

Module code	AW-3309		
Module Title	Climate Change: Science		
Degree/Diploma	Bachelor of Arts (Geography, Environment and Development Studies)		
Type of Module	Major Option		
Modular Credits	4	Total student workload	8 hours/week
		Contact hours	4 hours/week
Prerequisite	None		
Anti-requisite	None		
Aims			
To acquaint students with observational evidence related to climate change and the basic science that drives climate change along with climate projections.			
Learning Outcomes:			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	<ul style="list-style-type: none"> - Describe the basic components and parameters of climate - Understand the basic science of weather and climate - Understand earth energy budget 	
Middle order :	30%	<ul style="list-style-type: none"> - Analyse the observational data available for climate to investigate any changes - Investigate the natural and anthropogenic drivers of climate change - Investigate the role of greenhouse gases in warming of the planet. 	
Higher order:	40%	<ul style="list-style-type: none"> - Interpret the results of analyses and make appropriate report to define any changes in climate - Interpret climate forecasts along with the uncertainties - Argue with dissenting voices on climate change with facts - Work independently or in group towards climate change awareness 	
Module Contents			
<ul style="list-style-type: none"> - Weather - Climate - Climatic processes and drivers - Analyse past observational data both local and global - Natural and anthropogenic drivers - Earth energy budget - Greenhouse gases - Climate models - Different climate projection scenarios - Climate forecast and uncertainties - Dissenting voices 			
Assessment	Formative assessment	Weekly discussion on previous lecture and online quiz	
	Summative assessment	Examination: 40%	
		Coursework: 60% <ul style="list-style-type: none"> - Essay (20%) - Report (20%) - Presentation (20%) 	