

MGP 455: PETROLOGY (Lab, Hard Core)

Skills, employability and entrepreneurship: Applications of this subject is similar to MGP 404 in the sense that this subject is essentially on petrology. Students can enhance their skills to work in quarrying, mining, rock polishing, cement, silica/glass, sand mining, brick, ceramic, pottery and refractory industries. They can start their entrepreneurship.

1. Identification of igneous, sedimentary and metamorphic rocks (hand specimen).
2. Study of mega structures, textures and mineralogy of igneous, sedimentary and metamorphic rocks.
3. Microscopic study of igneous, sedimentary and metamorphic rocks.
4. Interactive sessions of teaching to enhance students-teacher interactions through hands-on demonstrations and exercises in the recent advancement of the subject related to the curriculum.

MGP 456 – PALAEONTOLOGY, GEO-STATISTICS AND COMPUTER APPLICATIONS (Lab, Hard Core)

Skills, employability and entrepreneurship: These subjects are good for students to learn not only to know the large-scale earth's features which favour water and mineral accumulations. Similarly, students who pay attention to this subject can become a structural geologist and paleontologists. They will be exposed to start their own entrepreneurship related to geo-hazards mitigation and fossil collection. These are advanced as well applied subjects in terms of studying the entire water cycle by using multi-disciplinary data with the help of computer and allied systems by making use of huge hydro-geological data collected from insitu monitoring artificial satellites launched to the space and aircrafts. There is good scope of this subject in terms of employability in water resources and exploration in different government organizations and MNCs. Students can start their own entrepreneurship.



PALAEONTOLOGY

1. Invertebrate Fossils: Identification and descriptive morphology of Coelenterata
2. Brachiopoda Mollusca, Arthropoda and Echinodermata.
3. Plant Fossils: Identification and descriptive morphology of plant fossils.
4. Microfossils: Descriptive morphology, classification and identification of microfossils.
5. Chronological ordering of invertebrate fossils, plant fossils and microfossils.
6. Evolutionary trends in fossils.
7. Reconstruction and identification of fossils aided by morphological parts.
8. Identification of microfossils and shells in the sediment samples collected by students.
9. Interactive sessions of teaching to enhance students-teacher interactions through hands-on demonstrations and exercises in the recent advancement of the subject related to the curriculum.

GEO-STATISTICS AND COMPUTER APPLICATIONS (Lab)

1. Mean, median and mode.
2. Quartiles, deciles and percentages.
3. Correlation co-efficient, regression analysis and skewness.
4. Measures of dispersion and other basic statistical parameters.