

Name of Programme: M. Sc. Applied Geology

Course Code: GEO-609

Title of the Course: Geological Field Training (Practical)

No of Credits: 04

Effective from AY: 2023-24

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| Prerequisites for the course: | Degree of Bachelor of Science in Geology from any UGC recognized University or an equivalent examination. | |
| Objective: | The main objective of this course is to give students the hands on experience in the field to understand the lithology structure and their plates in Stratigraphy besides getting a thorough knowledge of field mapping. | |
| Content: | Visit to important mines/mineral deposits; Visit to Industry/Professional Organizations/National Institutes which may include short term in-house training at respective labs. The training program will be carried out under the supervision of teachers. Students are expected to learn the techniques and methodologies applied on site in the professional organizations and also to gain knowledge related to instrumentation. Students are expected to write a detailed report on their visit. There will be a viva-voce examination based on the field report. | 120 hours |
| Pedagogy: | Field Training. | |
| References/ Readings | <ol style="list-style-type: none">6. Deshpande, GG. and Pitale U. L. (2012). <i>Geology of Maharashtra</i> Second Edition. Geological Society of India.7. Dessai, A.G. (2018). <i>Geology and Mineral Resources of Goa</i>.8. Mehr S.S., (1991). <i>Geology of Gujarat</i>, Geological Society of India, 1991.9. Radharishnan B.P. and Vaidhyanadhan R., (1977). <i>Geology of Karnataka</i>, Geological Society of India.10. Raman, P.K. and Murty, V. N. (2012). Geological Society of India..11. Roy, A.B and Jakhar, S.R. (2012). <i>Geology of Rajasthan (North-West India-Precambrian to Recent)</i> Scientific Publishers,12. Sinha Roy. (1991). <i>Geology of Rajasthan</i>, Geological Society of India. | |
| Course outcomes | <ol style="list-style-type: none">1. The students will be able to identify the various rocks and their structures in the field.2. They will mine/oil site installations to understand their working.3. They will be able to prepare geological maps.4. The students will get to learn the recent techniques, instrumentation and methodologies applied in various institutes.5. They will learn to write a detailed technical report of the field area, mine, well site installations and lab visited. | |