DEPARTMENT OF GEOGRAPHY

BA 1st Year, Sem. I , Course I(Theory)

Session: 2021-22

Programme/Class: Certificate/ BA/BSc.	Year: First		Semester: First
Name of Faculty: Dr. Sangita Chaudhay			Subject: Geography
Course Code: A110101T	Course Title: Physical Geography		
Credits: 4		Core Compulsory	
Max. Marks: 25+75			Min. Passing Marks: 40

Course outcomes: Students will be able to understand

- The Earth geomorphic transition from beginning to present day.
- Plate tectonics and related movements
- Landforms carved by various agents of erosion
- Earth's climate and that factors that influence it
- Oceans system and biogeography of the world.

Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w

Unit	Topics	No. of Lectures
I	Nature and Scope of Physical Geography, Origin of Universe, solar system and Earth (Big Bang Theory and Indian Concepts). Geological Time Scale (with special reference to evidences from India), Interior of the Earth.	8
II	Origin of Continents and Oceans, Isostacy, Earthquakes and Volcanoes, Geosynclines, Continental Drift theory, Concept of Plate Tectonics.	8
III	Rocks, Folding, Faulting, Weathering, Erosion, Cycle of Erosion by Davis and Penck, Drainage Pattern.	8
IV	Fluvial, Karst, Aeolian, Glacial, and Coastal Landforms	8
V	Composition and Structure of atmosphere: Insolation, Atmospheric pressure and winds.	8
VI	Airmasses and Fronts, cyclones and anti-cyclones, Humidity, precipitation and rainfall types.	7
VII	Ocean Bottoms, composition of marine water-temperature and salinity. Circulation of Ocean water Waves, Currents and Tides, Ocean deposits, Corals reefs and it's type.	7
VIII	Biosphere: Meaning and Concept, components Of Biosphere, concept Of Biotic succession, Biome: Tropical evergreen	6

rainforest biome, Savanna biome, Temperate grassland biome, Tundra biome, Hot desert and semi desert biome.

Suggested Readings:

- 1. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: PrayagPustak
- 2. Huggett, R.J. (2007): Fundamentals of Geomorphology. New York, U.S.A.: Routledge.
- 3. Khullar, D.R. (2012). *Physical Geography*. New Delhi. India: Kalyani Publishers.
- 4. Strahler, A. H. and Strahler, A N. (2001): *Modern Physical Geography* (4/E). New York, U.S.A.: John Wiley and Sons, Inc.
- 5. Thornbury, W. D. (2004): Principal of Geomorphology. New York, U.S.A.: Wiley.
- 6. Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, New Delhi, India: Prentice-Hall of India
- 7. Dr. Alka Gautam: Bhautik Bhugol, Rastogi Publication, Meerut
- 8. Majid Husain: Bhautik Bhugol, Rawat Publication, New Delhi

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

Suggested Continuous Evaluation Methods:

Assignment / Test / Quiz(MCQ) / Seminar/ Presentations

Suggested equivalent online courses: https://onlinecourses.swayam2.ac.in/cec21 https://onlinecourses.swayam2.ac.in/nos20_sc25/preview

DEPARTMENT OF GEOGRAPHY

BA 1st Year, Sem. I Course II (Practical)

Session: 2021-22

	gram/Class: cate/BA/BSc.	V Agr. Hiret		Semeste	r: First
Name of Faculty: Dr. Deepshikha Sharma Ms.Gitanjali Chauchan Subject		Subject: Geography			
Course Code: A110102P Course Title: Elements of Map and Surve				ırveying	
On complet	Course Learning Outcomes On completion of this course, learners will be able to: • Understand the basic idea of Map, Scale and Topographic sheets				
	Credits: 2			Core Compuls	ory
	Max. Marks: -2	25+75		Min. Passing Ma	rks:40
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w					2/w
Unit	Topics			No. ofLectures	
Cartography: Nature and Scope. I Scales—Concept and application; Graphical Construction of Plain, Comparative, Diagonal Scales and Vernier scale.					
I	Scales-Concept	and application; Gi			7
I	Scales—Concept Comparative, D Map Projections Construction of Projection, Bon	and application; Gragonal Scales and Scales	Vernier s roperties I, Cylin s Project	and Uses; Graphical adrical Equal Area ions, and reference to	7
	Scales—Concept Comparative, D Map Projections Construction of Projection, Bond Universal Trans Topographical Interpretation S	and application; Grand application; Grand Scales and Verse Classification, Proof Polar Zenithal ne's and Mercator's verse Mercator (UT Map: Coverage,	Vernier s roperties I, Cylin s Project M) Project Scale oposhee	and Uses; Graphical adrical Equal Area ions, and reference to	·

Suggested Readings:

- 1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
- 2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.
- 3. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.
- 4. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition.
- 5. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,.
- 6. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.

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

Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam, Viva, Practical File, Map Preparation, Topo sheet interpretation.

DEPARTMENT OF GEOGRAPHY BA 1st Year,Sem. II Course I(Theory) Session: 2021-22

	Program/Class: Year: Fir		rst	Semes	ster: Second	
Name of Faculty: Dr, Sangita Chaudhary			,	Subject: Geography		
Course Co	de:A110201T	Co	ourse Title	: Human Geogr	aphy	
On completio To unc To unc	Course Learning Outcomes On completion of this course, learners will be able to: To understand the Concept, Nature, Meaning and Scope of Human Geography To understand the natural and Cultural Changes in and around the Human Environs and their interrelationship.					
	Credits: 4	ļ		Core Comp	oulsory	
	Max. Marks: -2	25+75		Min. Passing	Marks:40	
-	Total No. of Led	ctures-Tutorials-P	ractical (in	hours per week): L- 4/w	
Unit		Topics			No. of Lectures	
I	Concept and Nature, Meaning and Scope of Human Geography.Development of Geographical understanding in India with special reference to Puranas. 7				7	
II	Man and Environment relationship- Determinism, Possibilism, and Neo-determinism				7	
III	Population- Distribution and pattern, global migration - causes and consequences, concept of over population and under population.			7		
IV	Human Settlements: Origin, types and pattern (Rural-Urban) characteristics, House types and their 7 distribution with special reference to India.			7		
V	Primitive Economies-Food gathering, Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture.			8		
VI	Cultural Regions, Race, Religion and Language, Cultural Diffusion.			8		
VII	World Tribes Semang, Pyg	s: Eskimos, Kirg mies.	hiz, Bush	man, Masai,	8	
VIII		: Bhotias, Gaddi	s, Tharus,	, Bhil, Gond,	8	

Suggested Readings:

- 1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.
- 2. B N Singh (2019) Manav Bhugol ka Swaroop, Pravalika Publication, Allahabad
- 3. de Blij, H.J.(1996): Human Geography: Culture, Society and Space,. 2nd edition. John Wiley and Sons, New York,
- 4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York.
- 5. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur.
- 6. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad
- 7. Kaushik, S.D. and Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Publication, Meerut.
- 8. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed.
- 9. Singh, K. N. and Singh, J. (2001): Manav Bhugol. Gyanodaya Prakashan, Gorakhpur. 2nd edition.
- 10. Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad
- 11. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd., London
- 12. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, New Jersey.
- 13. B N Singh (2020) Samajik aur Sanskritik Bhugol, Pravalika Publication, Allahabad 14. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography.5th edition, Basil Blackwell Publishers, Oxford.
- 15. Ali, S. Muzafer (1966). Geography of the Puranas. New Delhi, People's Pub. House.
- 16. Dr. Chaturbhuj Mamoria, Manav Bhugol, Sahitya Publication
- 17. Majid Husain: Manav Bhugol, Rawat Publication, New Delhi

Suggested Continuous Evaluation Methods:

Assignment / Test / Quiz(MCQ) / Seminar/ Presentations

Course prerequisites: 12th Standard Pass/Open to all

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.swayam2.ac.in/nou20_hs18/preview

DEPARTMENT OF GEOGRAPHY

BA 1stYear,Sem. II Course II(Practical)

Session: 2021-22

	am/Class: ate/BA/BSc	Year: First		Semes	ster: Second
Name of Faculty: : Dr. Deepshikha Sharma Ms.Gitanjali Chauchan				Subject: Ge	ography
Course Co	de:A110202P	Course Tit	tle: Thema	itic Mapping an	d Surveying
Course Learning Outcomes On completion of this course, learners will be able to: • Understand the basic idea of Map, Scale and Topographic sheets					
Credits: 2 Core Co			Core Comp	oulsory	
Max. Marks: -25+75			Min. Passing Marks:40		
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w): P-2/w
Unit	Topics No. of Lectures			No. of Lectures	
I	 Maps – Classification and Types, Principles of Map Design. Diagrammatic Data Presentation – Line, Bar and Circle. 			7	
II	Thematic Mapping Techniques – Properties, Uses			7	

Suggested Readings:

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IV

Program/Class:

1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London

Cartographic Overlays - Point, Line and Areal Data.

Thematic Maps – Preparation and Interpretation.

Instrumental Survey: Prismatic Compass

- 2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.
- 3. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition.
- 4. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,.
- 5. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
- 6. Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooprekha, Rastogi Publications-Meerut.

Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam, Viva, Practical File, Map Preparation.

