

POS, PSO & COS
DEPARTMENT OF GEOLOGY
KARANJIA AUTONOMOUS COLLEGE KARANJIA

Program Outcomes (POs) for B.Sc. Geology Program

- After completion of Geology program students will be able to get exposed to strong theoretical and practical background in fundamental concepts.
- To get insights of multiple important technical areas of Geology. To apply contextual knowledge and modern tools of Geological research for solving problems such as mining, environmental, space, etc.
- To make them able to express ideas persuasively in written and oral form to develop their leadership qualities.
- To demonstrate professional and ethical attitude with enormous responsibility to serve the society.

Program Specific Outcomes (PSOs)

- Comprehending fundamental concepts in Geology to meet the emerging trends.
- Can identify different rocks, minerals, fossil along with can search for hydrocarbon such as oil and gas.
- Procuring hands-on real-time experience in industries.

Course Outcomes (Cos)

- The said courses will make the students to understand about crystal chemistry and the structure of earth. They shall have the knowledge of the mechanism of formation of continents, sea and mountain ranges.
- The above knowledge will enable the students to study the history of deformation, deformational aspects and their relevance in rocks to quantify generation of force pictures.
- The students will be equipped with the knowledge of identifying different crystals and minerals with their possible varieties and their occurrence in different types of rocks as a combining unit.
- In this unit, the students are introduced with the concepts of statistics and satellite data. While statistics is a part and parcel of every science subject, remote sensing has become very helpful for resolving so many geological problems.
- The students shall have the potential to know the mechanism of formation of different types of igneous rocks. They will be able to classify the igneous rocks basing on various parameters.
- The students shall have the potential to know the mechanism of formation of different types of sedimentary and metamorphic rocks. They will be able to classify the said rocks basing on various parameters.

- In this unit, the students are introduced with the concepts of statistics and use of computers. Statistics and computers are part and parcel of every science subject and it helps solving so many geological problems,
- This knowledge will enable the students to find out the age of various strata and also to interpret the palae environment.
- This knowledge will enable the students to find out the age, litho logical constitution and economic importance of various strata.
- After the study, the student will have the knowledge of exploring them by sampling and geophysical methods.
- After the study, the student will have the knowledge of various uses of minerals, exploiting them by many means such as beneficiation etc.
- This knowledge will enable the students to use groundwater properly and will have the knowledge to install various types of wells. They shall have the knowledge to utilize the geological skills in the construction of various engineering structures.
- The students can have the knowledge of various environmental laws related to mining of minerals. This knowledge will enable then to deal with issues relating to environmental pollution.