Name of the Programme: M. Sc. Marine Sciences
Course Code: MSC 515
Title of the Course: Estuarine and Coastal Geology Practical
Number of Credits: 01
Effective from AY: 2022-23

Prerequisites for the course:	Core courses offered in the Semester I.	
Objective:	To illustrate various methods involved in analysis of marine sediments, understand depositional environments and study of coastal geomorphological features	
Content:	Grain size analysis – sand, silt, clay using pipette method – estimation and interpretation – at least ten samples from a sediment core (12 hours; References 1, 5) Determination of organic carbon – at least ten samples from a sediment core (4 hours; References 1, 4, 6) Heavy mineral identification (4 hours; References 1, 2) Study of depositional environments (4 hours; References 1, 2) Study of coastal geomorphological features (Field work) (8 hours; Reference 7)	30 hrs.
Pedagogy:	Laboratory experiments / Computations / Plotting and Interpretations and analysis/ Field Visit	
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.V.K. Verma and 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.Monroe, J. S., Wicander, R., & Hazlett, R. W. (2007). Physical geology: exploring the earth (Vol. 584). Belmont: Thomson Brooks/Cole.	
Course Outcome:	1. To develop skill for conduct of analysis of marine sediments and to understand coastal geomorphology.	