

Sardar Patel University, Mandi (H.P.)-175001

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Department of Geography



Scheme & Syllabus of Bachelor of Arts (Honours with Research) in Humanity

[Three Years and Four Years Multidisciplinary Programme]

**Based on NEP 2020
Effective from 2026-27 onwards**

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Programme: B.A. (1Year Certificate, 3year Degree and 4Year Honours with Research) in Humanity

[PEOs, PSOs and POs]

Under the National Education Policy (NEP 2020) framework, the undergraduate curriculum in Geography has transitioned into a 3Year and 4-Year Undergraduate Programme. This framework incorporates a Learning Outcomes-based Curriculum Framework (LOCF) designed to move away from rote learning toward holistic, interdisciplinary, and skill based competency.

Program Educational Objectives (PEOs)

The primary Program Educational Objectives (PEOs) for an undergraduate degree (B.A.) in Geography under NEP 2020 focus on equipping students with spatial thinking, technological skills, and environmental consciousness.

The PEOs will enable students to

PEO- 1: Foundational Core Knowledge:-

- **Earth Systems Dynamics:** To develop a profound conceptual understanding of physical geography, including the atmosphere, lithosphere, hydrosphere, and biosphere.
- **Human-Environment Interaction:** To analyze the complex, evolving relationships between human societies, spatial distributions, cultural practices, and the natural environment.
- **Indian Knowledge System (IKS):** To comprehend and apply traditional Indian geographical perspectives on environmental conservation, mapping, and resource management.

PEO- 2: Technical and Geospatial Skills:-

- **Geospatial Proficiency:** To master advanced technological tools including Geographic Information Systems (GIS), Remote Sensing (RS), and Global Navigation Satellite Systems (GNSS/IRNSS).
- **Cartographic Competency:** To gain expertise in quantitative data generation, digital map-making, and spatial statistics.
- **Scientific Instrument Handling:** To expertly operate surveying tools and meteorological instruments for weather interpretation and field analysis.

PEO- 3: Fieldwork and Analytical Capabilities

- **Empirical Field Research:** To design and execute field surveys, collect primary qualitative and quantitative data, and prepare structured field reports.
- **Spatial Problem Solving:** To identify, evaluate, and formulate pragmatic solutions for pressing spatial issues like urban sprawl, resource degradation, and regional imbalances.

PEO- 4: Interdisciplinary Perspective & Sustainability

- **Bridge Science and Social Science:** To leverage geography as an integrative, multidisciplinary link between physical sciences and human development studies.
- **Sustainable Development Goals (SDGs):** To cultivate a deep ethical awareness of ecological sustainability, climate change resilience, and disaster risk reduction.

PEO- 5: Employability and Academic Progression

- **Industry Readiness:** To enhance professional avenues in geospatial analysis, urban planning, tourism, smart city governance, and cartography.
- **Research and Lifelong Learning:** To provide a strong foundational baseline for advanced studies, competitive examinations, and independent research under the "Honours with Research" 4th-year pathway.

Program Specific Outcomes (PSOs)

Program Specific Outcomes (PSOs) describe what students will be able to do upon graduation with a B.A. or B.Sc. in Geography under the NEP 2020 framework. Unlike broad educational objectives, PSOs focus on measurable, specialized skills and practical applications that a geography graduate can independently perform.

Upon completing the 3 or 4-year undergraduate programme in Geography under NEP 2020, students will demonstrate the following specific outcomes:

The B.A. (Honours with Research) in Humanity Programme is designed to

PSO- 1: Spatial Data Analysis and Cartography

- **Construct Digital Maps:** Design thematic, Choropleth, and Isopleth maps following standard cartographic principles of scale, projection, and generalization.
- **Apply Statistical Techniques:** Execute spatial and non-spatial statistical tests on environmental and demographic datasets.

PSO- 2: Field Surveying and Empirical Research

- **Design Field Studies:** Plan and execute socio-economic surveys, physical landform assessments, and ecological sampling in diverse geographical terrains.
- **Apply Research Methods:** Formulate research questions, apply quantitative or qualitative geographical methods, and draft structured scientific reports or dissertations.

PSO- 3: Operate Field Instruments: Handle surveying tools (like Prismatic Compasses, Dumpy Levels, or Theodolites) and meteorological instruments to record real-time data.

PSO- 4: Environmental and Disaster Management

- **Assess Climate Impacts:** Analyze local and global climate data to model environmental vulnerabilities, resource depletion, and climate change hazards.
- **Formulate Mitigation Plans:** Prepare micro-level hazard zonation maps and disaster management strategies for floods, landslides, droughts, and earthquakes.

PSO- 5: Geospatial Technology Application

- **Perform GIS Workflows:** Execute data acquisition, digitization, spatial analysis, and map generation using open-source software like QGIS or commercial tools.
- **Process Satellite Imagery:** Interpret and analyze digital satellite data and aerial photographs for land use, land cover (LULC) mapping, and environmental monitoring.
- **Utilize GNSS Data:** Collect accurate real-world coordinate and spatial data using global and Indian navigation systems like IRNSS/NavIC for field mapping.

