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:

	DEGREE IN ARTS/SCIENCE	E .	
Programme:	Degree in Arts/Science	Year: III	Semester: VI Paper-I
	Subject: Geography		
Course Code	: GEOG601T Course Title: Evolution of Geographical Th	oughts	
Course Outco	mes:		
l. Understand	the development of Geography as a scientific discipline.		
2. Learn the h	pasic concepts of Geography.		
		anhical knowledge	
	mpact of expedition, discoveries and exploration on Geogra		
	ns of Indian, Arab, Greek, Roman, and modern geographers		
Credits: 4		Core Compulsory	
Max. Marks:		Min. Passing Marks:	
Total No. of I	ectures-Tutorials-Practical (in hours per week):L-T-P: 4-0	-0	
Unit	Topic	lue.	No. of Lectures
Unit I	Definition and purpose of Geography, Science and philosophy of Geography, The basic concepts of Geography, Techniques and tools in Geography, Different branches of Geography, Relationship of Geography with other Sciences.		
Unit II	Geography in classical times: Greek and Roman Geographarab Geographers.	hers, Contribution by	12
Unit III	Renaissance, Eighteenth century Geography, Developm Thought in India: Ancient and Modern. Contribution of I Geographers.		12
Unit IV	Formulation of scientific Geography, Schools of thoughts; German, French, British, American and former Soviet Union. Environmental determinism, possibilism, Neo-determinism and probabilism.		
Unit V	Dualism in Geography, Dichotomy of scientific and regional Geography, Concept of Regions and regionalization, Qu		12

- 1. Abler, Ronald; Adams John S. Gould, Peter (1971) Spatial Organization: The Geographer's View of the world. Prentice Hall.N.I.
- 2. Ali.S.M: The Geography of Puranas (1996) People of Publishing House, Delhi.

2

Recent Trends in Geography.

- 3. Amedeo, Douglas (1971) An Introduction to scientific Reasoning in Geography, John Wiley, USA.
- 4. Dikshit, R.D. (ed): The Arts and science of Geography integrated readings, P.H.I, New Delhi.

- 5. Hartshone, R. (1959) Perspectives on Nature of Geography, Rand Mcnally &co.
- 6. Husain, M. (1984) Evaluation of Geographical thought, Rawat Publication, Jaipur.
- 7. Johston, R.J. (1983) Philosophyand Human Geography, Edward Arnold London, Johnston,
- 8. R.H. (1988) The future of Geography, Methuen, London.
- 9. Mishull, R. (1970) The Changing Nature of Geography, Hutchinson University library, London.
- 10. Adhikari S. (1992): Geographical Thought, Chiatanya Pub. House, Allahabad.
- 11. Chorley, R.J. & Hagget.P.(1965) Frontier in Geographical Teaching, Oxford University Press.

Suggested Online Link:

Suggested equivalent online courses:

Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/cec21_lg06/preview

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

		DEGRE	E IN ARTS/SCIENCE	C	
Progra mme:	Degree in Arts/S	cience	4 1 y 8.	Year: III	Semester: \ Paper-II
		Subject:	Geography		
Course Cod	e: GEOG602T	Course Title: Agricu	ltural Geography		
Course Outco	omes:				÷
. Understand	the meaning, so	ope and approaches o	of Agricultural Geogra	phy.	
2. Learn facto	ors influencing A	griculture.			
3. Learn tech	niques and meth	ods of agricultural reg	gionalization.		
4. Come to k	now the agricult	ıral location theory.			
. Understand	the agricultural	scenario of India.			
Credits: 4				Core Compulsory	
Max. Marks:	25+75	· ; · · · · · · · · · · · · · · · · · ·		Min. Passing Marks:	
Total No. of I	ectures-Tutoria	s-Practical (in hours	per week): L-T-P: 4-0)-0	
Unit		Горіс			No. of Lectures
Unit I	Approaches to	the study of Agricult	elopment of Agricultur ural Geography: Com paches etc., Origin and	modity, systematic,	12



