

Department of Geography

School of Earth Science

Course Contents & Syllabus

**Four Year Under Graduate Programme (FYUP)
Under NEP 2020 (III and IV Semester)
for Students enrolled in 2025-26 Academic Session**



Hemvati Nandan Bahuguna Garhwal University
(A Central University)
Srinagar Garhwal-246174 (Uttarakhand)

Head
Department of Geography
School of Earth Science
H.N.B. Garhwal University
Srinagar (Uttarakhand)

Course Structure and Credit Allocation

Second Year – NHEQF Level- 5

Course Category	Semester-III						Semester-IV			
	Subject/Title	No. of paper	Credits		Subject /Title		No. of paper	Credits		
			T	P				T	P	
Major-I (One Subject) Major	DSC (Major)-III Geography of India	1	4	1		DSC (Major)-V Geographical Thought	1	4	1	
Minor-I (One Subject)	DSC (Minor)-III Introduction to Geography of India	1	3	1		DSC (Minor)-IV Introduction to Geographical Thought	1	3	1	
SEC (Major)	SEC (Major)-IV Regional Development and Planning with Special Reference to Uttarakhand	1	3	-		SEC (Major)-VI Geographical Fieldwork, Mapping, and Digital Techniūes	1	-	3	
SEC	SEC-M. D/I. D -III Geography of World (Physical)	1	3	1		SEC-M. D/I. D -IV Geography of World (Human)	1	3	1	
AEC (Language based courses)	Indian, Modern, Regional Language-I	1	2	-		Indian, Modern, Regional Language-II	1	2	-	
VAC/AEC	AEC-Indian Knowledge System Or VAC-Culture, traditions and moral values	1	2			AEC-Indian Knowledge System Or VAC-Culture, traditions and moral values	1	2	-	
Total		6	17	3			6	14	6	

**Syllabus of B.A./B.Sc. in Geography as per Four Year Under Graduate
Programme (FYUP) Under NEP 2020**

Applicable to B.A/ B.Sc. III and IV Semesters Session 2026-27

Semester	Major Subject	Course Name	Credits	
			T	P
III	DSC (Major)-III	Geography of India	4	1
	DSC (Minor)-III	Introduction to Geography of India	3	1
	SEC (Major)-IV	Regional Development and Planning with Special Reference to Uttarakhand	3	-
	SEC-M. D/I. D (M)-III	Geography of World (Physical)	3	1
	AEC	Indian, Modern, Regional Language-I	2	-
	AEC or VAC	AEC-Indian Knowledge System or VAC-Culture, traditions and moral values	2	-
	Total		20	
IV	DSC (Major)-IV	Geographical Thought	4	1
	DSC (Minor)-IV	Introduction to Geographical Thought	3	1
	SEC (Major)-VI	Geographical Fieldwork, Mapping, and Digital Techniques	-	3
	SEC-M. D/I. D (M)-IV	Geography of World (Human)	3	1
	AEC	Indian, Modern, Regional Language-II	2	-
	AEC Or VAC	AEC-Indian Knowledge System Or VAC-Culture, traditions and moral values	2	-
	Total		20	

Note: AEC and VAC courses will be offered by the University.

