

P.N.DAS COLLEGE

Department of Geography

LEARNING OUTCOME OF GEOGRAPHY:

Geography is a growing subject which takes into it many multidisciplinary subjects. After completion of Bachelor of Science or Arts in Geography, Masters may be opted. Nowadays, knowledge in Remote Sensing and GIS application is very imperative not only for Geography but also for other disciplines like Engineering, Hydrology, Medical, History, Tourism industry etc. With special training in surveying, jobs in map making may be opted. Environmental Consultant is also very aspiring career now which altogether opens a application horizon of the subject. Administrative jobs, teaching posts in school, colleges and universities are also very lucrative and open for all. Urban and regional planner having knowledge of tourism, landscape architecture, aesthetics is very demanding now. Variety computer courses like Java, C++, Python, data analysis may put the aspirant in a better position in prospect of getting employment.

Career Opportunities in Geography

Cartographer, Surveyor, Drafter, Government Employee, Urban and Regional Planner, GIS Specialist, Climatologist, Meteorologist, Transportation manager, Environmental Manager, Researcher, Graduate and Post Graduate School Teacher, Demographers.

How to Pursue a Career in Geography

Path 1

- Class XII with Humanities (Geography as one of the subject) Pursue B.A.(H) Geography for 3 years. Pursue Masters in Geography for 2 years in India or Abroad. Pursue M.Phil in Geography for 2 Years and/or Ph.D in Geography for 3-4 years.

Path 2

- Class XII with Science Pursue B.Sc Geography /B.Tech in any related field for 3 years. Pursue Post Graduation in Geography (M.Sc/ M.Tech) for 2 years.

Path 3

- Class XII with any Stream (Geography as one of the Subject). Pursue BA/B.Sc. in Geography for 3 years. Pursue Post Graduate Diploma in Geography or any other related field.

- Graduates in Geography are highly valued in the government sector. One can appear for UPSC examination after completing graduation for a career in government sector. A lot of jobs are available for post graduates as well.

- For Lecturership in Geography, National Educational Test (NET), SET or Ph.D. is mandatory.


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Career Path with GIS

There are many opportunities open for a GIS and Remote sensing graduate. A person can join both the Government and private sectors. A person can become a

Remote Sensing Tech Lead.

Project Fellow/Project Assistant,

Assistant Professor.

Technical Associate, Regional Manager.

GIS Executive.

Research Associate.

Remote Sensing & GIS Software Analyst.

Remote Sensing & GIS Technical Program Manager.

Remote Sensing / GIS specialist.

You can even join the Government sectors like –

Central Ground Water Board.

Defense Terrain Research Laboratory.

All India Soil and Land Use Survey.

Atomic Mineral Division; Geological Survey of India,

National Bureau of Soil Survey and Land use planning Town and Country Planning,

Remote Sensing Laboratories of various Universities Companies engaged in GIS and its application studies.

Public Sector Organisations

- Indian Space Research Organization
- National Remote Sensing Center
- National Spatial Data Infrastructure
- Indian Institute of Remote Sensing
- Forest Survey of India
- Geological Survey of India



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- Survey of India
- Department of Science and Technology
- Ministry of Defence
- Ministry of Environment
- National Informatics Centre
- North Eastern Space Applications Center
- Indian Agricultural Research Institute
- Agricultural Department and Irrigation Department
- Meteorological Department
- Mining, Soil Conservation, Land Degradation, and Ground Water Management
- Natural Resource Management
- Indian Council of Agriculture Research
- Space Application Centers and Aviation
- Urban Development Authorities and Municipalities
- Watershed and Wetland Management

Required Education and Skills in GIS and Remote Sensing

Required Education

Educational qualification matters a lot. Any graduate preferably with Bachelor's degree in geography or environmental science with has many chances in getting better job opportunities in the job market. Masters in GIS and Remote sensing in a specific field will get appointed as a GIS/remote sensing specialist. Few colleges provide Post Graduation Diploma (P.G. DIPLOMA) in GIS and Remote Sensing which is equivalent to the bachelor's degree.

Required Skills

Major Skills required- Most of the job roles include technology and statistics to analyze the data. There are some major skills which are important to get placed in any role related to GIS and Remote sensing. Programming languages like R, MATLAB, Python, IDL, C++, FORTRAN are important programming languages in GIS systems. The entire systems run on these programs so these are important to learn. ArcGIS, MATLAB, Python, C++, R, ERDAS, Ecognition, ENVI, PostgreSQL/PostGIS, QGIS, Photoshop, GRASS, PCI Geomatica, IDRISI, MapInfo, FORTRAN are the basic and additional skills required to make a career in GIS and Remote Sensing Field.



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