Unit II	Determinants of agricultural land use: Physical, economic, social and technological factors, Land holding and land tenure systems in India, Land use and land capability.	12
Unit III	Agricultural efficiency Concepts, Techniques and Methods of measurements; Methods of delimiting crop combination region, cropping pattern, crop concentration, intensity of cropping, degree of commercialization, diversification and specialization.	12
Unit IV	Theories of Agriculture Geography, Von Thunen's theory (model) of agricultural location and its recent modifications, Demarcation of Agricultural regions, Whittlesey's classification of agricultural regions.	12
Unit V	Regional pattern of productivity in India, Green Revolution, White Revolution, Food deficit and food surplus regions; World pattern of Agriculture: Subsistence agriculture, Commercial farming, Plantation agriculture, Mixed agriculture, State, collective and cooperative farming.	12

- Bhalla, G.S. and Alagh, Y.K. (1979). Performance of Indian Agriculture: A District-wise Study, Sterling, New Delhi.
- 2. Das, M.M. (1982) Peasant Agriculture in Assam, Inter India, New Delhi.
- 3. Gobind, N. (1986) Regional perspective in agriculture, concept, New Delhi.
- 4. Hussain, M. (1979) Agricultural Geography, Inter India, New Delhi.
- 5. Mergra, W.B. & Munton, R.J.C. (1971) Agricultural Geography, Methuen, London.
- 6. Mitchel, P. (1979) Agro-ecosystem, Inter India Publication, New Delhi.
- 7. Shafi, M. (1984) Agricultural productivity and regional imbalance, concept, New Delhi.
- 8. Singh J. and Dhillon, S.S. (1985) Agricultural Geography, Tata McGraw Hill, New Delhi.
- 9. Singh, J. (1974) Agricultural Atlas of India: A Geographical perspective, Vishal Publications, Kurukshetra.
- 10. Kumar, Pramila, Krishi Bhoogol, Madhya Pradesh Hindi Granth Academi, Bhopal, MP.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

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-		DEGREE IN ARTS/SCIE	NCE	
Programme:	Degree in Arts/	Science	Year: III	Semester: VI Paper-III
		Subject: Geography		
Course Code	e: GEOG603P	Course Title: Basics of Remote Sensing	and GIS	
Course Outco	omes:			
1. Understand	d the meaning a	and importance of Remote Sensing and G	IS.	
2. Learn to ma	ap making by u	sing RS and GIS.		
Credits: 2	E3 48		Core Compulsory	
Max. Marks:	25+75		Min. Passing Marks:	
Total No. of I	Lectures-Tutori	als-Practical (in hours per week): L-T-P:	: 0-0-2	
Unit		Topic		No. of Lectures
Unit I	Remote Ser	sing: Components of Remote Sensing nsing; Image Processing Techniques a: Supervised and Unsupervised.		
Unit II	GIS: Geographic Data Types; Spatial and Non-Spatial Data; Raster and Vector Data, Linkages and Matching, Principal Functions of GIS; Data Capture; Geographic Analysis; Scanning System; Data Conversion, Data Base Management System (DBMS), Data Base and Spatial Data Management; Geo-Relational Data Model; Topological Data Structure; Attribute Data Management; Relational Database-Concepts & Model, Digital Elevation Model (DEM): Process, Derivatives and applications.			a e -
Unit III	Geo-Reference Point, Line,	cing and Its Importance. Spatial Data Int Polygon. Map Design or Layout, Map p in Various Formats.		
Unit IV	USGS, GLCI	and its type. Downloading Sources of Sat F Etc.). Download Process Satellite Image m open sources.		
Unit V	Softwares. G	(Including Open-Source Softwares). Crea eo-Referencing and Digitization in GIS ulation of Fields and Attribute Data.		

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

 Chaunial, D. D. (2004): Remote Sensing and Geographical Information System (in Hindi), Sharda Pustak Bhawan, Allahabad

3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.

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

- 5. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
- 6. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Freeman, New York.
- Gautam, N.C. and Raghavswamy, V. (2004). Land Use/ Land Cover and Management Practices in India. B.S. Publication., Hyderabad.
- 8. Jensen, J.R. (2004): Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall. Englewood Cliffs, New Jersey. Indian reprint available.
- 9. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
- 10. Nag, P. (ed.) (1992): Thematic Cartography and Remote Sensing. Concept Publishing Company, New Delhi.
- 11. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.
- 12. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and Francis, London.

