

Module Specification

Air Quality Management

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Part 1: Information

Module title: Air Quality Management

Module code: UBGMW7-15-M

Level: Level 7

For implementation from: 2021-22

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Delivery locations: Frenchay Campus

Field: Geography and Environmental Management

Module type: Standard

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

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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:

MO1 Differentiate between the different sources and effects of selected air pollutants in the UK and critically evaluate how these have changed over the last

century

MO2 Critically review the key approaches adopted by European and UK

legislation for air pollution

MO3 Critically evaluate the effectiveness and limitations of the UK Local Air

Quality Management (LAQM) framework for improving local air quality

MO4 Demonstrate a critical understanding of methods of air quality assessment

MO5 Determine the impactful relationship between development and air quality

and critically evaluate how development control and planning can be used to

reduce emissions and ambient concentrations of pollutant

MO6 Critically discuss measures to reduce air pollution, including the

development of emission controls on motor vehicles, and assess likely future

scenarios for air quality abatement

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 112.5 hours

Face-to-face learning = 37.5 hours

Total = 150

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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/modules/ubgmw7-15-m.html

Part 4: Assessment

Assessment strategy: The assessment will comprise of two components (a blog or

vlog, and a 2,500 word case study evaluation) in order to accommodate a range of

learning styles.

Component A, the blog/vlog will give an opportunity to produce a creative output for

a specific audience and will cover the learning objectives that are not assessed in

component 2.

Component B 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.

Assessment components:

Written Assignment - Component A (First Sit)

Description: Blog/Vlog (1000 words)

Weighting: 50 %

Final assessment: Yes

Group work: No

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

Case Study - Component B (First Sit)

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Description: Case study evaluation

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO6

Written Assignment - Component A (Resit)

Description: Blog/Vlog (1000 words)

Weighting: 50 %

Final assessment: Yes

Group work: No

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

Case Study - Component B (Resit)

Description: Case study evaluation

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Environmental Consultancy [Sep][PT][Frenchay][2yrs] MSc 2020-21