

Name of Programme: M. Sc. Applied Geology

Course Code: GEO-517

Title of the Course: Practical of Economic Geology

No of Credits: 01

Effective from AY: 2022-23

Prerequisites for the course:	Degree of Bachelor of Science in geology of any UGC recognized University or an examination of any other University recognized as equivalent.	
Objective:	To provide a conceptual understanding of economic minerals, processes involving formation of economic mineral, economic importance of economic minerals	
Content:	Study of representative ores, and industrial minerals in hand specimens. Preparation of charts showing the distribution of ore minerals in India. Mineralogical and textural studies of common ore minerals in incident light.	30 hours
Pedagogy:	Lectures/field study/mine visits/discussion	
References/Readings	<ol style="list-style-type: none">1. Guilbert, J. M., & Park Jr, C. F. (2007). <i>The geology of ore deposits</i>. Waveland Press.2. Ridley, J. (2013). <i>Ore deposit geology</i>. Cambridge University Press.3. Dixon, C. J. (Ed.). (2012). <i>Atlas of economic mineral deposits</i>. Springer Science & Business Media.4. Brown, J. C., & Dey, A. K. (1976). <i>Mineral and nuclear fuels of the Indian subcontinent and Burma</i>.5. Roy, B. C. (1973). <i>Indian Mineral Resources, Industries, and Economics</i>. Calcutta: Editions Indian.6. Arndt, N., Kesler, S., & Ganino, C. (2015). <i>Metals and society: An introduction to economic geology</i>. Springer.7. Taylor, R. (2010). <i>Ore textures: recognition and interpretation</i>. Springer Science & Business Media.	
Course outcomes	<ol style="list-style-type: none">1. The students will be able to identify ore bearing minerals.2. They will get comprehensive knowledge of distribution of ore minerals in India.	