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DEPARTMENT OF GEOGRAPHY BA 2nd Year

Course I(Theory)

Prog	gramme / Class: BA	Yea	r Second		Session:2021-22
Name of	f Faculty: Dr. Deepshik Ms Anupriya	ha Sharma Sharma(R.S.)			Subject: Geography
	Course Code: A211	Course Title: Economic Geography			conomic Geography
	Core Compulsory	7			
	Max. Marks: 3	35			Min. Passing Marks: 15
Course o	utcomes: Students will	l be able to un	derstand		
CorAss	the end the course stude nservation methods and a sessment of role of varia	wareness abou	t economi	c partici	pation.
UNIT	Course Contents				
I	Nature, Scope and development of Economic Geography .Major concepts – Economic landscape, Stages of economic development, typology of economic activities (Primary, secondary, tertiary quaternary) Resourceconcept and classification.				
II	Soil and major soil types; Forest types and their products; Agricultural Land use and Locational theory by Von Thunen; Distribution, production and international trade of principal crops-rice, wheat, sugarcane, cotton, tea, coffee and rubber, Agricultural regions of the world by Whittlesey.				n, production and international
III	Nature of Occurrence Maganese, Bauxite,	e, distribution, Copper, Mica	producti and Gold	on and d (in ma	Areas, their production and trade. trade of minerals-iron ore, ajor producing countries) oal, petroleum, hydroelectricity
IV	Loctational factors of Industries and their relative significance, Webers theory of Industrial location. Types of industries, Location patterns and development trends of Manufacturing industries-Iron and steel, Textiles, Sugar and Paper, Major Industrial regions of U.S.A. U.K. and Japan.			atterns and development trends of	
V	and Sea routes troug	h Panama an organizations	nd Suez C and trad	Canals,	ental railways, International Air Changing pattern of international ss- SAARC, ASEAN and OPEC-

Books Recommended:

- _ Allexander, J.W. , Economic Geography
- Robinson, A.H. jones, C.F. and Darkenwarld G.G. Principles of Economic Geography.
- _ Boesh, Hans, A Geography of World Economy.

- Bengston and Reyen, Fundamentals of Economic Geography.
 Zimmerman, E.W. Introduction to World Resources.
 Chisholm, M., Modern World Development- A Geographical Perspective

DEPARTMENT OF GEOGRAPHY BA 2nd Year

Course II(Theory)

Programme / Class: BA	Year: Second Session: 2021-22		Session: 2021-22
Name of Faculty: Dr. Deepshikha Sharma Ms Anupriya Sharma(R.S.)			Subject: Geography
Course Code: A212	Course Title: Geography of India		
			Core Compulsory
Max. Marks: 35			Min. Passing Marks: 15
			·

Course outcomes: Students will be able to understand

- Students would gain understanding of 'new' geography of their country.
- The spatial variations of dimensions of vitality and vulnerability would help them see the strength and weakness of the country.
- The course would help students to contextualize much of their further learnings, teaching and research on India within the contents of this course.

an	d research of mala within the contents of this course.
UNIT	Course Contents
I	India in the context of Asia and the world: Structure, Relief and Drainage System; Major Physiographic regions of India; The Indian Monsoon-origin and characterstics, effect of El Nino and La Nina. Climatic divisions; Soil types and conservation
II	Forest resources-their utilization and conservation; Power resources (Water, Coal, Mineral oil and Atomic) and Mineral resources (Iron ore, Bauxite, Mica, Manganese) their reserve, distribution, production, trade and conservation. Major River Valley Projects; Tehri Dam & Narmada Valley.
III	Indian Economy: Agriculture - main characteristic and problems of Indian agriculture; Irrigation, mechanization and Green Revolution; post revolution scenario-recent trends; Major Agricultural regions. Industries - Locational factors; development and spatial pattern of major industries (Iron and Steel, Textiles, Cement, Sugar, Paper, Oil Refinery and Fertilizers) Major Industrial regions/complexes of India
IV	Population-growth, distribution and density, demographic and occupational structure, Literacy, Urbanization with special reference to post-Independence period, Population problems. Transport and Trade- Development of Transport Net-work, railway zones, road development and air routes; Foreign trade-salient features, recent trends and trade direction, Major ports.
V	Regional development & disparities after independence; Major issues and planning of some problem areas-Flood prone areas, Drought prone areas and Tribal areas

. Books Recommended:

- _ Spate, O.H.K. & Learmonth A.T.A. India and Pakistan
- _ Singh R.L. (ed), India-A Regional Geography.
- _ Sen Gupta, P., Economic Regions and Regionalization of India.
- _ Mitra Ashok, Levels of Economic Development of India.
- _ Singh, J., India-A Comprehensive Systematic Geography.
- _ Sharma, T.C. & Countino, O., Economic Geography of India.
- _ Verma, R.V. Geography of India (Hindi)
- _ Bansal, S.C., Geography of India (Hindi)
- _ Gopal Singh, Geography of India
- _ Ramamurti, Geography of India Systematic.
- _ Tiwari, R.C., Geography of India
- _ Majid Hussain: Geography of India.
- _ Khullar: Geography of India.

DEPARTMENT OF GEOGRAPHY BA 2nd Year

Course III(Practical)

	000100 111(110001001)		
Programme / Class: BA	Year: Second		Session: 2021-22
Name of Faculty: Mrs. Gitanjali Chauhan Ms. Rashika Yadav		Subject: Geography	
Course Code: A811	Course Title: Statistical analysis, Weather Maps and Geological Map		
			Core Compulsory
Max. Marks: 30			Min. Passing Marks: 10
Course outcomes: Students wil	l be able to understand		

- Understand the basic idea of Map, Scale and Topographic sheets
- The students will learn various statistical skills.
- The students will know how the statistical theories and functions will be applied in geography.
- The students will learn about the significance test to strengthen their argument with facts and represent data.

UNIT	Course Contents
	(A) Lab Work
I	Statistical Analysis (i) Measures of Central Tendency and their geographical applications- Mean, Median, Mode. Measures of Dispersion-Quartile and Standard Deviation, Variance, Co-efficient of Correlation. (ii) Graphical Representation of Statistical Data-Histogram,
	Polygon, Frequency Curve, Scatter Diagram.
II	Cartographic Representation of Statistical Data (i) Graphs: Band graph, Hythergraph, Climograph. (ii) Diagrams: Compound Bar, Wheel, Rectangle, Circle. (iii) Distribution Maps: Using Dots, Isopleth and Choropleth methods.
III	Weather Maps Use of weather instruments and weather symbols (Indian) Study and Interpretation of Indian daily Weather maps/reports specially of January, March, July and October, Weather forecasting.
IV	Geological Maps Identification of rock types, bedding planes, Drawing of cross-section and determination of dip and bed thicknesssimple and folded.
	(B) Viva-Voce & Sessional Records
	DIVISION OF MARKS: (A) Lab Work: One question from each unit with internal choice, Duration three hours -40 (B) Viva-Voce & Sessional Records – 10

Books Recommended:

- _ Monkhouse, F.J. : Maps & Diagrams.
- _ Robinson, A.H : Elements of Cartography.
- _ Gregory, S., Statistical Method and the Geographer.
- _ Smith, H.T.V. Aerial Photographs and their Applications.
- _ Singh, R.L., Elements of Practical Geography.
- Sing, L.R. & Singh, R.N. Map work and practical Geography (Eng./Hindi)
 Sharma, J.P. Prayogatmak Bhoogol Ki Rooprekha (Hindi).
- _ Hira Lal, Prayogatmak Bhoogol Ke Adhar (Hindi)
- _ Singh, J. et. al Bhaumikiya manchitro ki Rooprekha (Hindi)
- _ Lal, Hira, Matratmak Bhoogol (Hindi)
- _ Tiwari, R.C. and Tiwari, Sudha, Abhinav Prayogic Bhoogol.

<u>DEPARTMENT OF GEOGRAPHY</u> <u>BA 3rd Year</u>

BA 3rd Year Course I (Theory)

Programme/Class: BA	Year: Third Session: 2021-22		Session: 2021-22
Name of Faculty: Dr. Sushma Gaur		Subject: Geography	
Course Code: AB511	Course Title: Environmental Studies		
		Core Compulsory	
Max. Marks: 35			Min. Passing Marks: 15

Course outcomes: Students will be able to understand

- The course aim is to give basic understanding of concept Environment, Climate Change and Disaster Management.
- Understanding of the concept of appraisal and conservation of Environment and Natural Resources.
- It will help in developing understanding about various Impacts of Climate Change.
- This course shall introduce the basic concepts related to disaster Management.
- This paper shall help in understanding Global effort in field of disaster management.

Units	Topics
Unit-I	Geography as a study of Environment; Concepts & components of environment; Development of environmental studies; Approaches to environmental studies; Concept of ecology and ecosystem. Man-Environment relationship, Agricultural and Industrial Practices, Science, Technology and Environment.
Unit-II	The problems and causes of environmental degradation, Deforestation, soil erosion, Desertification, Air pollution, water pollution, Disposal of solid wastes.
Unit-III	Environmental management: Environmental Education; Preservation of Ecological Balance at Local, Regional and National Level; Major Environmental Policies and Programmes.
Unit-IV	Sample studies in environmental context – Ganga Action Plan, Tiger Project, Tehri Dam & Narmada Valley Project.
Unit-V	Emerging environmental issues: Population explosion, Food security, Global warming; Bio-diversity and its conservation; sustainable development

Books Recommended:

- _ Jagadish Singh, Vatavaran Niyajan Aur Samvikas.
- _ P. S. Negi, Eco-Development and Environmental Geography (Hindi).
- _ G. P. Yadav & Ram Suresh, Paryavaran Adhyayan.
- _ V. K. Srivastava, Environmental and Ecology (Hindi).
- _ Griffith Taylor, Environmental Race and Migration.
- _ Sharma, H. S. and Chattopadhyay, S. K.: Sustainable Developments Concepts and Issues, Concept, New Delhi 2000.
- _ Reid, D.: Sustainable Development, Earthscan, Pub., London, 1995.

