Department of Geography

SYLLABUS

(Course Curriculum & Marking Scheme)

B.A. Honours Semester I – VI

Geography

Session 2023-26

ESTD 1954

S.S.JAIN SUBODH P.G. (AUTONOMOUS) COLLEGE

Rambagh Circle, Jaipur – 302004

[Affiliated to the University of Rajasthan, Jaipur]

Rajasthan

Re-accredited with A++ Grade (3.82 CGPA-Highest in the country) by NAAC-UGC

81st Rank in India Ranking 2021 by NIRF-MHRD

Only college of Rajasthan ranked by NIRF, Ministry of Education, Govt. of India, (2019, 2020, 2021 & 2022)

College with "Star Status" recognized by DBT, Govt. of India, New Delhi

Declared as Model College by the Government of Rajasthan.

Department of Geography
B.A (Hons) SEMESTER I-VI, 2023-26
Credit Template: CBCS

CODE	COURSE TITLE/PAPER	COURSE TYPE	HRS/ WEEK	CREDITS
SEMESTER-I				
HGEO101	**Physical Geography : Lithosphere**	DSC-1	3T	3
HGEO102	**Geography of Rajasthan: Physical and Human Attributes**	DSC-2	3T	3
HGEO103	**Economic Geography**	DSC-3	3T	3
HGEO104	**Practical – I**	DSCP-I	12P	6
SEMESTER-II				
HGEO201	**Physical Geography : Atmosphere, Hydrosphere and Biosphere**	DSC-1	3T	3
HGEO202	**Geography of Rajasthan : Economic Aspects**	DSC-2	3T	3
HGEO203	**Theory of Economic Geography**	DSC-3	3T	3
HGEO204	**Practical-II**	DSCP-II	12P	6
SEMESTER-III				
HGEO301	**Geography of India: Resources and Economic characteristics**	DSC-1	3T	3
HGEO302	**Human Geography**	DSC-2	3T	3
HGEO303	**Fundamentals of Biogeography**	DSC-3	3T	3
HGEO304	**Practical-III**	DSCP-III	12P	6
Semester-IV				
HGEO401	**Geography of India : Socio-Culture, Economic and Environmental issues**	DSC-1	3T	3
HGEO402	**Ecology and Environment**	DSC-2	3T	3
HGEO403	**Statistical Methods in Geography**	DSC-3	3T	3
HGEO404	**Practical-IV**	DSCP-IV	12P	6
SEMESTER V				
HGEO501	**Geographical Thought**	DSC-1	3T	3
	Choose any two theory Paper from HGEO502, HGEO503,HGEO504,HGEO505			
HGEO502	**Geography of Resources**	DSE-2	3T	3
HGEO503	**Agriculture Geography**	DSE-3	3T	3
HGEO504	**Political Geography**	DSE-4	3T	3
HGEO505	**Cultural Geography**	DSE-5	3T	3
HGEO506	**Practical-V**	DSCP-V	12P	6
SEMESTER-VI				
HGEO601	**World Geography**	DSC-1	3T	3
	Choose any TWO Paper from BGEO602, BGEO603,BGEO604,BGEO605,BGEO606,BGEO607			

HGEO602	Geographical Methodologies	DSE-2	3T	3
HGEO603	Applied Geography	DSE-3	3T	3
HGEO604	Contemporary Issues in Geography	DSE-4	3T	3
HGEO605	Geography of Tourism	DSE-5	3T	3
HGEO606	Industrial Geography	DSE-6	3T	3
BGEO607	Project	DSE-7	3T	3
BGEO608	Practical-VI	DSCP-VI	12P	6
		Grand Total:	126	90

DSC - Discipline Specific Core, **DSE** - Discipline Specific Elective, **DSCP** - Discipline Specific Core Practical

PROGRAM OUTCOMES

➢ The main objective of this curriculum is to give the students a holistic understanding of the subject by putting equal weightage to the core content and techniques used in studying social sciences.

➢ The principle goal of the syllabus is to enable the students to enhance the subject knowledge and also helps to develop the research skill.

COURSE OUTCOMES

➢ To tune with the changing nature of Geography adequate emphasis is rendered on applied aspects of the subject such as emerging techniques of mapping and field based data generation.

➢ This syllabus is designed to impart the basic knowledge on Geography as a spatial science and train the undergraduates to secure employment in the sectors of geospatial analysis, development and planning, mapping and surveying.

B.A. /B.Sc. Geography, Semester-I Session-2023-24
Paper Code-BGEO101/HGEO101
Paper I –Physical Geography: Lithosphere

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

This paper in Physical Geography introduces students to the earth's form and relationships between its physical components. It aims to provide a fundamental understanding of the main physical aspects of the Earth. Through the course, students learn about the earth's structure and dynamic processes. This will help the core group to get the basic knowledge to understand about the earth's physical environment and to comprehend the relationships between Geomorphologic landforms, concepts, and processes.

Unit-I

Meaning, definition, nature and scope of Physical Geography, Main divisions of Physical Geography, Origin of the Earth- Hypothesis of Kant, Laplace, Chamberlin and James Jeans, Big Bang Theory ,Views on Boson.

Unit-II

Interior of the Earth, Origin of Continents and Oceans- Continental Drift Theory of Wegener, Sea floor spreading, Plate tectonic theory, Concept of Isostasy: Views of Airy and Pratt.

Unit-III

Rocks, Drainage pattern, Earth movements - Endogenetic forces: Epeirogenic and Orogenic, Earthquakes, Volcanoes and related landforms, Concept of Geosynclines, Mountain Building Theories - Kober and Homes.

Unit-IV

Earth movements: Exogenetic forces, Weathering- types and results, Erosion and evolution of landforms (Erosional and Depositional): Fluvial, Karst, Aeolian, Glacial, and Coastal. Cycle of erosion – Davis and Penck.

Essential Readings

Khullar ,D.R.   : Physical Geography, Kalyani Publication, New Delhi

Gautam , Alka   : Physical Geography, Sharda Publication, Prayagraj

Singh, Savindra   : Physical Geography, Pravalika Publication, Prayagraj

Husain, Majid   : Fundamentals of Physical Geography, Rawat Publication,Jawahar Nagar, Jaipur.

Lal, D.S.   : Physical Geography, Sharda Pustak Bhawan, Prayagraj.

Strahler, A.N.   : Modern Physical Geography, John Witey and Sons, Inc.New York.

Bunnett, R.B.   :   Physical Geography in Diagrams, Orient Longman, NewDelhi.

सिंह, सविन्द्र   : भौतिक भूगोल का स्वरूप, प्रवालिका प्रकाशन, प्रयागराज।

जोशी, यशवन्त गोविन्द   : भूगोल के भौतिक आधार (स्थल मण्डल), मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल।

लाल, डी.एस.   : भौतिक भूगोल, शारदा पुस्तक भवन, प्रयागराज।

सिंह, के.एन.   : भौतिक भूगोल, ज्ञानोदय प्रकाशन, गौरखपुर।

शर्मा, एच.एस., शर्मा, एम.एल., मिश्रा, आर.एन.   : भौतिक भूगोल, पंचशील प्रकाशन, जयपुर।

हुसैन, माजिद   : भौतिक भूगोल, रावत पब्लिकेशन्स, जयपुर।

मामोरिया, सी.बी., जोशी, रतन   : भौतिक भूगोल, साहित्य भवन पब्लिकेशन्स, आगरा।

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B.A./B.Sc. Geography, Semester-I Session-2023-24
Paper Code : BGEO102/HGEO102
Paper II –Geography of Rajasthan: Physical and Human Attributes

			(Hons.)
Marks Distribution			
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in rajasthan map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

This paper offers an introduction to Rajasthan, encompassing its Geographical features, climate, water, soil and human, resources and other significant aspects. It aims to provide students, both from within and outside the state, with a comprehensive overview of this arid and semi-arid region of the country. By studying this paper, students will gain essential knowledge about Rajasthan, which will prove beneficial for State level and other competitive exams, helping them to familiarize themselves with the state's fundamental information.

Unit-I

Geological structure, Physical divisions of Rajasthan, Climate: Climatic regions of Rajasthan, Drought and Famine in Rajasthan, Water resource: Drainage Systems and Lakes, water availability, problems and conservation.

Unit-II

Classification and distribution of soils in Rajasthan, soil erosion and conservation, Desertification, Desert Development Programme, Types of Natural Vegetation, Forest depletion, conservation, and government policies.

Unit-III

Population: Factors affecting growth, distribution and density of population in Rajasthan, Qualitative and Quantitative aspects of Population, Population Problems and measures.

Unit-IV

Regional disparity, Tribes of Rajasthan: Bhil, Garasia , Sahariya, Damor, and their problems, Programmes for their development.

Essential Readings

Sharma , P.K. & Mishra, Preeti	:	Geography of Rajasthan, Pareek Publication, Jaipur.
Saxena, H. M.		Geography of Rajasthan, Rawat Publication, Jaipur.
Bhalla, L.R.	:	Geography of Rajasthan, Kuldeep Publication, Jaipur.
Mishra, V.C.	:	Geography of Rajasthan, NBT, Delhi.
Sharma , H.S. & Sharma, Ganesh	:	Geography of Rajasthan, Panchsheel Prakashan, Jaipur.
Chauhan, T.S.		Geography of Rajasthan, Scientific Publishers, Jodhpur.