Suggested Online Link:

Suggested equivalent online courses:

Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/aic20_ge05/preview

This course can be opted as an elective by the students of following subjects: Open to all Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:

		DEGREE IN ARTS/SCIENCE	E	
Programme: Deg	gree in Arts/	Science	Year: III	Semester: VI Paper-IV
		Subject: Geography		
Course Code: C	GEOG604R	Course Title: Survey/ Research Project-2		
Course Outcome	s:			
1. Implementation	n of Resear	ch Methodology.		
2. Field Survey as	nd Data col	lection and Data Analysis.		
3. Report Writing	7.			
Credits: 4			Core Compulsory	
Max. Marks: 100	0		Min. Passing Marks:	
Total No. of Lect	tures-Tutor	ials-Practical (in hours per week): L-T-P: 0-	0-4	
Unit		Topic		No. of Lectures

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Unit I	Project should be based on problem oriented research using quantitative techniques and appropriate graphical representation of Data.	60
Note	 Each faculty member shall teach and guide to his/her Group of students independently. Student shall choose supervisor according his/her research interest and specialisation of Faculty member. 	#1008

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): N.A.

Course Prerequisites:



CHAMAN LAL MAHAVIDHYALAYA, LANDHAURA, MANGLAUR ROAD, HARIDWAR.(AUTONOMOUS)

AFFILIATED

SRI DEV SUMAN UTTARAKHAND UNIVERSITY, BADSHAHITHAUL, TEHRI GARHWAL,UTTARAKHAND



STRUCTURE OF VOCATIONAL (SKILL ENHANCEMENT) COURSE IN DISASTER MANAGEMENT GEOGRAPHY -SYLLABUS 2024-2025

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CHAMAN LAL MAHAVIDHYALAYA, LANDHAURA MANGLAUR ROAD, HARIDWAR (AUTONOMUS)

AFFILIATED

SRI DEV SUMAN UTTARAKHAND, BADSHAHITHAUL, TEHRI GARHWAL, UTTARAKHAND

List of Members of Board of Studies

(Department of Geography)

S. N.	Name of the Members	Designation	Nominated As	Signature
1.	Dr. Naveen Kumar	Assistant Professor Department of Geography Chaman Lal Mahavidhyalya (Landhaura)	Chairman	
2.	Prof. Naresh Kumar	Professor Department Of Geography Meerut College (Meerut)	Member	
3.	Prof. Shyam Singh	Professor Department of Geography Hindu College (Moradabad)	Member	De la companya della companya della companya de la companya della
4.	Shri Neeraj Kush	Advocate	Member	
5.	Km. Nidhi	Alumnus	Member	@ંત્રીખે

Vocational Course Syllabus NEP Under Graduate Programme Disaster Management (Incremental Mode)

(For Under Graduate Students to opt it in first four semester)

Year	Sem	Course/Paper	Credit	Total Credits
First	1	GEO-Skill 101 Disaster Management -I Course Title: Disaster Management: An Introduction to Disaster & Hazards	3'	
First	II	GEO-Skill 102 Disaster Management –II Course Title: Disaster Management: Understanding Natural Disaster	3	¥
Second	Ш	GEO-Skill 103 Disaster Management –III Course Title: Disaster Management: Stages of Disaster Management	3	
Second	IV	GEO-Skill 104 Disaster Management –IV Course Title: Disaster Management: Planning, Policy & Management	3	12

Every U G Student has to choose one Vocational (Skill Enhancement) Course in First four semester

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Vocational Course Syllabus NEP Under Graduate Programme

Disaster Management (Incremental Mode)

First Semester

Programme	e: Under Graduate Arts/Science/Commerce Year: I	Semester: I Paper-I
y ocationar.	Subject: Disaster Management(Incre	mental Mode) Geography
Course Cod	le: GEOG SKILL101	Course Title: Disaster Management: An Introduction to Disaster & Hazards
consequenc disasters of	tcome: will develop the skill of understanding about nees aswell as preparedness. It will also give an effective that the development of the contraction of the contr	Max Marks: 25 Internal Assessmen
Credits: 03 Unit	Course Content	(IS10+P/S10+P5) 75 Term End Exam No. of Lectures
Unit – I	Meaning, Concept and Significance of Disas Hazards, Vulnerability and Resilience.	ters, 10
Uni t – II	Natural and human induced Causes of Disas	ter 10
Unit – III	Risk and Vulnerabilities analyses of disaster	TS 10
	Global, National and local Scenario of Disa	ster 15