DEPARTMENT OF GEOGRAPHY

BA 3rd Year Course II (Theory)

Programme / Class: BA	Year: Third		Session: 2021-22	
Name of Faculty: Dr.	. Sushma Gaur		Subject: Geography	
Course Code: AB 513	Course Title	Course Title: Regional study of South East Asia		
		Core Compulsory		
Max. Marks: 35		Min. Passing Marks: 15		

Course outcomes: Students will be able to understand

- The course aim is to give basic understanding of concept of Region and Regional Geography.
- It will help in developing understanding about various countries of South East Asia

(B) South East Asia

Unit-I Region as a geographical entity and as a component of global system. Basis of regionalization/ grouping of countries. Geographical, Political, Historical, Cultural etc.

Unit-II Structure, Relief, Climate and Climatic Regions, Vegetation, Irrigation Power and Mineral Resources.

Unit-III Population – distribution, growth, distribution pattern, migration; Agriculture, Industries, Trade and Transport.

Unit-IV Strategic importance of the region, Geographical background of the modern problems.

Unit-V Detailed regional study of any one Myanmar, Thailand, Malaysia, Singapore and Indonesia.

Books Recommended:

- _ Dudely Stamp: Asia.
- _ Fisher, Charles, A: South East Asia.
- _ Dobby: South East Asia.
- _ Dr. Jagdish Singh Monsoon Asia.
- _ Dr. V. K. Srivastava Asia.
- _ Vishwanath Tiwari Asia, Ka Bhulolik Swaroop.
- _ Mahesh Narain Nigam and B. L. Garg Monsoon Asia.

DEPARTMENT OF GEOGRAPHY BA 3rd Year

Course III (Practical)

Programme / Class: BA	Year: Third	Session 2021-22		
Name of Faculty: Dr. Deepshil Dr Sangita C Ms. Rashika	Chaudhary/	Subject: Geography		
Course Code: A911	(Course Title: Field Survey		
		Core Compulsory		
Max. Marks: 3	30	Min. Passing Marks: 10		
Course outcomes: Students wi about mapping, field survey				
(A) Field Work				
Unit-I Plane table Surve	table Surveying; Radiation, Intersection & Resection methods,			
two point problem	m and three point problem.			
Unit-II Surveying by Prisi	smatic Compass - open traverse and close traverse,			
Elimination of erro	or by Bowdich Method.			
Unit-III Use of Sextant ; m	neasurement of heig	ht-accessible and inaccessible		
method.				
	OR			
Indianclinometer;N	Measurementofheigh	nt-accessibleand		
inaccessible meth	od.			
(B) Field Study Report	:			
Select a village or a town or a ward of a city and prepare a report based on primary and secondary data with the help of maps and diagrams.				
(C) Viva-Voce & Sessio	•			

Division of Marks:

- (A) Field work (One exercise from each unit. Duration four hours) 10+10+5 (25)
- (B) Field Study report
- (C) Viva-Voce & Sessional Records

Books Recommended:

Singh, R.L., Elements of Practical Geography, Kalyani Pub. New Delhi.
 Khan, Z.A., Text book of practical Geography, Concept, New Delhi-1998.
 Sharma J.P.-Prayogik Bhugol.

The Geography Department may select a village or a town or a part of a city and organize field study camp of all the students under the supervision of teaching and supporting staff. Alternatively, separate localities may be allotted to single/ small batches of students separately and supervision may be made as and when required. TA & DA will be paid by the college concerned to the teaching and supporting staff members if they accompany the students during the field work.

M.A./M.Sc. Geography

Semester I

Course I (Theory) Session 2021-22

	ogram/Class: cate/M.A./MSc	Year: Fin	irst Semester: First		
Nai	me of Faculty: Dr.	Sangita Chaudhary	Su	bject: Geography	
Co	Course Code: G-1018 Course Title: Advanced Geomorpho				
Course Learning Outcomes On completion of this course, learners will be able to: • The Earth geomorphic transition from beginning to present day. • Plate tectonics and related movements • Landforms carved by various agents of erosion • Earth's climate and that factors that influence it • Oceans system and biogeography of the world.					
			W 0110.	Core Compulse	ory
	Max. Marks: - 5	50+50		Min. Passing Mar	·ks:40
	Total No. of I	ectures-Tutorials-P	ractical (in	hours per week): P-2	//W
Unit	Topics			No. OfLectures	
I	Nature and scope of Geomorphology, Recent observations on some Fundamental concepts – uniformitarianism, multicyclic and polygenetic evolution of landscapes.			12	
П		ts – epeirogenic and orogenic earth movements. Forces ility, isostasy, plate tectonics, vulcanicity.			12
III	gradation, causes massmovement, en	ogenic Processes: Concept of gradation, Agents and processes of dation, causes, types and classification of weathering, ssmovement, erosional, and depositional processes and resultant dforms and soil formation.			12
IV	of fluvial, glacial,	on models: WM Davis, Penck, LC King, dynamics Aeolian, marine, and karst processes and resulting ies in geomorphological processes			
v	1 1 1	nvironmental geom	•	norphology, urban geomorphic hazards	

Suggested Readings
Ahmed, E. (1985): Geomorphology, Kalyani Publishers, New Delhi.
Bloom, A.L. (1998/2001): Geomorphology, 3rd Edition, Prentice Hall of India, New Delhi.
Chorley, R.J., Schumm, S.A. and Sugden, D.E. (1984): Geomorphology, Methuen and
Company Ltd., London.
Chorley, R.J. (1972): Spatial Analysis in Geomorphology, Methuen, London.
Dayal, P. (1996): A Text Book of Geomorphology, Shukla Book Depot, Patna.
Dury, G.H. (1959): The Face of the Earth, Penguin Harmondsworth.
Fairbridge, R.W. (1968): Encyclopedia of Geomorphology, Reinholdts, New York.
Garner, H.F. (1974): The Origin of landscape- A Synthesis of Geomorphology, Oxford
University Press, London.
Singh, Savindra: Geomorphology (in Hindi).
This course can be opted as an elective by the students of following subjects: Open for all
Note: In Final Examination Student shall be examined by external and internal examiners.
Marks Distribution: Written Exam

M.A./M.Sc. Geography Semester I

Course II (Theory)

	ogram/Class: icate/M.A./MSc Year: I	First	Semester	: First	
Na	Name of Faculty: : Dr. Sangita Chaudhary Subject: Geography				
	Course Code: G-1019 Course Title: Natural Resources Management				
On comple 1) At 2) Co	2) Conservation methods and awareness about community participation.				
	Max. Marks: -50+50		Min. Passing Mar	ks:40	
	Total No. of Lectures-Tutorials	-Practical (in	hours per week): P-2	/w	
Unit	Topics			No. ofLectures	
I	Introduction: Concept, models and approaches to natural resource management; problems of resource utilization; population pressure, development and resource use; natural hazards and risk management			14	
II	Use and misuse of Resources: Global and Indian scenario; historical background and future prospects of various resources; soil, water, minerals, forests.				
III	Conservation and management of resources: Meaning, principles, philosophy and approaches to conservation; resource conservation and management methods.			14	
IV	Resource appraisal and policy making: appraisal of Land resources, geophysical, geochemical, geobotanical; Policy models towards better management and conservation of resources.			15	
V	Resource Development: Sustainable resource concept, methods, dimension and sustainable system; integrated resource development and its application.			15	
Suggested Readings: . Selected Readings					
_ Adams, W.M.: Green Development: Envionment and Sustainability in the Third World, Routledge and Chapman Hall, New York, 1990.					
_ Burton, I. And Kates, R.W. (1978): Readings in Resources Management and Conservation. McGraw Hill, New York Clark, G.L., Feldman, M.P. and Gertler, M.S. (eds.) (2000): The Oxford Handbook of					
Economic Geography. Oxford University Press, Oxford and New York. _ Ehrlich, P.R., Ehrlich, R.H. and Holdren, J.P. (1998): Ecoscience: Population, Resources and Development. 2nd edition. Freeman and Company, San Francisco. _ Granfelt, T.R. (1999): Management the Globalized Environment, J. & L. Composition					
Ltd, New Y			Geograpi		

Holechek, J.L. et al (2000): Natural Resources: Ecology, Economics & Policy, Prentice Hall, New Jersey.

_ Hooja, R & Joshi, R. (1994): Desert, Drought and Development, Studies and Resource Management and sustainability; Rawat Publication, Jaipur.

Kates, R.W. & Burton, I. (eds) (1986): Geography, Resources and Environment, Vol I & II, University of Chicago Press, Chicago.

This course can be opted as an elective by the students of following subjects: Open for all Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam.