शर्मा, बी.एल.	:	राजस्थान का भूगोल, कॉलेज बुक डिपो, जयपुर।
शर्मा, एच, एस. एवं शर्मा, एम.एल. तथा मिश्रा, आर.एन.	:	राजस्थान का भूगोल, पंचशील प्रकाशन, जयपुर।
तिवारी, ए.के. एवं सक्सैना, एच.एम.	:	राजस्थान का भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
भल्ला, एल.आर.	:	राजस्थान का भूगोल, कुलदीप पब्लिकेशन, जयपुर।

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Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Asseseement)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		8Marks
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

This paper deals with the study of five economic sectors, grouped together by type of economic activity: primary, secondary, tertiary, quaternary, and quinary and their spatial locational analysis.

Unit-I

Changing scope of Economic Geography, Study of the Geographical factors affecting consumption, production and distribution of Principle raw materials.

Unit-II

Utilization of natural resources and conservation of Soil, Forest, Water & Fisheries and their Management.

Unit-III

Agricultural types- Subsistence Agriculture, Mediterranean Agriculture and Plantation Agriculture; Major crops of the world: Rice, Wheat, Cotton, Tea and Sugarcane.

Unit-IV

Important minerals and their distribution:- Iron, Bauxite, Coal and Petroleum.

Essential Readings

Hartshorn & Alexander	:	Economic Geography, Prentice Hall of India, New Delhi.
Alexandra J.W.	:	Economic Geography, Mc Graw Hill, New Delhi.
Hodder, B.W. & Lee, Roger	:	Economic Geography, Rawat Publication, Jaipur.
Robinson, H.	:	Economic Geography, Mac. Donald & Evans, London.
Saxena, H.M.	:	Economic Geography, Rawat Publication, Jaipur.
Gautam, Alka	:	Geography of Resources Explitation, Conservation and Management, Sharda Pustak Bhawan, Prayagraj.

सिंह, जगदीश एवं

सिंह काशीनाथ : आर्थिक भूगोल के मूल तत्व - ज्ञानोदय प्रकाशन, गोरखपुर।

कौशिक, एस.डी. : मानव तथा आर्थिक भूगोल, रस्तोगी प्रकाशन, मेरठ।

B.A./B.Sc. Geography, Semester-I Session-2023-24
Paper Code : BGEO103/HGEO104
Practical- I

Marks Distribution				(Hons)
Total Marks :			50 M	150 M
Minimum Passing Marks :			20 M	60M
		ESE (External)	30M	90M
		CIA (Internal)	20M	60 M
1.)	ESE		30 M	90M
	(i) Written Paper on Lab work (02 Hours) 4 (ques) x 5 marks		20 M	(4x15)= 60 M
	(Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit			
	(ii) Record/File work and Viva-Voce (02 Hours) (7+3)		10 M	(21+9) =30 M
2.)	CIA		20 M	60M
	(i) Written test (01 hour) 2(ques.) x6 marks		12 M	(2x18) = 36M
	(Students will have to answer any 2 ques. out of 4 ques.)			
	(ii) Practice Record work and Viva-Voce (1 hour) (5+3)		08 M	(15+9) = 24 M

Paper Outcomes

This paper is aimed to develop training skills and practical knowledge of the subject. The paper dealt with the important Geographical concepts such as Scale, contours and Profiles. The student will learn the various methods of relief representation.

Unit – I

Scales: Definition and types, Conversion of R.F into Statement and Vis-a-versa, Construction of Plain, Comparative, Diagonal Scale and Vernier Scale, Enlargement and Reduction of Maps- Graphical Techniques.

Unit – II

Representation of Relief: Methods of showing Relief: Hachures, Hill Shading, Spot heights, Bench Marks,Trigonometrical station, Form lines and Contours.

Unit – III

Contours : Study of Contours of Important Landforms - Types of Slopes, Simple and Conical Hill, Plateau, Ridge, Saddle, V-shaped Valley, U-shaped Valley, Hanging valley, Waterfall, Escarpment, Spur, Lake, Caldera, Simple Meander, Ox-bow lake and Cirque.

Unit – IV

Profiles : Definition and types, Methods of Drawing of a Profile- strip Method and Perpendicular method, Significance of Vertical exaggeration while drawing profiles of mountainous and plain areas; Drawing of Profile - Serial Profile, Superimposed Profile, Projected Profile, Composite Profile.

Essential Readings:

Mishra,R.N. & Sharma,P.K.	:	Practical Geography, Pareek Publication, Jaipur
Singh, L.R.	:	Fundamentals of Practical Geography, Sharda Pustak Bhawan, Prayagraj.
Sharma, S.R.	:	Practical Geography, College Book depot, Jaipur.
Crampton, J.	:	Mapping, Black well, Publications, Meerut, U.P.
Singh, R. L., Singh Rana, P.B.	:	Elements of Practical Geography, Kalyani Publishers, Delhi.
Khullar,D.R.	:	Essential of Practical Geography, Kalyani Publishers, Delhi.
Sarkar,Ashish	:	Practical Geography, A systematic Approach Orient Black Swan, Kolkata
शर्मा, जे.पी.	:	प्रयोगात्मक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।
अय्यर, एन.पी.	:	सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।
राव, बी.पी.	:	प्रायोगिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।

B.A./B.Sc. Geography, Semester-II Session-2023-24
Paper Code: BGEO201/HGEO201

Paper – I   Physical Geography: Atmosphere, Hydrosphere and Biosphere

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

The students will be able to learn different elements and composition of weather and climate, oceanic current and its associated phenomenon. The course content will give complete picture about the atmosphere, hydrosphere and biosphere. Students will also develop in-depth knowledge of upper atmospheric conditions and cyclonic features.

Unit-I
Composition and structure of Atmosphere, Insolation, Heat budget. Temperature: distribution, Inversion of temperature Atmospheric Pressures - Pressure belts and Winds, Jet Stream.

Unit-II
Air Masses, Cyclones, Anti-cyclones and associated weathers. Classification of World Climate – Koppen and Thornthwaite scheme, Climate change and Global Warming.

Unit-III
Bottom Topography of the Indian, Atlantic, and Pacific Oceans, Ocean temperature, Salinity of Oceans, Ocean Deposits, Ocean Movements – Tides and Currents, Coral Reefs.

Unit-IV
Biosphere and its components, Ecosystem and Ecology, Biome: Equatorial rainforest, Monsoon, Savana and Temperate grasslands, Biodiversity.

Essential Readings

Crtchifield, J.H.	:	General Climatology Prentic Hall India, New Delhi.
Lal, D.S.	:	Climatology & Oceanography, Sharda Pustak Bhawan, Prayagraj.
Siddharth, K.	:	Atmosphere, Weather & Climate, Kitab Mahal, New Delhi.
Siddharth, K.	:	Oceanography : A Brief Introduction, Kitab Mahal, New Delhi.
Singh, Savindra	:	Climatology, Pravalika Publication, Prayagraj.
Singh, Savindra	:	Oceanography, Pravalika Publication, Prayagraj.
सिंह, सविन्द्र	:	जलवायु विज्ञान, प्रवालिका प्रकाशन, प्रयागराज।
बंसल, एस.सी.	:	जलवायु एवं समुद्र विज्ञान, वसुन्धरा प्रकाशन, गोरखपुर।
लाल, डी. एस.	:	जलवायु एवं समुद्र विज्ञान, केदारनाथ-रामनाथ, मेरठ।
गौतम, अल्का	:	जलवायु एवं समुद्र विज्ञान, रस्तोगी प्रकाशन, मेरठ।
बंसल, राजीव	:	जलवायु एवं समुद्र विज्ञान, एस.बी.पी.डी. पब्लिकेशन, आगरा।
शर्मा, एच.एस., शर्मा, एम.एल., मिश्रा, आर.एन.	:	भौतिक भूगोल, पंचशील प्रकाशन, जयपुर।

B.A./B.Sc. Geography, Semester-II Session-2023-24

Paper Code: BGEO202/HGEO202

Paper – II Geography of Rajasthan : Economic Aspects

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in Rajasthan map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

The paper aims to familiarize students with the abundant resources in the state's physical environment and their role in driving economic development. By studying these resources, students will gain insights into their accessibility and importance for driving economic development and fostering overall growth within the region. The paper aims to provide a comprehensive overview of the various natural assets like mineral resources, water bodies, fertile lands, and other physical elements that contribute to the state's economic potential.

Unit-I

Land utilization in Rajasthan, Agriculture- characteristics, problems and development, Major Crops, Livestock, and Dairy Development in Rajasthan.

Unit-II

Irrigation Development - Sources of Irrigation in Rajasthan, Irrigational Projects: Detailed study of Indira Gandhi Canal Project, Chambal Project, Mahi Bajaj Sagar Project .Impacts of Projects on Physical and Socio-economic Aspects.

Unit-III

Mineral Resource: Metallic and non-metallic minerals, Power Resource: Renewable and Non-renewable, Green energy as a solution of energy crisis in Rajasthan.

Unit-IV

Industries -Textile, Sugar, Cement, Granite and Marble, Industrial Development,Trade and Transport development - Railways and roadways.

