Module code		SB-4332				
Module Title		Principles of Oceanography				
Degree/Diploma		Bachelor of Science (Biology)				
Type of Module		Major Option				
Modular Credits				Total student workload 8 hours/week		
			Cont	tact hours	6 hours/week	
Prerequisite		None				
Anti-requisite		None				
Aims						
The aim of this module is to gain the understanding of the physical, chemical, geological and biological						
aspects of the major water masses of the world and human dependency on these water masses.						
Oceanography is interesting because it involves so many of the sciences. The module emphasizes						
critical thinking, scientific processes, environmental issues, and interrelationships among disciplines.						
Learning Outcomes:						
On successful completion of this module, a student will be expected to be able to:						
Lower order :	40%	-Describe ocean processes within the physical, geological, chemical and				
		biological realms				
Middle order :	40%	-Explain complex interactions in the ocean system				
-Identify the scientific process steps in research that they study						
Higher order: 20% - Discuss ocean policy ar				and analyze it from a scientific and social perspective		
- Work and learn independently						
Module Contents						
- Origin of the Earth and its oceans						
 Geography and physiography of ocean basins 						
- Evolution of ocean basins (plate tectonics)						
- Oceanic sediment and sediment transport mechanisms						
- Chemical and physical characteristics of ocean water						
- Surface and subsurface circulation of ocean waters						
- Ocean-atmosphere interactions						
- Origin and description of waves and tides						
- Coastlines and their management						
- Marine organisms and their classification						
- Marine ecology and ecosystem description						
- Oceanic resources (physical, chemical and biological)						
- Pollution of the oceans (environmental issues)						
		ative assessme		Tutorial assignments a	nd feedback	
	Sumr	mative assessm	ent	Examination: 60%		
				Coursework: 40%		
				- 4 practical reports (2	-	
				- 1 oral presentation (1	10%)	
				 1 class test (10%) 		