Module code	ule code SG-43			7			
Module Title		Geotectonics					
Degree/Diploma		Bachelor of Science (Geology)					
Type of Module		Major Option					
Modular Credits		4		Total student Workload	10	hours/week	
				Contact hours	6	hours/week	
Prerequisite		None					
Anti-requisite		None					
AimsThis module aims to train students to the origin, formation and operation of tectonic plates of the planet Earth. The evolution and dynamics of the Earth's Core and Mantle are presented, too. The subduction factory, arc mechanics, magmatism and metamorphism will be covered in detail. This module will also analyse collision orogeneses, granites, channel flow and exhumation in much more details. The students will be exposed to neotectonics and cratons, mobile belts and tectonic processes to have a global view of neo- and paleo-tectonics.Learning Outcomes On successful completion of this module, a student will be expected to be able to:Lower order :20%understand the tectonic processes and morphology middle order :60%explain the chemical, mechanical and thermal structure of the Earth							
Higher order:	20%	 analyse controls of geological phenomena, at a range of scales discriminate Earth's modern tectonic settings and synthesise their magmatic, sedimentary, metamorphic and structural characteristics explore the Archean tectonics from the Recent tectonics appraise the evidence for periodic assembly and dispersal of continents 					
		 appraiseand discuss the mechanisms proposed for the formation and evolution of continental Crust 					
Module Conte	ents						
- Plate tectonics and geodynamics; composition and structure of the Earth							
-	•		types	s of Crust and Mantle			
- Tectonic set	-	•		undere testada andala			
				y prisms, tectonic erosion			
- Tectonic evo Assessment			and its surrounding areas Practical tests, assignments and feedback				
~33C33111CIII	assessment		ו ומכווכמו נכזנז, מזזוקווווכוונז מווע וכפעשמנא				
	Summative assessment		Examination: 50%				
			Coursework: 50%				
			- 1 individual assignment (25%)				
			- 1 group project (25%)				
			- 5				