PSO- 6: Regional and Urban Planning Insights

- **Evaluate Urban Systems:** Analyze urban land-use patterns, smart city infrastructures, transport networks, and rural urban migration impacts.
- **Propose Regional Solutions:** Develop sustainable regional development models that balance economic growth with ecological preservation.

Program Outcomes (POs)

Program Outcomes (POs) represent the overarching institutional and professional capabilities that students develop across any undergraduate degree, as mandated by the NEP 2020 Higher Education Qualification Framework (NHEQF).

While Program Specific Outcomes (PSOs) focus on geography-specific tasks like GIS mapping, Program Outcomes (POs) outline the broader intellectual, ethical, and professional attributes a graduate gains through the Learning Outcomes-based Curriculum Framework (LOCF).

A Geography graduate under NEP 2020 will attain the following Program Outcomes upon completion of their degree:

After successfully completing B.A. (Honours with Research) Geography in Humanity programme the students will be able to

PO- 1: Critical Thinking and Spatial Problem Solving:-

- **Analyze Complex Systems:** Evaluate how physical landscapes and human societies interact dynamically across local, regional, and global scales.
- **Resolve Spatial Issues:** Apply logical, critical, and spatial reasoning to address real-world challenges like resource scarcity, unplanned urbanization, and regional disparities.

PO- 2: Analytical and Research Skills:-

- **Data Literacy:** Gather, organize, and evaluate qualitative and quantitative data from primary field surveys and secondary sources (such as census data and satellite reports).
- **Scientific Inquiry:** Formulate structured research designs, execute methodology, analyze spatial statistics, and draw evidence-based conclusions.

PO- 3: Modern Tool Usage and Digital Literacy:-

- **Technological Adequacy:** Use contemporary digital platforms, statistics software, and specialized geospatial tools to solve multifaceted academic and professional problems.
- **Information Retrieval:** Navigate digital libraries, academic databases, and global spatial data repositories efficiently and ethically.

PO- 4: Communication and Collaboration:-

- **Express Spatial Concepts:** Communicate complex geographical insights, data patterns, and research findings clearly through visual maps, written reports, and oral presentations.
- **Teamwork:** Work effectively in multidisciplinary teams during field investigations, group research projects, and community-outreach initiatives.

PO- 5: Environmental Sustainability and Social Ethics:-

- **Ecological Consciousness:** Demonstrate a deep understanding of the United Nations Sustainable Development Goals (SDGs), climate urgency, and environmental conservation.
- **Ethical Responsibility:** Practice inclusivity, respect demographic diversity, and adhere to strict ethical standards during data collection and academic research.

PO- 6: Multicultural Competence and Global Perspective:-

- **Appreciate Diversity:** Understand global variations in culture, economy, and environments, alongside a grounded appreciation of the **Indian Knowledge System**.
- **Civic Engagement:** Apply geographical knowledge to foster inclusive regional growth and community-level climate resilience.

PO- 7: Lifelong Learning and Employability:-

- **Adaptability:** Cultivate an independent learning mindset to stay updated with rapidly evolving geospatial technologies and global environmental paradigms.
- **Career Readiness:** Qualify for competitive examinations, industry roles (in planning, NGOs, and tech), or advanced research pathways like the 4th-year "Honours with Research"

degree.

Important Notes

- In the first semester, students will be offered three different subjects within the same stream: A, B, and C
- The student will be required to give his/her Major and Minor at the end of the second semester. Such choices, including DSCs made at the end of the second semester, shall remain in effect until the VI semester
- The DSCs of another discipline for the first two semesters of students who opt for Major programmes will be treated as Minors.
- MDCs must be selected from a broad discipline/pool of MDCs other than Major and Minor disciplines/subjects
- AEC/VAC/SEC-3 should be chosen from a pool of courses. Every discipline shall provide these courses, some of which will be offered discipline-specific, while the rest can be open to students of all other disciplines. However, the two SECs (SEC-1 & SEC-2) must be chosen from the discipline-specific (Core and Minor).
- Internship / Apprenticeship/ Project/ Community Outreach will be determined at the end of the first semester to enable students to carry out some INP/APT/PRT/COM activities during winter vacation.
- To pursue an Honours & Honours with research in the 4th year, students will have to successfully complete 3-year UG Degree and choose only one discipline in both semesters, in which s/he have studied 6 DSCs and 5 DSEs in the first three years.
- A student who secures 75% or more marks in aggregate till semester 6 (up to a 3-year degree) shall be eligible for a 4-year degree Honours with Research, provided SPU has approved the college to offer it.
- The Dissertation and Project will start in the VII semester. However, the evaluation and assessment will be conducted in both the VII and VIII semesters.
- As permitted under the UGC Guidelines for Multiple Entry and Exit in Academic Programmes offered in Higher Education Institutions, students will be allowed to enter/re-enter in the odd semesters and after even semesters, provided they fulfill the minimum requirements for entry and exit
- A student shall be eligible to appear in the end semester examination only if he/she has a minimum of 75% attendance. The terms and rules governing condoning can be found in the Examination Section of the Ordinance.
- Any other (As per the Curriculum)

