



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 ten 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 Fergusson College.



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)

GLY4101 Planetary Science and Geodynamics
Core Course 4 Credits

GLY4102 Principles of Stratigraphy and Palaeontology Core 4

GLY 4103 Mineralogy Core 4

GLY4104 Geomorphology and Remote Sensing in Geology Core 4

GLY4105 Practicals Core 4
GLY4106 Practicals Core 4
GLY4107 Fieldwork component Core 1

Semester II (All courses compulsory)

GLY4201 Igneous Petrology Core 4
GLY4202 Metamorphic Petrology Core 4
GLY4203 Structural Geology Core 4
GLY4204 Sedimentology Core 4
GLY4205 Practicals Core 4
GLY4206 Practicals Core 4
GLY4207 Fieldwork component Core 1

Semester III

GLY5301 Indian Stratigraphy Core 4
GLY5302 Exploration Methods Elective 4
GLY5303 Petroleum Geology Elective 4
GLY5304 Marine Geology and Oceanography Elective 4
GLY5305 Practicals Core 4
GLY5306 Practicals Core 4
GLY5307 Fieldwork component Core 1
GLY5308 Applications of GIS in Geology Elective 2
GLY5309 Natural Resource Management Elective 2
GLY5310 Oil field Services Elective 2
GLY5311 Geostatistics and Computer Application in Geology Elective 2

Semester IV

GLY5401 Economic Geology Core 4
GLY5402 Hydrogeology, Watershed Development and Management Elective 4
GLY5403 Engineering Geology and Geotechniques Elective 4
GLY5404 Dissertation Elective 4

GLY5405 Practicals Core 4
GLY5406 Practicals Core 4
GLY5407 Fieldwork component Core 1
GLY5408 Mining Geology Elective 2
GLY5409 Gemmology Elective 2
GLY5410 Sequence Stratigraphy Elective 2
GLY5411 Micropalaeontology Elective 2

Opportunities

The Master in Geology course opens the gates to many career avenues.



We proudly report that our past students are taken up by various renowned companies such as Halliburton, Schlumberger, Fugro, Tom Tom, Cybertech, 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.

Contacts

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