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Vocational Course Syllabus NEP Under Graduate Programme

Disaster Management (Incremental Mode)

Second Semester

	ogramme: Under Graduate ional Arts/Science/Commerce	Year: I	Semester:II Paper II
1	Subject: Disaster Manager		
Course Co	de: GEOG SKILL102	ourse Title: Disaster Management: nderstanding Natural Disaster	
Course Ou This course aware rega	itcome: will develop the skill of understanding rding various types of disasters and th	ng about natural ca eir impacts on na	alamities and disasters and, shall make tural landscape and society.
Credits: 03			(IS10+P/S10+P5) 75 Term End Exam.
Unit	Course Content		No. of Lectures
Unit – I	Various types of disasters; Natural Earthquake, Cyclone, Drought Lands eruption		10
Uni t – II	Natural Disasters- Avalanches, Clo Tsunami, Storm	ud burst, Cyclone	, 10
Unit – III	Extreme heat, Cold waves, Climate of warming, Sea level rise	change, Global	10
Unit – IV	Human Induced Disaster: Nuclear, Biological Disaster, Building fire, Fo oil fire, Water, Air and Industrial Po Air & Sea Accidents and Epidemic,	orest fire, Coal and Ilution, Road, Rai	

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Third Semester

Pro Vocati	Programme: Under Graduate Vocational Arts/Science/Commerce		: II	Semester: III Paper III				
	Subject: Disaster Management (Incremental Mode) Geography							
Course C	ode: GEOG SKILL103	Course Title: Disaster Management: Stages of Disaster Management						
Course O This cours	utcome: se will develop the skill of understan re regarding various aspects of its m	ding about natu						
Credits: 0		Max. Marks: 25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.						
Unit	Course Content		No. of Lectu	res				
Unit – I	Management of Disasters: Disaster and Prevention	s Preparedness	10					
Unit – II	Disasters- Mitigation ,Response and	Recovery	10					
Unit – III	Role of Central, state, District and I Disaster Risk Reduction	Local Bodies in	10					
Unit – IV	Field Work: Field study of a disaste disastrous area and its impact anal		15					

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Fourth Semester

Programme: Under Graduate Vocational Arts/Science/Commerce		Year		Semester: IV Paper- IV
	Subject: Disaster Management			
Course Co	de: GEOG SKILL103	Course Title: Disaster Management: Planning, Policy & Management		
Course Ou This course	tcome: will develop the skill of understanding management.	about Manag		
Credits: 03		Max. Marks: 25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.		
Unit	Course Content		No. of Lectu	res
Unit - I	Disaster Mapping. Use of GIS and Rer	note Sensing	10	
	techniques			
	Disaster Management Act and Policy			
Uni t – II	Search, Rescue, Evacuation and Logis	10		
	Management,			
	Relief (water, food, sanitation, shelter, waste management),	health and		
Unit – III	Long and Short Term Counter Disaste	10		
	4 page note shall be prepared by the st			
	Long and Short Term Counter Disaste			
	any specific disaster.			
Unit – IV	Damage assessment, Rehabilitation,	15		
UIII - IV	Reconstruction.			
	Reconstruction.			
	9 ·			

Suggested Reading:

Bhargava, Gopal (1992): Environmental Challenges and Ecological Disaster, Mittal Publication, New Delhi

Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Pub. New Delhi,

Muhammad Z Mamun and A T M Nurul Amin, Densification: A Strategic Plan to Mitigate River bank Erosion Disaster in Bangladesh, The University Press Limited (UPL), 1999 .

Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi.

Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New DelhiGovernment of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.

