

Prifysgol Wreccsam Wrexham University

Module specification

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Module Code	AUR6A1
Module Title	Flood Risk Management
Level	6
Credit value	10
Faculty	FACE (Faculty of Arts, Computing & Engineering)
HECoS Code	100986
Cost Code	GABE

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BEng (Hons) Civil Engineering Degree Apprenticeship	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	12hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	12 hrs
Placement / work-based learning	0 hrs
Guided independent study	88 hrs
Module duration (total hours)	100 hrs

For office use only	
Initial approval date	3 rd July 2024
With effect from date	September 2024
Date and details of revision	
Version number	1



Module aims

To provide students with knowledge in the development of National and Local Flood Risk Management Strategies and the policies, objectives, and measures to manage flood risk at a National and Local Level.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Display critical awareness of knowledge and information relating to flood risk, recognising processes and technologies used and the impact of climate change.
2	Produce climate resilient design solutions/ options that meet user, business, client, stakeholder, and society needs. This will include consideration of technical, economic, social, cultural, environmental and health and safety aspects.

Assessment

Indicative Assessment Tasks:

Assessment One: Individually prepared coursework to develop strategies, measures, and options to manage flood risk based on a negotiated case study. (indicative word count: 2,000 words)

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1,2	Coursework	100

Derogations

None

Learning and Teaching Strategies

The module will be presented to students through planned lecture series, combined with interactive sessions using case studies and tutorials. An active and inclusive approach is used to engage students in the topics and will involve individual, group work and flipped learning experiences aligned to the university's Active Learning Framework (ALF). The approach offers students a flexible and adaptive learning experience that can accommodate a range of options that includes both on campus learning and remote learning where appropriate.

The Moodle VLE and other on-line materials and resources will be available to support learning. ALF offers a balance between the classroom elements and digitally enabled activity incorporating flexible and accessible resources and flexible and accessible feedback to support learning.

Tutorials – Close interaction with students ensuring that the work presented during lectures has been understood, with specific help being given to overcome any learning problems, should they occur.

Indicative Syllabus Outline

- Flood risk and coastal erosion, considering research, monitoring and investigations, modelling, and mapping.
- Legislation and Policy documents
- Roles and responsibilities of Stakeholders
- Risk Mapping
- Flood Risk Management Plans
- Shoreline Management Plans
- Coastal Monitoring
- Community resilience
- Coastal Adaptation
- Natural Flood Management
- National and Local Flood Risk Management Strategies
- Catchment Flood Risk Management Plans
- Community Risk Registers
- Flood Warning and Informing

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

McLuckie, D. Kandasamy, J. (2018), *Strategic Management of Flood Risk*, ICE (Institution of Civil Engineers) Publishing.

Other indicative reading

Chartered Institute of Architectural Technologists www.ciat.org.uk

Chartered Institute of Building www.ciob.org.uk

Ordnance Survey www.ordnancesurvey.co.uk/

Royal Institution of Chartered Surveyors www.rics.org

Institution of Civil Engineers www.ice.org.uk

Royal Institute of British Architects www.architecture.com

Designing Buildings Wiki www.designingbuildings.co.uk

Institution of Structural Engineers (www.istructe.org.uk)

IHS Database www.ihsti.com