

Semester	5		
Course code	ZOOL 31512		
Course Name:	Fisheries Biology and Management		
Credit Value:	2		
Core/Optional	Optional for the BSc Degree programme. Compulsory for the BSc (Honours) Degree programme in Zoology.		
Pre requisites	ZOOL 12523		
Co-requisites	None		
Hourly Breakdown	Theory	Practical	Independent Learning
	22	16	62
Course Aim/Intended Learning Outcomes:			
After completion of the course unit, the student will be able to;			
<ul style="list-style-type: none"> ➤ describe characteristics of fisheries, ➤ determine the population parameters of fish stocks, ➤ analyze the stomach contents of fish and identify the food habits of fish, ➤ analyze the reproductive strategies of fish, ➤ identify the common food fishes of Sri Lanka, ➤ describe the common fishing gear used in Sri Lanka, ➤ discuss the impacts of human activities and climate change on fisheries, ➤ analyze the impact of fisheries on the environment, ➤ describe the basic principles of fisheries management, and ➤ describe the fisheries regulations of Sri Lanka. 			
Course Content:			
Fishery as a renewable resource, Characteristics of fisheries, Artisanal fisheries, Commercial fisheries, Fishing gear, Common food fishes of Sri Lanka; Food and feeding, Reproductive Biology, Concept of unit stock, Age and Growth, Asymptotic length, Growth coefficient, Growth models, Natural and fishing mortalities, Basic concepts in fisheries management, Maximum sustainable yield, Fisheries of Sri Lanka, Environmental impacts of fisheries, Impacts of human activities, natural disasters and climate change on fisheries, Fisheries regulations.			
Laboratory and field studies including identification of food and feeding habits of fish with reference to their morphology, reproductive strategies of fish, identification of common food fishes of Sri Lanka, and the fishing gear of Sri Lanka.			
Teaching /Learning Methods: A combination of lectures, laboratory and field studies, assignments, self-studies, computer based learning, and small group discussions.			
Assessment Strategy: Continuous assessment and end of course examination.			
Continuous Assessment 30%		Final Assessment 70%	
Details: Online assessments 10%	Theory (%)	Practical (%)	Other (%) (specify)
Field report 10%	50%	20%	NA
Lab reports 10%			
Recommended reading:			
<ol style="list-style-type: none"> 1. Gabriel, O. (2006). Fish catching methods of the world. Wiley. 2. Hart, P. J. B. & J. D. Reynolds (2002). Handbook of Fish Biology and Fisheries: 2 Volume Set. John Wiley and Sons. 3. Jennings, S., M. Kaiser & J. D. Reynolds (2001). Marine Fisheries Ecology. Wiley-Blackwell. 4. Ommer, R., I. Perry, K. L. Cochrane & P. Cury (2011). World Fisheries: A Social-Ecological Analysis. Wiley-Blackwell. 5. www.fisheries.gov.lk 			