Feilden, B. 1987,

"Between Two Earthquakes; Cultural Property in Seismic Zones", ICCROM and Getty Conservation Institute, Online Bibliography for Museum Emergency Programme; http://gcibibs.getty.edu/asp/ accessed on 25 August 2008

Stovel, H. 1998, ICCROM "Risk Preparedness: A Management Manual for World Cultural Heritage", Rome,

Jigyasu, R. & Masuda, K. 2005, "Proceedings; Cultural Heritage Risk Management", World Conference on Disaster Reduction Kyoto; Research Center for Disaster Mitigation of Urban Cultural Heritage, Ritsumeikan; Kyoto, Japan

Menegazzi, C. 2004,

"Cultural Heritage Disaster Preparedness and Response", Proceedings of the International Symposium held atSalar Jung Museum, Hyderabad, India, 23-27 November 2003, ICOM Paris http://icom.museum/disaster_preparedness_book/copyright.pdf accessed on 15 August 2008

Spenneman, D. & Look, D. (eds.) 1998, "Disaster Management Programs for Historic Sites",

US National Park Service, Western Chapter of the Association of Preservation Technology, California and the Johnstone Centre, Charles Sturt University, Albery, Proceedings of a Symposium organized by the U.S. NationalPark Service, Western Regional Office, San Francisco, in collaboration with the Western Chapter of the Association for Preservation Technology, and held on 27-29 June, 1997 in San Francisco

UNESCO-WHC 1983,

"Desirability of adopting an international instrument on the Protection

of the cultural heritage against natural disasters and their consequences", Report of the Director General; http://unesdoc.unesco.org/images/0005/000560/056088eo.pdf accessed on 15 August 2008

UNESCO-WHC 2008,

"Policy Document on the Impacts of Climate Change on World

Heritage Properties", UNESCO Paris document/ "Case Studies on Climate Change and World Heritage", 2007, UNESCO: Paris http://unesdoc.unesco.org/images/0015/001506/150600e.pdf

Michalski S. 2004,

"Care and Preservation of Collections", in Running a Museum, A Practical Handbook (ed. P. Boylan), ICOM, Paris. p. 51 - 91

Waller R. 2003,

Canadian Museum of Nature", Gutenberg Studies in Conservation 13, Gutenberg Act UniversitatisGothoburgensi

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SUBJECT: GEOGRAPHY UNDER GRADUATE SYALLABUS FOR MINOR ELECTIVE COURSE 2024-2025



		ELI	ECTIVE	E COU	JRSE IN	ARTS/SC	IENCE		
Programme: 1							Semester: 1 Paper-III		
		,	Subject	t: Geog	graphy				
Course Code	:: GEOGME103	Course	Title: A	pplied	Geomo	rphology			
Course Outco	mes:								
1. To understa	nd the impact of la	andforms	on vari	ious sph	heres of	human life.			
2. To analyse t	he role of human b	being in n	mitigatir	ng the g	geomorp	hic hazards.			
3. The applied involved w environment	geomorphologica ith hazards, lan- tal change.	al knowle nd-use pl	edge is lanning,	useful , natur	to scien	ntists, engin ources, envi	eers, consultaironmental r	ants, and d nanagemer	ecision-maker nt, and globa
Credits: 4							Minor Elect	ive	
Max. Marks:	Max. Marks: 25+75 Min. Passing Marks:								
Total No. of I	Lectures-Tutorials	ls-Practic	al (in h	ours p	er week): 4-0-0			
Unit		Topic							No. of Lectures
Unit I	Introduction : De	efinition,	Nature a	and sco	ope of A	oplied Geom	orphology		10
Unit II	nit II Geomorphic Hazards and Mitigation Measures: Landslides Flash Floods and Flood Hazards, Avalanches, Earthquakes and Tsunamis, Volcanic Eruptions.					15			
Unit III	Geomorphology in Civil Engineering: Dam Construction, Road construction, Site selection for the construction of Airport						15		
Unit IV	Geomorphology Soil and Geomor management.	and Natu orphology;	ıral Reso	ources:	Geomo of Geomo	phology and orphology in	Groundwater agriculture ar	Studies; nd resource	20

- 1. Coats, D.R. (1981. edt.). Geomorphology and Engineering, George Allen and Unwin, London.
- 2. Cooke, R.U. and J.C. Doornkamp (1974): Geomorphology in Environmental Management, Oxford University Press.
- 3. Hart, M.G. (1986): Geomorphology: Pure and Applied, George Allen and Unwin, London.
- 4. Gares, P.A, D.J. Sherman, and K.F. Nordstrom. 1994. Geomorphology and natural hazards. Geomorphology 10: 1-18.
- 5. Panizza, M. 1987. Geomorphological hazard assessment and the analysis of geomorphological risk. In V. Gardiner (ed.), International Geomorphology 1986, pp. 225-229. Part I. New York: Wiley.
- 6. Slaymaker, O. 1996. Introduction. In: Slaymaker, O. (Ed.), Geomorphic Hazards. Wiley, Chichester, pp. 1-7.
- 7. Craig, R.G. and Craft, J.L. 1982 Applied Geomorphology Allen & Unwin, London

