Name of Programme: M. Sc. Applied Geology Course Code: GEO-526 Title of the Course: Practical of Exploration Geophysics No of Credits: 01 Effective from AY: 2022-23

Prerequisites	Degree of Bachelor of Science in Geology from any UGC recognized	
for the course:	University or an equivalent examination.	
Objective:	The main objective of this course is to get students acquainte various method of Geophysical-exploration and interpretation results.	d with of the
Content:	Exploration Geophysics Field survey using resistivity methods. Interpretation of resistivity data using master curves matching and digital techniques; Interpretation of seismic refraction and reflection data; Field survey using magnetometers and data interpretation; Interpretation of well logs. GPR applications and interpretations.	30 hours
Pedagogy:	It is a practical component. Case studies are discussed.	
References /Readings	 Kearey, P., Brooks, M., and Hill, I. (2002). An introduct geophysical exploration (Vol. 4). John Wiley and Sons. Telford, W. M., Geldart, L. P., and Sheriff, R. E. (1990). A geophysics. Cambridge university press. William, L. (1997). Fundamentals of geophysics. Sharma, P. V. (1985). Geophysical methods in geology. Dobrin, M. B., and Savit, C. H. (1960). Introduction to geophysical prospecting (Vol. 4). New York: McGraw-hill. 	ion to
Course outcomes	 Upon completion of this course the student will learn to interpret the geophysical data. The students will be able to understand the subsurface geology by using geophysical techniques. 	