Break-Down of Credits-Semester wise

Course Type/Semester	DSC	DSE	MDC	SEC	AEC	VAC	INP/APT/PRT/COM or Vocation Course	DIS	Total
I	12	-	3	3	2	-	-	-	20
II	12	-	3	3	-	2	4	-	24
Exit option with UG Certificate after securing 44 credits along with entry option to second year or Third Semester									
III	8 (MJ) + 4 (MN)	-	3	3	2	2	-	-	22
IV	8 (MJ) + 4 MN)	4	-	-	2	2	-	-	20
Exit option with UG Diploma after securing 86credits along with entry option to Third Year or Fifth Semester									
V	8 (MJ) +4 (MN)	8	-	-	2	-	-	-	22
VI	8 (MJ) +4 (MN)	8	-	-	-	-	-	-	20
Award of 3Year Bachelor's Degree after completion of 128 credits									
VII	12(MJ)	4	-	-	-	-	-	4	20
VIII	8(MJ)	4	-	-	-	-	-	8	20
Bachelor's Degree(Honours with Research)after completion of 168 credits									
Total Credits	92 (76MJ +16MN)	28	9	9	8	6	4	12	168

Abbreviations: DSC-Discipline Specific Core, DSE- Discipline Specific Elective, MDC-Multidisciplinary Course, SEC-Skill Enhancement Course, AEC-Ability Enhancement Course, VAC-Value Added Course, MJ-Major, MN-Minor, INP/APT/PRT/COM-Internship / Apprenticeship/ Project/ Community Outreach, DIS-Dissertation.

Semester wise Scheme offered by subject Geography for Semester-I

S.No.	Course Code	Course Title	Category	L	T	P	C	CH	Theory Assessment		Practical Assessment		Total
									IA	ESE	IA	ESE	
1	Subject-A-1 BGEOG-DSC-101	Introduction to Physical Geography	DSC	4	0	0	4	60	30	70	-	-	100
2	BGEOG-SEC-101	General Cartography (Practical)	SEC	0	0	3	3	90	-	-	25	50	75
3	BGEOG-MDC-101	<u>Fundamental Concepts in Geography</u>	MDC	3	0	0	3	45	25	50	-	-	75
4	Subject-B DSC – B-1		DSC	3	0	0	4	60	30	70	-	-	100
5	Subject-C DSC/MC-1		DSC	3	0	0	4	60	30	70	-	-	100
6	AEC - 1		AEC	2			2	30	15	35			50
Total							20	345					
Cumulative Credits							20						

Abbreviations: L-Lecture, T-Tutorial, P-Practical, C-Credits, CH-Contact Hours, IA-Internal Assessment, ESE-End Semester Examination

Semester-II

S. No.	Course Code	Course Title	Category	L	T	P	C	CH	Theory Assessment		Practical Assessment		Total Marks
									IA	ESE	IA	ESE	
1	Subject-A-2 BGEOG-DSC-201	Fundamentals of Human Geography	DSC	3	0	0	4	60	30	70	-	-	100
2	BGEOG-SEC-201	Working with Maps (Practical)	SEC	0	0	1	3	90	-	-	25	50	75
3	BGEOG-MDC-201	General Geography of Himachal Pradesh	MDC	3	0	0	3	45	25	50	-	-	75
4	Subject-B DSC – B-2		DSC	3	0	0	4	60	30	70	-	-	100
5	Subject-C DSC/MC-2		DSC	3	0	0	4	60	30	70	-	-	100
6	VAC - 1	BVAC-ENV	AEC	2	0	0	2	30	15	35			50
7	I/A/P/C-1	I/A/P/C	Project	0	0	0	4	60		100			100
Total							24	405					
Cumulative Credits							44						

Note:

- Exit option with UG Certificate after securing 44 credits(*with 4 credits of I/A/P/C/ or work based vocational course offered during winter/summer term), along with entry option to second year or third semester
- Any other

SEMESTER -FIRST

Course title: Introduction to Physical Geography (BGEOG-DSC-101)
[BGEOG- DSC- 101 (common with Minor Course 1)]

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGEOG-DSC-101	Introduction to Physical Geography	3	0	0	4	60	Core
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr.						

i. Course Objectives:

- Understand the nature and scope of physical geography along with fundamental theories and concepts in geomorphology, including the Big Bang Theory, Solar System formation and Earth's structure.
- Identify and classify different types of rocks and understand the processes of weathering, erosion, folding and faulting.
- Explore the theories of isostasy, continental drift, seafloor spreading, and plate tectonics and their significance in shaping the Earth's surface.
- Analyze the causes, types, effects, and distribution of earthquakes and volcanoes, and their impact on and forms and landscapes.

ii. Course Outcomes:

On completion of this course, the students are expected to :

- Understand the nature and scope of physical geography.
- Explain the Big Bang Theory and describe the formation of the Solar System.
- Differentiate between primary, sedimentary, and metamorphic rocks, and recognize the processes of weathering and erosion.
- Demonstrate an understanding of isostasy and continental drift theories, and their role in shaping Earth's topography.
- Describe the mechanisms of earthquakes and volcanoes, and their effects on the Earth's surface, including the formation of various landforms.
- Demonstrate familiarity with Geomorphological processes and associated landforms related to running water, glaciers, and wind.

iii. Syllabus:

Section	Content	Contact Hours
1.	i. Nature and Scope of Physical Geography. ii. Origin of the Universe: Big Bang Theory. iii. The Solar System: An introduction; Shape, size, and age of the Earth. iv. Interior Structure of the Earth: Crust, Mantle & Core (Evidences of seismology).	15
2.	i. Rocks: Primary, Sedimentary, and Metamorphic. ii. Weathering and Erosion: Types, causes, and effects. iii. Cycle of Erosion (Davis). iv. Folds and Faults, and their different types.	15
3.	i. Isostasy: Views of Airy, and Pratt, & Isostatic adjustment. ii. Continental Drift Theory of Wegener. iii. Plate Tectonics: Mechanism and consequences. iv. Concept of Seafloor Spreading.	15
4.	i. Earthquakes: Causes, Types, Effects, Distribution. ii. Volcanoes: Causes, Types, Effects, Distribution. iii. Processes and Landforms: Fluvial, Aeolian and Glacial	15

iv. Suggested readings:

- Bunnett, R.B. 2003. *Physical Geography in Diagrams*, Orient Longman, New Delhi.
- Strahler, A.N. and Strahler, A.M. 1992. *Modern Physical Geography*, John Wiley and Sons, New York.
- Singh, S. 2003. *Physical Geography*, Prayag Pustak Bhawan, Allahabad.
- Tikka, R.N. 1999. *Physical Geography*, Kedarnath & Ramnath & Co., Meerut.
- Khullar, D.R. 2012. *Physical Geography*, New Delhi, India: Kalyani Publishers.
- Leong, G.C. 2020. *Certificate in Physical and Human Geography (New Edition)* Oxford University Press.
- *Dictionary of Physical Geography*: Penguin Publication.
- Bloom, A.L. 1978. *Geomorphology – A Systematic Analysis of Late Cainozoic Landforms*.
- Prentice Hall Inc., Englewood Cliffs, New Jersey.
- Hugget, R.J., 2007. *Fundamentals of Geomorphology*. (2nd Edition), Fundamentals of Physical

Geography Series, Routledge, London and New York.

- Summerfield, M.A., 1991. *Global Geomorphology*. Pearson Education Ltd., Harlow, England.

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Examination (3 Hour)
Marks	30	70
Total Marks	100	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	15 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%:1 Mark; 80%-84.9%: 2Marks; 85%-89.9%: 3Marks; 90%-94.9%: 4Marks and 95%-100%: 5Marks).	5 marks

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	15 Marks
2	Number of Sections	2 (Section A & Section B)
3	Section A	Consists of five short-answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two long-answer questions. All questions are compulsory. Each question carries 5mark.

2. Pattern of End Semester Examination

Parts	No of Question	Syllabus Coverage	Nature of Question and Answers	Question to be Attempted	Maximum Marks
A	2	Section I	Choice based long answer type	1(14 marks each)	14
B	2	Section II	Choice based long answer type	1(14 marks each)	14
C	2	Section III	Choice based long answer type	1(14 marks each)	14
D	2	Section IV	Choice based long answer	1(14 marks	14

			type	each)	
E	10	Section(I II III IV)	Short answer type(25-30 words)	7(2 marks each)	14
				Total	70

VIII. Pass marks

S. No.	Requirement	Minimum Percentage
1	Pass in each individual component (CCE, ESE)	35%
2	Pass in aggregate of the subject	40%

SEMESTER -FIRST

Course No. BGEOG-SEC-101

Course title: General Cartography (Practical) (GEOG-SEC-101)

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGEOG-SEC-101	General Cartography (Practical)	0	0	3	3	90	SEC
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr.						

iv. Course Objectives:

- Understand the historical development and significance of cartography.
- Understand the concept of scale in cartography and its significance in representing the relationship between the real world and its map representation.
- Understand the significance of representing relief in cartography and its role in enhancing the visual communication of terrain features.

v. Course Outcomes: On completion of this course, the students are expected to :

- Demonstrate proficiency in interpreting and analyzing different types of maps, including thematic maps, and topographic maps.
- Through hands-one Exercises, students will learn the construction and conversion of scale and representation of relief by different methods.

