

Programme: M. Sc. (Marine Sciences)

Course Code: MSO 270

Title of the Course: Physical Oceanography II

Number of Credits: 01

Effective from AY: June, 2018-19

Prerequisites for the course:	Degree of Bachelor of Science of this University or an examination of any other University recognized as equivalent.	
Objective:	Students with any branch in science at their graduation level are eligible to get admission to PG in Marine Science. Ocean, being a dynamic ecosystem, to know the biology, geology and chemistry of the Ocean, it is imperative to know different physical process responsible to drive the system.	
Content:	Equipment used for physical oceanographic studies: Mechanical bathythermograph, Expendable bathythermograph, Reversing thermometers, CTD, Current meter, Acoustic Doplar Current Profiler (ADCP), Autosal. Equipment used for atmospheric studies: Psycho meter, anemometer, radio sonde, sun-photometer, Radiation meter, Automatic Weather Station - Research vessels: O.R.V. Sagar Kanya, R.V. Sagar Sampada.	12 hours
Pedagogy:	The course is being taught using the conventional method of class room teaching using chalk and board. However, after each module an integral picture is drawn to them through power point presentation. In addition students are given seminar topic related to the course.	
References/ Readings	<ol style="list-style-type: none">1. The Ocean: Their Physics, Chemistry and Biology, 1962 - Sverdrup, H.U., Johnson, M.W. and Flemming, R.H., Asia Publ. House, New Delhi.2. Descriptive Physical Oceanography: An Introduction, 1989 - Pickard, G.B. and Emery, W.J., Pergamon press, U.K.3. Principles of physical oceanography, 1966 - Pierson, W.J. and Newmann, G.S., Prentice Hall, Inc., New Jersey, U.S.A.	
Learning Outcomes	Getting a larger picture of different equipments necessary for Physical Oceanographic and atmospheric studies	