<u>Bachelor of Arts/ Science (B.A./B.SC.) 2 Year</u> <i>Course- DSC Subject -Major</i>		
Programme: B.A./B.Sc.	Year: Second	Semester: Third
Subject: Geography		
Course Code: GEOG/DSC-MJ003	Course Title: GEOGRAPHY OF INDIA	
Course Learning Objectives: 1. To provide an understanding of the geographical setting, physical features, and regional diversity of India. 2. To examine the distribution and utilization of natural resources, agriculture, industries, and population patterns of India. 3. To develop knowledge about contemporary geographical issues and regional development challenges of India.		
Course Learning Outcomes: 1. Explain the physical, climatic, and ecological characteristics of India. 2. Analyse the spatial distribution of population, resources, agriculture, and industries. 3. Understand regional development issues and contemporary geographical challenges of India.		
<i>Credits: 4+1</i>		<i>DSC-MAJOR</i>
<i>Max. Marks: 30+70</i>		<i>Min. Passing Marks: 35</i>
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W</i>		
Unit	Course Contents	
UNIT-I	Physiographic Divisions; Drainage -Peninsula and Extra-Peninsula; Characteristic of Climate, Natural Vegetation and Soils.	
UNIT-II	Population Growth and Distribution; Population Composition; Migration; Urbanization; Regional Disparities; Human Development Index and Socio-economic Development	
UNIT-III	Agricultural Regions; Green Revolution and Contemporary Agricultural Issues; Distribution and Utilization of Iron Ore, Coal, Petroleum; Industrial Regions.	
UNIT-IV	Transport and Communication Networks; Environmental Issues; Climate Change Impacts and adaptation; Disaster Management, SDGs 17 and Sustainable Development in India.	
Practical GEOG/DSC-MJ003-P (1 Credit)	Course Title: STATISTICAL METHODS IN GEOGRAPHY Primary and secondary data and their sources; Methods of primary data collection; Classification of statistical data and tabulation, Frequency curve, histogram and polygon.	
Suggested Readings: 1. Census of India. (Latest Edition). <i>Primary Census Abstract</i> . Office of the Registrar General and Census Commissioner, India. 2. Chandna, R. C. (2021). <i>Geography of population: Concepts, determinants and patterns</i> . Kalyani Publishers. 3. Government of India. (Latest Edition). <i>Economic Survey of India</i> . Ministry of Finance, Government of India. 4. Hussain, M. (2022). <i>Geography of India</i> . McGraw Hill Education. 5. Khullar, D. R. (2023). <i>India: A comprehensive geography</i> . Kalyani Publishers. 6. Majid Husain. (2021). <i>Geography of India</i> . McGraw Hill Education. 7. Sharma, T. C., & Coutinho, O. (2019). <i>Economic and commercial geography of India</i> . Vikas Publishing House. 8. Singh, R. L. (Ed.). (2016). <i>India: A regional geography</i> . National Geographical Society of India.		
Suggested Continuous Evaluation Methods: Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations (any methods)		
Marks distribution of theory examination: 30 marks by internal assessment and 70 marks by external assessment.		

<u>Bachelor of Arts/ Science (B.A./B.Sc.) 2 Year</u> <i>Course- DSC Subject - Minor</i>		
Programme: B.A./B.Sc.	Year: Second	Semester: Third
Subject: Geography		
Course Code: GEOG/DSC-MN003	Course Title: INTRODUCTION TO GEOGRAPHY OF INDIA	
Course Learning Objectives: 1. To provide an understanding of the geographical setting, physical features, and regional diversity of India. 2. To examine the distribution and utilization of natural resources, agriculture, industries, and population patterns of India. 3. To develop knowledge about contemporary geographical issues and regional development challenges of India.		
Course Learning Outcomes: 1. Explain the physical, climatic, and ecological characteristics of India. 2. Analyze the spatial distribution of population, resources, agriculture, and industries. 3. Understand regional development issues and contemporary geographical challenges of India.		
<i>Credits: 3+1</i>	<i>DSC-MINOR</i>	
<i>Max. Marks: 30+70</i>	<i>Min. Passing Marks: 35</i>	
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W</i>		
Unit	Course Contents	
UNIT-I	Physiographic Divisions; Drainage -Peninsula and Extra-Peninsula; Characteristic of Climate, Natural Vegetation and Soils.	
UNIT-II	Population Growth and Distribution; Population Composition; Migration; Urbanization; Regional Disparities; Human Development Index and Socio-economic Development	
UNIT-III	Agricultural Regions; Green Revolution and Contemporary Agricultural Issues; Distribution and Utilization of Iron Ore, Coal, Petroleum; Industrial Regions.	
UNIT-IV	Transport and Communication Networks; Environmental Issues; Climate Change Impacts and adaptation; Disaster Management, SDGs 17 and Sustainable Development in India.	
Practical GEOG/DSC-MN003-P (1 Credit)	Course Title: STATISTICAL METHODS IN GEOGRAPHY Primary and secondary data and their sources; Methods of primary data collection; Classification of statistical data and tabulation, Frequency curve, histogram and polygon.	
Suggested Readings: 1. Census of India. (Latest Edition). <i>Primary Census Abstract</i> . Office of the Registrar General and Census Commissioner, India. 2. Chandna, R. C. (2021). <i>Geography of population: Concepts, determinants and patterns</i> . Kalyani Publishers. 3. Government of India. (Latest Edition). <i>Economic Survey of India</i> . Ministry of Finance, Government of India. 4. Hussain, M. (2022). <i>Geography of India</i> . McGraw Hill Education. 5. Khullar, D. R. (2023). <i>India: A comprehensive geography</i> . Kalyani Publishers. 6. Majid Husain. (2021). <i>Geography of India</i> . McGraw Hill Education. 7. Sharma, T. C., & Coutinho, O. (2019). <i>Economic and commercial geography of India</i> . Vikas Publishing House. 8. Singh, R. L. (Ed.). (2016). <i>India: A regional geography</i> . National Geographical Society of India.		
Suggested Continuous Evaluation Methods: Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations (any methods)		
Marks distribution of theory examination: 30 marks by internal assessment and 70 marks by external assessment.		