Essential Readings

Bhalla, L.R.	:	Geography of Rajasthan, Kuldeep Publication, Jaipur.
Sharma,P.K.& Mishra, Preeti	:	Geography of Rajasthan, Pareek Publication, Jaipur.
Sharma,H.M.	:	Geography of Rajasthan, Rawat Publication, Jaipur.
Mishra, V.C.	:	Geography of Rajasthan, NBT, Delhi.
Sharma, H.S. and Sharma, Ganesh	:	Geography of Rajasthan, Panchsheel Prakashan, Jaipur.
Chauhan, T.S.		Geography of Rajasthan, Scientific Publishers, Jodhpur

शर्मा, बी.एल.   : राजस्थान का भूगोल, कॉलेज बुक डिपो, जयपुर।

शर्मा, एच, एस. एवं शर्मा,

एम.एल. तथा मिश्रा, आर.एन.   : राजस्थान का भूगोल, पंचशील प्रकाशन, जयपुर।

तिवारी, ए.के. एवं सक्सैना, एच.एम. : राजस्थान का भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।

B.A. (Hons) Semester-II Session-2023-24
Paper Code: HGEO203

Paper – III Theory of Economic Geography

Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Asseseement)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		8 Marks
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

This paper deals with the study of five economic sectors, grouped together by type of economic activity: primary, secondary, tertiary, quaternary, and quinary and their spatial locational aspects.

Unit – I

Simple model of Economy, Spatial Structure of Economy, Environmentalrelations of the economic activities.

Unit – II

Manufacturing factors of Production : Theories of plant locations, Weber's least cost theory, Losch's Economics of location, Smith's Spatial Margins.

Unit – III

Industrial region of the world, Major Manufacturing Industries and theirlocalization, Iron-Steel and Cotton Textile, Transportation cost Analysis and network Models.

Unit – IV

Economic Regions of India, Recent Economic policy of India, Global economy and its impact on environment.

Essential Readings

Hartshorn & Alexander	:	Economic Geography, Prentice Hall of India, New Delhi.
Alexandra J.W.	:	Economic Geography, Mc Graw Hill, New Delhi.
Hodder, B.W. & Lee, Roger	:	Economic Geography, Rawat Publication, Jaipur.
Robinson, H.	:	Economic Geography, Mac. Donald & Evans, London.
Saxena, H.M.	:	Economic Geography, Rawat Publication, Jaipur.
Gautam, Alka	:	Geography of Resources Explitation, Conservation and Management, Sharda Pustak Bhawan, Prayagraj.

सिंह, जगदीश एवं

सिंह काशीनाथ   : आर्थिक भूगोल के मूल तत्व - ज्ञानोदय प्रकाशन, गोरखपुर।

कौशिक, एस.डी.   : मानव तथा आर्थिक भूगोल, रस्तोगी प्रकाशन, मेरठ।

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Practical – II

Marks Distribution			(Hons)
Total Marks :		50 M	150 M
Minimum Passing Marks :		20 M	60M
	ESE (External)	30M	90M
	CIA (Internal)	20M	60 M
1.) ESE		30 M	90M
(i)Written Paper on Lab work (02 Hours) 4 (ques) x 3 marks		12 M	(4 x 9) = 36 M
(Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit)			
(ii) Field Survey and viva-voce (7+3)		10M	(21+9) = 30M
(iii) Record/File work and Viva-Voce (02 Hours) (5 +3)		8M	(15 +9) = 24M
2.) CIA		20 M	60M
(i) Written test (01 hour) 2(ques.) x6 marks		12 M	(2x18) = 36 M
(Students will have to answer any 2 ques. out of 4 ques.)			
(ii) Practice Record work and Viva-Voce (1 hour) (5+3)		08 M	(15 +9) = 24 M

Paper Outcomes

Diagrams and Graphs play an important role in the field of Geography. The student will learn the tabulation, calculation and representation of data through various types of Diagrams and Graphs. With the help of various weather maps and instruments, student will be able to learn about the ground truth analysis andinterpretation.

Unit – I
Diagrams: Meaning, Definition, types and uses. One Dimensional Diagrams (Simple Pyramid Diagram, Simple Bar Diagram, Compound Bar Diagram, Multiple Bar Diagram), Battleship Diagram.

Unit – II
Graphs: Meaning**,** Definition, types and uses. Simple Line graph, Combined line graph, Combined line and Bar Graph.

Unit – III
Weather maps and Instruments:
Study and Interpretation of Indian weather maps of January and July, Knowledge of Weather Instrument : Simple Thermometer, Six's Maximum and Minimum Thermometer, Wet and Dry Bulb Thermometer, Mercury Barometer, Aneroid Barometer, Wind Vane, Anemometer, Rain Gauge, Weather Symbols. Construction of a Climograph ,Climatograph and Hythergraph. Drawing of Isobar, Isotherms and Isohytes Map (always use recent data).

Unit – IV
Chain and Tape Survey:
Introduction to the techniques of field survey in Geography. Importance of Chain and Tape Surveying, Stages of Surveying, Study of Chain and Tape Survey instruments and their use in the survey. Tie line and Base line.
Methods of Surveying-: 1) Open Traverse 2) Closed Traverse
Merits and Demerits of Chain and Tape survey.

Essential Readings :

Mishra, R.N.& Sharma, P.K. : Practical Geography, Pareek Publications, Jaipur.

Singh, L.R. : Fundamentals of Practical Geography, Sharda Pub. Prayagraj.

Sharma, S.R. : Practical Geography, College Book depot, Jaipur

Crampton, J. : Mapping, Black Well Publications, Meerut, U.P.

Singh, R. L. : Elements of Practical Geography, Students Friends, Prayagraj.

शर्मा, जे.पी. : प्रायोगिक भूगोल, रस्तौगी पब्लिकेशन, मेरठ।

अय्यर, एन.पी. : सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।

राव, बी.पी. : प्रायोगिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।

खुल्लर, डी.आर. : प्रयोगात्मक भूगोल के तत्व, न्यू एकेडमिक पब्लिशिंग कम्पनी, जालन्धर।

जैन एवं मामोरिया : प्रयोगात्मक भूगोल एवं मानचित्रांकन, साहित्य भवन, आगरा।

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S.S.JAIN SUBODH P.G. COLLEGE (AUTONOMOUS),

RAMBAGH CIRCLE, JAIPUR-302004
B.A./B.Sc. Geography- Semester- III Session-2024-25
Paper Code: BGEO301/HGEO301

Paper – I Geography of India : Resources and Economic characteristics

Marks Distribution				(Hons.)
TOTAL MARKS		=	50M	75M
ESE (End Semester Exam)		=	35M	54M
CIA (Continuous Internal Assessment)		=	15M	21 M
ESE contains Part -A and Part -B				
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark		=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in India map, supplied by exam centre				
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark		=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.				
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks		=	28M.	4x10 = 40 M
Maximum Marks		=	50M.	75M
Minimum Passing Marks		=	20 M	30M

Paper Outcomes

This paper offers students a comprehensive regional study of India. It provides in-depth knowledge of the country's diverse landscapes. Students will gain insights into complex drainage patterns, climatic influences, and agricultural practices. Additionally, they will understand the significance of industrial developments and transportation systems for India's economic growth. Course outcomes include fostering informed decision-making and critical thinking to enhance understanding of India's regional dynamics.

Unit-I

Physiography, Drainage, Climate: Mechanism of Indian monsoons, Classification of Climate.

Unit-II

Resources- Soil distribution and types, Minerals: Iron, Copper and Aluminum, Energy resources: Renewable and Non-Renewable: Coal, Petroleum, Solar and Wind, Agriculture – Factors affecting, Major Crops: Distribution and Production; Wheat, Rice, Sugarcane, Cotton, Green Revolution vis-à-vis traditional farming, Agro-climatic Regions.

Unit-III

Industries- Evolution of Industries: Major Industrial Regions, Industries - Cotton, Iron and Steel, Chemical and Automobile, Industrial Development and Recent Industrial Policy.

Unit-IV

Transport and Communication: Road, Railway Networks and their complementary roles in Regional Development, Regionalization of India: Physiographic (R. L. Singh), Economic (P. Sengupta).

Essential Readings

Tritha, R.	:	Geography of India, Rawat Publication, New Delhi.
Khullar ,D.R.		India, A Comprehensive Geograhy,Kalyani Publishers, New Delhi.
Gautam, Alka	:	Advanced Geography of India, Sharda Publication, Prayagraj.
Singh, R.L.	:	India-A Regional Geography, UBS Publication &Distributors Ltd, New Delhi.
Singh, Jagdish	:	India-A, Comprehensive Systematic Geography,Gayonodaya Prakasan, Gorkhpur.
Tiwari, R.C.		Geography of India, Pravalika Publications, Prayagraj.
सिंह, गोपाल	:	भारत का भूगोल, आत्माराम एण्ड सन्स, नई दिल्ली।
तिवाड़ी, आर.सी.	:	भारत का भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।
बंसल, सुरेश चन्द्र	:	भारत का वृहद भूगोल, मिनाक्षी प्रकाशन, मेरठ।
हुसैन, माजिद	:	भारत का भूगोल, टाटा मैग्राहिल्स पब्लिशिंग कम्पनी लि. नई दिल्ली।
मामोरिया, चतुर्भुज	:	आधुनिक भारत का वृहद भूगोल, प्रतियोगिता साहित्य सीरिज, आगरा।
शर्मा, एच.एस., शर्मा, एम.एल., शर्मा, जे.के.	:	भारत का नूतन भूगोल, आर.बी.डी., जयपुर।

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Paper – II Human Geography

Marks Distribution				(Hons.)
TOTAL MARKS		=	**50M**	**75M**
ESE (End Semester Exam)		=	**35M**	**54M**
CIA (Continuous Internal Assessment)		=	**15M**	**21 M**
ESE contains Part -A and Part -B				
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark		=	**03M**	**3x2= 06 M**
Student will have to locate 3 out of 5 in world map, supplied by exam centre				
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark		=	**04M**	**4x2 = 08 M**
Student will have to attempt 4 out of 5 ques.				
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks		=	**28M.**	**4x10 = 40 M**
Maximum Marks		=	**50M.**	**75M**
Minimum Passing Marks		=	**20 M**	**30M**

Paper Outcomes

The main objective of the paper is to facilitate students in understanding the intricate relationship between humans and the environment. By the course's completion, students will gain insights into the complex interplay and impact of human activities on the natural world. They will develop a deeper awareness of environmental issues and the importance of sustainable practices for a harmonious coexistence with the planet.

Unit - I

Introduction to Human Geography: Meaning, Definition, Nature, Scope and importance, Basic Principles of Human Geography. Essential elements of Human Geography: Brunhes and Huntington,

Unit - II

Environmental determinism, Possibilism, Stop and Go Determinism, Contribution of various Scholars- Fredrick Ratzel, Miss Ellen C. Semple, Vidal dela Blache.

Unit-III

Races of Mankind: Distribution and characteristics; Major tribes-Eskimo, Pygmy, Bushman, Naga, Gonds, Santhal and their charactericts, distribution, economy and development.

Unit-IV

World Population Growth, density and policies, Principal Human Agglomerations (Ecumene and non - Ecumene). Migration, - Causes, types and Consequences, Urbanization- trends and problems.

Essential Readings

Tripathi, R.K.   :   Human Geography, Commonwealth.
Hussain, Majid   :   Human Geography, Rawat Publication, Jaipur.
Maurya,S.D.   Human Geography, Pravalika Publications, Prayagraj.
Singh, Kumar Nand   A Text Book of Human Geography, Rajesh Publications, Delhi.
मामोरिया, चतुर्भुज   :   मानव भूगोल, साहित्य भवन पब्लिकेशन्स, आगरा।

हुसैन, माजिद   :   मानव भूगोल, रावत पब्लिकेशन्स, जयपुर।

मौर्य, एस.डी.   :   मानव भूगोल, शारदा पुस्तक भवन, प्रयागराज।

बंसल, नरेश चन्द्र   :   मानव भूगोल, मिनाक्षी पब्लिकेशन, मेरठ।

कौशिक, एस.डी.   :   मानव भूगोल, रस्तौगी पब्लिकेशन, मेरठ।

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B.A. (Hons) Semester-III Session-2024-25
Paper Code: HGEO303

Paper - III Fundamentals of Biogeography

Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Asseseement)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		8 Marks
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

This paper helps the students to study the Geographic distribution of plants, animals, and other forms of life, their habitation patterns along with the factors responsible for variations in distribution. Students will learn the advance classification of vegetation and the preparation of maps of vegetation. Biogeographic studies make them aware of present-day distribution patterns of plant and animal forms, as reflected in biogeographic regions and many historical Geographical and current causes affecting the pattern.

Unit-I

Definition, scope and significance of Bio-geography, Basic ecological principles- Bioenergy, cycle in the terrestrial ecosystem and energy flow in Ecosystem.

Unit-II

Trophic levels and food chain, Drawin's theory of' evolution, Concept of' biome and community.

Unit-III

Origin and dispersal of flora and fauna, causes of extinction, conservation programme.

Unit-IV

Bio-Geographical regions: Meaning, scope and distribution, Major Floral and Faunal regions, Marine Biogeography: Meaning and scope, Pelagic, Benthic and Coastal Habitats.

Essential Readings

Singh Savindra   : Biogeography, Pravalika Publications, Prayagraj.
Robinson, H.   : Biogeography, Eles, Mc. Donald and Evans London, 1982.
Coin, Stanley, A.   : Foundation of Plant Geography, Hafner Publishing Co. Ltd., 1971.
Darlington, P.J.   : Zoo Geography : The Geographical Distribution of Animals, Academic Publishers.
Agarwal, L.C.   : Biogeography, Rawat Publication, Jaipur.

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Marks Distribution			(Hons)
Total Marks :		50 M	150 M
Minimum Passing Marks :		20 M	60M
	ESE (External)	30M	90M
	CIA (Internal)	20M	60 M
1.) ESE		30 M	90M
(ii) Written Paper on Lab work (02 Hours) 4 (ques) x 5 marks (Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit		20 M	(4x15)= 60 M
(ii) Record/File work and Viva-Voce (02 Hours) (7+3)		10 M	(21+9) =30 M
2.) CIA		20 M	60M
(i) Written test (01 hour) 2(ques.) x6 marks (Students will have to answer any 2 ques. out of 4 ques.)		12 M	(2x18) = 36M
(ii) Practice Record work and Viva-Voce (1 hour) (5+3)		08 M	(15+9) = 24 M

Paper Outcomes

Maps and Diagrams are powerful tools that help in visualizing and understanding various Geographical concepts, processes, and patterns. The student will learn the tabulation and representation of data through charts, diagrams, and distributional maps and also learn statistical techniques with relevant examples.

Unit – I

Introduction of Cartography: Definition, history, development, tools and techniques.

Unit – II

Maps: Quantitative Map: Dot Map, Isopleth Map, Choropleth Map. Qualitative Map: Picture Maps, Chorochromatic, Chororschematic Maps.

Unit – III

Representation of Statistical Data -

Two and Three dimensional diagrams, their construction,properties and uses in   special   reference to the following diagrams representing Population, Agriculture and Transportation.

1. Pyramid diagram-   i) Simple Pyramid Diagram ii) Compound Pyramid Diagram iii) Superimposed Pyramid Diagram.
2. Square diagram -   i) Unit Square Diagram ii) Square Block Diagram
3. Rectangular diagram - i)Simple Rectangular Diagram ii) Divided Rectangle Diagram
4. Sector/Pie diagram
5. Ring diagram
6. Spherical diagram
7. Cube Diagram
8. Traffic Flow

Unit – IV

Statistical Methods - Measurement of Central Tendencies- Mean, Median and Mode.

Mean Deviation, Quartile Deviation, Standard Deviation, Correlation in Geography.

Essential Readings

Mishra,R.N Sharma, P.K.	:	Practical Geography, Pareek Publishers, Jaipur.
Singh, L.R.	:	Fundamentals of Practical Geography, Sharda Publication, Prayagraj.
Khullar, D.R		Essential of Practical Geography, Choukhamba Auriyantaliya.
Sharma, S.R.	:	Practical Geography, College Book Depot,Jaipur.
Crampton, J.	:	Mapping, Black well Publications, Meerut, U.P.
Singh, R. L.	:	Elements of Practical Geography, Students Friends, Prayagraj.
Sarkar , Ashis		Practical Geography, A Systematic Approach, Orient Black Swan, Kolkata.

शर्मा, जे.पी.   :   प्रायोगिक भूगोल, रस्तौगी पब्लिकेशन, मेरठ।

अय्यर, एन.पी.   :   सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।

राव, बी.पी.   :   प्रायोगिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।

खुल्लर, डी.आर.   :   प्रयोगात्मक भूगोल के तत्व, न्यू एकेडमिक पब्लिशिंग कम्पनी, जालन्धर।

जैन एवं मामोरिया   :   प्रयोगात्मक भूगोल एवं मानचित्रांकन, साहित्य भवन, आगरा।

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Paper – I Geography of India : Socio-Culture, Economic and Environmental issues

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in India map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

The paper provides students with an opportunity to conduct an in-depth study of India, delving into its culture, settlements, political scenario, and planning intricately. By engaging with this course, students will gain comprehensive knowledge about the country's diverse cultural heritage, various settlements, political landscape, and urban planning practices. This detailed understanding of India's multifaceted aspects will enable students to develop a well-rounded perspective of the nation's social, political, and urban dynamics.

Unit-I
Cultural Setting, Major tribes: Bhil and Naga and their problems; Population: HDI, Literacy and Gender, Quantitative Aspects: Growth, Distribution and Density of Population, Population Problems and Policies. Urbanization and related problems.

Unit-II
Regional Development and Planning: Regional Disparities Planning Regions and Regional Planning. Developmental Planning: Multi-level Planning.

Unit-III
Indian Economy–Factors affecting Indian Economy, Economic policies, International trade. Contemporary Issues - Regional Disparity, Globalization. Impact of Development on Environment.

Unit-IV
Contemporary Issues– Deforestation, Environmental Hazards–Floods and Droughts, Environment Strategies and Policies.

Essential Readings

Tritha, R.	:	Geography of India, Rawat Publication, New Delhi.
Khullar ,D.R.		India, A Comprehensive Geography ,Kalyani Publishers, New Delhi.
Gautam, Alka	:	Advanced Geography of India, Sharda Publication, Prayagraj.
Singh, R.L.	:	India-A Regional Geography, UBS Publication &Distributors Ltd, New Delhi.
Singh, Jagdish	:	India-A, Comprehensive Systematic Geography,Gayonodaya Prakasan, Gorkhpur,
Tiwari, R.C.		Geography of India, Pravalika Publications, Prayagraj.
सिंह, गोपाल	:	भारत का भूगोल, आत्माराम एण्ड सन्स, नई दिल्ली।
तिवाड़ी, आर.सी.	:	भारत का भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।
बंसल, सुरेश चन्द्र	:	भारत का वृहद भूगोल, मिनाक्षी प्रकाशन, मेरठ।
हुसैन, माजिद	:	भारत का भूगोल, टाटा मैग्राहिल्स पब्लिशिंग कम्पनी लि. नई दिल्ली।
मामोरिया, चतुर्भुज	:	आधुनिक भारत का वृहद भूगोल, प्रतियोगिता साहित्य सीरिज, आगरा।
शर्मा, एच.एस., शर्मा, एम.एल., शर्मा, जे.के.	:	भारत का नूतन भूगोल, आर.बी.डी., जयपुर।

Paper – II Ecology and Environment

Marks Distribution				(Hons.)
TOTAL MARKS		=	**50M**	**75M**
ESE (End Semester Exam)		=	35M	54M
CIA (Continuous Internal Assessment)		=	15M	21 M
ESE contains Part -A and Part -B				
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark		=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre				
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark		=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.				
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks		=	28M.	4x10 = 40 M
Maximum Marks		=	50M.	75M
Minimum Passing Marks		=	20 M	30M

Paper Outcomes

This is a learning method to know the surrounding physical environment with all its components and elements and also to understand how all those work like: life processes, adaptation and biodiversity (Ecology).

Unit-I

Definition, Nature and Scope of Ecology, Ecological changes over space and time, Ecosystem stability and disturbance.

Unit-II

Managed Ecosystems: agricultural, urban, case studies of human induced ecological changes, Desert Ecosystems with special reference to Rajasthan

Unit-III

Wetland ecosystems with special reference to Rajasthan, Wetland, Agricultural ecosystem with special reference to Indira Gandhi Nahar Pariyojna (IGNP).

Unit-IV

Industrial affluent and its effect on fresh water biology and riverine ecosystem, management practice with special reference to Rajasthan.

Essential Readings

Saxena, K.K. : Environmental Studies, University Book House, Jaipur.

Singh, R.B., Thakur, D.K., : Environmental Studies, RBD Publication, Jaipur.

Edington, J.M. : Ecology Environmental Planning, Champanand Hall, London.

Sharma, P.D. : Fundamentals of Ecology, Rastogi Publication, Meerut, U.P.

नेगी, पी.एस. : पारिस्थितिकीय विकास एवं पर्यावरण भूगोल, रस्तोगी प्रकाशन, मेरठ।

सक्सेना, एच.एम. : पर्यावरण एवं पारिस्थितिकी भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।

सिंह, सविन्द्र : पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद।

सिंह, सविन्द्र : जैव भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद।

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B.A. (Hons) Semester-IV Session-2024-25

Paper Code - **HGEO403**

Paper – III Statistical Methods in Geography

Marks distribution			
ESE (End Semester Exam)		=	54 Marks
CIA (Continuous Internal Assessment)		=	21 Marks
Total		=	75 Marks
Minimum Passing Marks		=	30 Marks
ESE contains Part A and Part B			
Part-A	: 14 Ques. – Short Ans. (One word / 15 word) (Comp.) – 14 Ques. X 1 Mark Each	=	14 Marks
Part-B	: Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
	Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

This paper is design to impart the basic knowledge of quantitative technique in geographical studies and their applications in representation of the data and other research work.

Unit-I

Measures of central tendency - median, mode, arithmetic mean and geometric mean, measure of variations of dispersion - crude range, quartile deviation, standard deviation, Coefficient of variation.

Unit-II

Measures of Skewness- Kurtosis, correlation (Karl Pearson and Spearman) and regression.

Unit-III

Theory of probability-basic principles, probability distribution and theorems of Probability.

Unit-IV

Surface and Models – Gravity Potential model, Spatial Interpolation and trend,Surface analysis.

Essential Readings

Hammond R & P.S. Mccullagh	:	Quantitative Techniques in Geography : An Introduction Clearendan press, Oxford, U.K.
David Unwin	:	Introductory Spatial Analysis, Methuen, London , 1981.
Johnston, R.J.	:	Multivariate Statistical Analysis in Geography,Longman, London.
John P. Cole & Cuchlanie A.M. King	:	Quantitative Geography, Johri Witey, London 1968.
Mahmood, Aslam	:	Quantitative Techniques in Geography, JawaharPub. New Delhi.
Nagar, K.N.	:	Elements of Statistics, Meenaxi Prakashan, Meerut.
Gupta, S.P.	:	Statistical Methods, S.C. Chand & Co., New Delhi.
गुप्ता एस.पी., गौतम अल्का	:	सांख्यिकीय विधियां, शारदा पुस्तक भवन, इलाहाबाद।
नागर, कैलाश नाथ	:	सांख्यिकी के मूल तत्व, मिनाक्षी प्रकाशन, मेरठ।
रिज्वी, एस.एम.	:	सांख्यिकीय भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
श्रीवास्तव, वी.के.	:	भूगोल की सांख्यिकीय विधियां, वसुन्धरा प्रकाशन, गोरखपुर।

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Marks Distribution			(Hons)
Total Marks :		**50 M**	**150 M**
Minimum Passing Marks :		**20 M**	**60M**
	ESE (External)	30M	90M
	CIA (Internal)	20M	60 M
1.) **ESE**		**30 M**	**90M**
(i)Written Paper			
on Lab work (02 Hours) 4 (ques) x 3 marks		12 M	(4 x 9) = 36 M
(Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit)			
(ii) **Field Survey and viva-voce (7+3)**		**10M**	(21+9) = 30M
(iii) Record/File work and Viva-Voce (02 Hours) (5 +3)		8M	(15 +9) = 24M
2.) **CIA**		**20 M**	**60M**
(i) Written test (01 hour) 2(ques.) x6 marks		12 M	(2x18) = 36 M
(Students will have to answer any 2 ques. out of 4 ques.)			
(ii) Practice Record work and Viva-Voce (1 hour) (5+3)		08 M	(15 +9) = 24 M

Paper Outcomes

The main objective of the paper is to understand the basic concept of Survey and surveying. Model is a device for understanding the vast interacting system comprising all humanity and its natural environment on the surface of the earth. The student will learn the tools and techniques of chart and model making and enhance the skill of evaluation and analysis.

Unit – I

Surveying: The art of surveying, history of surveying, scope, utility, problems and classification of surveying, Methods of surveying: traverse – open and closed.

Unit – II

Prismatic Compass Survey: Introduction**,** use and applications of Prismatic Compass Survey, Importance of Prismatic Compass Surveying, Characteristics, merits and demerits of this survey. Study of the instruments used in this Survey.

Unit – III

Methods – Radiation and Intersection methods; Open and Closed traverse. Calculation of correction of bearings; Closing Error - Bowditch Method.

Unit – IV

Model and Chart- Tools and techniques of and Model Making, Meaning, definition, scope and types of chart, Components of charts, Importance of charts in Geography. Model and Chart making material- Drawing sheet, Pen, Pencils, Eraser, Sharpener, Brush, Stencils etc.

Essential Readings

Mishra, R.N.   : Practical Geography, Pareek Publishers, Jaipur.
Sharma, P.K.

Singh, L.R.   : Fundamentals of Practical Geography, ShardaPub. Prayagraj.

Khullar, D.R.   Essential of Practical Geography, Choukhamba Auriyantaliya.

Sharma, S.R.   : Practical Geography, College Book Depot, Jaipur.

Crampton, J.   : Mapping, Black well, Publications, Meerut, U.P.

Singh, R. L.   : Elements of Practical Geography, Students Ffriends, Prayagraj.

Sarkar , Ashis   Practical Geography, A Systematic Approach, Orient Black Swan, Kolkata.

शर्मा, जे.पी.   : प्रायोगिक भूगोल, रस्तौगी पब्लिकेशन, मेरठ।

अय्यर, एन.पी.   : सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।

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Marks Distribution				(Hons.)
TOTAL MARKS		=	**50M**	**75M**
ESE (End Semester Exam)		=	35M	54M
CIA (Continuous Internal Assessment)		=	15M	21 M
ESE contains Part -A and Part -B				
Part-A (I) : 07 Ques. of short ans. (one word / 15 words) (compulsory)	7ques.x1 Mark	=	07M	14x1 = 14M
Student will have to attempt 4 out of 5 ques.				
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks		=	28M.	4x10 = 40 M
Maximum Marks		=	50M.	75M
Minimum Passing Marks		=	20 M	30M

Paper Outcomes

The course aims to enhance students understanding of the historical evolution of Geographic thought, providing a detailed analysis of diverse paradigms in Geography, and evaluating contemporary trends in Geographical studies. Upon completion, students will possess an in-depth comprehension of the evolution of Geographical thought, acquire extensive knowledge about paradigms and debates within the field, and gain insights into the latest traditions in Geography.

Unit-I

Meaning, definition, nature, aims and purpose, approaches and concepts of   Geography. The nature of Geography in the early classical period with special reference to the works of Herodotus, Eratosthenes, Strabo and Ptolemy.

Unit-II

Early Medieval Geography. Contribution of Al-Masudi, Al- Idrisi, Ibn – Battuta, The   Revival of Geography from the 16th to the early 19th century – Kant, and Varenius. Founders of Modern Geography - Humboldt and Ritter.

Unit-III

The nature of Geographical thought in the second half of 19th century. The Dualism in Geography- Physical versus Human Geography, Determinism versus Possibilism, Regional versus Systematic Geography, Qualitative versus Quantitative Geography. Myth and reality about Dualism.

Unit-IV

The Works of Retzel, Semple, Richthofen, Hettner, Contribution of W.M.Davis,   Development of Geography in India, Geography of ancient Vedas and Purana's.

