



Module Specification

Air Quality Management

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	3
Part 4: Assessment.....	4
Part 5: Contributes towards	6

Part 1: Information

Module title: Air Quality Management

Module code: UBGMW7-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Environmental 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: 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 management 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: The educational aims of the module are to provide a holistic approach to air quality management, that introduce core concepts and breadth of understanding, underpinned with the latest research, to contextualise topics on assessment methods (monitoring and modelling) and policy and management (air quality considerations in planning, development of air quality action plans). The theoretical knowledge is embedded through technical practicals (using for example Excel, ADMS-Roads) and non-technical practicals (reviewing air quality assessments, role playing action plan steering groups). The knowledge, arguments and practical skills developed studying this module would prepare students to work as, or with, air quality officers in local or national government, or to undertake air quality consultancy.

Outline syllabus: Topics include:

Air Quality Management

Air Quality Monitoring

Air Quality Dispersion Modelling

Air Quality and Development Management

Air Quality Action Planning

Part 3: Teaching and learning methods

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 benefit from first-hand experience and cutting-edge material.

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

Independent learning includes hours engaged with essential reading, case study

preparation, assignment preparation and completion. 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

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

MO1 Differentiate between the different sources and effects of selected air pollutants

MO2 Demonstrate a critical understanding of national and local air quality policy and management

MO3 Demonstrate a critical understanding of methods of assessing air quality

MO4 Demonstrate an ability to communicate effectively with different audiences on air quality

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 112.5 hours

Face-to-face learning = 37.5 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubgmw7-15-m.html) via the following link

<https://uwe.rl.talis.com/modules/ubgmw7-15-m.html>

Part 4: Assessment

Assessment strategy: The Assessment:

Written Assignment (1000 words) Blog - will give an opportunity to produce a creative output for a specific audience.

Case Study (2500 words) - 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.

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

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

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

Assessment tasks:**Case Study** (First Sit)

Description: Case study (2500 words)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

Written Assignment (First Sit)

Description: Blog (1000 words)

Weighting: 30 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4

Case Study (Resit)

Description: Case study (2500 words)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

Written Assignment (Resit)

Description: Blog (1000 words)

Weighting: 30 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Environmental Management [Frenchay] MSc 2023-24

Environmental Management [Frenchay] MSc 2023-24

Environmental Consultancy [Frenchay] MSc 2023-24

Environmental Consultancy [Frenchay] MSc 2023-24

Environmental Consultancy [Frenchay] MSc 2022-23