



Department of Geology



Master of Science in Geology (Self Finance Program)

Department of Geology is one of the oldest Departments in the western region of Maharashtra which has a legacy of hundred and seven years.

Aims and Objectives

Master in Geology (M.Sc.) program is specially designed to provide deep knowledge and develop necessary skills to acquire good jobs in different disciplines. After completion of this two years Choice Based Credit System program, many different avenues are

open to the students; such as Research in Earth Sciences, Jobs in various Industries such as Petroleum, Geotechnical, GIS and Remote Sensing, Hydrogeology, Gemmology, Exploration, Mining and in Government sector.

Facilities

Museum: The Geology Department of Fergusson College has an excellent and unique Museum known as Prof K.V. Kelkar Museum which was set up in 1962. The Museum is a vast treasure of geological specimens donated by the students of the department as well as those collected by the teachers and students during their field trips. The Museum is one of the highlights of FergussonCollege.



P.G. Library: The Department has a dedicated in-house library with rich collection of books which includes latest reference books, scientific journals and study material etc.

Computers with Internet Facility: Students use this facility to acquire latest information to update their knowledge, explore future avenues of higher education and global prospects in career opportunities.

Research Laboratories:

The department hosts the following well equipped Research Laboratories

- Petrology
- Sedimentology and Palaeontology
- Gemmology
- Geochemistry
- Hydrogeology
- Remote Sensing, G.I.S.

Course structure & Credit Distribution

Semester I (All courses compulsory)

GL 101: Mineralogy (4 Credits)

GL 102: Principles of Stratigraphy and Paleontology (4 Credits)

GL 103: Physics and Chemistry of the Earth (4 Credits)

GL 104: Sedimentology (4 Credits)

GL 105: Practicals related to courses GL 101 & GL 102 (4 Credits)

GL 106: Practicals related to courses GL 103 & GL 104 (4 Credits)

GL 107: Fieldwork component (1 credit)

Semester II (All courses compulsory)

GL 201: Igneous Petrology (4 Credits)

GL 202: Metamorphic Petrology (4 Credits)

GL203: Structural Geology and Tectonics (4 Credits)

GL204: Geomorphology and Remote Sensing in Geology (4 Credits)

GL205: Practicals related to courses GL 201 & GL 202 (4 Credits)

GL206: Practicals related to courses GL 203 & GL 204 (4 Credits)

GL 207: Fieldwork component (1 credit)

Semester III

GL 301: Indian Stratigraphy (4 Credits) (Compulsory)

GL 302: Exploration Methods (4 Credits)

GL 303: Petroleum Geology (4 Credits)

GL 304: Engineering Geology and Geotechniques (4 Credits)

GL 305: Practicals (4 Credits) (Compulsory)

GL 306: Practicals (4 Credits) (Compulsory)

GL 307: Fieldwork component (1 credit)

GL 308: Application of GIS& Statistics in Geology (2 Credits)

GL 309: Marine Geology and Oceanography (4 Credits)

GL 310: Natural Resource Management (2 Credits)

GL311: Oil field Services (2 Credits)

Semester IV

GL 401: Economic Geology (4 Credits) (Compulsory)

GL 402: Mining Geology (2 Credits)

GL 403: Environmental Geology (4 Credits)

GL 404: Hydrogeology, Watershed Development and Management (4 Credits)

GL 405: Practicals (4 Credits) (Compulsory)

GL 406: Practicals (4 Credits) (Compulsory)

GL 407: Fieldwork component (1 credit)

GL 408: Dissertation (4 Credits)

GL-409: Gemmology (2 Credits)

GL 410: Applied Micropalaeontology (2 Credits)

GL 411: Sequence Stratigraphy(2 Credits)

Shlumberger, Fugro, Tom Tom, Tata Petrodyne, Wetherford, Bentley Solutions; by NGOs like ACWADAM, and IOFC; by research organization such as ARI Pune, NIO Goa, IISER and also in ONGC, GSI, GSDA, and DGM.

The students who thought out of the box have started their own consultancy business and today they are proud entrepreneurs.

Opportunities

The general geology course opens the gates to many career avenues.



We proudly tell that our past students are taken up by various renowned companies such as Halliburton,

Contacts

Dr. R. N. Mache

Head, Dept of Geology

Ph: 020-3086 6075

Dr. Mrs. Tanuuja Marathe

Coordinator,

M.Sc. Geology (Self Finance Program)

Ph: 020-3086 6082

Office: 020-3086 6080