Essential Readings

Husain, Majid	:	Evolution of Geographical Thought Rawat Publications, Jawahar Nagar, Jaipur.
Adhikari, Subeepta	:	Fundamentals of Geographical Thought, Orient Black Swan Pvt. Ltd., Hydrabad.
Peet, Richard	:	Modern Geographical Thought : Rawat Publicalions, Jawahar Nagar, Jaipur.
Kaushik, S.D., Rawat, D.S.	:	Geographical Thought and Methodology, Rastogi Publications, Meerut, U.P.
जैन, शेषमल	:	भौगोलिक चिन्तन एवं विधि तंत्र: साहित्य भवन, आगरा।
सिंह, जगदीश	:	भौगोलिक चिन्तन का क्रम विकास: ज्ञानोदय प्रकाशन, गोरखपुर।
कौशिक, एस.डी.	:	भौगोलिक चिन्तन एवं विधि तंत्र: साहित्य भवन, आगरा।

Marks Distribution			(Hons.)
TOTAL MARKS	=	**50M**	**75M**
ESE (End Semester Exam)	=	**35M**	**54M**
CIA (Continuous Internal Assessment)	=	**15M**	**21 M**
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	**03M**	**3x2= 06 M**
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	**04M**	**4x2 = 08 M**
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	**28M.**	**4x10 = 40 M**
Maximum Marks	=	**50M.**	**75M**
Minimum Passing Marks	=	**20 M**	**30M**

Paper Outcomes

This paper provides students with knowledge about the diverse economic aspects of the world, including an exploration of various natural resources, crops, minerals, and more. Through this course, students will gain insights into the global economic landscape, understanding the significance and utilization of these resources in different regions. It equips them with a comprehensive understanding of the economic factors shaping societies and nations worldwide.

Unit-I

 Meaning, nature and scope of Geography of Resource. Meaning of resource and classification of Resources and utilization.

Unit-II

Natural Resources: Definition, classification, distribution, exploitation and conservation of Forests, Soil, Water and Wet land.

Unit-III

Geography of Primary Production, Agriculture–Wheat, Rice, Sugarcane, Cotton, Tea, Coffee, Jute, Rubber, Types of Agriculture.

Unit-IV

Minerals- Factors affecting the Mining and exploitation of Minerals, Metallic and Non- Metallic minerals, Exploitation and conservation of Mineral Resources. Energy Resources: Renewable and Non- Renewable, Conservation of energy.

Essential Readings

Gautam, Alka : Geography of Resources, Exploitation, Conservation and Management, Sharda Pustak Bhawan, Prayagraj.

Alexander, E.W. : Economic Georaphy, Prentice Hall India, New Delhi.

Mourya, S.D. : World Regional Geography, Pravalika Publications, Prayagraj.

हुसैन, माजिद : विश्व भूगोल, रावत पब्लिकेशन, जयपुर।

सक्सना एच.एम. : विश्व का प्रादेशिक भूगोल, रस्तोगी प्रकाशन, मेरठ।

गौतम अल्का : संसाधन भूगोल, शारदा पुस्तक भवन, प्रयागराज।

कौशिक, एस.डी. : संसाधन भूगोल, रस्तौगी पब्लिकेशन्स, मेरठ।

मौर्य, एस.डी. : विश्व का प्रादेशिक भूगोल, प्रवालिका पब्लिकेशन्स, प्रयागराज।

Marks Distribution			(Hons.)
TOTAL MARKS	=	**50M**	**75M**
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

Agricultural Geography is a sub-discipline of Human geography concerned with the spatial relationships found between agriculture and humans. The relevance of studying this paper is to examine the spatial distribution of crops, livestock and other agricultural activities, the cropping patterns and combination of crop and livestock in space and time.

Unit – I

Nature, scope and significance of Agricultural Geography, Approaches to the study of Agricultural Geography – Commodity, Environmental, Systematic and Regional.

Unit – II

Determinants of Agricultural Land use – Physical, Social, Economic and Cultural.

Unit – III

Whittlesey's Agricultural types- Characteristics and distribution in world, A Critical review of Whittleseys agricultural classification.

Unit – IV

Indian agriculture regions, factors of regionalization, agro - climatic regions, Problems and prospects of regions.

Essential Readings

Bansal, P.L.	:	Agricultural Problems in India – Vikash Publication, New Delhi.
Gregor, H.F.	:	Geog. of Agricultural Themes in Research PrenticeHall, New Delhi.
Grigg, D.B.	:	The Agricultural Systems of the World, CambridgeUniversity Press.
Negi, B.S.	:	Agricultural Geography, Kedarnath Padamnath, Meerut.
Hussain Mazid	:	Agricultural Geography, Rawat Publication, Jaipur.
कुमार प्रमिला, शर्मा श्रीकमल	:	कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल।
कलवार, एस.सी.	:	कृषि भूगोल की रूपरेखा, आविष्कार पब्लिकेशन, चौड़ा रास्ता, जयपुर।
तिवाड़ी, आर.सी. एवं सिंह, बी.एस.	:	कृषि भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद।
गौतम, अलका	:	कृषि भूगोल, शारदा पुस्तक भवन, इलाहाबाद।
शर्मा, पलक एवं भारद्वाज बी.एल.	:	कृषि भूगोल, रस्तौगी प्रकाशन, मेरठ।

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Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Assessment)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		**8 Marks**
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

This course intended to reveal the unity of Political activity and of Geographical factors of social development.

Unit-I

Meaning, nature, scope and subject matter of Political Geography, Geopolitics - View of Mackinder and Spykman.

Unit-II

Boundaries and Frontiers, function and classification of International Boundaries.

Unit-III

 State as a politico-territorial Phenomenon: Changing nature of location, size and shape in Political Geography of States.

Unit-IV

 Political and administrative framework and its hierarchical classification, relationship to unitary and federal forms of governance, New International economic order, International disputes & tensions.

Essential Readings

Adhikari Sudeepta	: Political Geography of India – A Contemporary Perspective, Sharda Publication, Allahabad.
Dikshit, R.D.	: Political Geography – A Contemporary Prospective, Tata McGraw Hill Publications Co. Ltd., New Delhi.
Pearcy, C.E.	: World Political Geography, Thoms & YCrowell Co., New York.
Wegert, A.W.	: Principles of Political Geography, AppletonCentury Draft, New Delhi.
Edward E.	: Modern Political Geography, W.M.C. BrownCompany.
अधिकारी सुदीप्ता एवं रतनकुमार	: राजनीति भूगोल, शारदा पुस्तक भवन, इलाहाबाद।
सक्सेना, एच.एम.	: राजनीतिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।
दीक्षित, श्रीकान्त	: राजनीतिक भूगोल, ज्ञानादेय प्रकाशन, गोरखपुर।

B.A. (Hons) Semester- V   Session-2025-26

Paper Code- HGEO505

Paper - V Cultural Geography

Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Assessment)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		**8 Marks**
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

Cultural Geography examines the cultural values, practices, discursive and material expressions and artifacts of people, the cultural diversity and plurality of society. It also helps the students to know the distributions of the cultures are distributed over space, how places and identities are produced, how people make sense of places.

Unit - I

Definition, components of cultural evolution, branches of cultural geography, Evolution of Man and rise and dominance of Homosapiens, their pattern of spread over the globe, primary races.

Unit - II

Evolution of civilization - with special reference to Mesopotamian, Nile, Indusand Hwang-ho.

Unit -III

Cultural realms, convergence and divergence process, cultural diversity in world.

Unit- IV

Characteristics and distribution of races, ethnic groups, linguistic families,religious groups.

Essential Readings

Moraya S. D.	:	Cultural Geography, Sharda Pustak Bhawan, Allahabad.
Crang Mike	:	Cultural Geography, Routledge Publication, London.
Hazara	:	Dimension in Human Geography, Rawat Publication, Jaipur.
Massey, D. et al (ed),	:	Human Geography Today, Polity Press, Cambridge.
प्रसाद, गायत्री :		सांस्कृतिक भूगोल, शारदा पुस्तक भवन, इलाहबाद।
मौर्य, एस.डी.	:	सांस्कृतिक भूगोल, शारदा पुस्तक भवन, इलाहबाद।

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Marks Distribution			(Hons)
Total Marks :		50 M	150 M
Minimum Passing Marks :		20 M	60M
	ESE (External)	30M	90M
	CIA (Internal) 20M		60 M
1,) ESE		30 M	90M
(iii) Written Paper on Lab work (02 Hours) 4 (ques) x 5 marks		20 M	(4x15)= 60 M
(Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit			
(ii) Record/File work and Viva-Voce (02 Hours) (7+3)		10 M	(21+9) =30 M
2.) CIA		20 M	60M
(i) Written test (01 hour) 2(ques.) x4 marks		08 M	(2x12) = 24M
(Students will have to answer any 2 ques. out of 4 ques.)			
(ii) Chart –Presentation (Making + Presentation) (6+2)		08 M	(18+6) = 24M
(iii) Practice Record work and Viva-Voce (1 hour) (3+1)		04 M	(9+3) = 12 M

Paper Outcomes

The students will be able to learn the construction of different types of Map Projections. The cartographical work helps the students to inculcate the knowledge of map making, their characteristics and uses. The interpretation of topographical sheets gives the insight view of topography and physical and cultural landscape.

Unit- I

Map Projection: Definition, classification and construction of Projections by Graphical Method. **Conical Projections** - Simple Conical Projection with one Standard Parallel, Simple Conical   Projection with two Standard Parallel, Bonne's Projection ,Polyconic Projection.

Unit- II

Cylindrical Projection - Simple Cylindrical Projection, Cylindrical Equal Area Projection,   Mercator's Projection, Gall's Projection.

Unit- III

Zenithal Projections - Polar Zenithal Equidistant Projection ,Polar Zenithal Equal area Projection Gnomonic Polar Zenithal Projection, Stereographic Polar Zenithal Projection ,Orthographic Polar Zenithal Projection.

