Name of Programme: M. Sc. Applied Geology
Course Code: GEO-503
Title of the Course: Practical of Structural Geology and Geotectonics
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:	This course deals with solving geologic maps, structural problems and description of structural data in rocks.	
Content:	**Module 1:** Completion of outcrops. **Module 2:** Preparation and interpretation of geological maps and sections, Structural problems concerning economic deposits . **Module 3:** Recording and plotting of the field data, stereographic projections. Petro-fabric analysis and study of deformed structures in hand specimens. **Module 4:** Strain estimation from the data already collected from the field. **Module 5:** Study and interpretation of structures from photographs and satellite imagery.	30 Hours
Pedagogy:	Demonstrations /Laboratory observations / Plotting and Interpretations	
References/Readings	1. Davis, G.H. and Reynolds, S.J. (1996). *Structural Geology of rocks and regions*, John Wiley and Sons. 2. Marshak, S., and Mitra, G. (1988). *Basic methods of Structural geology*. Prentice Hall. 3. Rowland, S.M., Duebendorfer, E. and Schiefelbein, I.M. (2007). *Structural analysis and synthesis: a laboratory course in structural geology*, Blackwell Pub.	
Course outcomes	1. The students will be familiar with the common ways to measure and represent data from structurally deformed rocks 2. Students will be able to solve structural maps and problems related to economic geology.	