Semester	JAN 2022
Open to semester	8,22
Course code	**ECS442/EC6283**
Course title	**Geological Field Training**
Credits	3 /3
Course Coordinator & participating faculty (if any)	Devapriya Chattopadhyay
Nature of Course	Field work
Pre-requisites	Earth and Planetary Materials, Sedimentology and Stratigraphy, Sequence Stratigraphy
Objectives (goals, type of students for whom useful, outcome etc)	This course introduces the advanced techniques of Geological field studies in a complex sedimentary basin. Outcomes: At the end of the course, a student would learn to construct detailed litholog, identify sedimentary structures and relate them to specific sedimentary environments, interpret the evolution of a basin in a sequence stratigraphic framework. This course would be ideal for students interested in understanding the rock records of the past.
Course contents (details of topics /sections with no. of lectures for each)	Introduction to field techniques to document sedimentary formations (including sedimentary texture, mineralogy, sedimentary structure, fossil content); Methods to develop a depositional model; Identify sequence boundaries in the field and interpreting sequence stratigraphic framework of a basin using local and regional geologic information.
Evaluation /assessment	End-Sem Examination-40% Mid-Sem Examination-10% Others-Performance in the field: 30% Assignments=20% %
Suggested readings (with full list of authors, publisher, year, edn etc.)	1. Depositional Sedimentary Environments by Hans-Erich Reineck, Indra Bir Singh. ISBN: 978-3-540-07377-2 2. Sedimentary Structures by John Collinson, Nigel Mountney, David Thompson. ISBN: 978-1903544198 3. A number of peer-reviewed articles