

INTERDISCIPLINARY APPROACH FOR STUDYING GEOLOGICAL PROBLEMS

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Good imagination and the ability to visualize things in three dimensions are the prerequisite to become a skilled professional geologist to understand geological problems, as geology is an intuitive science. To acquire these qualities, one should have to have some adequate knowledge about interdisciplinary sciences such as physics, chemistry, biology, mathematics, geography, environmental science, soil science and so on. Geology is an earth science as it deals with the earth- a wonderful planet of our solar system.

The four components - the atmosphere, the hydrosphere, the biosphere and the superficial layer of lithosphere-under which valuable mineral resources are hidden, constitute the earth. These components altogether form a vast ecosphere. Geological problems such as natural hazards like earthquakes, volcanic eruptions, landslides, erosions, floods, tornadoes, cyclones, storm surges, droughts, climate changes are due to the interaction of these components. And one should not be able to cope with the geological problems unless one is able to understand this interaction phenomenon or the function of ecosphere, which also again requires knowledge about interdisciplinary sciences.

Mitigation of hazardous effects, exploration and exploitation of hidden mineral resources, conservation of natural resources, environmental protection, planning and wise using of landscapes for urbanization, industrialization, forestation, agriculture, roads and highways and, as a whole, maintaining a healthy environmental ecosystem for sustainable development need teamwork from scientists of relevant sciences of different discipline. So, for proper understanding of geology and geological problems interdisciplinary approach is therefore a must.