

MODULE SPECIFICATION

Part 1: Information						
Module Title	Air Quality Management					
Module Code	UBGMW7-15-M		Level	Level 7		
For implementation from	2019-	20				
UWE Credit Rating	15		ECTS Credit Rating	7.5		
Faculty	Faculty of Environment & Technology		Field	Geography and Environmental Management		
Department	FET [FET Dept of Geography & Envrnmental Mgmt				
Module type:	Standard					
Pre-requisites		None				
Excluded Combinations		None				
Co- requisites		None				
Module Entry requirements		None				

Part 2: Description

Overview: This module covers an introduction to the air quality management from UK and European perspectives, focusing on pollutants of concern, their sources and health effects, ways of monitoring and modelling air pollution and the implications of air quality assessment in development control as well as mitigation strategies through Air Quality Action Planning.

Features: Module Entry Requirements: Standard entry requirements if taken as credit-bearing standalone module. CPD only (i.e. without assessment) is not credit bearing so no entry requirements necessary.

Educational Aims: See Learning Outcomes.

Outline Syllabus: Topics include: Air Quality Management Air Quality Monitoring Air Quality Dispersion Modelling Air Quality and Development Control Air Quality Action Planning

Teaching and Learning Methods: The module will be run by members of the Air Quality Management Resource Centre, a worldclass research group in the faculty, ensuring students

STUDENT AND ACADEMIC SERVICES

benefit from first-hand experience and cutting-edge material. As the module is intended to be shared with CPD delivery, the academic students will also benefit from the exchange of realworld experience with professional delegates and the potential to initiate professional networks in the field. Within the Institution of Environmental Sciences professional accreditation, students may also be eligible for membership of the Institute of Air Quality Management, further increasing the professional opportunities available to them.

Delivery of those sessions shared with CPD delegates will be 5 full days over the course of a week, comprising 27.5 hours teaching. This will deliver the bulk of the content, with a further 10 hours delivered as 2-hour sessions over 5 weeks to enable students to revisit each of the subjects covered and prepare for assessment.

Teaching and learning methods will comprise of a combination of seminars, in-class discussions, IT practicals (using Excel and ADMS Roads dispersion modelling software), and group work practicals, including role-play).

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Scheduled sessions may vary slightly depending on the module choices you make.

Nominal study hours: Directed contact learning (seminar/tutorials): 37.5 hours Independent learning: 75 hours Assessment (including preparation): 37.5 hours Total: 150 hours

Part 3: Assessment

The assessment will comprise of two components (2-hour exam and 2,500 word case study evaluation) in order to accommodate a range of learning styles.

The examination component, which will be performed under controlled conditions, will include six short answer questions and a choice of essay question (out of a three possible), to cover the learning objectives that are not assessed in component 2.

Component 2 will be a case study evaluation, enabling the student some freedom over their choice of case study. The assessment will test the student's skills of critical evaluation as well as their knowledge of local government air quality responsibilities, and will also enable them to contextualise the real-world application of their learning together with the challenges that that entails.

The assessment intrinsically embeds UWE's principles of Sustainable Development within the subject matter.

First Sit Components	Final Assessment	Element weighting	Description
Examination - Component A	~	50 %	Exam (short answer and choice of essay style questions)
Case Study - Component B		50 %	Case study evaluation

STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Examination - Component A	~	50 %	Exam (short answer and choice of essay style questions)
Case Study - Component B		50 %	Case study evaluation

Part 4: Teaching and Learning Methods							
Learning Outcomes	On successful completion of this module students will achieve the follo	wing learning	outcomes:				
	Module Learning Outcomes		Reference				
	Differentiate between the different sources and effects of selected air pollutants in						
	the UK and critically evaluate how these have changed over the last						
	Critically review the key areas of European legislation for air pollution, and the various drivers for policies being implemented at a national level Critically evaluate the effectiveness and limitations of the UK Local Air Quality Management (LAQM) framework for improving local air quality						
	Demonstrate a critical understanding of methods of air quality assess		MO4				
	Determine how proposed planning developments may be influenced quality and conversely how air quality may be affected by such devel critically evaluate how development control and planning can be used emissions and ambient concentrations of pollutant	opments, and	MO5				
	Critically discuss the history of the development of emission controls on motor						
	vehicles and assess likely future scenarios for abatement technologie	es					
	Independent study/self-guided study Total Independent Study Hours:		112.5				
	Scheduled Learning and Teaching Hours:						
	Face-to-face learning	37	37.5				
	Total Scheduled Learning and Teaching Hours: 3		.5				
	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/ubgmw7-15-m.html						

Part 5: Contributes Towards

This module contributes towards the following programmes of study: