

B.Sc (Hons.) Geology

Program Outcomes:

Bachelor's degree in Geology with Honours will be awarded to students who will have

1. Systematic understanding of key aspects of the subject, including acquisition of coherent and detailed knowledge
2. Ability to employ the established techniques of analysis in the discipline in order to resolve problems
3. Devise arguments and ideas to solve problems, which are in the forefront of the subject
4. Describe and comment on recent topics of research and advancement in the subject
5. Apply the methods and techniques to extend their knowledge to initiate and carry out projects, to address questions to achieve a solution
6. Communicate information, ideas, problems and solutions to both professionals and nonprofessionals.

Program Specific Outcomes (PSOs):

Geology is everywhere in our daily lives and finds its potential application in various fundamental spheres of life including exploration and management of mineral and energy resources, ground water and surface water, land use and environment hazards viz. floods, landslides and seismicity, volcanoes and tsunamis, environmental protection by monitoring waste disposal sites including nuclear waste etc. Understanding our Earth has never been more important. Because Earth science is so intertwined with our daily lives, our discipline evolves as the years go by; responding to the needs of what society compels us to understand.

Being a fast economically developing country with increasing population, the nation is faced with innumerable problems related to depleting natural resources, acute shortage of energy, natural disasters and many types of environmental hazards. Two-third of Indian subcontinent lies in the seismic zones of moderate to severe intensity. Solution and management of many of these problems can be met by understanding the earth more intensively and extensively, which could be achieved by pursuing the course in Geology. It is an exciting course related to natural science and has both fundamental as well as applied utility especially in the large ticket infrastructure projects. The course aims at inculcation of values and knowledge within students that will make them wellbeing responsible citizen and encourage in critical thinking with skills of employability.

PSO1. To understand the nature and origin of various component of earth system including planetary objects, its origin, its components and operative processes in past and present

PSO2. To acquire theoretical framework for understanding the nature of geological material including rocks, minerals and fossils

PSO3. To integrate observations and theory for describing natural geological process in past and present as well to understand the time scales of geological processes

PSO4. To apply the knowledge of the material and processes in mineral and energy exploration, oceanography, soil and water resource

PSO5. To apply the knowledge gained through field work for greater understanding of earth and related phenomena.