Module code		SB-4313				
Module Title		Aquatic Biology				
Degree/Diploma		Bachelor of Science (Biology)				
Type of Module		Major Option				
Modular Credits		4	Total	student workload	8 hours/week	
			Cont	act hours	6 hours/week	
Prerequisite		None				
Anti-requisite		None				
Aims The aim of this module is to gain the understanding of biological metabolisms and processes in aquatic ecosystems. All types of watery worlds are covered from poles to tropics with a special attention to the environments of Brunei. Abiotic environment and water properties in aquatic ecosystems are also covered.						
Learning Outcomes:						
On successful completion of this module, a student will be expected to be able to:						
Lower order :	 40% - Describe abiotic environment in aquatic ecosystems - Describe the metabolism of major aquatic organisms - Describe the food works and account or structure in the account 					
Middle order	- Describe the food webs and ecosystem structure in the oceans					
Middle order :	40%	0% - Analyse and evaluate aquatic abiolic conditions				
		- Observe and identify zooplankton				
		- Observe and identify Isophanikton				
Higher order:	20%	- Develop competence in laboratory skills				
		- Work and learn independently				
Module Contents						
- Abiotic environment in aquatic ecosystems						
- Primary producers and primary production						
- Phytoplankton, seaweeds, seagrass						
- Zooplankton						
- Nekton						
- Benthos						
- Food webs and energy flows						
- The cycles of biogenic elements (carbon, nitrogen, phosphorus)						
- Lower invertebrates (sponges and chidarians)						
Assessment	Form	native assessm	ent	Tutorial assignments	and feedback	
	Sum	mative assessn	nent	Examination: 60%		
				Coursework: 40%		
				- 3 practical assignm	ents (15%)	
		- 1 oral presentation (5%)				
				- 2 class tests (20%)		