



Code	Subject Title	Cr. Hrs	Semester
ZOOL-403	Palaeontology	2	VII
Year	Discipline		
4	Zoology		

Course Contents

Introduction; Earth, Shells of earth (Atmosphere, hydrosphere, biosphere and lithosphere); Rock, types of rocks (Igneous rocks, sedimentary rocks and metamorphic rocks); Fossil, types and uses of fossils, Nature of fossils, Processes of fossilization (Study of process of dying and what processes occur to animals after their death, concepts of Fossilization); Geological time scale; Pre-Cambrian life, Post-Cambrian life (Paleozoic life, Mesozoic life, Cenozoic life); A brief history of the Siwaliks; Geochronometry (Uranium/Lead dating, radiocarbon dating, Fission track dating and palaeomagnetism); Evolutionary histories of camels, horses, elephants and man.

Recommended Books

- Brouwer, A., 1977. General Palaeontology, Oliver and Boyed, London.
- Michael Foote and Arnold I. Miller, 2007. Principles of Palaeontology (3rd Ed.) Freeman and Company.
- Michael, J.B. and David, A.T. Harper, 2009. Palaeobiology and the fossil record (3rd Ed.). Wiley Blackwell.
- J.Z. Young (7th edition). Life of vertebrates
- Dunbar C.O., 1969. Historical Geology, John Willey and Sons Inc. New York.
- Gilbert, Colbert, E.H., 1980. Evolution of vertebrates, John Willey and Sons Inc. New York.
- Moore, R.C. Lalicker, G.C., Fisher, A.G., Invertebrate Fossils.
- S.S. Ali, 1999. Palaeontology, Zoogeography and Wildlife Management.