

**Name of Programme:** M. Sc. Applied Geology

**Course Code:** GEO-622

**Title of the Course:** Practical of Mining Geology

**No of Credits:** 01

**Effective from AY:** 2023-24

<b>Prerequisites for the course</b>	Students should have undergone M.Sc. Semester I and II.	
<b>Objective</b>	To train students to prepare mining plans of both opencast and underground mines, to prepare bore logs as well as estimate ore reserves.	
<b>Content</b>	Exercises on reading of open cast and underground mine plans. Preparation of mine plans. Preparation of borehole logs, geological sections, calculation of ore reserves, ore to overburden ratio from sections. Preparation of mine pit sections. Mine visits to get acquainted with mining activities.	30 hours
<b>Pedagogy</b>	Laboratory exercises and mine visits.	
<b>References/ Readings</b>	<ol style="list-style-type: none"><li>1. Arogyaswamy, R. N. P. (1980). <i>Courses in mining geology</i>. Oxford and IBH.</li><li>2. McKinsty, H. E. (1980). <i>Mining Geology</i>. Asia Publishing House.</li><li>3. Peters, W. C. (1987). <i>Exploration and Mining Geology</i> by William Publication: New-York John Wiley &amp; Sons</li><li>4. Sinha, Sharma. (1970). <i>Mineral Economics</i>. Oxford &amp; IBH Publishers</li><li>5. Taggart, (1945). : <i>Mineral Ore Dressing</i></li><li>6. Youn, G. J. (1984). <i>Elements of Mining Geology</i>. McGraw Hill.</li></ol>	
<b>Course outcomes</b>	<ol style="list-style-type: none"><li>1. Students will be able to prepare borehole logs.</li><li>2. They will be able to prepare geological sections.</li><li>3. They will be able to estimate ore reserves as well as the ore to overburden ratio.</li></ol>	