- Develop proficiency in interpreting relief representations on maps and understanding how different relief depiction techniques influence map interpretation and perception

vi. Syllabus:

Section	Content	Contact Hours
1.	i. Cartography: Definition, Nature and brief History. ii. Maps: Elements, Classification and significance of Maps.	18
2.	i. Scale: Definition, importance, and types of scale. Conversion of Scale (RF and Statement of Scale). ii. Construction of scale: Plain, comparative, and diagonal scale (at least 3 exercises from each)	36
3.	i. Some methods of representing relief: (2 exercises on the representation of relief by different methods) a. Spot heights. b. Bench marks. c. Trigonometrical stations. d. Contours. ii. Conventional signs and symbols on topographical sheets. (2 exercises on interpolation of contours from spot heights).	36

iv. Suggested readings:

- Gupta, K.K. and Tyagi V.C., (1992), Working With Map, Survey of India, DST, New Delhi.
- Khullar, D.R. 2002: Essentials of Practical Geography. New Academy Publishing Company.
- *Prayogatmak Bhugol ke Tatva (in Hindi)*. New Academy Publishing Company
- L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.
- Misra R P and Ramesh A, 1989, Fundamentals of Cartography, Concept Publishing Company, New Delhi.
- Monkhouse, F.J. and H.R. Wilkinson (1967) Maps and Diagrams, B.T. Publications Pvt. Ltd.,

Delhi 1989.

- R.L. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students friends Allahabad.
- Raisz, E. General Cartography. John Wiley and Sons, New York. 5th edition, 1962.
- Robinson, Arthur et.al.(2005): Elements of Cartography, John Wiley and Sons, New York.
- Sarkar, A. 2015, Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi.
- Sharma J. P., 2010. *Prayogic Bhugol*, Rastogi Publishers.
- Singh R. L. and Singh R. P. B., 1999. Elements of Practical Geography, Kalyani Publishers
- Singh R. L., 1998. *Prayogic Bhaago ki Rooprekha*, Kalyani Publications.

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Practical Examination (3 Hour)
Marks	25	50
Total Marks	75	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	10 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%:1 Mark; 80%-84.9%: 2Marks; 85%-89.9%: 3Marks; 90%-94.9%: 4Marks and 95%-100%: 5Marks).	5 marks
Total		25

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	10 Marks
2	Number of Sections	2 (Section A & Section B)
3	Section A	Consists of four short answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two choice based long-answer questions. Each question carries 6 marks.

2. Pattern of End Semester Practical Examination

a) Examiner will conduct a written test (on the spot) Consisting of Five Questions. from all sections , three marks each	15 Marks
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b) Students will asked to perform two practical's from all sections ,ten marks each	20 Marks
c) Practical File Record	10 Marks
d) Viva-Voce	05 Marks
Total	50 Marks

viii. Pass marks

S. No.	Requirement	Minimum Percentage
1	Pass in each individual component (CCE, ESE)	35%
2	Pass in aggregate of the subject	40%

SEMESTER -FIRST

Course title: Fundamental Concepts in Geography (BGE0G-MDC-101)

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGE0G-MDC-101	<u>Fundamental Concepts In Geography</u>	3	0	0	3	45	MDC
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr.						

vii. Course Objectives:

- Understand the fundamental concepts of geography, including its meaning, nature, scope, and relevance in the modern world.
- Comprehend the basic elements of Earth's structure, such as its shape, size, and motions, including rotation, revolution, and their impact on time zones.
- Identify and differentiate major geographical features, including continents, oceans, and various landforms like plains, plateaus, mountains, and water bodies.
- Develop familiarity with geographic tools and instruments, from traditional survey equipment to modern technologies like remote sensing and GIS, for data collection, analysis, and visualization.

viii. Course Outcomes:

After attending this course, students will be able to:

- Explain the foundational principles of geography and articulate its importance in addressing contemporary global challenges.
- Demonstrate knowledge of Earth's structure and movements, including the impact of time zones on human activities.

- Identify and describe various landforms and water bodies, distinguishing between them based on their characteristics.
- List and explain the uses of geographic tools and technologies for data collection, analysis, and interpretation.
- Develop a deeper understanding of human-environment interactions by examining spatial concepts such as location, place, and region.

ix. Syllabus:

Section	Content	Contact Hours
1.	i. Geography: Meaning, Nature, Scope, Relevance, Relationship of Geography with other disciplines. ii. Earth: Shape and Size, Motions: Rotation and Revolution. iii. Time Zones & International Date Line: Major latitudes and climatic zones. iv. Landform features: Continents, Oceans, Plain, Plateau, Mountain, Cape, Peninsula, Island, Archipelago, Gulf, Bay, Strait and Isthmus.	15
2.	i. Location: Absolute and Relative: Place/ Space: Physical Characteristics and Human Characteristics. ii. Human-Environment Interaction: Dependence, Modification, Adaptation. iii. Movements: Human, Information, Idea. iv. Regions: Formal, Functional, Vernacular.	15
3.	i. Map: Definition, Classification and significance. ii. Basic use of survey instruments in geography: (Prismatic Compass, Clinometer, Theodolite, Dumpy level) and weather-related (Thermometer, Barometer, Rain Gauge, Anemometer, Wind Vane). iii. Modern Techniques: Meaning and Components of Remote Sensing and Geographic Information System (GIS).	15

iv. Suggested readings:

Majid Hussain (2006). Terms and Concepts of Geography, Tata McGraw Hill

Majid Hussain (2006). Geography Work Book. Rabat Publication, Jaipur

Mayhew, S. (2015). Oxford Dictionary of Geography

Dikshit, R D (2010). Art and Science of Geography: Integrated Readings

Mathur, SM (2009). Adventures in Geography. NBT, Delhi

Ghosh, S. & Banerjee S. (2008). Introducing Geography. Pearson Longman.

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Examination (2 Hour)
Marks	25	50
Total Marks	75	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	10 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%: 1 Mark; 80%-84.9%: 2Marks; 85%-89.9%: 3Marks; 90%-94.9%: 4Marks and 95%-100%: 5Marks).	5 marks

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	10 Marks
2	Number of Sections	2 (Section A & Section B)
3	Section A	Consists of Four short-answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two choice based long-answer questions.

		Each question carries 6 mark.
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2. Pattern of End Semester Examination

Parts	No of Question	Syllabus Coverage	Nature of Question and Answers	Question to be Attempted	Maximum Marks
A	2	Section I	Choice based long answer type	1(14 marks each)	12
B	2	Section II	Choice based long answer type	1(14 marks each)	12
C	2	Section III	Choice based long answer type	1(14 marks each)	12
D	10	Section (I,II,III)	Short answer type(25-30 words)	7(2 marks each)	14
Total					50

viii. Pass marks

S. No.	Requirement	Minimum Percentage
1	Pass in each individual component (CCE, ESE)	35%
2	Pass in aggregate of the subject	40%

SEMESTER -SECOND

Course title: Fundamentals of Human Geography (BGE0G-DSC-201)
[BGE0G- DSC- 201 (common with Minor Course 1)]

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGE0G-DSC-201	<u>Fundamentals of Human Geography</u>	3	0	0	4	60	Core
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr.						

x. Course Objectives:

- To comprehend the meaning, branches, and nature of human geography and its relevance in understanding human-environment interactions.
- To understand human diversity by studying human races, major language families, and religions, including their evolution, classification, distribution, and diffusion patterns.
- To understand population characteristics, migration dynamics and patterns and processes of urbanization
- To comprehend the concept of human development, its indicators, and the Human

Development Index (HDI) as a measure of societal progress and well-being.

xi. Course Outcomes: On completion of this course, the students are expected to :

- Define human geography, identify its branches, and explain its relevance in understanding human-environment interactions.
- Explain the environmental determinism, possibilism, and neo-determinism approaches and their implications for human adaptation to diverse environments.
- Recognize and classify human races, major language families, and religions, and analyze their distribution patterns and diffusion processes.
- Analyze population distribution, density, composition, and growth patterns globally, regionally, and temporally, and identify the factors influencing these patterns.
- Understand the types, causes, and consequences of migration, as well as the processes and challenges of urbanization, including the concept of smart cities.
- Evaluate the concept of human development, interpret its indicators, and analyze the Human Development Index (HDI) to assess societal progress and well-being

xii. Syllabus:

Section	Content	Contact Hours
1.	i. Human Geography: Meaning, branches, nature, relevance. ii. Approaches to the study of Human Geography: Environmental Determinism , Possibilism and Neo-Determinism. iii. Human adaptation to the environment: a. Cold Regions: Eskimos. b. Hot region: Bushman. c. Plateau: Gond. d. Mountains: Gaddi.	15
2.	i. Human Races: Meaning and Evolution, Classification (Taylor's), Distribution. ii. Major language of the World and their distribution. iii. Major Religions of the World and their distribution.	15
3.	i. World Population distribution, density, composition and growth. ii. Demographic Transition theory. iii. Migration: Meaning, Types, Causes, and Consequences.	15
4.	i. Rural and Urban settlements: Types, Patterns, Function. ii. Urbanization: Meaning and Spatial Pattern, and Problems. Trends and patterns of world Urbanisation. iii. Human development: meaning, indicators, Human Development	15

Index (HDI).

iv. Suggested readings:

1. Kaushik, S. D. 2010: Maanav Bhoogol. Rastogi Prakashan
2. Husain, Majid. 2010: Human Geography. Rawat Publications, Jaipur.
3. Singh, R.L. 2012: Fundamentals of Human Geography. Sharda Publications, Varanasi, UP.
4. Johnston R; Gregory D, Pratt G, et al. 2008: The Dictionary of Human Geography, Blackwell Publication
5. Maurya, S.D. 2012: Human Geography. Pravalika Prakashan. Allahabad. (Hindi and English edition)
6. Chandana, R.C. 2017: Population Geography, Kalyani Publisher. New Delhi
7. Jordan, Bychkov et al. 2006: The Human Mosaic: A Cultural Approach to Human Geography. W. H. Freeman and Company. New York.
8. NCERT: Fundamentals of Human Geography /Maanav Bhoogol ke Mool Sidhanta (Class XII textbook)
9. Leong, G.C. 2020: Certificate in Physical and Human Geography. (New Edition) Oxford University Press

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Examination (3 Hour)
Marks	30	70
Total Marks	100	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	15 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%:1 Mark; 80%-84.9%; 2Marks; 85%-89.9%; 3Marks; 90%-94.9%; 4Marks and 95% 100%: 5Marks).	5 marks

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	15 Marks
2	Number of	2 (Section A & Section B)

	Sections	
3	Section A	Consists of five short answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two long answer questions. All questions are compulsory. Each question carries 5mark.

2. Pattern of End Semester Examination

Parts	No of Question	Syllabus Coverage	Nature of Question and Answers	Question to be Attempted	Maximum Marks
A	2	Section I	Choice based long answer type	1(14 marks each)	14
B	2	Section II	Choice based long answer type	1(14 marks each)	14
C	2	Section III	Choice based long answer type	1(14 marks each)	14
D	2	Section IV	Choice based long answer type	1(14 marks each)	14
E	10	Section(I II III IV)	Short answer type(25-30 words)	7(2 marks each)	14
				Total	70

viii.Pass marks

S. No.	Requirement	Minimum Percentage
1	Pass in each individual component (CCE, ESE)	35%
2	Pass in aggregate of the subject	40%

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SEMESTER -SECOND

Course No. BGEOG-SEC-201

Course title: Working with Maps (Practical) (GEOG-SEC-201)

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGEOG-SEC-201	Working with Maps (Practical)	0	0	3	3	90	SEC
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr.						

xiii. Course Objectives:

- To understand depiction of different landforms using the contour method.

- To learn representing the landform features and constructing profiles.
- To augment students' cognitive skills of visualizing different landforms and landscapes, and perceive spatial patterns of physio-cultural phenomena using topographical maps.
- To derive accurate information from topographical maps.

xiv. **Course Outcomes:** On completion of this course, the students are expected to :

- Depict selective landforms using contour methods.
- Gain the skill of constructing profiles of landscapes, and understanding the topographic make up develop proficiency in visualizing and identifying spatial patterns of physio-cultural phenomena using topographical maps.
- Derive accurate information about physical and cultural features from topographical maps.

xv. **Syllabus:**

Section	Content	Contact Hours
1.	Representation of the gentle slope, steep slope, V & U shaped valleys, plateau, ridge, cliff and mountain pass by contour method (total 8 exercises).	30
2.	Profile: Definition and Types. Longitudinal Profile, Transverse Profile, Serial Profile, Superimposed profile, Projected Profile, Composite Profile (6 exercises)	30
3.	Study of Survey of India's topographical map of any part of Himachal Pradesh (preferably at 1:50,000 scale): Identification of different landform features, cultural elements, and patterns of natural and man-made features (like drainage and settlement), to understand the general topography and characteristics of the area (2 Exercises).	30

iv. **Suggested readings:**

- Gupta, K.K. and Tyagi V.C., (1992), Working With Map, Survey of India, DST, New Delhi.
- Khullar, D.R. 2002: Essentials of Practical Geography. New Academy Publishing Company.
- *Prayogatmak Bhugol ke Tatva(hindi)*. New Academy Publishing Company.
- L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.
- Misra R P and Ramesh A. 1989. Fundamentals of Cartography. Concept Publishing Company, New Delhi.
- Monkhouse, F.J. and H.R. Wilkinson (1967). Maps and Diagrams, B.T. Publications Pvt. Ltd., Delhi 1989.
- R.L. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students friends Allahabad.
- Raisz, E. General Cartography. John Wiley and Sons, New York. 5th edition, 1962.
- Robinson, Arthur, and et.al. (2005): Elements of Cartography, John Wiley and Sons, New York.
- Sarkar, A. 2015. Practical geography: A systematic approach. Orient Black Swan Private Ltd.,

New Delhi,

- Sharma J. P., 2010. *Prayogic Bhugol*, Rastogi Publishers.
- Singh R. L. and Singh R. P. B., 1999. *Elements of Practical Geography*, Kalyani Publishers.
- Singh R. L., 1998. *Prayogic Bhoogol ki Rooprekha*, Kalyani Publications

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Practical Examination (2 Hour)
Marks	25	50
Total Marks	75	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	10 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%: 1 Mark; 80%-84.9%: 2Marks; 85%-89.9%: 3Marks; 90%-94.9%: 4Marks and 95%-100%: 5Marks).	5 marks

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	10 Marks
2	Number of Sections	2 (Section A & Section B)
3	Section A	Consists of four short-answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two choice based long-answer questions. Each question carries 6 mark.