<u>Bachelor of Arts/ Science (B.A./B.SC.) 2 Year</u>		
<i>Course- SEC (Major)</i>		
Programme: B.A./B.SC.	Year: Second	Semester: Third
Subject: Geography		
Course Code: GEOG/SEC-001	Course Title: REGIONAL DEVELOPMENT AND PLANNING WITH SPECIAL REFERENCE TO UTTARAKHAND	
Course Learning Objectives: - To study the different types of regions and their characteristics with special reference to Uttarakhand. - To introduce the unique geographical, social and economic characteristics of Uttarakhand and how these factors influence regional planning. - To learn the challenges and opportunities in regional development and planning unique to the region.		
Course Learning Outcomes: - The region, development, and planning and types of regions with special reference to Uttarakhand. - The influence of geographical, social and economic characteristics on the regional development and planning. - The region diversity and disparity with special reference to Uttarakhand.		
<i>Credits: 3</i>	<i>SEC-MAJOR</i>	
<i>Max. Marks: 30+70</i>	<i>Min. Passing Marks: 35</i>	
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-3/W</i>		
Unit	Course Contents	
UNIT-I	Region, Development and Planning: Definition, Concept and Types; Methods of Delineation of Regions.	
UNIT-II	Regional devolvment: Concepts and indicators; Regional Planning: Concepts and purpose; Levels of planning: local, regional and national.	
UNIT-III	Regional diversity in terms of Geography and Development and disparities in Uttarakhand.	
Suggested Readings: - Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons. - Claval P.I, 1998: An Introduction to Regional Geography, Blackwell Publishers, Oxford and Massachusetts. - Friedmann J. and Alonso W. (1975): Regional Policy - Readings in Theory and Applications, MIT Press, Massachusetts. - Gore C. G., 1984: Regions in Question: Space, Development Theory and Regional Policy, Methuen, London. - Gore C. G., Köhler G., Reich U-P. and Ziesemer T., 1996: Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention, Metropolis- Verlag, Marburg. - Haynes J., 2008: Development Studies, Polity Short Introduction Series. - Johnson E. A. J., 1970: The Organization of Space in Developing Countries, MIT Press, Massachusetts. - Peet R., 1999: Theories of Development, The Guilford Press, New York. UNDP 2001-04: Human Development Report, Oxford University Press.		
Suggested Continuous Evaluation Methods: Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations (any methods)		
Marks distribution of theory examination: 30 marks by internal assessment and 70 marks by external assessment.		

<u>Bachelor of Arts/ Science (B.A./B.SC.) 2 Year</u> <i>Course- M.D/I.D (M)-III</i>			
Programme: B.A./B.Sc.		Year: Second	Semester: Third
Subject: Geography			
Course Code: GEOG/MD/ID-003		Course Title: GEOGRAPHY OF WORLD (PHYSICAL)	
Course Learning Objectives: 1. Develop a comprehensive understanding of the world’s major physical features (landforms, climatic regions, natural vegetation, soils, and biomes). 2. To make the students understand the spatial distribution of physical features (landforms, climatic regions, natural vegetation, soils, and biomes across the world). 3. Identify and classify maps and explain their elements, evolution, significance, and applications in geographical analysis and spatial representation.			
Course Learning Outcomes: 1. Explain and Discuss World Geography, Its Nature, Scope and Significance. 2. Describe and interpret the distribution and characteristics of major landforms, climatic regions (Köppen Classification), natural vegetation, soil types, and world biomes. 3. Apply fundamental geographical and cartographic concepts to interpret physical landscapes and maps for academic, environmental, and regional studies.			
<i>Credits: 3+1</i>		<i>MD/ID-MAJOR</i>	
<i>Max. Marks: 30+70</i>		<i>Min. Passing Marks: 35</i>	
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W</i>			
Unit		Course Contents	
UNIT-I	Definition, Nature, Scope and Significance of physical geography of world.		
UNIT-II	Major Landforms: Mountains, Plateaus, Plains, and their World Distribution; World Climate: Major Climatic Regions of the World (Koeppen Classification)		
UNIT-III	Natural Vegetation of the World, Major Soil Types of the World and World Biomes		
Practical GEOG/MD/ID003-P (1 Credit)		Course Title: UNDERSTANDING MAPS Maps: Definition, Historical Evolution, Elements, Significance and Usage; Classification of Maps	
Suggested Readings: 1. English, Paul Ward and James, A. Miller (1989): World Regional Geography: A Question of Place, John Wiley, New York. 2. Jackson, Richard H. and Lioyd, E. Hudman (1991). World Regional Geography: Issues for Today, John Wiley, New York. 3. Don, R. Hoy (ed.) (1980). Essentials of Geography and Development, MacMillan, New York. 4. Hussain, M. (2008). World Geography, Rawat Publications, Jaipur. 5. Goh, C.L., Morgan G.C. (1982). Human and Economic Geography, Oxford University Press. 6. Di Blij, H. and Muller, O. (1993): Geography: Regions and Concepts. John Wiley and Sons, New York. 7. Rai, Gayatri (2007): Vishwa Ka Pradeshik Bhugol, Mishra Trading Corporation, Varanasi. 8. Sharma, P. R. (ed.) (1991): Perspectives on Third World Development. Rishi Publication, Varanasi. 9. Stamp, L. D. (1976): Asia: A Regional and Economic Geography, Methuen, London.			
Suggested Continuous Evaluation Methods: Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations (any methods)			
Marks distribution of theory examination: 30 marks by internal assessment and 70 marks by external assessment.			