M.A./M.Sc. Geography Semester I Course III (Theory)

Session 2021-22

	gram/Class: cate/M.A./MSc	Year: Fin	rst		Semester: First	
Naı	ame of Faculty: Dr.Sushma Gaur Subject: Geography					
Co	ourse Code: G-1020	Course Title: His t	tory of G	eograpl	nical Thought	
On comple 1) The geo	Ourse Learning Outcomes On completion of this course, learners will be able to: 1) The students will be able to understand and analyse the principal issues confronting historical geography.					1.
Max. Mar	ks: -50 +50			Mi	n. Passing Mar	·ks:40
	Total No. of I	_ectures-Tutorials-P	ractical (in hours	per week): P-2	2/w
Unit		Topics				No. ofLectures
I	Geography. Geog Concepts in th	ography: Meaning, graphy as a socia e philosophy of teractions, areal	l science geogra	and na	tural science. distributions,	14
II	Geography in the ancient and medieval period: Contribution of Greek and Roman Geographers- Character of Geography in medieval period- the Dark Age, the Arabic period and the Renaissance period.				1.4	
III	(Humboldt, Ritte Russian (Gerasi	he modern perion r & Ratzel), Fre mov, Lomonosov American (Rich ols.	ench (Bl r), Britis	ache a h (L.D.	nd Brunhes), Stamp and	14
IV	physical & humar Regional geograp	graphy: systemation geography. The not oncept of atlon and the region	nyth and	reality a		15
V	Contribution of Incontribution in Briafter independent	elopment of Geogradian Scholars in Gotish Period. Develoe. Expansion of Gorofessional Institu	eography opment o eograph	/. Geogr f Indian	aphical Geography	15

Suggested Readings:
_ Abler, Ronald; Adams, Jons, S. Gould, Peter, N.J. (1971): Spatial Organization: The
Geographer's View of the World, Prentice Hall, New Jersey.
_ Ali S.M. (1966): The Geography of Puranas, Peoples Publishing House, Delhi.
_ Amedeo, Douglas (1971): An Introduction to Scientific Reasoning in Geography, John
Wiley, U.S.A.
Bansal, S.C. (2010): History of Geographical thought (in Hindi).
_ Dikshit, Shreekant (2000): Bhugoolik Chintan, Udhav ke Vikas, Varanasi.
_ Dikshit, R.D. (ed.) (1994): The Art & Science of Geography Integrated Readings, Prentice
Hall of India, New Delhi.
_ Danieals, P., Bradshow, M., Shaw, D. And Sidaway, J. (2000): An Introduction to Human
Geography. Issues for the 21st Century. Prentice Hall, London.
_ Dikshit, R.D. (2004): Geographical Thought. A Critical History of Ideas. Prentice-Hall of
India, New Delhi. (in English and Hindi).
_ Harvey, D. (1969): Explanation in Geography. Arnold, London.
This course can be opted as an elective by the students of following subjects: Open for all
Note: In Final Examination Student shall be examined by external and internal examiners.
Marks Distribution: Written Exam.

M.A./M.Sc. Geography

Semester I

Course IV (Theory) Session 2021-22

		Session 20	J Z 1-Z2	4	
	ogram/Class: icate/M.A./MSc	Year: Fi	rst Semester: First		
Na	me of Faculty-Mrs.	Geetanjali Chauhan	n Subject: Geography		
	Course Code: Course Title: Advanced Geography of India (Physical & Regional) G-1021				ll & Regional)
On comple	, and the second	learners will be able			
 The and The 	spatial variations of c weakness of the cour course would help st	ntry. udents to contextuali	and vulr	of their country. erability would help them of their further learnings,	
rese	arch on India within t	the contents of this co	ourse.	Coro Compular	OPT/
				Core Compulso	
	Max. Marks: 5	0+50		Min. Passing Mar	·ks:40
	Total No. of I	_ectures-Tutorials-P	ractical	(in hours per week): P-2	/w
Unit		Topics			No. ofLectures
I	_	nrough Geological anysical Divisions of		Geology, Structure and	14
II	Unit II: Drainage System and Watersheds, Hydrology and Water Balance, Climate Characteristics, Mechanism of Indian Monsoon, Climatic Regions of India			14	
Ш	of deforestation, I		and the	Soil Erosion, Problem r Conservation, Types Regions of India	14
IV	Different Scheme bases and Comp		Region	nalisation of India, their	15
V		t to their Geology,		layas and Gangetic re, Relief, Drainage	15

Centre for Science & Environment: State of India's Environment, New Delhi, 1988.

_ Deshpande, C.D. (1992): India: A Regional Interpretation ICSSR & Northern Book

_ Ganguly, S. and Neil, DeVotta (eds.) (2003): Understanding Contemporary Ind Reinner Publishers, Boulder and London. R.G. College, Meerut

Gole, P.N. (2001): Nature Conservation and Sustainable Development in India. Rawat Publications, Jaipur and New Delhi. Khullar, D.R. (1968): India. A Comprehensive Geography. Kalyani Publishers, New Delhi, 2006. Bansal, S.C. (2011): India: An Advanced Geography of India: Meenakshi Prakashan, Meerut (in Hindi). Krishnan, M.S.: Geology of India and Burma, 4th Edition, Higgin Bothams Private Ltd., Madras. Majid, Husain (2008): Geography of India, Tata McGraw Hill Company, New Delhi. Nag, P. and Gupta, S.S. (1992): Geography of India, Concept Publishing Company, New Delhi. Singh, J. (2003): India: A Comprehensive and Systematic Geography, Gyanodaya Prakashan, Gorakhpur. Singh, R.L. (Ed.) (1971): India: A Regional Geography, National Geographical Society of India, Varanasi. This course can be opted as an elective by the students of following subjects: Open for all Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam.

M.A./M.Sc. Geography Semester I Course V (Practical)

Session 2021-22

Course Code: G-518	Course Title: Statistical T		chniques and Cartography	
Name of Faculty: Mrs.	Name of Faculty: Mrs.Geetanjali Chauhan		Subject: Geography	
Program/Class: Certificate/M.A.	Year: First		Semester: First	

Course Learning Outcomes

On completion of this course, learners will be able to:

- Understand the basic idea of Map, Scale and Topographic sheets
- The students will learn various statistical skills.
- The students will know how the statistical theories and functions will be applied in geography.
- The students will learn about the significance test to strengthen their argument with facts and represent data.

Credits: 2	Core Compulsory
Max. Marks: -50 +50	Min. Passing Marks:40

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

Unit	Topics	No. ofLectures
I	Types of profiles, Slope Analysis by different methods (Wentworth and Henry Raisz), Morpho-metric Analysis.	14
II	Standard Deviation, Mean, Quartiles One and Three, Ranking methods. Probability. Theory of Probability Geographical Application of statistical techniques	14
III	Correlation – Spearman's and Carl Parsons Methods, Line of Regression, Chi-squaretest, binomial test.	14
IV	Techniques of MappingsDrainage density, flow diagrams, population mapping.	15
v	Field work Field work and data processing techniques, sampling tests, dispersion diagrams.	15

For written test in all 10 questions shall be given selecting 02 questions from Note each unit.

Suggested Readings:

David Unwin (1981): Introductory Spatial Analysis, Methuen, London Geography Deptt.

R.G. College, Meerut

Gregory, S. (1978): Statistical Methods and the Geographer, Longman, London.

Hammond, R. and P.S. McCullagh (1974): Quantitative Techniques in Geography: An Introduction, Clarendan Press, Oxford.

John, P. Cole and Cuchlaine A.M. King (1968): Quantitative Geography, John Wiley, London

Johnston R.J. (1973): Multivariate Statistical Analysis in Geography, Longman, London.

Koutsoyannis, (1973): Theory of Econometrics, Mcmillan, London.Yadav, Hirilal (1998): Matratamak Bhaugool, Radha Publication, New Delhi.

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

Note: The students shall be attempting five questions selecting one question from each unit

Each question shall be carrying 15 marks.

For Examination Break-Up of Marks- Written Test (3 Hrs.) 75 marks

Viva - voce 10 marks Record work 15 marks

M.A./M.Sc. Geography

Semester II

Course VI (Theory)

Session 2021-22

	ogram/Class: icate/M.A./M.sc.	Year: Fi	rst	Semester:	Second
Na	ame of Faculty: Dr.	Sangita Chaudhary		Subject: Geography	
C	Course Code: G2018	Course Title: OCE .	ANOGI	RAPHY AND CLIMA	FOLOGY
Course Lea	arning Outcomes	l			
•	letion of this course, Dynamic of climate a Assessment of differe	nd related theories			
				Core Compuls	ory
	Max. Marks: -5	50+50		Min. Passing Ma	rks:40
	Total No. of I	Lectures-Tutorials-P	ractical	(in hours per week): P-2	2/w
Unit	Topics			No. ofLectures	
I	Nature and scope of climatology and its relationship with meterology. Composition and structure of the atmosphere. Insolation and Heat Budget. Green House Effect. Distribution of Temperature and Pressure. Planetary wind system. Jet Streams and Monsoon machanism.				
II	Humidity and Precipitation. Acid Rain, Air Masses and Fronts, Origin of Cyclones, Anticyclones and Thunderstorms and their effects. Ocean atmospheric interaction: El Nino and La Nina Phenomenon.				14
III	Climatic classification of Koeppen and Thornthwaite, Major – climates of the world-tropical, temperate, desert and mountain climate. Climatic changes and Global warming.			14	
IV	Nature and scope of oceanography. Distribution of land and water. Surface configuration of the ocean floor. Submarine relief of the pacific. Atlantic and Indian Ocean, Composition of Oceanic Water. Distribution of Temperature and Salinity.				15
V	CirculationofOcea	nicWater:Waves, Tic	desandC	urrents.	15

Geography Deptt. R.G. College, Meerut OceanDeposits:theirsources and kinds. Corals and coral reefs: Types and theories of their origin.

Suggested Readings (Climatology):

- Barry, R.G. and Chorley P.J. (1998): Atmosphere, Weather and Climate. Routledge, London and New York.
- Critchfield, J.H. (1993): General Climatology, Prentice Hall, India, New Delhi.
- Das, P.K. (1987): Monsoons National Book Trust, New Delhi.
- Fein, J.S. and Stephens, P.N. (1987): Monsoons, Wiley Interscience.
- Indian Met. Deptt. (1968): Climatological Tables of Observatories in India, Govt. of India. Lal, D.S. (1986): Climatology, Chaitanya Publication, Allahabad. Lydolph, P.E. (1985): The Climate of the Earth, Rowman.

- Menon, P.A. (1989): Our Weather, P.B.T. New Delhi.
- Peterson, S. (1969): Introduction to Meteorology, Mc Graw Hill Book, London.
- Robinson, P.L. and Henderson S. (1999): Contemporary Climatology, Henlow.
- Sharma, R.C. & Meera Vatal: Oceanography for Geographers

This course can be opted as an elective by the students of following subjects: Open for all Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam and Assignment

M.A./M.Sc. Geography

Semester II

Course VII

Session 2021-22

	gram/Class: cate/M.A,/MSc	Year: Fi	rst	Semester:	Second	
Nai	me of Faculty: Dr S	Sangita Chaudhary		Subject: Geography		
Co	ourse Code:	Course Title: La	aws, Mode	ls & Theories in Geograp	hy	
	G 2019					
Course Lear	Course Learning Outcomes					
On comple	tion of this course,	learners will be able	e to:			
• Stude	 Student will enable to understand the nature and philosophy of the subject in order to apply their knowledge in the field of research and development 					
				Core Compulse	ory	
Max. Marks: 50+50 Min. Passing Mar			rks:40			
	Total No. of I	_ectures-Tutorials-P	ractical (i	n hours per week): P-2	2/w	
Unit		7	Topics			
I				ition and Meaning of Analysis in Human		
II	Centrifugal, Centrip	Isostasy, Mountain Building, Buys Ballot's Law, Gravity Model, gal, Centripetal Forces, Coriolis Force. Koeppen's, Thornthwait's Davis and Penck Cycles of Erosion.			14	
III	Locational Theoric Central Place Theo	eories – Von Thunen's, Alfred Weber's, Isards, Losch, Theory.			14	
IV	Cropping Intensity, cr	op-Combination, Productivity Analysis.			15	
V	Urban Primacy, Ran	k Size Rule, Nearest l	Neighbour	Analysis.	15	

Suggested Readings:

- Baskin, C.W. (Translator): Central Places in Southern Germany, Prentice Hall Inc. Englewood Cliffs New Jersey, 1966. Originally written by C.W. Christaller in German with title Die ZentralenOrteSudevtsch Land in 1933.
- Weber, Alfred (1957): Theory of Location of Industries, Chicago University Press, Chicago.

This course can be opted as an elective by the students of following subjects: Open for all Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam. And assignment

M.A./M.Sc. Geography

Semester II

Course VIII

Session 2021-22

	ram/Class: te/M.A./M.Sc.	Year: First		Semester: Second			
Name o	of Faculty: Dr. Susl	ma Gaur Subject: Geography					
Course Code:		Course Title: Advanced Geography of India (Socioeconomic)					
G 2020							
Course Learning Outcomes							
On completion of this course, learners will be able to:							
 The course would help students to contextualize much of their further learnings, teaching and research on India within the contents of this course. 							
	Credits: 2			Core Compulsory			
	Max. Marks: -25	+75		Min. Passing Marks:40			
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w							
Unit		7	Горісѕ				
Unit- I	Agricultural system and technological problems of Indian agriculture, developments, agrarian reforms, green revolution achievements and shortcomings, need of 2 nd green revolution, Agro-climatic regions of India. Regionalization of agriculture in India, crop combination regions of India, food production and population growth.						
Unit- II	Energy in India- Conventional and Non-conventional power resources, regional set-up of Hydel and Thermal Power stations, locational patterns and analysis of coal & petroleum resources, govt. policies and conservation of energy resources.						
Unit- III	Analysis of Agro-Based (Sugar), Forest Based (Paper & Pulp) and Mineral based industries (Iron & Steel), Industrial regions of India, Modes of transport, their significance and development, the pattern of foreign trade.						

- Unit-IV : Socio-economic implications of explosive growth of population, distribution and density of population, population resource regions, trends of urbanization, urban regions, population problems and policies.
- Unit-V Basis of Economic Regionalization macro, meso and micro regional division of India, economic regionalization in India, Detailed study of the meso-regions of Great-Plainstheir inter-regional disparities with reference to agricultural. Human Resource development.

Suggested Readings:

- Brahmanand, P.R. et., (1987): The Development Process of Indian Economy, Himalaya Pub. House.
- C.D. Deshpande, (1992): India A Regional Interpretation, ICSSR, New Delhi.
- Farmer, B.H. (1983): Introduction to South Asia. Methuen and Company Ltd., and Company Ltd., London.
- Ganguly, S. And Neil, DeVotta (eds.) (2003): Understanding Contemporary India. Lynne Reinner Publishers., Boulder and London.
- Gole, P.N. (2001): Nature Conservation and Sustainable Development in India. Rawat Publications, Jaipur and New Delhi.
- Johnson, B.L.C. (1983): Development in South Asia. Penguin Books, Harmonsworth.

This course can be opted as an elective by the students of following subjects: Open for all Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam and Assignment

M.A./M.Sc. Geography

Semester II Course IX

Session 2021-22

Program/Class: Certificate/M.A./M.Sc. Year:		Year: Firs	st	Semester: Second			
Name of Faculty: Mrs Gitanjali Chauhan				Subject: Geography			
Course Code: Course Title: Regional Planning and Development							
	G 2021						
Course Learn	ning Outcomes						
 On completion of this course, learners will be able to: 1) The students will be able to understand and analyse the principal issues confronting the regions today. 2) The students will get an insight into 'how regions work', through case-study from India. 3) The students will be able to understand and analyse the principal issues confronting the different regions of India. 							
Credits: 2 Core Compulsory							
Max. Marks: -25+75 Min. Passing Marks:40							
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w							
Unit – I	Regional concept in geography, Concept, Nature and Scope of Regional Planning., changing concept of the region from an inter-disciplinary view-point, concept of space, area and locational attributes. Types of region: Formal and functional; uniform and nodal, single purpose and composite regions, in the context of planning; regional hierarchy						
Unit – II	Physical regions, planning regions of India, regional divisions according to variations in leve of socio-economic development; special purpose regions-river valley regions, metropolitan regions, problem regions – hilly regions, tribal regions, regions of drought and floods.			14			
Unit – III					14		
Unit – IV Regional development strategies – concentration vs. dispersal, case studies for plans of developed and developing countries, Regional plans of India.				15			

and relationship of Panchayati Raj Institutions (Village Panchayat, Panchayat Samiti	Ī	Unit – V	Concept of Multi-level planning; decentralised planning; Panchayati Raj System, role	15
			and relationship of Panchayati Raj Institutions (Village Panchayat, Panchayat Samiti	
and Zila Parishad) and administrative structure (Village, Block and District). Regional			and Zila Parishad) and administrative structure (Village, Block and District). Regional	
development in India, problems and prospects.			development in India, problems and prospects.	

Suggested Readings:

- Bhat, L.S.(1973): Regional Planning in India, Statistical Publishing Society, Calcutta. Bhat, L.S. et al.(1976): Micro-Level Planning: A Case Study of Karnal Area, Haryana, K.B. Publications, New Delhi.
- Chandna, R.C. (2000): Regional Planning: A Comprehensive Text. Kalyani Publishers., New Delhi.
- Chaudhuri, J. R. (2001): An Introduction to Development and Regional Planning with special reference to India. Orient Longman, Hyderabad.
- Friedmann, J. (1992): Empowerment: The Politics of Alternative Development. Blackwell, Cambridge MA and Oxford.

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

Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam and Assignment

M.A./M.Sc. Geography

Semester II

Course X (Practical)

Session 2021-22

Cei	tificate/M.A./M.Sc.	Year: Fi	rst	Semester:	Second		
	Name of Faculty: Mrs Gitanjali Chauhan Subject: Geography						
	Course Code:	Cours	e Title: Adva	nced Cartogr	aphy		
	G 618						
Course I	Learning Outcomes						
1. T 2. T 3. T	npletion of this course, The students will learn va The students will know ho The students will learn ab epresent data.	rious statistical skills. ow the statistical thec	ories and function	• • •			
				Core Compulso	ory		
Max. Marks 100 Min. Passing Marks:					ks:40		
	Total No. of I	Lectures-Tutorials-P	ractical (in ho	urs per week): P-2	/w		
Unit	t	ŗ	Горісѕ		No. of Lectures		
otal No. of	Lectures-Tutorials-Pract	ical (in hours per wee	ek): L-T-P: 4-0-0	or 3-1-0 Etc.			
Unit		Topics			No. of		
					Lectures Total 60		
I	Determining the dot (Volumetric or Sten de C		al or Stilgenb	auer's method) &	15		
II	Conversion of contour layer method.	maps into block di	agrams: multip	le section method	, 15		

Ш	Determination of average slope: S. Finster Walder's method and C.K. Wentworth's method, slope- category method of Raisz and Henry	15
IV	Map projection: International projection, stereographic projection, Mercater with great circle loxodrome, interrupted Mollweide projection, sanson-flamsteed's sinusoidal projection.	15

from each unit. Each question shall be carrying 15 marks.

For Examination Break-Up of Marks- Written Test (3 Hrs.) 75 marks

Record Work 15 marks

Viva-voce 10 marks

• Suggested Readings:

- Cromely, Robert G. (1992): Digital Cartography Englewood Cliffs, New Jersey, Prentice-Hall, Inc.
- Dent, B. (1985): Principles of Thematic Map Design, Reading, Massachusetts, Addision Wesley Publishing Co.
- Dorling, D. and Fairborn, D. (1997): Mapping, Ways of Representing the World, Longman, Harlow.

M.A./M.Sc. GEOGRAPHY

Semester III

Course XI

Session 2021-22

Program/Class: MA/M.Sc.	Year: Second		Semester: Third	
Name of Faculty: Ms Ras	shika Yadav	Subject: Geography		
Course Code: G 3018				
Course Learning Outcomes On completion of this course, learners will be able to: • Understand about the contemporary issues in geography. • Identify the technologies in Geography.				
Core Compulsory				
Max. Marks: 50+50 Min. Passing Marks:40			Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w				

Unit- I: Recent Conceptual Development in Geography: Philosophical Issue – Positivism, Behaviouralism, Phenomenology, Idealsim, Existentialism and Humanistic Geography, Spatial Justice, Radicalism & Postmodernism.

Unit- II: Recent Methodological Development in Geography: Quantitative Revolution and use of Statistical Techniques. Use of Hardware and Software Technologies in data analysis and mapping, use of models and paradigms in geography.

Unit-III: Use of Technologies in Geography: Remote Sensing and GIS and GPS.

Unit-IV : Scientific Methods in Geographical Research: Hypothesis Testing, Problem Solving approach in Geography, Project Formulation and Project Evaluation Techniques.

Unit-V: Recent Issues in Indian Geography Post Colonialism and Indian Geography, Trends of Geographical Researches in India, Prospects of Professional Opportunities in Geography, Future of Indian Geography, Problems, Perspectives and Prospects.

- Suggested Readings: _
- Adams, P., Steven, H. and Karel, T. (eds.) (2001): Texture of Place. Exploring Humanistic
- Geographies. University of Minnesota Press, Minneapolis.
- Anderson, K., Domosh, M., Pile, S. and Thrift, N. (eds.) (2003): Handbook of Cultural
- Geography. Sage Publications, London.
- _ Barnes, T. and Gregory, D. (eds.) (1997): Readings in Human Geography: The Poetics and
- Politics of Inquiry. Arnold, London.
- Bunkše, E. V. (2004): Geography and the Art of Life. John Hopkins University Press,
- Baltimore.
- _ Buttimer, A. (1971): Society and Milieu in the French Geographic Tradition. Rand
- McNally, Chicago.
- _ Daniels, P., Bradshaw, M., Shaw, D. and Sidaway, J. (2000): An Introduction to Human
- Geography. Issues for the 21st Century. Prentice Hall, London.

M.A./M.Sc. GEOGRAPHY Course XII

Session 2021-22

Program/Class: MA/M.Sc.	Year: Second		Semester: Third			
Name of Faculty: Dr. Su	Name of Faculty: Dr. Sushma Gaur		ubject: Geography			
Course Code: G 3019	Course Title: Inte	rdisciplin	nary Research Methods and Techniques			
The students will be able to	Course Learning Outcomes On completion of this course, learners will be able to: • The students will be able to understand the theme of research. • The students will be able to find new techniques and areas which are helpful for their applications.					
			Core Compulsory			
Max. Marks: -50	0+50		Min. Passing Marks:40			
Total No. of Le	ectures-Tutorials-Pra	actical (in	hours per week): P-2/w			
Unit-I: Conceptual Foundation of Research: Meaning and types of research, objectives and motivation of research, concepts of pure and applied research, scientific approach to geographic research, Basic Components of Research, defining a research problem, construction of research design, Hypothesis formulation. Unit-II: Sampling Techniques and Selection of Geographic Variables: Aims of Sampling, Basic Components of Sampling Methods, Nature of Geographic Data, Continuous and discrete data. Level of measurements: various scales, data transformation; its process and methods. Unit-III: Data Collection: methods of field observation, role of field methods in geographic studies, Techniques for primary data collection, preparation of questionnaires. Data collection from secondary sources. Tabulation and Data Analysis. Unit-IV: Cartographic analysis of data. Techniques of data representation by quantitative maps. Hypothesis Testing. Basic principles and procedures of correlation, significance of statistical analysis and interpretation of data. Unit-V: Drafting of the research report quantitative & qualitative interpretations, writing manuals (Arranging themes, maintaining coherence, cross comparison concluding, referencing noting etc.) Proof marks & marked proof, size scale and types of report, organisation and designing of report, Evaluating a report.						
Suggested Readings:	Suggested Readings:					

- _ Ahuja, R. (2001): Research Methods, Rawat Publications, Jaipur and New Delhi.
- _ Bhattacharyya, D. K. (2005): Research Methodology, Excel Books, New Delhi
- _ Blackburn, J. and Holland, J. (eds.) (1998): Who Changes? Institutionalising Participation in Development. IT Publications, London.
- _ Blaxter, L., Hughes, C. and Tight, M. (1996): How to Research. Open University Press, Buckingham.
- _ Mishra, R.P.: Research Methodology.
- _ Crang, Mike (1999): Cultural Geography. Routledge, London.
- _ Daniels, P., Bradshaw, M., et al. (2000): Human Geography: Issues for the 21st Century. Prentice Hall, London, and Pearson Publishers., Singapore. Indian reprint, 2003.

M.A./M.Sc. GEOGRAPHY Course XIII Session 2021-22

Program/Class: M.A./ M.Sc.	Year: Second		Semester: Third	
Name of Faculty: Dr. Sushma Gaur		Subject: Geography		
Course Code: G 3020 Course Title: Advanced Geography of Uttar Pradesh				
Course Learning Outcomes On completion of this course, learners will be able to: • It enhance to Buit up strategies for sustainable development of regional variations. • 2. students will be able to understand various agricultural issues at UP & national level.				
Core Compulsory				
Max. Marks: -50+50 Min. Passing Marks:40				
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w				

Unit-I	Locational Set-up of Uttar Pradesh in India and its changing map. Relief and				
	Physical Divisions, Structure, Drainage, Ground Water Resource, Soils and				
	their types, Climate and Climatic regions and vegetative cover.				
Unit-II	Problems Related to Over Utilisation of Natural Resources in Uttar Pradesh:				
	Usar and Sodic soils formation and soil erosion, Under ground water scarcity,				
	Depletion of forest cover and wild life, Surface Water Resource Utilities,				
	Drinking Water and Power Shortage, Flood and drought affected parts.				
	Spatio Temporal Trends of Agricultural production, Development of				
	Irrigational facilities including canals and dams, Agricultural Productivity and				
Unit-III	Crop-Combination regions, Power Generation and its distribution in different				
	sectors of economy, Agro-Processing industry and their problems with special				
reference to sugar industry.					
	Human Resource Development in Uttar Pradesh: Demographic and Religious				
	composition (Density, Rural-Urban distribution of Population, Sex-ratio, S/C/				
Unit-IV	S/T population, Literacy and trend of urbanisation), occupational Structure and				
	Poverty Eradication programmes initiated. Accessibility and Transport				
infrastructural gaps.					
Planning for Balanced Development: Planning for sustainable development					
Unit-V	including health, education, drinking water, Emerging Political Issues and				
	Voting Behaviour in General elections and Policy of the State Government for				
	Balanced regional development.				
Suggest	ted Readings:				

- _ Despande C.D. (1992): India-A Regional Inter-Pretation ICSSR, Northern Book Centre, New Delhi.
- _ Singh R.L.(ed.) (1971): India-A Regional Geography, National Geographical Society, India, Varanasi.
- _ Tiwari, A.R.: Geography of Uttar Pradesh, N & T.
- _ Tirtha, R. & Gopal Krishna (1966): Emerging India, Rawat Publications, Jaipur.
- _ Kundu A., Raza Moonis (1982): Indian Economy: The Regional Dimension, SpectrumPublishers, New Delhi.
- _Mamoria, C.B.: Advanced Geography of India.
- _ Bansal, S.C.: Advanced Geography of India (Hindi), Meenakshi Prakashan, Meerut.

M.A./M.Sc. GEOGRAPHY **Course XIV Session 2021-22**

Semester: Third Year: Second

Subject: Geography Name of Faculty: Dr. Sangita Chaudhary Course Title: Ecology and Environment Course Code: G 3022

Course Learning Outcomes

Program/Class: MA/M.Sc.

On completion of this course, learners will be able to:

- Students will be developing the quality to keep an eye on every aspect of environment/ ecology.
- Students will be able to apply their enhanced vision in their research analyses.

	Core Compulsory
Max. Marks: -50+50	Min. Passing Marks:40

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

Unit- I	Meaning and definition of Ecology and Environment, Geography as Human Ecology Conceptual background. The Environment – meaning, structure and types, Man Environment Relationship, Perception of Environment.
Unit- II	Ecology: meaning and its relation with Geography, Ecosystems: Kinds, structure and functions, energy flow, food chains, food webs and trophic levels, nutrient cycles, Major Biomes of the World.
Unit- III	: Geographical aspects of major environmental problems: Natural hazards- floods, drought, landslides, earthquakes and cyclones, Man-induced hazards – Rapid urbanisation, transport development, Agricultural development, Big dams.
Unit- IV	Environmental Pollution – the concept and types of pollution, ecological impact of pollution- the environmental concerns, the green house effects, ozone depletion, Environmental Policy and Legislation.
Unit- V	Ecological basis of environmental Management – Concept, need and approaches, Indian and International efforts for environmental conservation and management since 1972. Environmental problems and programmes in India. Environmental impact and assessment of controversial River Valley Projects like Tehri Hydro and Narmada Valley (Sardar Sarovar) Projects, National Parks.
	Suggested Readings:

- _ Anjuneyulu, Y. (2004): Introduction to Environmental Science. B. S. Publications, Hyderabad.
- _ Athavale, R. N. (2003): Water Harvesting and Sustainable Supply in India. Rawat Publications., Jaipur.
- _ Blaikie, P., Cannon, T. and Davis, I. (eds.) (2004): At Risk: Natural Hazards, Peoples Vulnerability and Disasters. Routledge, London.
- _ Bodkin, E. (1982): Environmental Studies, Charles E. Merril Pub. Co., Columbus, Ohio.
- _ Chandna, R.C. (1998): Environmental Awareness, Kalyani Publisher, New Delhi.
- $_$ Eyre, S.R. and Jones, G.R.J. (eds.) (1966): Geography as Human Ecology, Edward Arnold, London.
- _ Gautam, A. (2007): Environmental Geography, Sharda Pustak Bhawan, Allahabad.
- _ Khoshoo, T. N. (1981): Environmental Concerns and Strategies. Ashish Publishing House, New Delhi.
- _ Kormondy, E.J. (1989): Concepts of Ecology, Prentice Hall.

M.A./M.Sc. GEOGRAPHY Course XV (Practical) Session 2021-22

Program/Class: M.A./M.Sc.	Year: Secon	nd	Semester: Third		
Name of Faculty: Dr. Deepshikha Sharma Smt.Gitanjali Chauhan		Subject: Geography			
Course Code: G -518	Course Title: Advanced Surveying, Remote Sensing and GIS				
Course Learning Outcomes On completion of this course, learners will be able to: Overall understanding of potential of Remote Sensing, GIS and GPS Understanding of image interpretation Understanding of GIS analysis workflow and integrated applications in various domains of Geography					
Core Compulsory					
Max. Marks: -100 Min. Passing Marks:40					
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w					

	Prismatic Compass Surveying (Mathematical Techniques for Closed Traversing),
Unit –I	Interpolation of Contours by Indian Clinometer, Sextant measurement (Vertical and
	Horizontal), Telescopic Alidade, Dumpy Level (Simple & Differential Levelling,
	Rise and Fall Methods, Theodolite.
	Air Photos and Photogrammetry: Elements of Photographic System; types, scales,
	Calculation and Measurement of height of aircraft and ground coverage, resolution,
Unit –II	radiometric characteristics, film, filters, aerial cameras, film exposures, vertical
	photographs, relief displacement, image parallax, Numbering of Photographs Air
	Photo interpretation: shape, size pattern, tone, texture, shadows etc. Photo Mosaics
	and their comparison with topographical maps.
	Definition, types and scope of Remote sensing, Development of Remote sensing,
	stages in remote sensing data acquisition, electromagnetic radiation and
Unit –	electromagnetic spectrum, black body radiation and radiation laws, Interaction of
III	EMR with Earth's surface features, Role of atmosphere in remote sensing. Types and
	salient characteristics of orbital platforms, types and geometry sensors, sensors
	resolutions and application, remote sensing data products, Indenting of remote
	sensing data in India.
	Definition and development of GIS, computer environment for GIS, Spatial Data:
	Elements of spatial data; quality and error variations-raster and vector data structures,
Unit -	Database Management Systems: and spatial modeling-output format and generation.,
IV	GIS Application: GIS as a Decision Support System-expert. GIS in Land Information
	System, Urban Management, Environmental Management and Emergency Response
	System. Use of GPS in data generation and mapping.

Note: A Geographical Survey Camp of not less than 10 days duration in different area other than of college premises of India will be arranged to acquaint students with the advanced surveying techniques and the spot study of aerial photographs & satellite imageries. Students are required to submit survey camp report containing not more than 10 pages and supported by 5 maps prepared during survey camp. There will be one teacher and one supporting staff on every 10 students group of guiding the students. T.A. & D.A. will be paid by the college concerned to the teaching and supporting staff members accompanying the students during survey camp. For purpose of examination two surveying exercises from Unit-I will be given to each group of not more than 2 students. These exercises will be of 3 hours duration.

There will be a written test of 3 hours duration for rest of units-II, III & IV. Students will have to attempt 3 questions out of 6 questions (2 from each Unit).

The distribution of marks shall be follows:-

- (1) Two surveying exercises 30 Marks
- (2) Written Test 30 Marks
- (3) Survey Camp Report 20 Marks
- (4) Sessional Record and Viva Voce Test 10+10 = 20 Marks

(Students those do not attend survey camp, their evaluation in practical course should be done in 80 Marks).

Suggested Readings:

- _ Barrett, E.C. and Curtis L.F.: Fundamentals of Remote Sensing and Air Photo Interpretation.
- _ Campbell, J.: Introduction to Remote Sensing.
- _ Luder, D.: Aerial Photography Interpretation : Principles and Application.
- _ Star, J. and J. Estes: Geographic Information Systems: An Introduction.
- Fraser Taylor D.R.: Geographic Information Systems.
- _ Burrough P.A.: Principles of Geographic Information Systems for Land Resources Assessment.
- _ Campbell, J. B. (2002): Introduction to Remote Sensing. 5th edition. Taylor and Francis, London.
- _ Cracknell, A. and Hayes, L. (1990): Remote Sensing Year Book, Taylor and Francis, London.
- _ Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.
- _ Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
- _ Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation, W.H. Freeman, New York.
- _ Guham, P. K. (2003): Remote Sensing for Beginners. Affiliated East-West Press Private Ltd., New Delhi.
- _ Hallert, B. (1960): Photogrammetry, McGraw Hill Book Company Inc., New York.
- _ Harry, C.A. (ed.) (1978): Digital Image Processing, IEEE Computer Society, California
- _ Hord, R.M. (1982): Digital Image Processing of Remotely Sensed Data, Academic Press, New York.
- _ Leuder, D.R. (1959): Aerial Photographic Interpretation: Principles and Application. McGraw Hill, New York.
- _ Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York.
- _ Nag, P. (ed.) 1992: Thematic Cartography and Remote Sensing, Concept Publishing. Company, New Delhi.

Course IV (Theory) Session 2021-22

Programme/Class: Year: Se		econd	cond Semester: IV		
M.A./M.Sc.					
Name of Faculty: Dr. Sangita		Subject: Geography			
Chaudhary					
Course Code: G 4021	Course	Title: Agricultural Geo	ography	(Theory)	

Course outcomes:

- The students will be able to understand and analyse the historical perspective of agriculture.
- The students will be able to analyse the agriculture development and productivity and its impacts on various sectors
- The students will be able to get updated knowledge of contemporary issues and strategies.

Max. Marks: 50+50 Min. Passing Marks: 40

Unit	Topics	No. of Lectures
I	Nature, scope, significance and development of agricultural geography. Approaches to the study of agricultural geography: Sources of agricultural data.	14
II	Determinants of agricultural land use-Physical, cultural. Land holding and land tenure systems. Selected agricultural concepts and their measurements; cropping pattern, crop concentration, intensity of cropping, degree of commercialization, diversification and specialization, efficiency and productivity, crop combination regions and agricultural development. Green Revolution-its impact and consequences.	14
III	Theories of agricultural location based on several multi- dimensioned factors: Von Thunen's theory of agricultural location and its recent modifications; Whittlesey's classification of agricultural regions; land use and land capability.	14
IV	Agriculture in India- Land use and shifting cropping pattern. Regional pattern of productivity in India. Green Revolution, White Revolution, Food deficit and food surplus regions; nutritional index. Specific problems in	15

	Indian agriculture and their management and planning. Agricultural Policy in India.	
V	Contemporary issues; Food, nutrition and hunger, food security, drought and food security, food aid programmes; environmental degradation, role of irrigation, fertilizers, insecticides and pesticides, technological know-how. Employment in the agricultural sector: landless labourers, women, children, occupational health and agricultural activities. Land reforms, land use policy and planning.	15

- 1. Bayliss Smith, T.P. (1987): The Ecology of Agricultural Systems. Cambridge University Press, London.
- 2) Berry, B.J.L. et. Al. (1976): The Geography of Economic Systems. Prentice Hall, New York.
- 3) Brown, L.R. (1990): The Changing World Food Prospects- The Nineties and Beyond. World Watch Institute, Washington D.C.
- 4) Dyson, T. (1996): Poupulation and Food-Global Trends and Furure Prospects. Routledge, London.
- 5) Gregor, H.P.(1970): Geography of Agriculture. Prentice Hall, New York

Course III (Theory) Session 2021-22

Programme/Class:	Year: Second		Semester: IV		
M.A./M.Sc.					
Name of Faculty: Dr.	Sushma Gaur Subject: C		: Geography		
Course Code: G 4020	Course Title: Urban Geography		(Theory)		
Course outcomes: 1) Engage with literature on urban every-day and diverse forms of agency and methodologies 2) Reflect the ways in which methodological lenses are constituted through understanding urban cultural spaces 3) Innovative methodological approaches and field Journal writing					
Max. Marks: 50+50		Min. Passii	ng Marks: 40)	

Unit	Topics	No. of Lectures
I	Nature and scope of urban geography, different approaches and recent trends in urban geography, attributes of urban places during ancient, medieval and modern period, Bases and process of urbanization and development, Urban growth and theories. Central Place Theory of Christaller and Losch. Theories of Perroux and Boudeville.	14
II	Urban economic base: Basic and non-basic functions, input- output models, concept of dualism, colonial and postcolonial structure, metropolitan city and changing urban function; role of informal sector in urban economy. Functional classification of towns. Classification of urban settlements on the basis of size and function and its methods.	14
Ш	Organization of urban space: urban morphology and landuse structure, city core, commercial, industrial and residential area; core-country variations; city-region relations, modern urban landscape; morphology of urban settlements and its comparison with western urban settlements; urban expansion, Umland and periphery, Urban Primacy, Rank Size Rule.	14
IV	Contemporary urban issues: urban poverty, urban renewal, urban sprawl, slums; transportation, housing, urban infrastructure; environmental pollution; air, water, noise, solid	15

	waste, urban crime	
V	Urban policy and planning, development of small and medium sized towns, city planning, green belts, garden cities, urban policy, contemporary issues in urban planning globalization and urban planning in the Third World. Contributions of Indian scholars to the studies of urban settlements.	15

- 1. Alam, S.M. (1964): Hyderabad Secunderabad Twin Cities Asia Publishing House, Bombay.
- 2. Berry, B.J.L. and Horton, F.F. (1970): Geographic Perspectives on Urban Systems, Prentice Hall, Englewood Chiffs, New Jersey.
- 3. Bansal, S.C.: Urban Geography (English & Hindi both), Meenakshi Prakashan, Meerut.
- 4. Carter (1972): The Study of Urban Geography, Edward Arnold Publishers, London.
- 5. Chorley, R.J.O Haggett P. (ed.) (1966): Models in Geography, Methuen, London.
- 6. Dickinson, R.E. (1964): City and Region, Routledge, London.
- 7. Dwyer, D.J. (ed.) (1971): The City as a Centre of Change in Asia, University of Hong Kong Press, Hongkong.
- 8. Gibbs, J.P. (1961): Urban Research Methods, D. Van Nostrand Co. Inc. Princeton, New Jersey. Hall, P. (1992): Urban and Regional Planning, Routledge, London.
- 9. Hall, P. (1992): Urban and Regional Planning, Routledge, London.

Course II (Theory) Session 2021-22

Programme/Class: Year: Second			Semester: IV	
M.A./M.Sc.				
Name of Faculty: Dr. Sushma Gaur			Subject	: Geography
Course Code: G 4019	Course Title: GEOGRAPHY OF		(Theory)	
	RURAL SETTLEMENT			

Course outcomes:

- 1) The students will learn about basic principles of urban and regional planning.
- 2) The students will know about pioneering thinkers in the field of urban planning.
- 3) The students will study about the different theoretical background and structure of the regional planning process

Max. Marks: 50+50 Min. Passing Marks: 40

Unit	Topics	No. of Lectures
I	Nature, scope, significance and development of rural settlement geography. Approaches to rural settlement geography. Rural-urban continuum Definition and characteristics of rural settlements in the fringe areas and sparsely settled areas. Distribution of Rural settlements: size and spacing of rural settlements. Nearest Neighbour Analysis.	14
II	Types, forms and Patterns of rural settlements: cause and effect, Classification of rural settlements, Rural service centres, their nature, hierarchy and functions, rural-urban fringe – structure, characteristics and functions.	14
III	Social issues in rural settlements: poverty, housing and shelter, depriation and inequality, empowerment of women, health care, rural-urban interaction.	14
IV	Environmental issues in rural settlements: access to environmental infrastructure, water supply, sanitation, drainage, health hazards.	15
V	Cultural landscape elements in rural settlements in different geographical environments with special reference to India; House types and field patterns, Origin, evolution, size, socio-spatial structure of Indian villages, periodic market, Rural development planning in India.	15

- 1. Alam, S.M. et. al. (1982): Settlement System of India, Oxford and IBH Publication Co., New Delhi.
- 2. Brock, J.O.M. and Welb, J.W. (1978): Geography of Mankind, McGraw Hill, London.
- 3. Chisholm, M. (1967): Rural Settlements and Land Use, John Wiley, New York.
- 4. Clout, H.D. (1977): Rural Geography, Permajon, Oxford.
- 5. Daniel, P. and Hopkinson, M. (1986): The Geography of Settlement, Oliver & Byod, Edinburg.
- 6. Grover, N. (1985): Rural Settlement A Cultural Geographical Analysis, Inter-India Publication, Delhi.
- 7. Hudson, F.S. (1976): A Geography of Settlement, MacDonald & Evans, New York.

Course I (Theory) Session 2021-22

Programme/Class:	Year: Second		Semester: IV	
M.A./M.Sc.				
Name of Faculty: Ms Rashi	ka Yadav	Subject: Geography		: Geography
Course Code: G 4018	Course Title: Popu	lation G	eography	(Theory)

Course outcomes:

- 1) After taking this course, a candidate should be able to appreciate the active role of population geography as a distinct field of human geography.
- 2) S/he should be conversant with different sources of demographic data, and well versed with debates on population-development linkages.

Max. Marks: 50+50 Min. Passing Marks: 40

Unit	Topics	No. of Lectures Total 60
I	Population Geography: Scope and Objectives, development of Population Geography as a field of specialization-Population Geography and Demography-sources of population data, their level of reliability, and problems of mapping of population data.	14
II	Population distribution: density and growth – theoretical issues, Classical and modern theories in population distribution and growth, World patterns and their determinants, India, population distribution, density and growth profile, Concepts of under population and over population.	14
III	Population composition: age and sex, family and households, literacy and education, religion, caste and tribes, rural and urban, urbanisation, occupational structure, population composition of India.	14
IV	Population dynamics: Measurements of fertility and mortality, migration, national and international patterns, India's population dynamics, Demographic Research Methods.	15
V	Population and development: population-resource regions and levels of population and socio-economic development, population policies in developed and less developed countries. Human Development Index and its	15

components, India's population policies, population and environment, implications for the future.

- 1. Bilasborrow, Richard E and Daniel Hogan (1999): Population and Deforestation in the Humid Tropics, International Union for the Scientific Study of Population, Belgium.
- 2. Bogue, D.J. (1969): Principles in Demography, John Wiley, New York.
- 3. Bose, Ashish et.al. (1974): Population in India's Development (1947-2000): Vikas Publishing House, New Delhi.
- 4. Census of India (2001): India: A State Profile.
- 5. Chandna, R.C. (2000): Geography of Population, Concept, Determinants and Patterns, Kalyani Publishers, New Delhi.
- 6. Clarke, John I. (1973): Population Geography, Pergamon Press, Oxford.
- 7. Crook, Nigel (1997): Principles of Population and Development, Pergmon Press, New York.

Course I (Practical) Session 2021-22

Programme/Class:	Year: Second		Semester: IV		
M.A./M.Sc.					
Name of Faculty: Dr. Deepshikha Sharma		Subject: Geography			
Mrs Gitanjali Chauhan					
Course Code: G 818	Course Title: GEOGRAPHY OF		HY OF	(Practical)	
	RURAL SETTLEMENT		NT		
Course outcomes:					

- The students will be able to understand the theme of research,
- The students will be able to find new techniques and areas which are helpful for their applications

Max. Marks: 100 Min. Passing Marks: 40

Dissertation

Note:

Students under the supervision of a faculty member will be selecting a topic from their field of specialization for the dissertation work. The dissertation will be field work based applying the techniques learned by the student in practical. It must be of minimum 100 pages with 10 to 15 maps and diagrams / charts prepared by the student. Topic of the dissertation will be selected by the student in first semester. Introductory details such as identification and importance of the problem, selection of study area, review of literature, objectives, hypotheses etc., of the topic will be covered in this semester. Evaluation in each semester will be done from the work done in each semester.

Research design / conceptual framework, methodology, data collection tabulation etc. will be done in the second semester. Evaluation of dissertation will be done on the bases of the work completed in this semester.

Chapter plan, statistical & cartographic analyses of data, mapping etc. will be done in third semester. Hypotheses testing, research findings and suggestions will be done in fourth semester.

The dissertation report, duly signed by the teacher/ supervisor concerned, will be submitted in the college before the theory examination of the university or as per instructions given by the university. There will be internal viva-voce on dissertation. The viva-voce examination will be purely internal and shall be conducted before sending the dissertation to the university. The student will present his/ her findings before the audience of department teachers and P.G. students. The supervisor will act as an internal examiner, and the internal marks will be awarded by him/ her.

Distribution of marks for dissertation course in each semester will be as follows:

1. Evaluation - 50 Marks ((External)

2. Viva – voce - 50 Marks (Internal)