

Programme: M. Sc. (Marine Sciences)

Course Code: MSO 275

Number of Credits: 01

Effective from AY: June, 2018-19

Title of the Course: Marine Biology Practical II

Prerequisites for the course:	Degree of Bachelor of Science of this University or an examination of any other University recognized as equivalent.	
Objective:	This course focuses on some of the morphological features of the marine organisms for the purpose of identification.	
Content:	1. Morphometric measurements and meristic counts of the Indian Mackerel, <i>Rastrelliger kanagurta</i> and elasmobranchs (4 hrs; Ref 3, 4, 5) 2. Identification of few commonly occurring teleosts (ray-finned fishes) and their biological characteristics (8 hrs; Ref 3, 4, 5) 3. Identification of brachyuran crabs using morphology and gonopod characteristics, sex determination and their biological importance (6 hrs; Ref 1) 4. Identification of prawns and shrimps using external characteristics, sex determination and biological aspects (6 hrs; Ref 1)	24 hours
Pedagogy:	Identification of marine fauna and fish morphometry	

References/ Readings	1. FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific, 1988b - Carpenter K.E. & Niem V.H. <i>Volume 2. Cephalopods, crustaceans, holothurians and sharks</i> . (Food and Agricultural Organization, Rome), pp. 687-1396. 2. FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific. 1999a - Carpenter K.E. & Niem V.H., <i>Volume 3. Batoid fishes, Chimaeras and bony Fishes Part 1 (Elopidae to Linophrynidae)</i> . (Food and Agricultural Organization, Rome), pp. 1397-2068. 3. FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific., 1999b - Carpenter K.E. & Niem V. H., <i>Volume 4. Bony Fishes Part 2 (Mugilidae to Carangidae)</i> . (Food and Agricultural Organization, Rome), pp. 2069-2790. 4. FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific., 2001a - Carpenter K.E. & Niem V.H. <i>Volume 5. Bony Fishes Part 3 (Menidae to Pomacentridae)</i> . (Food and Agricultural Organization, Rome), pp. 2791-3380. 5. FAO species identification guide for fishery purposes. The living marine resources of the Western Central Pacific., 2001b - Carpenter K.E. & Niem V.H., <i>Volume 6. Bony Fishes Part 4 (Labridae to Latimeriidae), estuarine crocodiles, sea turtles, sea snakes and marine mammals</i> . (Food and Agricultural Organization, Rome), pp. 3381-4218.	
Learning Outcomes	Provides basic information towards the identification of few marine groups.	