

Course contents

Geology involves a mix of practical and written work, in addition to a typical timetabled lecture programme of 10 to 12 hours a week. Fieldwork and Geological Mapping within India is a crucial part of B.Sc. programme. End of semester exams for UG is common.

B.Sc. Geology

B.Sc. Geology is a three year programme being offered under Choice Based Credit System. It immerses the learners in Geological sciences and is enriched by all the essential basic elements of Geology.

During Year I, students will gain a firm grasp of the ideas on the origin of the Earth, development of various landforms due to earth's internal and external processes, movement of continental plates and the resultant natural disasters and their distribution in the world and techniques of dating of rocks. The course also allows the learner to understand the evolution of various life forms during geologic past through the identification of morphological characters of fossils.

Year 2 programme enables the students to understand the systems of crystallization of minerals, their optical and chemical properties, geology of stratified rocks and their economic importance in relation to fossil fuels. Study of various structural forms of rocks, their types, causes of formation and their field expression is a unique and very important aspect of this course.

Year 3 is filled with significant components. Student are extensively taught with various rock types as Igneous, Sedimentary and Metamorphic rocks, their mineralogy and mode of origin. Courses like Field Geology and Regional Geology are high lights of this course which prepare the students for a career of Professional Geologist. Types and distribution of various metallic and nonmetallic mineral deposits, their modes of origin and their role in national economy of our country is a prime area of Year 3 programme. Focus is also given to applied aspects of geology like study on the application of geology in engineering projects i.e. construction of dams, tunnels, airports, etc. Similarly, a separate course is offered on how the principles and techniques of remote sensing and Geographical Information System can be incorporated into the concepts of conventional geology. Besides theory, the

course is also augmented with adequate practical components covering all the core subjects.

Geology, being a field science, fieldwork is one of the most beneficial and enjoyable aspects of this degree. The field work locations spread wide apart across the state. The duration of the field work during all the three years is around 20 days. It would be a great and memorable experience of learning Geology under the sky.