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## DEPARTMENT OF GEOGRAPHY

### P.O. & C.O. (NEP)

#### GRADUATE ATTRIBUTES IN GEOGRAPHY

##### Some of the Graduate attributes of a graduate in Geography are:-

- **Disciplinary knowledge and skills-** Acquiring sound knowledge to understand the major concepts ,theoretical principles and practical applicability in core Geography and its different sub -fields like Geomorphology, Climatology and climate change, changing perspectives of Human Geography, Pedology, Ecology and Bio- geography, Environmental geography, Forest and wildlife management, Regional Planning, Cartography, Regional Geography, Economic Geography, Philosophy of Geography etc. with special reference to Resource Geography, Research Methodology, Sustainable Geography, Remote Sensing, GIS & GNSS, Hazard management and other related fields of study including broader interdisciplinary sub –fields like Geology, Mathematics, Physics, Chemistry, Life Sciences, Environmental Sciences, Information Technology etc.
- **Skilled Interpreter-** Ability to explain complex geographical information in a clear and concise manner in writing as well as ability to express complicated concepts in a simple language for better understanding of the subject.
- **Critical Observer and Analyzer** - Ability to observe, understand and analyse geographical phenomena critically.
- **Attitude of Investigation** - Ability to ask relevant questions relating to the geographical issues and problems so that the problem area may be developed properly.
- **Efficient Planner-**Capable of formulating proper regional plans on the basis of resource inventory to solve the problem in question with appropriate planning, implementation and regular monitoring.
- **Team activity-** Capable of working efficiently in diverse teams in classroom as well as field-based situations.
- **Trained professional** – Ability to deal with problems related with changing climatic scenario as well as hazard and disaster management as a skilled professional.
- **Expert Field investigator-** Capable of conducting the Field work, the key activity of Geography by collecting proper primary data to understand and resolve the actual problem for the overall development of the area.
- **Digitally efficient** – Capable of using computers for GIS and GNSS studies as well as developing ability to utilize appropriate numerical and statistical methods related to Geography.

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- **Ethical awareness** - Development of demonstrating ability to think and analyze rationally with modern and scientific outlook and identify ethical issues to avoid unethical practices like falsification, committing plagiarism etc. Developing ability to adopt unbiased objectives and following truthful activities in all geographical spheres.
  - **Lifelong learners-** Capable of self- paced and self- directed learning for personal development as well as to improve skill and knowledge leading to reskilling in all spheres of geography.
  - **National and International perspective** – The graduates should prepare themselves during their most formative years for their appropriate role to contribute towards the national development by reducing regional disparities as well as to highlight our national priorities internationally pertaining to their field of interest and future proficiency.
  - **Nature is the Laboratory of Geography-** Ability to relate with the nature as well as with the environment appropriately for the essential issue of maintaining nature-human co-existence following the measures of Sustainable development oriented towards nurturing the balance of ecology and biosphere.
  - **Maintenance of sustainability-** Ability to apply the measures of sustainability in all spheres of life with genuine dedication.

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## **PROGRAM LEARNING OUTCOMES (POs) IN GEOGRAPHY (MAJOR) (NEP)**

The graduate students with the Degree of B.A/B.Sc in Geography should be able to:-

- Acquiring a structured understanding of the academic field of Geography.
- Linkages with related disciplines and various types of related professional fields.
- Application of geographical concepts in most recent and emerging developments.
- Demonstrate the systematic geographical knowledge towards current problems along with their solutions.
- Specific skills in Map making to analyze various problems on the space.
- Ability to evaluate critically the spatial aspects in all levels on different time scales.
- Career oriented skill development.
- Application of acquired knowledge in daily life focusing the changing scenario.
- Communication skill towards utilizing acquired knowledge both theoretically and practically.
- Developing analytical skill to evaluate geographical problems.
- Appropriate skill in the proper application of most recent geographical research tools.
- Pertinent skill in the identification and explanation of physico- cultural characteristics and processes.
- Understanding man-environment and nature-society interactions along with global environmental challenges.
- Developing skills in the analysis of geographical information through geo-spatial technologies.
- Responding the global and national challenges.
- Utilization of Field experience-based knowledge towards recent geographical problems with pragmatic solutions.

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**Programme Outcomes (POs) in Geography (Major):**

**PO 1:** Basic concept

**PO 2:** Linkage with other disciplines

**PO 3:** Application of geographical concepts

**PO 4:** Problem identification and solution making approach

**PO 5:** Map making skill

**PO 6:** Critical Evaluation

**PO 7:** Skill Development

**PO 8:** Applied dimension

**PO 9:** Communication skills

**PO 10:** Analytical Skill

**PO 11:** Use of research tools

**PO 12:** Identification of geographical characteristic and processes

**PO 13:** Understanding man-environment relation

**PO 14:** Application of geo-spatial technologies

**PO 15:** Response to challenges

**PO 16:** Field based knowledge

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**Course Outcomes (COs)**

**GEOG-M-T-1**

**GEOTECTONICS AND**

**GEOMORPHOLOGY**

**(Credits: 06)**

**Course Learning Outcome (CLOs):**

The students will acquire knowledge about-

- understand fundamental knowledge in Geotectonics and Geomorphology
- obtain adequate knowledge on the internal structure, tectonic and structural evolution of earth, Concept of Isostasy and earth's movements
- acquire comprehensive knowledge of continental drift, sea floor spreading and plate tectonics Theories
- understand the dynamic nature of the earth surface processes, landforms and their evolution

