

B. Sc. Semester I
GEOLOGY - THEORY and PRACTICALS
Course-wise detail syllabus

GEE 113

Earth as a planet, Mineralogy

Unit	Course details
Unit –1	EARTH AS A PLANET: General principles of geology as a science. Branches & scope of subject. Earth as a member of solar system – shape, size, mass and density of the earth – its movements. Origin of the earth – review of the different theories. Origin of the universe and evolution of the solar system.
Unit –2	MINERALOGY: Chemical bonding and compound formation. Definition, Classifications and Physical properties of minerals.

Reference Books:

- 1) Introduction to Physical Geology, A. K. Datta, Kalyani Publisher, New Delhi.
- 2) A Text Book of Geology, P. K. Mukerjee, World press.
- 3) Engineering and General Geology, Parbin Singh (1994), S.K. Kataria and Sons, Delhi.
- 4) Rutley's Elements of Mineralogy, H. H. Read, CBS publishers.

GEL 113 P

Mineralogy Laboratory

Course details
Study of the physical properties of the minerals – Megascopic identification of the following common rock forming minerals: Quartz, amethyst, chalcedony, agate, jasper, orthoclase, microcline, plagioclase, muscovite, biotite, garnet, hornblende, augite, tourmaline, olivine, chlorite.