MODULE SPECIFICATION

Part 1: Information			
Module Title	Integrated Water Management		
Module Code	UBGLW8-30-3	Level	Level 6
For implementation from	2018-19		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Envrnmental Mgmt		
Contributes towards			
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Overview: Pre-requisites 60 credits at level 2 **Educational Aims:** See learning outcomes. **Outline Syllabus:** Theme 1: Introduction to water services and their management in the 21st century: natural and social scientific perspectives: History and evolution From natural water to hydrosocial water Water, economics and policy Theme 2: Integrated water management: challenges and constraints:

The IWRM movement

Water management and land management

Key technical, economic and policy challenges

Technological solutions: opportunities and challenges

Theme 3: Water related ecosystems services and the future of water management:

The ecosystems services approach

Payment for ecosystems services

Water-related ecosystems services

Teaching and Learning Methods: Scheduled learning on this module includes lectures, within which students will at times work in breakout discussion groups.

Independent learning includes time engaged with essential reading, case study preparation and assessment preparation and completion.

Field Visits may be scheduled where appropriate and where the opportunity arises.

Formative work Students will receive formative feedback via discussions and exercises as the module progresses. Formative feedback for the examination may include the use of past papers, or a mock exam.

Part 3: Assessment

Component A Examination (2 Hours) learning outcomes 1,3,5,6

Component A is assessed by an unseen 2-hour examination that will require students to demonstrate knowledge of key ideas, concepts and practices encountered during the module.. The form of assessment is considered to be the most appropriate on the basis that it will allow students to develop clear and coherent arguments and provide opportunities for research surrounding case studies and examples to be presented. Students will be expected to refer to appropriate reading and demonstrate appropriate standards of literary and presentation.

Component B Portfolio learning outcomes 1,2,3,4,5,6

Component B comprises a portfolio of written work (equivalent to 2,500 words). Some elements will be technical, while other elements will be more conceptual and will test competence in the above Learning Outcomes. Some exercises will be formative in nature, attracting detailed formative commentary from lecturers, whilst others will be summative and will therefore contribute to the mark for this component.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Portfolio - Component B		50 %	Portfolio
Examination - Component A	✓	50 %	Unseen Exam (2 hours)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Portfolio - Component B		50 %	Portfolio
Examination - Component A	✓	50 %	Unseen Exam (2 hours)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	Describe the evolution of integrated water management frameworks pertaining especially to fresh water systems, with appropriate reference to technological applications
MO2	Discuss the historical background of water services provision in UK, European and world contexts
MO3	Discuss the evolving policy and practice of water management principally addressing water quality, water resources, flood management, biodiversity and fisheries and their progressive integration
MO4	Articulate the challenges of and constraints on improving efficiency in consumption of water services in domestic, commercial and agricultural sectors
MO5	Articulate an understanding of the evolution of systems thinking, ecosystems thinking, the Ecosystem Approach and ecosystem services, and the implications of this for the continued evolution of integrated water and environmental management contexts
MO6	Demonstrate critical engagement with academic and policy-based literature

Contact Hours

Contact Hours	
Independent Study Hours:	
Independent study/self-guided study	228
Total Independent Study Hours:	228
Scheduled Learning and Teaching Hours:	
Face-to-face learning	72
Total Scheduled Learning and Teaching Hours:	72
Hours to be allocated	300
Allocated Hours	300

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/index.html