Unit –IV

 Topographical Sheets: Definition, classification, Topographical Symbols, Interpretation of Indian topographical Sheets.

 Note – Students will have to make a chart, which will be presented by student, and its marks will be added in CIA. Students are required to prepare any Geographical topic related chart on a 22X28 inch drawing sheet (ivory or Mount or Pastle drawing sheets).

Essential Readings :

Mishra,R.N. Sharma, P.K.	:	Practical Geography, Pareek Publishers, Jaipur.
Singh, L.R.	:	Fundamentals of Practical Geography, ShardaPub. Prayagraj.
Khullar, D.R		Essential of Practical Geography, Choukhamba Auriyantaliya.
Sharma, S.R.	:	Practical Geography, College Book Depot, Jaipur.
Crampton, J.	:	Mapping, Black well, Publications, Meerut, U.P.
Singh, R. L.	:	Elements of Practical Geography, Students Friends, Prayagraj.
Sarkar , Ashis		Practical Geography, A Systematic Approach, Orient Black Swan, Kolkata.

शर्मा, जे.पी.	:	प्रायोगिक भूगोल, रस्तौगी पब्लिकेशन, मेरठ।
अय्यर, एन.पी.	:	सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।
राव, बी.पी.	:	प्रायोगिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।
खुल्लर, डी.आर.	:	प्रयोगात्मक भूगोल के तत्व, न्यू एकेडमिक पब्लिशिंग कम्पनी, जालन्धर।
जैन एवं मामोरिया	:	प्रयोगात्मक भूगोल एवं मानचित्रांकन, साहित्य भवन, आगरा।

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Paper – I World Geography

Marks Distribution			(Hons.)
TOTAL MARKS	=	**50M**	**75M**
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

This paper enables students to grasp knowledge about energy resources, global industries, and the roles of major organizations worldwide. By studying this course, students will understand the utilization of diverse energy sources, the significance of global industries, and the impact of major organizations on the world's economy and society.

Unit-I

Contemporary Issues in World Geography: Globalization   and   economic   development–Concepts, measurement and problems; Energy crisis and policies for development.

Unit-II

World Industries, Location patterns and Problems of Textile, Iron and Steel, Paper and Pulp, industries.

Unit-III

World Trade and Transport. Environment and Sustainable Development: Disaster Management – Types (Natural and man - made).

Unit-IV

Role of International and Regional organizations in shaping the world economy. Study of WTO, EU, SAARC, ASEAN, Environmental problems of world – Biodiversity, Ozone layer, Climatic changes.

Essential Readings

Hussain, M.	:	World Geography, Rawat Publications, New Delhi.
Siddharth, K.	:	World Geography, Kitab Mahal, New Delhi.
Gautam, Alka	:	Regional Geography of the World, Sharada Pustak Bhawan, Prayagraj.
Mourya, S.D.	:	World Regional Geography, Pravalika Prakashan, Prayagraj.
हुसैन, माजिद	:	विश्व भूगोल, रावत पब्लिकेशन, जयपुर।
तिक्खा, आर.एन.	:	विश्व का प्रादेशिक भूगोल, न्यू एकेडमिक पब्लिशिंग कम्पनी, जालंधर।
सक्‍ेसना, एच.एम.	:	विश्व का प्रादेशिक भूगोल, रस्तोगी प्रकाशन, मेरठ।
गौतम, अल्का	:	संसाधन भूगोल, शारदा पुस्तक भवन, प्रयागराज।
मौर्य, एस.डी.	:	विश्व का प्रादेशिक भूगोल, प्रवालिका प्रकाशन, प्रयागराज।
मामोरिया, चतुर्भज	:	विश्व का प्रादेशिक भूगोल, साहित्य भवन पब्लिकेशन्स, आगरा।
कानन, मोनिका, चौहान, देवेन्द्र सिंह	:	विश्व का भूगोल, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।

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B.A./B.Sc. Geography- Semester- VI Session-2025-26
Paper Code- BGEO602/HGEO602

Paper – II Geographical Methodologies

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 07 Ques. of short ans. (one word / 15 words) (compulsory) 7ques.x1 Mark	=	07M	14x1 = 14 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

 After completion of this paper, students will gain expertise in Geographical research methodology, including problem identification, data collection, and hypothesis formulation. They will also acquire knowledge of different sampling techniques and delimitation methods for agriculture, industrial regions, and city influence spheres.

Unit-I

 Methodology: Problems of Geographical Research, Identification of Problems in Geography, Source and nature of data, collection and Data processing.

Unit-II

Hypothesis-Types and importance , Sampling : Types of Sampling, Sample Size, Need of Sampling.

Unit-III

Methods of Delimitation of Agriculture and Industrial Regions, Measurement of Agriculture Productivity and Agriculture Efficiency. Delimiting sphere of   city Influence.

Unit-IV

Transportation – Network Models, Transport Cost, Connectivity and Accessibility, Morphometric analysis and applications.

Essential Readings

Barsil, Gomes & JohnPaul Gomes	:	Research Method in Geography, Blackwell Publication, Meerut, U.P.
Hagget & Chorely	:	Models in Geography, TMH, New Delhi.
Hagget, Peter	:	Geography, A Modern Synthesis, TMH, New Delhi.
Mahmood, A.	:	Quantitative Techniques in Geography, Jawahar Publication, NewDelhi.
Worting ten & Gant	:	Techniques of Map Analysis, Methuen, London.
हुसैन, एम.	:	भौगोलिक मॉडल, टाटा मैग्राहिल, न्यू देहली।
भारद्वाज, दिनेश चन्द्र	:	भौगोलिक प्रतिरूप निर्माण, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।

Marks Distribution			(Hons.)
TOTAL MARKS	=	50M	75M
ESE (End Semester Exam)	=	35M	54M
CIA (Continuous Internal Assessment)	=	15M	21 M
ESE contains Part -A and Part -B			
Part-A (I) : 07 Ques. of short ans. (one word / 15 words) (compulsory) 7ques.x1 Mark	=	07M	14x1=14 M
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	28M.	4x10 = 40 M
Maximum Marks	=	50M.	75M
Minimum Passing Marks	=	20 M	30M

Paper Outcomes

Applied Geography is based on the philosophy of relevance or social usefulness that focuses on the application of Geographical knowledge and skills to advance resolution of real-world social, economic, and environmental problems.

Unit – I

Nature, scope and content of Applied Geography, Identification of problems of interdisciplinary nature, environment - resource base, resource-use, development and disparity.

Unit – II

Issues related to variations in Physical Environment, Variations land quality affecting agricultural productivity, Environmental degradation, Environmental disaster and Environmental management.

Unit – III

Issues related to human resource – quality and numbers; Social and Demographic issues; diversity and disparity: carrying capacity of the earth; human resources use and manpower planning.

Unit – IV

Issues related to economy; Spatial organisation of economic activities -agriculture, industry, transport, trade; Spatial in equalities – Causes and Consequences.

Essential Readings

Zimmerman, E.W.	:	World Resources and Industries, Harper & Row Publisher, New York.
Freeman, T.W.	:	Geography and Planning, Hutching Son Publisher, US.
Grahman, E.H.	:	Natural Principles of Land Use, Oxford University Press, Jaipur.
Stamp, L.D.	:	Applied Geography, Rhimer Publication, Gurgaon, Haryana.

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B.A./B.Sc. Geography- Semester- VI Session-2025-26
Paper Code- BGEO604/HGEO604
Paper – IV Contemporary Issues in Geography

Marks Distribution				(Hons.)
TOTAL MARKS		=	50M	75M
ESE (End Semester Exam)		=	35M	54M
CIA (Continuous Internal Assessment)		=	15M	21 M
ESE contains Part -A and Part -B				
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark		=	03M	3x2= 06 M
Student will have to locate 3 out of 5 in world map, supplied by exam centre				
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark		=	04M	4x2 = 08 M
Student will have to attempt 4 out of 5 ques.				
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks		=	28M.	4x10 = 40 M
Maximum Marks		=	50M.	75M
Minimum Passing Marks		=	20 M	30M

Paper Outcomes

The study of this paper is important to understand the physical and human aspects of the world, we live in. This paper will help to know about the current issues and problems that are facing the society today.

Unit-I

Contemporary issues: Introduction, Physical Issues, Landslides, Flood, Drought, Ozone Depletion, Global warming, Climate change, Marine Pollution.

Unit-II

Ecological issues: Ecological issues with reference to India, Deforestation, Desertification, and Degradation of bio-diversity.

Unit-III

Social issues : Over population, Under population, Migration, Urbanization, Poverty, Food Security, Globalization, Regional Disparity with reference to India.

Unit-IV

Wars and Extremists activity, Infiltration in India, Oil & Water Politics and Nuclear Weapons.

