



**DEPARTMENT OF GEOLOGY (est.1919)
ST.XAVIER'S COLLEGE - MUMBAI**



**Post Graduate course in Geology at St. Xavier's College, Mumbai
(2023-24)**

Eligibility:

As you have graduated with one of your major subjects as Geology, you are eligible to continue your postgraduate studies in geology.

The eligibility for enrolling in the two year post graduate course in geology, leading to a MSc degree in geology is:

- A graduate degree from any university recognized by the UGC, with at least fifty percent of the studied courses by are in the domain of geology.

Admission protocols:

The college follows the admission protocols as mandated by the State of Maharashtra and University of Mumbai for affiliated colleges with a 'minority' status.

Why continue your studies in geology?

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. The tools you use range from the humble hammer and chisel to highly specialized instruments used for getting subsurface data and also data from earth orbiting satellites. Today, the miniaturisation of sensors has allowed the field as well as lab geologist to acquire data in a way that was unheard of in the past. Drone mounted imaging sensors are changing the way a geologist examines the terrain.



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.



Are you interested in a deeper understanding how our planet earth formed? How the mountains, valleys, rivers and seas formed and why are they 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? Then, you are on the correct career path – Geology@St. Xavier's College offers you an opportunity to explore all the above and more...

Why should I choose Geology at Xavier's?

Our two-year (four semesters) MSc geology degree course covers all major aspects of this discipline and also mandates a two-week field training project in the second semester. We at St. Xavier's, offer specialized modules in ground water hydrology, ore geology, mineral optics, paleontology and field geology. The department on its part offers a course on advanced remote sensing and image processing and a professional grade course on gemmology – involving aspects of gem testing and identification.

A research-based dissertation project in semester three and four, in your choice of super – specialization, offers a unique opportunity of working on a research project which prepares you for a choice of

professional careers and keeps your options open for further studies and a doctoral degree (PhD). Our department is a recognized research centre in Geology by the University of Mumbai. The College also has a superb library and an excellent placement cell.

To know more about our course, and the course contents, visit - <https://xaviers.ac/academics/syllabi>



We have a good track record of placements. Our students have been selected not just in government agencies like GSI and ONGC, but many have clinched coveted jobs in the oil industry service and exploration sector like Schlumberger, Baker Hughes, OFI. The resources sustainability sector which addresses issues of site suitability and contaminated site management has selected our students for their field specialist roles. ERM, ArcADIS, AECOM, Jacobs - are among the many organisations who have employed our graduates. The department has humbly contributed to the national efforts in capacity development in the Geospatial Sciences, for which we have also been conferred the India Geospatial Leadership Award.

For a glimpse of fieldwork, please scan the QR code or visit: <https://youtu.be/Fpd84rADuC8>