**Course Outcomes (COs)**

**GEOG-MI-T-1**

**PHYSICAL GEOGRAPHY**

**(Credits: 04)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- understand fundamental knowledge in Physical Geography
- obtain knowledge on the earth's interior, theories of continental drift and plate tectonics
- understand fundamental knowledge of the earth surface processes, landforms and their evolution
- acquire basic knowledge of atmosphere
- obtain basic ideas of hydrological cycle, soil and biome

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**Course Outcomes (COs)**

**Skill Enhancement Course (SEC)**

**PAPER: I (Practical)**

**CODE: GEOG-SEC-P-1**

**COURSE TITLE: BASICS OF COMPUTER AND COMPUTER APPLICATIONS**

**(Credits: 03)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- gain knowledge of computer basics
- develop their ability and skills in data management, data computation, data analysis and Cartographic presentation
- acquire internet surfing skills and enhance their ability to gain knowledge from the digital world

**Course Outcomes (COs)**

**GEOG-M-T-2**

**POPULATION AND SETTLEMENT GEOGRAPHY**

**(Credits: 06)**

**Course Learning Outcome (CLOs)**

After the completion of course, the learners will have ability to:

- Acquire clear knowledge on fundamental concepts of Population and Settlement Geography.
  - Familiarize with the development of Population and Settlement Geography.
  - Understand population dynamics, nature of population growth and migration
  - Acquire knowledge of population policies adopted in India and Sweden
  - Understand the nature and morphology of rural and urban settlements
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**Course Outcomes (COs)**  
**GEOG-MI-T-2**  
**PHYSICAL GEOGRAPHY**  
**(Credits: 04)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- understand fundamental knowledge in Physical Geography
- obtain knowledge on the earth's interior, theories of continental drift and plate tectonics
- understand fundamental knowledge of the earth surface processes, landforms and their evolution
- acquire basic knowledge of atmosphere
- obtain basic ideas of hydrological cycle, soil and biome

**Course Outcomes (COs)**  
**Skill Enhancement Course (SEC)**  
**PAPER: II (Practical)**  
**CODE: GEOG-SEC-P-2**  
**COURSE TITLE: FIELD WORK**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- acquire knowledge, skills and expertise to identify geographical issues
- achieve skills and expertise to use various survey techniques and instruments
- expertise in field-based data collection, analysis and presentation
- prepare field report
- build capacity to interact with people of diverse culture

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**Course Outcomes (COs)**

**GEOG-M-T-3  
FUNDAMENTALS OF REMOTE SENSING, GIS AND GNSS**

**(Credits: 06)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- Understand fundamental concepts of remote sensing and GIS
- Acquire basic knowledge about GPS and GNSS
- Understand the principles of image interpretation
- Familiar about the applications of remote sensing and GIS

**Course Outcomes (COs)**

**GEOG-MI-T-3  
HUMAN GEOGRAPHY**

**(Credits: 04)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- understand the key themes of Human Geography
- acquire knowledge of population in India with spatio-temporal context
- understand the changing nature of population dynamics in relation to economic growth, social Development and cultural change
- build concrete ideas about human migration and different economic sectors
- gain knowledge about the nature of rural and urban settlements
- acquire knowledge about ethnic identity of major ethnic groups in India
- learn to measure the progress of a country in terms of economic and social development



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**Course Outcomes (COs)**

**Skill Enhancement Course (SEC)**

**PAPER: III (Practical)**

**CODE: GEOG-SEC-P-3**

**COURSE TITLE: APPLICATIONS OF REMOTE SENSING AND GIS  
(Credits: 03)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- Develop expertise in digital image processing and image interpretation
- Develop skills in digitization, dereferencing and preparation of annotated thematic maps
- Acquire skills to solve geographical questions using remote sensing and GIS

**Course Outcomes (COs)**

**GEOG-M-T-4**

**CLIMATOLOGY, SOIL AND BIOGEOGRAPHY**

**(Credits: 06)**

**Course Learning Outcomes:**

After the completion of course, the learners will have ability to:

- Understand fundamental knowledge in Climatology, Soil and Biogeography
- Obtain adequate knowledge on the temperature distribution, heat budget, air mass, monsoon, climatic classification
- Acquire comprehensive knowledge of soil profile, properties, soil classification
- Understand the ecosystem, biome and biodiversity

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**Course Outcomes (COs)**  
**GEOG-M-T-5**  
**CARTOGRAPHIC TECHNIQUES AND SURVEYING**  
**(Credits: 06)**

**Course Learning Outcomes:**

After the completion of course, the learners will have ability to:

- Acquire practical knowledge and skills in Cartography and Surveying
- Improve skills in drawing scales and representation of data on maps
- Prepare cartograms and to interpret appropriately
- Develop expertise in traverse surveying and determination of height of objects

**Course Outcomes (COs)**  
**GEOG-MI-T-3**  
**HUMAN GEOGRAPHY**  
**(Credits: 04)**

**Course Learning Outcome (CLOs):**

After the completion of course, the learners will have ability to:

- understand the key themes of Human Geography
- acquire knowledge of population in India with spatio-temporal context
- understand the changing nature of population dynamics in relation to economic growth, social Development and cultural change
- build concrete ideas about human migration and different economic sectors
- gain knowledge about the nature of rural and urban settlements
- acquire knowledge about ethnic identity of major ethnic groups in India
- learn to measure the progress of a country in terms of economic and social development