

Semester	JAN 2022
Open to semester	6,8
Course code	EC3253
Course title	Introduction to Field Techniques
Credits	3 /
Course Coordinator & participating faculty (if any)	Sudipta Sarkar*, Shreyas Managave
Nature of Course	Field work
Pre-requisites	<p>Note that students for the course are already intimated to participate in the field. Only those students are required to register.</p> <p>Pre-requisite courses Earth and Planetary Materials Sedimentology and Stratigraphy Structural Geology and Tectonics</p>
Objectives (goals, type of students for whom useful, outcome etc)	<p>Objectives: This course aims at developing ‘an eye’ for the field aspects of geoscience. The students will be introduced to geological field skills necessary for documenting, understanding and interpreting field observations. This is a MUST and exciting course for all the student intending major in Earth & Climate science or those with interest in seeing how the Earth works and establishing connection between lab and ground truth.</p> <p>Outcomes: This course offers an excellent opportunity to get familiarize with the ‘real-world geosciences’. After attending this course, the students will find it much easy to visualize what is being taught in many theory course offered by ECS. This will help reinforcing the classroom-based teaching. This course will impart skills necessary not only for carrying out actual filed-based studies but also for interpreting the results of field-based studies.</p>
Course contents (details of topics /sections with no. of	Field visits would be planned well in advance and students would be informed. Prior to field visit a

lectures for each)	<p>few classes explaining basics will be held. Main features of field would include:</p> <p>Identification of geomorphic features and their interpretations. Identification of minerals and rocks in the field. Structural features in the field and their orientations in space. Basics of field mapping. Geological field report writing.</p>
Evaluation /assessment	<p>End-Sem Examination-70%</p> <p>Mid-Sem Examination-30%</p> <p>Others-%</p>
Suggested readings (with full list of authors, publisher, year, edn etc.)	<p>The Field Guide to Geology by David Lambert and Diagram Group, 2nd edition, Checkmark Books</p> <p>Geological Field Techniques by Angela L. Coe (Ed), Wiley-Blackwell, 2010.</p>