

Name of the Programme: M. Sc.Marine Sciences

Course Code: MSC 536

Title of the Course: Sedimentology Practical

Number of Credits: 01

Effective from AY: 2022-23

Prerequisites for the course:	Core courses offered in the Semester I.	
Objective:	This course introduces to experiments to analysis to understand depositional environments and processes and to demonstrate basic methods for analysis of marine sediments.	
Content:	Measurement of sphericity and roundness of sediment grains (6 hours; References 1, 2). Identification of sedimentary rocks (4 hours; References 3, 7). Identification of sedimentary structures (4 hours; References 3, 4). Study of sedimentary facies (4 hours; References 4, 5). Preparation of samples for X-ray diffraction analysis (4 hours; References 4, 6). XRD analysis for clay minerals, Clay mineral identification and estimation of Semiquantitative percentages and interpretation (4 hours; References 4, 6). Paleocurrent analysis (4 hours; Reference 4).	30 hrs.
Pedagogy:	Laboratory experiments/ Computations/ Plotting and interpretations and analysis.	
References/ Readings:	1.Friedman, G. M., & Johnson, K. G. (1982). Exercises in sedimentology. New York: Wiley. 2.Lindholm, R. C. (1987). A practical approach to sedimentology. London: Allen &Unwin. 3.Babu, S. K. & Sinha, D. K. (1987): Sedimentary Petrology Practical, CBS Pub., N. Delhi. 4.Carver, R. E. (1971). Procedures in sedimentary petrology. New York: Wiley-Interscience. 5.K. Verma & Prasad C. (1981). A text book of Sedimentary Petrology Intl., Book Distribution 6.Griffith, J. C., 1967, Scientific Methods in Analysis of Sediments: McGraw-Hill, New York, NY. 7.Moorhouse, W. W. (1959). The study of rocks in thin sections: by WW Moorhouse. Harper. 8.Read, H. H. (1970). Rutley's elements of mineralogy. London,UK: Thomas Murby& Co.	
Course Outcome:	1. To generate data and analyze to understand facies, paleo-current, sedimentary structure and depositional environments.	