- 8. Verstappen, H. Th. 1983 Applied Geomorphology: Geomorphological Surveys for Environmental Development Elsevier, Amsterdam
- 9. Cooke, R.U. and Doornkamp, J.C. 1974 Geomorphology in Environmental Management ,Oxford University Press, Oxford
- 10. Singh, S. 1998: Geomorphology, (Hindi and English Editions), Prayag Publications, Allahabad.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites:

		Like Control				
Programme: Elective Course in Arts/Science Year:					Semester: II Paper-III	
		Subject:	Geography		11	Taper
Course Coo	de:GEOGME303	Course Title: S	ocial and Cultura	Diversity in Uttarakhan	nd	
Course Outc	omes:	200				
. To underst	and the physical a	nd cultural divers	ity within the state.			
				ocio-Cultural diversity of	the state	
. To identify	the impact of phy	sical diversity in	determining the Sc	ocio-Cultural diversity of t	me state	
Credits: 4 Minor Elective					2	
A supervision of the second of					Aorke	
Max. Marks: 25+75 Min. Passing Marks:						
otal No. of	Lectures-Tutoria	ls-Practical (in h	ours per week): 4			
Otal No. of Unit		ls-Practical (in h Topic	ours per week): 4			No. of Lectures
	Fundamental B	Topic ase: Location and		-0-0 Physiography; Climate and		
Unit	Fundamental B	Topic ase: Location and n; Demographic	Extent; Geology; 1	-0-0 Physiography; Climate and		Lectures
Unit Unit I	Fundamental B Drainage Syster Socio-cultural F Ethnic/tribal Gro	Topic ase: Location and n; Demographic Milieu: bups and their Spa	Extent; Geology; land Socio-cultural	-0-0 Physiography; Climate and	d	Lectures 10
Unit Unit I	Fundamental B Drainage Syster Socio-cultural F Ethnic/tribal Gro	Topic ase: Location and n; Demographic Milieu:	Extent; Geology; land Socio-cultural	Physiography; Climate and Characteristics.	d	Lectures 10
Unit Unit I	Fundamental B Drainage Syster Socio-cultural M Ethnic/tribal Gro and Dialects, Se Socio-cultural I	Topic ase: Location and n; Demographic Milieu: pups and their Spattlements: Types Diversity:	Extent; Geology; land Socio-cultural atial Distribution, Fand Patterns.	Physiography; Climate and Characteristics. Fairs, Festivals and Langu	d	Lectures 10
Unit I Unit II	Fundamental B Drainage Syster Socio-cultural M Ethnic/tribal Gro and Dialects, Se Socio-cultural I Components of	ase: Location and m; Demographic Milieu: pups and their Spattlements: Types Diversity: social diversity; to	Extent; Geology; I and Socio-cultural atial Distribution, F and Patterns.	Physiography; Climate and Characteristics.	d nages	Lectures 10

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18

		15
Unit IV	Regional perspectives:	13
	Socio-cultural diversity in the tribal groups of mountains and foothills; Changing	
	cultural adaptations.	
	cultural adaptations.	

- 1. Singh O.P. (ed.). (1983): The Himalaya: Nature, Man and Culture
- 2. Joshi, S.C. (2001): Uttaranchal: Environment & Development
- 3. Planning Commission (1981): Report on Development of Tribal Areas, Government of India.
- 4. Srivastava, S.K.(1958): The Tharus, A study of Culture Dynamics, Agra
- 5. Walton, H.G. (1921) British Garhwal: A Gazetteer, Vol. xxxvi, District Gazetteer of the United Provinces of Agra and Awadh, Allahabaad
- 6. Singh, L.R. (1965): The Tarai Region of U.P., Allahabad
- 7. Guha, B.S.: Racial Elements in India's Population.

Suggested Online Link:

Suggested equivalent online courses:

This course can be opted as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): Assignment / Test / Quiz (MCQ) / Seminar/ Presentations

Course Prerequisites: