

University of Mumbai

**Syllabus for the B.Sc
Subject: Geology**

(Credit Based Semester and Grading System with
effect from the academic year 2016–2017)

The Rational:

Why study geology?

Are you interested in understanding how our planet earth formed? How the mountains , valleys, rivers and seas formed and why they are where they are seen today? And how earth's internal energy is responsible for shaping the earth's surface? Want to study global change, not just during historical time, but over the whole lifetime of the Earth, which is 4.65 billion years? And also find out how the age of our planet was arrived at? ? Are you interested in the origin and development of our landscape and in how plate tectonics control the surface features of the Earth such as earthquakes and volcanoes? Do you mull over how we can manage our natural resources which are getting meager by the day, more sustainably?

A Geologist is the Sherlock Holmes or a forensic detective, who tries to unravel the past and the future of the Earth through analysis and understanding of the earth's internal, surface and external processes observed today.

Learners who enjoy working outdoors, and are enthusiastic about trekking through hills and valley, fascinated by rocks, mineral and soils, have a good scientific background, and are interested in understanding how the world around them works will find this major branch of the earth sciences a rewarding area of study.

What will I study?

Geology is a field-based, multi-disciplinary science that integrates the principles of chemistry, physics, biology and mathematics in the study of Earth processes and history. Geologists and geoscientists study a broad range of topics including plate tectonics, glaciers, floods, groundwater flow – even dinosaur evolution. Geologists are increasingly in demand to study and evaluate geologic hazards and natural resources such as oil and gas.

Why should I choose Geology at Mumbai University?

Our three year (six semester) geology degree course covers all major aspects of this discipline; it is ideal if you want to keep your options open or are presently uncertain about your future career plans. All our undergraduate (BSc) degrees provide apt opportunities for postgraduate studies and also general graduate employment. You can also extend your studies with our two-year M.Sc, which allows you to focus on a dissertation (research project) and take a number of specialist postgraduate geology courses. The University and its affiliated colleges also has a superb library.

The Geology course is affiliated to, and recognized by the University of Mumbai. You will enjoy ample opportunity to put what you have learned in to practice on field trips.