

Name of Programme: M. Sc. Applied Geology

Course Code: GEO-506

Title of the Course: Geological Field Mapping (Theory)

No of Credits: 01

Effective from AY: 2022-23

Prerequisites for the course:	Degree of Bachelor of Science in Geology from any UGC recognized University or an equivalent examination.	
Objective:	The main objective of this course is to give students the hands on experience in the field to understand the lithology structure and their plates in Stratigraphy besides getting a thorough knowledge of field mapping.	
Content:	Theoretical knowledge and use of clinometer compass and brunton compass. Detailed Stratigraphy and representative locations of the field study area will be discussed, The students will be taught the techniques of geological mapping, field data collection: recording the attitude of beds, foliation, lineation, joints and their analysis. Use of GPS, DGPS, GNSS for spatial data collection.	15 hours
Pedagogy:	Lectures and familiarity with clinometer and brunton compass as well topographic maps.	
References/ Readings	<ol style="list-style-type: none">1. Mehr S.S., (1991) <i>Geology of Gujarat</i> Geological Society of India,1. Radharishnan B.P. and Vaidhyanadhan R., (1977). <i>Geology of Karnataka</i>, Geological Society of India.2. Radharishnan B.P. and Vaidhyanadhan R., (1977). <i>Geology of Karnataka</i>, Geological Society of India.3. Raman, P.K. and Murty, V. N. (2012). Geological Society of India..4. Roy, A.B and Jakhar, S.R. (2012). <i>Geology of Rajasthan (North-West India-Precambrium to Recent)</i> Scientific Publishers,5. Sinha Roy. (1991). <i>Geology of Rajasthan</i>, Geological Society of India.	
Course outcomes	<ol style="list-style-type: none">1. The students will be familiar with common field techniques.2. Learn to use the clinometer and brunton compass.3. To use geological maps	