

Module Information

2022.02, Approved

Summary Information

Module Code	5402NATSCI
Formal Module Title	Climate Change: Catchments and Oceans
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	24
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To provide students with an appreciation of fundamental processes that operate in (and link) catchments, riverine, coastal and marine environments in relation to climate change. To equip the students with the necessary skills and techniques that are used for monitoring and comprehending these changing environments.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Interpret and analyse the processes that act in catchments
MLO2	2	Interpret and analyse the processes that act in coasts and oceans
MLO3	3	Understand the impacts of climate change on catchments, coasts and oceans

Module Content

Outline Syllabus	Hillslope and river hydrology, hyporheic, and ecohydrological processes in change. Flooding, Sea level rise. Coastal and oceanic processes in change including ecology and biogeochemistry.
Module Overview	This module provides you with an appreciation of fundamental processes that operate in (and link) catchments, riverine, coastal and marine environments in relation to climate change. You will be equipped with the necessary skills and techniques that are used for monitoring and comprehending these changing environments.
Additional Information	The module will examine two of the most important Earth surface domains. Theme 1 (Catchments) will focus on understanding how climate change affects catchment water balance and ecohydrology. Theme 2 (Oceans) will focus on how climate change will affect coasts, sea level, physics, biogeochemistry, and ecology.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Blog posts	50	0	MLO3, MLO1
Test	Phase tests	50	0	MLO3, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Konstadinos Kiriakoulakis	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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