Module Specification

Integrated Water Management

Version: 2023-24, v2.0, 30 Jul 2023

Contents

Part 1: Information

Module title: Integrated Water Management

Module code: UBGLW8-30-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

College: Faculty of Environment & Technology

School: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Pre-requisites 60 credits at level 2

Features: Not applicable

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

Part 3: Teaching and learning methods

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.

Module Learning outcomes: On successful completion of this module students will achieve the following 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

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/index.html

Part 4: Assessment

Assessment strategy: Examination (2 Hours) - 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.

Portfolio - 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.

Resit Exam - a similar brief to that described above, which may include some topic changes.
Resit Portfolio - a similar brief to that described above, which may include some topic changes.

Assessment tasks:

Examination (First Sit)
Description: Unseen Exam (2 hours)
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO3, MO5, MO6

Portfolio (First Sit)
Description: Portfolio (2500 words)
Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Examination (Resit)

Description: Unseen Exam (2 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO3, MO5, MO6

Portfolio (Resit)

Description: Portfolio (2500 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study: