Course Type	Course Code	Name of Course	L	Т	Р	Credit
DC	NGLC104	Paleontology Practical	0	0	2	1

Course Objective

The primary objective of the course is to introduce the students with different kinds of invertebrate fossils, their morphologic study and stratigraphic importance.

Learning Outcomes

Upon completion of the course, students will be able to:

- Identify several groups of invertebrate fossils
- Students will be accustomed with different morphologic characters
- They will learn to use fossils as biostratigraphic markers and to infer depositional environments.

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Morphological characters and identification of different brachiopod (Productus, Terebratula, Spirifer, Syringothyris, Strophomena, Rhynchonella), different pelecypod (Arca, Cyrena, Gryphaea, Cypraea, Pecten, Spondylus, Unio, Trigonia, Ostrea, Venus)	4	To be familiar with morphology, identification and stratigraphy of brachiopod and pelecypod
2	Morphological characters and identification of different gastropod (Turritella, Conus, Murex, Physa, Voluta) and cephalopods (Nautilus, Ceratite, Belemnite, Orthocerus, Acanthocerus, Ammonites)	4	To be familiar with morphology, identification and stratigraphy of gastropod and cephalopods
3	Morphological characters and identification of different Echinodermata (Micraster, Hemiaster, Stygmatopygus, Scutella, Echinoconus, Clypeaster, Echinocorys, Cidaris)	2	To be familiar with morphology, identification and stratigraphy of echinoids
4	Morphological characters and identification of different Cnidaria (Halysites, Syringopora, Isastrea, Favosites, Calceola, Montlivaltia, Zaphrentis)	1	To be familiar with morphology, identification and stratigraphy of corals
5	Morphological characters and identification of different Trilobites (Phacops, Calymene, Paradoxides, characters in cephalon)	1	To be familiar with morphology, identification and stratigraphy of trilobites
6	Morphological characters and identification of different Gondwana plant fossils (Glossopteris, Gangamopteris, Vertebraria, Schizoneura, Ptillophylum)	1	To be familiar with morphology, identification and stratigraphy of Gondwana flora
7	Practical examination	1	Evaluation of knowledge gathered

Text Books:

1. Dasgupta, A. (2005). An Introduction to Paleontology. World Press, Kolkata.

2. Roy, A. K. (2008). Fossils in Earth Sciences. Prentice-Hall of India Pvt. Ltd., New Delhi

Reference Books:

1. Practical handbooks as available in the laboratory.