

**DUMKAL COLLEGE**  
**DEPARTMENT OF GEOGRAPHY**  
**PROGRAMME & COURSE OUTCOMES**  
**(CBCS PATTERN w.e.f. 2018-2019)**

**POs**

1. *Geographical Knowledge:* Gain an in-depth understanding of physical and human geography.
2. *Spatial Analysis:* Develop skills to analyze spatial data and geographical patterns.
3. *Cartographic Skills:* Master map-making, GIS, and remote sensing techniques.
4. *Research Proficiency:* Conduct research using scientific methods and fieldwork.
5. *Environmental Awareness:* Understand environmental challenges and sustainable solutions.
6. *Analytical Thinking:* Build critical and analytical thinking skills to solve geographic issues.
7. *Cultural Insights:* Study the interaction between humans and the environment.
8. *Technological Adaptability:* Utilize modern geospatial technologies effectively.
9. *Global Perspective:* Address global issues like climate change and urbanization.
10. *Career Preparedness:* Prepare for careers in planning, research, teaching, and environmental management.

**PSOs**

- *PSO 1* - Student will gain the knowledge of physical geography. They will gather knowledge about the fundamental concepts of Geography and will have a general understanding about the geomorphologic and geotectonic process and

formation. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change.

- **PSO 2** - Associating landforms with structure and process; establishing man environment relationships; and exploring the place and role of Geography vis-a-vis other social and earth sciences. Students can easily correlate the knowledge of physical geography with the human geography. They will analyze the problems of physical as well as cultural environments of both rural and urban areas. More over they will try to find out the possible measures to solve those problems.
- **PSO 3** - Understanding the functioning of global economies, geopolitics, global geostrategic views and functioning of political systems.
- **PSO 4** - Developing a sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.
- **PSO 5** - The physical environment, human societies and local and/or global economic systems are integrated to the principles of sustainable development.
- **PSO 6** - Inculcating a tolerant mind set and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.
- **PSO 7** - Analyzing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics.

Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization.

- **PSO 8** - Training in practical techniques of mapping, cartography, interpretation of maps, photographs and images etc. so as to understand the spatial variation of phenomena on the Earth's surface.
- **PSO 9** - To create knowledge to balance between development needs and protection of natural resources which means if coastal ecosystems are managed through the guiding principles of sustainability, then livelihoods of millions will be protected and their survival guaranteed.
- **PSO 10** - The student will get idea regarding an integrated approach, addressing all resources and considering all interests. Coordination across all sectors for the terrestrial and marine parts of the coast. Sustainable multiple use that does not compromise the future and controls the use of renewable resources. Conservation of biodiversity, especially in the dunes, and protection of valuable species.

## COURSE OUTCOMES

COURSE CODE	PAPER NAME	PROGRAMME OUTCOME
GEO/H/CC/T/01	GEOTECTONICS AND GEOMORPHOLOGY	<ul style="list-style-type: none"> <li>➤ Understand the fundamentals of geotectonic</li> <li>➤ Analyze geomorphological processes</li> <li>➤ Apply geotectonic and geomorphological principles</li> <li>➤ Evaluate human impact on earth's surface</li> </ul>
GEO/H/CC/T/P/02	CARTOGRAPHIC TECHNIQUES AND	<ul style="list-style-type: none"> <li>➤ Understand cartographic principles and techniques</li> </ul>

	<b>GEOLOGICAL MAP STUDY</b>	<ul style="list-style-type: none"> <li>➤ Interpret geological maps</li> <li>➤ Create geological and thematic maps</li> <li>➤ Apply map interpretation in fieldwork and research</li> </ul>
<b>GEO/H/CC/T/03</b>	<b>HUMAN GEOGRAPHY</b>	<ul style="list-style-type: none"> <li>➤ Understand the relationship between humans and their environment</li> <li>➤ Examine population and settlement patterns</li> <li>➤ Interpret cultural and economic landscape</li> <li>➤ Apply geographic concepts to contemporary issues</li> </ul>
<b>GEO/H/CC/T/P/04</b>	<b>CARTOGRAMS, SURVEY AND THEMATIC MAPPING</b>	<ul style="list-style-type: none"> <li>➤ Develop skills in cartogram construction</li> <li>➤ Perform accurate surveys</li> <li>➤ Design and interpret thematic maps</li> <li>➤ Apply mapping techniques to real world problems</li> </ul>
<b>GEO/H/CC/T/05</b>	<b>CLIMATOLOGY</b>	<ul style="list-style-type: none"> <li>➤ Understand atmospheric processes and climate systems</li> <li>➤ Examine global and regional climatic pattern</li> <li>➤ Assess climate change and its impacts</li> <li>➤ Apply climatological knowledge to problem-solving</li> </ul>
<b>GEO/H/CC/T/06</b>	<b>STATISTICAL METHODS IN GEOGRAPHY</b>	<ul style="list-style-type: none"> <li>➤ Apply statistical techniques to geographic data</li> <li>➤ Interpret geographic phenomena through quantitative analysis</li> <li>➤ Use statistical tools in geographic research</li> <li>➤ Solve real-world geographic</li> </ul>