<u>Bachelor of Arts/ Science (B.A./B.SC.) 2 Year</u> <i>Course- DSC Subject -Major</i>		
Programme: B.A./B.Sc.	Year: Second	Semester: Four
Subject: Geography		
Course Code: GEOG/DSC-MJ004	Course Title: GEOGRAPHICAL THOUGHT	
Course Learning Objectives: 1. To introduce to the basic nature of the discipline, its philosophical and methodological development 2. To introduce the basic concepts and landmark development and evolution of different concepts in Geography 3. To introduce the development of subject in India and other places at different periods of time 4. To introduce basic concepts skills in map-making, projections, and thematic mapping techniques.		
Course Learning Outcomes: 1. Students will have a comprehensive knowledge of geographic thought and a thorough at different periods of time 2. Students will be familiar with key concepts, debates, and contributions within the field 3. The course will enhance their critical thinking and theoretical analytical skills. 4. The course will enhance their basic understanding regarding elements of map and map making		
<i>Credits: 4+1</i>	<i>DSC-MAJOR</i>	
<i>Max. Marks: 30+70</i>	<i>Min. Passing Marks: 35</i>	
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W</i>		
Unit	Course Contents	
UNIT-I	Definition, nature and scope of Geography; Branches and sub-branches of Geography Early development of geographical knowledge: Contributions of Greek, Roman and Arab geographers -Strabo, Ptolemy and Al-Idrisi.	
UNIT-II	Development of geographical knowledge in Ancient, Medieval and Modern India; Renaissance, the Age of Discovery and Scientific Revolution; Contributions of Bernhard Varenus and Immanuel Kant.	
UNIT-III	Development of Modern Geography: German School -Alexander von Humboldt, Carl Ritter, Friedrich Ratzel and Alfred Hettner; French School (Paul Vidal de la Blache and Jean Brunhes);	
UNIT-IV	British School -Halford J. Mackinder and Peter Haggett; American School -William Morris Davis, Ellen Churchill Semple, Ellsworth Huntington, Richard Hartshorne, Fred K. Schaefer and David Harvey, Geographers of Uttarakhand.	
Practical GEOG/DSC-MJ004-P (1 Credit)	Course Title: FUNDAMENTALS OF CARTOGRAPHY	
	Changing perceptions of Maps of the world, Elements of Maps, Basic Concepts of Map Projection, Bonne's; Cylindrical Equal Area; Mercator's; and Polar Zenithal Equal Area map projection.	
Suggested Readings: 1. Haggett, P. (2001). Geography: A global synthesis. Prentice Hall. 2. Chorley, R. J., & Haggett, P. (Eds.). (1967). Models in geography. Methuen. 3. Johnston, R. J., & Claval, P. (Eds.). (1984). Geography since the Second World War: An international survey. Croom Helm. 4. Johnston, R. J. (1988). The future of geography. Methuen. 5. Adhikari, S. (2006). Fundamentals of geographical thought. Chaitanya Publishing House. 6. Marcus, D. (1999). Post-structuralism in geography: The diabolical art of spatial science. Edinburgh University Press. 7. Gaile, G. L., & Willmott, C. J. (Eds.). (2003). Geography in America at the dawn of the 21st century. Oxford University Press. 8. Hubbard, P., Kitchin, R., Bartley, B., & Fuller, D. (2002). Thinking geographically: Space, theory and contemporary human geography. Continuum. 9. Hussain, M. (2007). Evolution of geographical thought (5th ed.). Rawat Publications. 10. Dixit, R.D.: Geographical Thought: A Contextual History of Geographical Ideas, Prentice Hall of India, New Delhi, 2001. 10. Peet, R. (1998). <i>Modern geographical thought</i>. Blackwell. 11. Cloke, P., Crang, P., & Goodwin, M. (Eds.). (2014). <i>Introducing human geographies</i> (3rd ed.). Routledge.		

12. Cresswell, T. (2013). *Geographic thought: A critical introduction*. Wiley-Blackwell.
13. Holt-Jensen, A. (2018). *Geography: History and concepts* (6th ed.). Sage.
14. Johnston, R. J., & Sidaway, J. D. (2016). *The dictionary of human geography* (5th ed.). Wiley-Blackwell.
15. Livingstone, D. N. (1992). *The geographical tradition: Episodes in the history of a contested enterprise*. Blackwell.
16. Harvey, D. (1989). *The condition of postmodernity*. Blackwell.
17. Soja, E. W. (1989). *Postmodern geographies: The reassertion of space in critical social theory*. Verso
18. Schaefer, F. K. (1953). Exceptionalism in geography: A methodological examination. *Annals of the Association of American Geographers*, 43(3), 226–249.
19. Agnew, J., Livingstone, D. N., & Rogers, A. (Eds.). (1996). *Human geography: An essential anthology*. Blackwell.
20. James, Preston E., and Geoffrey J. Martin. All Possible Worlds: A History of Geographical Ideas. New York: Wiley, 1981. ISBN 0471061212.
21. Dent, B. D., Torguson, J. S., & Hodler, T. W. (2009). *Cartography: Thematic map design* (6th ed.). McGraw-Hill.
22. Slocum, T. A., McMaster, R. B., Kessler, F. C., & Howard, H. H. (2022). *Thematic cartography and geovisualization* (5th ed.). CRC Press.
23. Robinson, A. H., Morrison, J. L., Muehrcke, P. C., Kimerling, A. J., & Guptill, S. C. (1995). *Elements of cartography* (6th ed.). John Wiley & Sons.
24. Kraak, M.-J., & Ormeling, F. (2020). *Cartography: Visualization of geospatial data* (4th ed.). CRC Press.
25. Snyder, J. P. (1987). *Map projections: A working manual*. U.S. Geological Survey.
26. Harley, J. B. (2001). *The new nature of maps: Essays in the history of cartography*. Johns Hopkins University Press.
27. Monmonier, M. (2018). *How to lie with maps* (3rd ed.). University of Chicago Press.
28. Sarkar, A. (2015). *Practical geography: A systematic approach*. Orient BlackSwan.
29. Singh, R. L., & Singh, R. P. B. (1993). *Elements of practical geography*. Kalyani Publishers.
30. Tyner, J. A. (2014). *Principles of map design*. Guilford Press.

Suggested Continuous Evaluation Methods: **Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations** (any methods)

Marks distribution of theory examination: **30 marks** by **internal** assessment and **70 marks** by **external** assessment.

Bachelor of Arts/ Science (B.A./B.Sc.) 2 Year		
Course- DSC Subject - Minor		
Programme: B.A./B.Sc.	Year: Second	Semester: Four
Subject: Geography		
Course Code: GEOG/DSC-MN004	Course Title: INTRODUCTION TO GEOGRAPHICAL THOUGHT	
Course Learning Objectives: 1. To introduce to the basic nature of the discipline, its philosophical and methodological development 2. To introduce the basic concepts and landmark development and evolution of different concepts in Geography 3. To introduce the development of subject in India and other places at different periods of time 4. To introduce basic concepts skills in map-making, projections, and thematic mapping techniques.		
Course Learning Outcomes: 1. Students will have a comprehensive knowledge of geographic thought and a thorough at different periods of time 2. Students will be familiar with key concepts, debates, and contributions within the field 3. The course will enhance their critical thinking and theoretical analytical skills. 4. The course will enhance their basic understanding regarding elements of map and map making		
<i>Credits: 3+1</i>	<i>DSC-MINOR</i>	
<i>Max. Marks: 30+70</i>	<i>Min. Passing Marks: 35</i>	
<i>Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W</i>		
Unit	Course Contents	
UNIT-I	Definition, nature and scope of Geography; Branches and sub-branches of Geography Early development of geographical knowledge: Contributions of Greek, Roman and Arab geographers -Strabo, Ptolemy and Al-Idrisi.	
UNIT-II	Development of geographical knowledge in Ancient, Medieval and Modern India; Renaissance, the Age of Discovery and Scientific Revolution; Contributions of Bernhard Varenus and Immanuel Kant.	
UNIT-III	Development of Modern Geography: German School -Alexander von Humboldt, Carl Ritter, Friedrich Ratzel and Alfred Hettner; French School (Paul Vidal de la Blache and Jean Brunhes);	
UNIT-IV	British School -Halford J. Mackinder and Peter Haggett; American School -William Morris Davis, Ellen Churchill Semple, Ellsworth Huntington, Richard Hartshorne, Fred K. Schaefer and David Harvey, Geographers of Uttarakhand.	
Practical GEOG/DSC-MN004-P (1 Credit)	Course Title: FUNDAMENTALS OF CARTOGRAPHY	
	Changing perceptions of Maps of the world, Elements of Maps, Basic Concepts of Map Projection, Bonne’s; Cylindrical Equal Area; Mercator’s; and Polar Zenithal Equal Area map projection.	
Suggested Readings: 1. Haggett, P. (2001). Geography: A global synthesis. Prentice Hall. 2. Chorley, R. J., & Haggett, P. (Eds.). (1967). Models in geography. Methuen. 3. Johnston, R. J., & Claval, P. (Eds.). (1984). Geography since the Second World War: An international survey. Croom Helm. 4. Johnston, R. J. (1988). The future of geography. Methuen. 5. Adhikari, S. (2006). Fundamentals of geographical thought. Chaitanya Publishing House. 6. Marcus, D. (1999). Post-structuralism in geography: The diabolical art of spatial science. Edinburgh University Press. 7. Gaile, G. L., & Willmott, C. J. (Eds.). (2003). Geography in America at the dawn of the 21st century. Oxford University Press. 8. Hubbard, P., Kitchin, R., Bartley, B., & Fuller, D. (2002). Thinking geographically: Space, theory and contemporary human geography. Continuum. 9. Hussain, M. (2007). Evolution of geographical thought (5th ed.). Rawat Publications. 10. Dixit, R.D.: Geographical Thought: A Contextual History of Geographical Ideas, Prentice Hall of India, New Delhi, 2001. 10. Peet, R. (1998). <i>Modern geographical thought</i>. Blackwell. 11. Cloke, P., Crang, P., & Goodwin, M. (Eds.). (2014). <i>Introducing human geographies</i> (3rd ed.). Routledge. 12. Cresswell, T. (2013). <i>Geographic thought: A critical introduction</i>. Wiley-Blackwell. 13. Holt-Jensen, A. (2018). <i>Geography: History and concepts</i> (6th ed.). Sage.		

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29. Singh, R. L., & Singh, R. P. B. (1993). *Elements of practical geography*. Kalyani Publishers.
30. Tyner, J. A. (2014). *Principles of map design*. Guilford Press.

Suggested Continuous Evaluation Methods: **Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations** (any methods)

Marks distribution of theory examination: **30 marks** by **internal** assessment and **70 marks** by **external** assessment.

Bachelor of Arts/ Science (B.A./B.Sc.) 2 Year		
Course- SEC (Major)		
Programme: B.A./B.Sc.	Year: Second	Semester: Four
Subject: Geography		
Course Code: GEOG/SEC004 (P)	Course Title: Geographical Fieldwork, Mapping, and Digital Techniques	
Course Learning Objective: 1. Develop basic skills in geographical fieldwork and field data collection. 2. Apply cartographic, mapping, and GIS techniques for geographical representation. 3. Use statistical methods and spreadsheet tools to analyze geographical data.		
Course Learning Outcomes (CLOs): 1. Explain the basic concepts and importance of geographical fieldwork. 2. Conduct geographical field surveys using appropriate methods and field instruments. 3. Prepare and interpret maps using basic cartographic and GIS techniques. 4. Analyze geographical data using descriptive statistics and spreadsheet tools.		
Credits: 3	SEC-MAJOR	
Max. Marks: 30+70	Min. Passing Marks: 35	
Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-3/W		
Unit	Course Contents	
UNIT-I	Fundamentals of Geographical Fieldwork: aims, scope, planning, organization, ethics and safety. Field Survey and Data Collection: sampling, questionnaires, interviews, observation, and primary/secondary data. <i>Practical Fieldwork:</i> mobile-based surveys, data recording, and field exercises.	
UNIT-II	Field Documentation and Mapping (traditional and digital): field diary/notebook, sketching, participatory mapping, photography, GPS and geotagging. Geographical Data Analysis and Presentation: statistics, tabulation, graphs, charts, and spreadsheet applications. <i>Map and Data Interpretation:</i> interpretation of maps, statistical outputs, and practical exercises.	
UNIT-III	Digital Mapping and Participatory Tools: SketchMap Tool, ChatMap, OpenStreetMap, CrowdWater. Geospatial Technologies: AI-assisted documentation, integration of GPS, GIS, remote sensing, and GeoAI. Citizen Science, Data Quality and Ethics: validation, ethical use of digital technologies.	
Suggested Readings 1. France, D. & Haigh, M. (2018). Fieldwork@40: Fieldwork in Geography Higher Education. Journal of Geography in Higher Education, 42(4), 498–514. 2. Fuller, I., Edmondson, S., France, D., Higgitt, D. & Ratinen, I. (2006). International Perspectives on the Effectiveness of Geography Fieldwork for Learning. Journal of Geography in Higher Education, 30(1), 89–101. 3. Hope, M. (2009). The Importance of Direct Experience: A Philosophical Defence of Fieldwork in Human Geography. Journal of Geography in Higher Education, 33(2), 169–182. 4. Casinader, N. & Kidman, G. (2018). Fieldwork, Sustainability, and Environmental Education: The Centrality of Geographical Inquiry. Australian Journal of Environmental Education, 34(1), 1–17. 5. Dunphy, A. & Spellman, G. (2009). Geography Fieldwork, Fieldwork Value and Learning Styles. International Research in Geographical and Environmental Education, 18(1), 19–28. 6. Wilson, H., Leydon, J. & Wincentak, J. (2017). Fieldwork in Geography Education: Defining or Declining? Journal of Geography in Higher Education, 41(1), 94–105. 7. Wall, G.P. & Speake, J. (2012). European Geography Higher Education Fieldwork and the Skills Agenda. Journal of Geography in Higher Education, 36(3), 421–435. 8. Fuller, I., Rawlinson, S. & Bevan, R. (2000). Evaluation of Student Learning Experiences in Physical Geography Fieldwork: Paddling or Pedagogy? Journal of Geography in Higher Education, 24(2), 199–215. 9. Bos, D., Miller, S. & Bull, E. (2022). Using Virtual Reality (VR) for Teaching and Learning in Geography: Fieldwork, Analytical Skills, and Employability. Journal of Geography in Higher Education, 46(3), 479–488. 10. Larsen, T., Tabor, L. & Smith, P. (2020). End of the Field? Hacking Online and Hybrid Environments for Field-Based Learning in Geography Education. Journal of Geography, 120(1), 3–11.		

11. Zhao, J., LaFemina, P., Carr, J., Sajjadi, P., Wallgrün, J.O. & Klippel, A. (2020). Learning in the Field: Comparison of Desktop, Immersive Virtual Reality, and Actual Field Trips for Place-Based STEM Education. *IEEE Conference on Virtual Reality and 3D User Interfaces*, 893–902.
12. Gerber, R. & Chuan, G.K. (2000). *Fieldwork in Geography: Reflections, Perspectives and Actions*. Springer.
13. Komoto, C. (2009). Moving Toward a Signature Pedagogy in Geography: A Close Reading of the Landscape. In *Exploring Signature Pedagogies*. Routledge.
14. Glass, M.R. (2015). International Geography Field Courses: Practices and Challenges. *Journal of Geography in Higher Education*, 39(4), 485–490.
15. Behling, K.T. & Tobin, T.J. (2018). *Reach Everyone, Teach Everyone: Universal Design for Learning in Higher Education*. West Virginia University Press.
16. Singh, R.L. & Singh, Rana P.B. (2008). *Elements of Practical Geography*. Kalyani Publishers.
17. Keates, J.S. (2008). *Cartographic Design and Production*. Longman.
18. Robinson, A.H. & Morrison, J.L. (1995). *Elements of Cartography*. John Wiley & Sons.
19. Peterson, M.P. (1995). *Interactive and Animated Cartography*. Prentice Hall.
20. Lillesand, T., Kiefer, R.W. & Chipman, J. (2015). *Remote Sensing and Image Interpretation*. 7th ed. John Wiley & Sons.
21. George, J. (2005). *Fundamentals of Remote Sensing*. 2nd ed. University Press.
22. Sabins, F.F. (1986). *Remote Sensing: Principles and Interpretation*. 2nd ed. W.H. Freeman.
23. Kothari, C.R. (2008). *Research Methodology: Methods and Techniques*. New Age International.
24. Das, N.G. (2017). *Statistical Methods*. Combined Edition, Volumes 1 & 2. McGraw Hill.
25. Mahmood Aslam (2008). *Statistical Methods in Geographical Studies*. Rajesh Publications.
26. National Geographic Education. *Field Work*.
27. GeographyFieldwork.com. *Data Presentation*.
28. Geography.org.uk. *Fieldwork and Technology*.
29. *Physical Geography 2023*. *Practical Physical Geography Learning Resources*.