2. Pattern of End Semester Practical Examination

e) Examiner will conduct a written test (on the spot) Consisting of Five Questions. from all sections , three marks each	15 Marks
f) Students will asked to perform two practical's from all sections ,ten marks each	20 Marks
g) Practical File Record	10 Marks
h) Viva Voce	05 Marks
Total	50 Marks

viii. Pass marks

S. No.	Requirement	Minimum Percentage
1.	Pass in each individual component (CCE, ESE)	35%
2.	Pass in aggregate of the subject	40%

SEMESTER -SECOND

Course title: General Geography of Himachal Pradesh (BGEOG-MDC-201)

S. No.	Course Code	Course Title	L	T	P	C	CH	Course Type
1	BGEOG-MDC-201	General Geography of Himachal Pradesh	3	0	0	3	45	MDC
Prerequisite		Students should have a sound understanding of basic concepts of geography covered up to the +2 level.						
Course Coordinator		Dr. _____						

xvi. Course Objectives:

- To comprehend the changing administrative geography of Himachal Pradesh.
- To understand various aspects of physical geography in terms of physiography, climate, soils and vegetation.
- To learn the basic information about important glaciers, passes and peaks, major rivers and wetlands.
- To describe the basic concepts of population characteristics of Himachal Pradesh i.e. distribution, density, growth, sex ratio, literacy, and urbanization.

xvii. Course Outcomes:

After attending this course, students will be able to:

- Understanding the evolution of the administrative geography of Himachal Pradesh.
- Acquire knowledge about the various aspects of the physical geography of Himachal.
- Gain basic understanding of the demographic characteristics and their determinants

xviii. Syllabus:

Section	Content	Contact Hours
1.	i. Changes in Administrative Set-up of Himachal Pradesh (1872-2021). ii. Physiographic Divisions of Himachal Pradesh. iii. Basic Information of Important Glaciers, Passes, and Peaks, Major Rivers, Wetlands.	15
2.	i. Factors Influencing Climate of Himachal Pradesh: Annual Temperature and Rainfall Pattern. ii. Climatic Zones of Himachal Pradesh. iii. Soils and Vegetation: Types and Spatial Distribution.	15

	iv. Elementary Information about National Parks and Sanctuaries.	
3.	Population Characteristics and determinants: Distribution, Density, Growth, Sex Ratio, Literacy and Urbanization*	15

***Instructions for teachers, paper setters and students:**

Growth and Urbanization in Himachal Pradesh are to be studied/asked since 1971, whereas, the remaining characteristics of the population viz., Distribution, Density, Sex Ratio and Literacy are to be studied/asked as per the latest Census for which data are available.

iv. Suggested readings:

- Joshi, K.L. 1984. Geography of Himachal Pradesh. National Book Trust of India, New Delhi.
- Jaret, Manoj. 2006. Geography of Himachal Pradesh. Indus Publishing Company, New Delhi.
- Singh, R.L. 1992. India: A Regional Geography. National Geographical Society of India, Varanasi.
- Kapadia, Harish. 1999. Across Peaks and Passes in Himachal Pradesh. Indus Publishing Company, New Delhi
- Dept. of Economics and Statistics, Govt. of HP: Statistical Abstracts of HP.
- Hazard Profile on SDMA website
(<https://hpsdma.nic.in/index1.aspx?isid=70&lev=2&id=62&angid=1>)
- Balokhara, Jagmohan. The Wonderland Himachal Pradesh. HG Publisher

v. Evaluation Pattern:

Components	Internal Assessment	End Semester Examination (2 Hour)
Marks	25	50
Total Marks	75	

vi. Components of Internal Evaluation:

S. No.	Type of Assessment	Marks
1	Assignments & Presentations	10 marks
2	Class Test/House Test	10 Marks
3	Attendance (The marks would be given in the following manner: (75%-79.9%:1 Mark; 80%-84.9%: 2Marks; 85%-89.9%: 3Marks; 90%-94.9%: 4Marks and 95%-100%: 5Marks).	5 marks

vii. Instructions for the Paper Setter:

1. Pattern of Mid Semester Examination

S. No.	Particulars	Details
1	Maximum Marks	10 Marks
2	Number of Sections	2 (Section A & Section B)
3	Section A	Consists of Four short-answer questions. All questions are compulsory. Each question carries 1 mark.
4	Section B	Consists of two choice based long-answer questions. Each question carries 6 mark.

2. Pattern of End Semester Examination

Parts	No of Question	Syllabus Coverage	Nature of Question and Answers	Question to be Attempted	Maximum Marks
A	2	Section I	Choice based long answer type	1(14 marks each)	12
B	2	Section II	Choice based long answer type	1(14 marks each)	12
C	2	Section III	Choice based long answer type	1(14 marks each)	12
D	10	Section (I,II,III)	Short answer type(25-30 words)	7(2 marks each)	14
Total					50

viii. Pass marks

S. No.	Requirement	Minimum Percentage
1	Pass in each individual component (CCE, ESE)	35%
2	Pass in aggregate of the subject	40%