		problems statistically
<i>GEO/H/CC/T/07</i>	<b>GEOGRAPHY OF INDIA</b>	<ul style="list-style-type: none"> <li>➤ Understand the physical features of India</li> <li>➤ Examine the demographic and cultural landscape of India</li> <li>➤ Assess economic and resource geography</li> <li>➤ Analyze regional disparities and development</li> </ul>
<i>GEO/H/SEC/P/01/A SEC</i>	<b>COMPUTER BASIC AND COMPUTER APPLICATIONS</b>	<ul style="list-style-type: none"> <li>➤ Understand fundamental computer concepts</li> <li>➤ Develop proficiency in MS Office application</li> <li>➤ Apply computer applications in problem-solving</li> <li>➤ Utilize internet and communication tools</li> </ul>
<i>GEO/H/CC/T/08</i>	<b>REGIONAL PLANNING AND DEVELOPMENT</b>	<ul style="list-style-type: none"> <li>➤ Understand concepts and theories of regional development</li> <li>➤ Evaluate regional disparities</li> <li>➤ Apply regional planning techniques</li> <li>➤ Address regional development challenges</li> </ul>
<i>GEO/H/CC/T/09</i>	<b>ECONOMIC GEOGRAPHY</b>	<ul style="list-style-type: none"> <li>➤ Understand the fundamentals of economic geography</li> <li>➤ Examine resource utilization and economic systems</li> <li>➤ Analyze globalization and economic integration</li> <li>➤ Apply economic geography to real world challenges</li> </ul>
<i>GEO/H/CC/T/10</i>	<b>ENVIRONMENTAL GEOGRAPHY</b>	<ul style="list-style-type: none"> <li>➤ Understand the interactions between human and the environment</li> <li>➤ Examine environmental problems</li> </ul>

		<p>and global challenges</p> <ul style="list-style-type: none"> <li>➤ Apply sustainable development principles</li> <li>➤ Evaluate policy and legal frameworks for environmental protection</li> </ul>
GEO/H/SEC/P/02/A SEC	ADVANCE SPATIAL STATISTICAL TECHNIQUES	<ul style="list-style-type: none"> <li>➤ Understand advanced spatial methods</li> <li>➤ Analyze and interpret spatial data patterns</li> <li>➤ Apply spatial analysis techniques to real-world problems</li> <li>➤ Utilize software for spatial data analysis</li> </ul>
GEO/H/CC/T/11	RESEARCH METHODOLOGY AND FIELD WORK	<ul style="list-style-type: none"> <li>➤ Understand research design and methodology</li> <li>➤ Apply qualitative and quantitative research techniques</li> <li>➤ Conduct field work and data collection</li> <li>➤ Analyze and interpret research data</li> </ul>
GEO/H/CC/T/P/12	REMOTE SENSING AND GIS	<ul style="list-style-type: none"> <li>➤ Understand the principles of Remote Sensing and GIS</li> <li>➤ Analyze spatial data using GIS Tools</li> <li>➤ Apply RS for environmental and geospatial analysis</li> <li>➤ Integrate RS and GIS for decision making</li> </ul>
GEO/H/DSE/T/01/A DSE	URBAN GEOGRAPHY	<ul style="list-style-type: none"> <li>➤ Understand the dynamics of urbanization</li> <li>➤ Examine urban land use and structure</li> <li>➤ Evaluate urban challenges and sustainability issues</li> </ul>


		<ul style="list-style-type: none"> <li>➤ Apply urban geography concepts to urban planning</li> </ul>
GEO/H/DSE/T/02/A DSE	POPULATION GEOGRAPHY	<ul style="list-style-type: none"> <li>➤ Understand population dynamics and distribution</li> <li>➤ Examine population policies and their impacts</li> <li>➤ Analyze the socio-economic implications of population trends</li> <li>➤ Apply techniques in population data analysis</li> </ul>
GEO/H/CC/T/13	EVOLUTION OF GEOGRAPHICAL THOUGHTS	<ul style="list-style-type: none"> <li>➤ Understand the history of geographical thought</li> <li>➤ Analyze the influence of philosophical, scientific, and cultural movements</li> <li>➤ Evaluate key geographical paradigms and theories</li> <li>➤ Apply geographical theories to modern issues</li> </ul>
GEO/H/CC/T/14	DISASTER MANAGEMENT	<ul style="list-style-type: none"> <li>➤ Understand disaster risk and management concepts</li> <li>➤ Analyze the impact of natural and man-made disasters</li> <li>➤ Develop disaster preparedness and response plans</li> <li>➤ Promote risk reduction and sustainable recovery strategies</li> </ul>
GEO/H/DSE/T/03/B DSE	RESOURCE GEOGRAPHY	<ul style="list-style-type: none"> <li>➤ Understand the distribution and types of resource</li> <li>➤ Analyze the economic and environmental impact of resource utilization</li> <li>➤ Examine global resource management and sustainability practices</li> <li>➤ Apply geographic techniques to</li> </ul>

		resource mapping and planning
GEO/H/DSE/T/04/A DSE	SOIL AND BIO GEOGRAPHY	<ul style="list-style-type: none"> <li>➤ Understand soil formation and classification</li> <li>➤ Analyze soil-ecosystem interaction</li> <li>➤ Examine biogeographical patterns and distribution</li> <li>➤ Assess human impact on soil and biodiversity</li> </ul>

### POs and COs Mapping

### (CBCS CURRICULUM)

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010
CO1	√						√			
CO2			√							√
CO3	√						√		√	
CO4		√	√							√
CO5	√				√				√	
CO6		√		√						√
CO7	√				√		√			
CO8		√		√						√
CO9					√	√	√			
CO10					√	√	√			
CO11					√		√		√	
CO12		√		√						√
CO13				√		√				√
CO14		√	√					√		√
CO15	√				√				√	

  
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