STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Water Management: Challenges for the 21st Century		
Module Code	UBGMV4-15-M	Level	Level 7
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Envrnmental Mgmt		
Contributes towards	Environmental Consultancy [Sep][FT][Frenchay][1yr] MSc 2018-19 Social Research (Sustainable Futures) [Sep][FT][Frenchay][1yr] MRes 2018-19 Environmental Consultancy [Sep][PT][Frenchay][2yrs] MSc 2018-19 Social Research (Sustainable Futures) [Sep][PT][Frenchay][2yrs] MRes 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Educational Aims: In addition the Learning Outcomes the educational experience will, develop, and practise but not formally discretely assess the following: Demonstrate partial satisfaction of requirements for membership of the Chartered Institution for Water and Environmental Management.

Outline Syllabus: The topical outline is as follows:

A. Brief History of Water Supply and Sewerage Systems

Water and the growth of western civilisation.

Water as ubiquity, water as commodity.

B. Water Supply: the civil engineer's perspective

Common systems for collecting, cleaning and distributing water.

Commonly encountered problems.

The specific problem of Britain's Victorian-era water supply network.

C. Water Supply: perspectives from policy and management theory

Institutional perspectives: from the Tennessee Valley Authority to the National Rivers Agency, DG-Environment and beyond.

Demand side versus supply side management of scarce water.

Should water be a commodity?

D. Integrated Water Resources Management: new kid on the block?

Basic principles.

The EU Water Framework Directive.

Key Challenges.

E. Resolving Conflict Over Water Resources: case studies

Inter-regional Conflict: the Colorado Basin case study

International Conflict: the Arab-Israeli case study

Teaching and Learning Methods: This is designed as a distance learning module in which students are directed to key written material in the form of appropriate subject texts including Staddon (2010) and Jones (2010), additional guided reading and assessment specification.

Contact will be on an ad hoc basis as initiated by the student acting in accordance with her/his individual schedule. As the student works through the text chapters (Staddon 2010, Jones 2010 and supplementary materials) and related detailed module guide he/she is expected to contact necessary by email, telephone and/or other web-enhanced technologies.

Additional learning opportunities will come primarily from the on-going schedule of CIWEM,RGS-IBG and BGS events (as appropriate), which are held roughly fortnightly throughout the year in London and throughout England.

In keeping with the Faculty of Environment and Technology's Teaching and Learning Strategy, and because the subject matter clearly has conceptual as well as practical components, this module incorporates a number of different learning approaches. An emphasis on active learning is a leitmotif of the module, meaning that students and lecturers must enter into a dialogue through which the subject matter will be presented and examined from a number of different perspectives. Moreover, the module is specifically designed to support different sorts of learners, including distance learners and open learners, as well as more traditional teaching and learning contexts.

Part 3: Assessment	
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The assessment strategy is designed to allow for student-led flexibility in learning whilst also ensuring that key core competences are demonstrated. As students progress through the module material they will encounter formative exercises, often technical in nature, which they are encouraged to complete as part of their learning process. At least three of these must be submitted as part of a portfolio of work so that assessors may satisfy themselves that core competencies have been covered. Students will also complete an essay of up to 2500 words in length on a topic agreed with the Module Leader. This will allow students to further explore issues of particular interest to them.

Component A - Essay. Learning outcomes 1,2, 3 and 4:

A 2500 word essay on a topic chosen by the student and agreed with the Module Leader. This essay is intended as a capstone piece of work for the module. In other words it needs to demonstrate an appropriate level of mastery of all learning outcomes.

Component B - Portfolio. Learning outcome 3, 4:

Marked on a pass/fail basis this Portfolio will contain, as a minimum, three examples of formative work as specified in the module guide.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A	✓	100 %	Essay (2500 words)
Portfolio - Component B		0 %	Portfolio (2500 words equivalent)
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A	✓	100 %	Essay (2500 words)
Portfolio - Component B		0 %	Portfolio (2500 words)

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Part 4: Teaching and Learning Methods		
Learning Outcomes	On successful completion of this module students will be able to:	
		Module Learning Outcomes
	MO1	Evaluate issues related to water governance processes, policies and economics, in Europe and around the world.
	MO2	Critically analyse the classic policy approaches to freshwater management, particularly with respect to water services provision.
	MO3	Effectively use of the key sources of empirical information on water management issues.
	MO4	Prepare informative briefs on specific water management issues, working under time and resource pressure.
Contact Hours	**Contact Hours**	
	Independent Study Hours:	
	Independent study/self-guided study	114
	Total Independent Study Hours:	114
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	36
	Total Scheduled Learning and Teaching Hours:	36
	Hours to be allocated	150
	Allocated Hours	150
Reading List	*The reading list for this module can be accessed via the following link:*	
	https://uwe.rl.talis.com/modules/ubgmv4-15-m.html	