Essential Readings

Mamoriya, Chaturbhuj and Kumar, Santosh	:	Contemporary Issues in Geography, Sathya Bhawan Publication, Agra.
Bhaduri, Sukla and Basu, Ranjan	:	Contemporary Issues and Techniques in Geography, Progressive Publishers.
Melvin, Albaum	:	Geography and Contemporary Issues : Studies of Relevant Problems, Oxford Univ Press Publisher, New York (USA).
बंसल, राजीव	:	भूगोल में समकालीन मुद्दे, एस.बी.पी.डी. पब्लिकेशन, आगरा।

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Marks Distribution			(Hons.)
TOTAL MARKS	=	**50M**	**75M**
ESE (End Semester Exam)	=	**35M**	**54M**
CIA (Continuous Internal Assessment)	=	**15M**	**21 M**
ESE contains Part -A and Part -B			
Part-A (I) : 03 Ques. of Map (compulsory) 3 x1 Mark	=	**03M**	**3x2= 06 M**
Student will have to locate 3 out of 5 in world map, supplied by exam centre			
(II) : 04 Ques. of short ans. (one word / 15 words) (compulsory) 4ques.x1 Mark	=	**04M**	**4x2 = 08 M**
Student will have to attempt 4 out of 5 ques.			
Part- B : 04 Ques. (01 Q. from each unit with Internal choice) = 4 x7 Marks	=	**28M.**	**4x10 = 40 M**
Maximum Marks	=	**50M.**	**75M**
Minimum Passing Marks	=	**20 M**	**30M**

Paper Outcome

The paper's objectives are to familiarize the students with aspects of tourism which have a relation with the subject matter of Geography. Through the course, student will able to understand the impact of tourism on physical and human environments.

Unit-I

Definition, history, nature, scope and significance of tourism, Factors affecting tourism, Types of tourism, tourism season, Tourist –Domestic & Foreign, positive and negative Impacts of tourism.

Unit-II

Global tourism – Historical development of tourism, Recent trends of tourism , Tourist attractions in the world. Barriers to the growth of tourism. Conservation of World natural heritage sites.

Unit-III

Tourism in India – Importance of tourism in India, Tourist destinations, Tourism organizations in India, Challenges to the growth of tourism in India, National tourism policy.

Unit-IV

Tourism in Rajasthan - Attractions and Facilities tourism encouragement programmes in Rajasthan. Protection of tourists sites.

Essential Readings

Cos Rove, I. and Jackson, R.	:	The Geography of Recreation and Leisure, Hutchinson University, London.
Mcintosh, K.W.	:	Tourism Principles, Practices Philosophies, Grid Inc.
Kumar, Pradeep, Kumar, Anil	:	Cultural Tourism in India, Aayu Publications, New Delhi.
बंसल, राजीव	:	भूगोल में समकालीन मुद्दे, एस.बी.पी.डी. पब्लिकेशन, आगरा।

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Paper – VI Industrial Geography

Marks distribution				
ESE (End Semester Exam)			=	54 Marks
CIA (Continuous Internal Asseseement)			=	21 Marks
Total			=	75 Marks
Minimum Passing Marks			=	30 Marks
ESE contains Part A and Part B				
Part-A	:	3 Ques. – Map (compulsory) out of 5 ques. – 3 Ques.x2 Marks each (world map will be supplied in Exam)	=	6Marks
		o4 Ques. – Short Ans. (One word / 15 word) (Comp.) – 4 Ques. X 2 Mark Each		8 Marks
Part-B	:	Question (01 Q. from each unit with Internal choice) = 4 Ques x10 Marks Each	=	40 Marks
		Total marks of End of Semester Exam	=	54 Marks

Paper Outcomes

The Industrial Geography deals with the spatial arrangement of industrial activities that is the Geographical circulation of industry. The objectives of studying Industrial Geography are the description and interpretation of the location dynamics of manufacturing activities on various scales, from the local to the worldwide or global.

Unit-I

Locational factors in manufacturing, concept of optimum location, Significance of cost and price, Least Cost School and the Transport cost school, Market Areas school, Marginal Location school, Behavioural School.

Unit-II

New Trends in Industrial Geography, Empirical studies, Significance of Enterprise and Firm, Important Industrial Region of World.

Unit-III

Delineation of industrial regions in India, Study of the following regions: The Hooghly side Industrial Regions, The Damodar Valley Industrial Regions.

Unit-IV

Geographical Inertia, Industries: Textile Industry; Multi-locational industries,-Petrochemical; Market Oriented Industries-Furniture; Foot loose Industries-Automobile, Raw Material Oriented- Paper and Pulp.

Essential Readings

Riley, R.C.   :   Industrial Geography, Chalto and Windees, London.

Hoover, E.M.   :   The location of Economic Activity,McGrawhill, New York.

Loknathan   :   Industrial Localisation in India, Chatto and Windees, London.

लोढ़ा, राजमल एवं माहेश्वरी, दीपक   :   औद्योगिक भूगोल, राजस्थान, हिन्दी ग्रन्थ अकादमी, जयपुर।

कुमार, प्रमिला एवं शर्मा, श्रीकमल   :   औद्योगिक भूगोल, मध्यप्रदेश, हिन्दी ग्रंथ अकादमी, भोपाल।

B.A./B.Sc. Geography- Semester- VI Session-2025-26
Paper Code- BGEO606/HGEO607

Paper – VII PROJECT

Total Marks	50 Marks
- ESE(End Semester Exam)	35 Marks
1. Significance of title and topic	07 Marks
2. Data Collection and Techniques	07 Marks
3. Analysis and Explanation	07 Marks
4. Map and Diagrams	07 Marks
5. Conclusion and Suggestion	07 Marks
- Oral Department Presentation and Viva-Voce	(10+5)

Academic Projects Benefits

- **Encouraging Creativity and Innovation:** Projects enable students to showcase their creativity and innovative ideas in addressing real-world challenges.

- **Application of Classroom Learning:** Students learn to apply theoretical knowledge from the classroom to practical scenarios, enhancing their understanding and problem-solving skills.

- **Cultivating Research Aptitude:** Undertaking projects using modern tools and techniques helps inculcate a research-oriented mindset among students.

- **Valuable Tool for Learning:** Projects serve as a valuable learning tool to comprehend and tackle dynamic global phenomena.

Project Details

- **Scope and Subjects:** Projects can focus on social, economic, agricultural, industrial, or geographical issues.

- **Group Size:** Each student can work separately on Project under the guidance of subject expert.

- **Project Report:** Candidates are required to prepare a detailed project report, comprising a minimum of 25 to 30 pages.

- **External Evaluation:** The project report will be assessed and marked by an external examiner.

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B.A./B.Sc. Geography- Semester- VI Session-2025-26
Paper Code- BGEO607/ HGEO608
Practical – VI

Marks Distribution			(Hons)
Total Marks :		50 M	150 M
Minimum Passing Marks :		20 M	60M
	ESE (External)	30M	90M
	CIA (Internal)	20M	60 M
1.) ESE		30 M	90M
(i)Written Paper on Lab work (02 Hours) 4 (ques) x 3 marks		12 M	(4 x 9) = 36 M
(Students will have to answer 4 ques. out of 8 ques. , selecting one question from each unit)			
(ii) Field Survey and viva-voce (7+3)		10M	(21+9) = 30M
(iii) Record/File work and Viva-Voce (02 Hours) (5 +3)		8M	(15 +9) = 24M
2.) CIA		20 M	60M
(i) Written test (01 hour) 2(ques.) x4 marks		08 M	(2x12) = 24M
(Students will have to answer any 2 ques. out of 4 ques.)			
(ii) Model making (6+2)		08 M	(18+6) = 24 M
(ii) Practice Record work and Viva-Voce (1 hour) (3+1)		04 M	(9 +3) = 12 M

Paper Outcome

This paper will help the students to understand the basic concept of Remote sensing and GIS. Remote sensing has led to the invention of various new technologies which provides tools for studying the world resource mapping, city planning, town planning etc.

Unit-I

Plane Table Survey: Introduction to the techniques of field Survey in Geography. Importance of Plane Table Surveying, Characteristics and stages of Surveying, Study of the instruments used in the survey. Merits and Demerits of Plane Table Survey.

Unit-II

Plane Table Survey Exercise - Methods of using Plane Table Survey – Open Traverse and Closed Traverse **,** Intersection Method, Radiation Method , Resection Method.

Unit-III

Indian Pattern Clinometer - Introduction, parts and methods and uses.
Two exercises – Elevation and depression (Both methods - Accessible and Inaccessible)

Unit-IV

Remote Sensing and GIS - Introduction to Remote Sensing and Aerial photography : Definition, components and overview of Remote Sensing, History of Remote Sensing, EMR, Remote Sensing Platforms and Imaging Interpretation keys. **GIS and GPS** – Preliminary Introduction..

Note – Students (group of maximum 10 students) will have to create a model (Working or Non-working), which will be presented by any member of group /group leader and its marks will be added in CIA.

Essential Readings

Mishra,R.N. Sharma, P.K.	:	Practical Geography, Pareek Publishers, Jaipur.
Singh, L.R.	:	Fundamentals of Practical Geography, Sharda Publication, Prayagraj.
Khullar, D.R.		Essential of Practical Geography, Choukhamba, Auriyantaliya.
Sharma, S.R.	:	Practical Geography, College Book Depot, Jaipur.
Crampton, J.	:	Mapping, Black well, Publications, Meerut, U.P.
Singh, R. L.	:	Elements of Practical Geography, Students Friends, Prayagraj.
Sarkar , Ashish		Practical Geography, A Systematic Approach, Orient Black Swan, Kolkata.

शर्मा, जे.पी.	:	प्रायोगिक भूगोल, रस्तौगी पब्लिकेशन, मेरठ।
अय्यर, एन.पी.	:	सर्वेक्षण, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल।
राव, बी.पी.	:	प्रायोगिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर।
खुल्लर, डी.आर.	:	प्रयोगात्मक भूगोल के तत्व, न्यू एकेडमिक पब्लिशिंग कम्पनी, जालन्धर।
जैन एवं मामोरिया	:	प्रयोगात्मक भूगोल एवं मानचित्रांकन, साहित्य भवन, आगरा।

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