

Name of Programme: M. Sc. Applied Geology

Course Code: GEO-634

Title of the Course: Practical of Petroliferous basins of India

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 impart the knowledge about Petroliferous basins in India. To understand its occurrence, structure and depositional environment	
Content:	Plotting and categorisation of sedimentary basins on outline maps of India based on hydrocarbon potential. Stratigraphic correlation of various petroliferous basins of India. Preparation of basin boundary maps with tectonic features. Oil and gas distribution maps of basin. General stratigraphic succession of basins. Evaluation of basin potential using published data.	30 hours
Pedagogy:	Case studies, map preparation and discussions	
References/Readings	<ol style="list-style-type: none">1. Bhandari, L.L., Venkatachala, B.S., Kumar, R., Swamy, S.N., Garga, P. and Srivastava, D.C. (Eds.) (1983) <i>Petroliferous Basins of India</i>, Petroleum Asia Journal, Himachal Times Group.2. Biswas, S.K., Dave, A., Garg, P., Pandey, J., Maithani, A. and Thomas, N.J. (Eds.) (1993) <i>Proceedings of 2nd Seminar on Petroliferous Basins of India, Dehra Dun, Dec.18-20, 1991, Vol. 1 & 2</i>, Indian Petroleum Publishers, Dehra Dun.3. Biswas, S.K., Dave, A., Garg, P., Pandey, J., Maithani, A. and Thomas, N.J. (Eds.) (1994) <i>Proceedings of 2nd Seminar on Petroleum basins of India, Dehra Dun, Dec. 18-20, 1991, Vol.3</i>, Indian Petroleum Publishers, Dehra Dun.	
Course outcomes	<ol style="list-style-type: none">1. Students will be able to understand Petroliferous basins in India.2. Know about the geological environment and tectonic setting.3. Learn about various Geoscientific studies and hydrocarbon exploration techniques.4. Understand its potential with respect to hydrocarbon occurrence.	