Suggested Continuous Evaluation Methods: **Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations** (any two methods)

Mark's distribution of theory examination: **30 marks** by **internal** assessment and **70 marks** by **external** assessment.

Bachelor of Arts/ Science (B.A./B.SC.) 2 Year		
Course- M.D/I.D (M)		
Programme: B.A./B.Sc.	Year: Second	Semester: Four
Subject: Geography		
Course Code: GEOG/MD/ID-004	Course Title: GEOGRAPHY OF WORLD (HUMAN)	
Course Learning Objectives: 1. To understand the concepts, approaches, and scope of Human Geography. 2. To examine global patterns of population, culture, migration, and economic activities. 3. To develop skills in analysing human development and interpreting thematic maps.		
Course Learning Outcomes: 1. Explain the fundamental concepts and approaches of Human Geography. 2. Analyse the distribution of population, culture, economic activities, and human development. 3. Prepare and interpret thematic maps and evaluate HDI and SDG indicators.		
Credits: 3+1	MD/ID-MAJOR	
Max. Marks: 30+70	Min. Passing Marks: 35	
Total No. of Lectures- Tutorials - Practical (in hours per week): L-T-4/W		
Unit	Course Contents	
UNIT-I	Meaning, Nature, Approaches and Scope of human world geography; Concepts, Bases and Characteristics of Developed and Developing Countries.	
UNIT-II	Factors influencing Population Distribution and Density; Demographic Transition Theory; Distribution and Characteristics of Race; Migration Pattern	
UNIT-III	Primary, Secondary, Tertiary and Quaternary Economic Activities; Types and Distribution of Agriculture and Industrial Regions; Human Development Index (HDI)	
Practical GEOG/MD/ID004-P (1 Credit)	Course Title: Statistical Data and Analysis Classification of statistical data and tabulation; Introduction to Data Analysis Software- MS Office, spreadsheets and JASP for geographical data analysis.	
Suggested Readings: 1. Daniels, P., Bradshaw, M., Shaw, D., Sidaway, J., & Hall, T. (2022). <i>An introduction to human geography</i> (6th ed.). Pearson. 2. Fouberg, E. H., Murphy, A. B., & de Blij, H. J. (2023). <i>Human geography: People, place, and culture</i> (13th ed.). Wiley. 3. Johnston, R., Gregory, D., Pratt, G., Watts, M., & Whatmore, S. (Eds.). (2009). <i>The dictionary of human geography</i> (5th ed.). Wiley-Blackwell. 4. Knox, P. L., & Marston, S. A. (2022). <i>Human geography: Places and regions in global context</i> (9th ed.). Pearson. 5. Intergovernmental Panel on Climate Change. (2023). <i>Climate change 2023: Synthesis report</i> . IPCC. https://www.ipcc.ch/report/ar6/syr/ 6. Rubenstein, J. M. (2021). <i>The cultural landscape: An introduction to human geography</i> (14th ed.). Pearson. 7. Singh, G. (2021). <i>Map work and practical geography</i> . Vikas Publishing House. 8. United Nations. (2015). <i>Transforming our world: The 2030 Agenda for Sustainable Development</i> . United Nations. https://sdgs.un.org/2030agenda 9. United Nations. (2024). <i>The Sustainable Development Goals report 2024</i> . United Nations. https://unstats.un.org/sdgs/report/ 10. United Nations Development Programme. (2024). <i>Human development report 2023/2024: Breaking the gridlock—Reimagining cooperation in a polarized world</i> . UNDP. https://hdr.undp.org		
Suggested Continuous Evaluation Methods: Assignment/ Test/ Quiz (MCQ)/ Seminar/ Presentations (any methods)		
Marks distribution of theory examination: 30 marks by internal assessment and 70 marks by external assessment.		


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