

Name of Programme: M. Sc. Applied Geology

Course Code: GEO-527

Title of the Course: Petroleum Geology (Skill Based Course)

No of Credits: 03

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:	To provide a conceptual understanding of petroleum deposits, processes involved in the formation of these deposits and their distributions.	
Content:	Module I: Introduction to petroleum. Physical properties and chemical composition of petroleum.	15 hours
	Module II: Origin of Petroleum. Petroleum Traps and Reservoir rocks. Primary and secondary migration and Accumulation.	15 hours
	Module III : Petroleum exploration. Petroliferous basins of India. Oil belts of the world.	15 hours
Pedagogy:	Lectures/ tutorials/assignments/field study/discussion	
References/Readings	<ol style="list-style-type: none">1. Selley, R.C., 1998, Elements of Petroleum Geology: W.H. Freeman & Company, New York.2. Tissot, B.P., and Welte, D.H., 1978, Petroleum Formation and Occurrence - A New Approach to Oil and Gas Exploration: Springer -Verlag, Berlin.3. Levorsen , A.I., 1967, Geology of Petroleum: W.H. Freeman and Company.4. North, F.K., 1986, Petroleum Geology: Allen & UnWin, 607p.	
Course outcomes	<ol style="list-style-type: none">1. Students will acquire indepth knowledge about origin of petroleum2. Students will get comprehensive knowledge on petroleum system.3. Students will acquire theoretical knowledge about techniques used in petroleum industry.4. Students will get a comprehensive knowledge about the petroliferous basins of the world.	