Name of Programme: M. Sc. Applied Geology
Course Code: GEO-607
Title of the Course: Practical of Trace Element Geochemistry
No of Credits: 01
Effective from AY: 2023-24

Prerequisites for the course	Students should have undergone M.Sc. Semester I and II.	
Objective	To familiarize the students with the calculation and interpretation of trace element geochemical parameters.	
Content	Measurement of trace elements in rocks/water using AAS/spectroscopy methods. Measuring of partition coefficients, plotting of chemical data on variation diagrams, their correlation and interpretation. Geochemical interpretation of isotope data.	30 hours
Pedagogy	Practical exercises	
References/Readings	1. Ewing, G. W. and McGraw-Hill (1981) *Instrumental Methods of Chemical Analysis*, New York. 2. Freeze, R.A. and Cherry, J.A. (1979) *Groundwater.* Prentice Hall 3. Rollinson, H. R. (1993) *Using Geochemical Data: Evaluation, Presentation, Interpretation*. Harlow, Essex, England: Longman Group	
Course outcomes	1. student will learn the techniques to generate geochemical data 2. The students will be able to plot and interpret trace element geochemical data.	