

ACADEMIC SERVICES

MODULE SPECIFICATION

| Part 1: Basic Data | | | | | | |
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| Module Title | Environmental Protection | | | | | |
| Module Code | UZVSL8-30-2 | | Level | 2 | Version | 1.1 |
| Owning Faculty | Health and Life Sciences Field | | Field | Health and Social Sciences | | |
| Contributes towards | FdSc Public and Environmental Health Cert HE Public and Environmental Studies | | | | | |
| UWE Credit Rating | 30 | ETCS Credit Rating | 15 | Module Type | Standard | k |
| Pre-requisites | None | | Co- requisites | None | | |
| Excluded Combinations | None | | Module Entry requirements | | | |
| Valid From | September 2012 | | Valid to | September 2018 | | |

| CAP Approval | 20/11/2014 |
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| Date | |

| Part 2: Learning and Teaching | | | |
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| Learning Outcomes | On successful completion of this module students will be able to: Interpret the meaning of 'Environmental Protection'; the various components which comprise the function and its relationship with the other elements of Public and Environmental Health. (Component A, element 1) Examine sources physical, chemical and biological pollutants and evaluate their impacts on exposure pathways. (Component A, element 1 and Component B, element 1). Compare acquired and predictive data, to understand implications on human health and the wider environment. (Component A, element 1 and Component B, element 1). | | |
| | Undertake monitoring, measurement, sampling of pollutants | | |

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| | and accurately record and predict the likely outcomes from the results. (Component B, element 2) | | |
| | Illustrate the impacts of pollutants on human health, the effects on the environment and the implications and impacts of interventions. (Component A, element 1). | | |
| | In addition the educational experience may explore, develop, and practise <u>but not formally discretely assess</u> the following: | | |
| | Group and collaborative workDevelop knowledge and expertise of research | | |
| Syllabus Outline | Principles of Hearing and Sound Propagation. Examination of sources and impacts of Noise and their effects. Measurement of Sound and interpretation of results. Determination of health impacts of noise. Examination of methods of control and understanding and assessments of impacts. | | |
| | History of Pollution Control leading to an outline of the current regulatory regime. | | |
| | Nature, sources and types of Air Pollution – smoke, gaseous, particulates, dust odour. Methods of measurement and control. Effects on human health and the environment. | | |
| | Sources of Water Pollution. Methods of sampling and interpretation of analytical results. Prevention and control of water pollution. Bathing and recreational water quality. Sustainable Urban Drainage systems. Potable water and private water supplies. | | |
| | Nature, sources and remediation of Land Pollution. Consideration of the differing elements of the Contaminated Land Regime. Understanding and establishing source- receptor pathways and control measures. | | |
| | Approaches to waste management. Importance of the Waste Management Hierarchy. Waste collection and treatment processes. Environmental and Public Health impacts of waste management. Organisation and management of waste operations. | | |
| Contact Hours/Scheduled Hours | 300 hours in total 102 hours scheduled learning | | |
| 110015 | Scheduled learning will typically include lectures, seminars, practical workshops and demonstrations, external visits and an interactive forum. All students are expected to attend a series of tutorials. | | |
| Teaching and Learning Methods | Introductory lectures are supported by seminars, case studies, visits and practical workshops. 300 hours study time of which 102 hours will represent | | |

| | scheduled learning. 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. Student study time will be organised each week with a series of both essential and further readings and preparation for practical workshops. It is suggested that preparation for lectures, practical workshops and seminars will take 4 hours per week with a further expectation of 24 hours preparation for Poster defence, 24 hours used in essay assignment planning and completion and 30 hours study in preparation for the written examination. This module will be taught across both semesters on one day per week allowing both full and part time routes to be timetabled effectively. |
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| Reading Strategy* | Access and Skills The development of literature searching skills is supported by a Library seminar provided within the first semester and by the Graduate Development Programme embedded in Study Skills and Tutorial entitlement. Additional support is available through the Library Plus Services and via Moodle web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. In addition additional academic study skills support is available via the HE Drop-in sessions. |
| | All students will be encouraged to make use of the print and electronic resources available to them through membership of both the college and the university. These include a range of electronic journals and a wide variety of resources available through web sites and information gateways. Weston College Library's web pages provide access to subject relevant resources and to the library catalogue as well as signposting the University Library's web pages. Many resources can be accessed remotely. |
| | This guidance will be available in the programme handbook, module handbook and via module information on Moodle. |
| | Essential reading: Any essential reading will be indicated clearly, along with the method for accessing it. Students may be asked to purchase a set text, be given a print study pack or be referred to texts that are available electronically. |
| | Further reading: Students will be encouraged to read widely using the library catalogue, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. The purpose of this is to ensure students are familiar with |

| | current research, classic works and material specific to their interests from the academic literature. |
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| | All further reading resources will be available via both College and University libraries. |
| Indicative Reading List | Environmental Protection UK.(2010) Pollution Control Handbook 2009 . |
| | The Essential Guide to UK and European Pollution Control Legislation. Brighton. |
| | Hill, M.K. (2010). Understanding Environmental Pollution , Cambridge University Press. |
| | Metcalfe, S. and Derwent, D. (2005). Atmospheric Pollution and Environmental Change , Arnold Publishers, Oxford University Press. |
| | Radojevic, M. and Bashkin, V.N. (1999). Practical Environmental Analysis . The Royal Society of Chemistry, Cambridge. |
| | Smith, B. J. Peters R.J (1996). Acoustics and Noise Control (2nd Ed) Longman. |
| | Bell, S. and MacGillivray, D. (2000). Environmental Law . Blackstone Press. |
| | Zakrzewski, S. F. (2002). Environmental Toxicology , 3 rd Edition, Oxford University Press. |
| | Godish T, Air Quality, 3 rd Edition, Lewis Publishers 1997 |
| | O' Neill P, Environmental Chemistry, Chapman & Hall |
| | Kiely, G. (1997). Environmental Engineering, McGraw-Hill. |
| | Tebbutt TH, Principles of Water Quality Control , 4 th Edition, Pergamon 1998 |
| | Recommended Journals: Environmental Pollution The Science of the Total Environment The ENDS Report Useful websites: |
| | The UK National Air Quality Information Archive web page: The Atmospheric Research and Information Centre: The DEFRA Environmental protection page: The Environment Agency web page: <u>On-line Courses</u> http://www.geog.le.ac.uk/cti/ |

| | Part 3: A | ssessment | | |
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| Assessment Strategy | A range of assessm that learners can m presented in this m transferable skills e Examination: A set students to apply fi unseen scenarios. Essay: An extender engage with both th an intervention with Practical Assessme | Assessment nent techniques will be en neet the breadth of learnin odule alongside the ability e.g. communication skills. of questions will be desig rst principles of their acad d piece of writing encoura ne essential and the furthe nin the field of environment ent: Viva Voca of the mon environment and a written | g outcome to demon ned to allo emic study ging stude r reading t ital protecti | s strate w to nts to to justify on. |
| - | Opportunities for formative assessment exist for each of the assessment strategies used. Verbal feedback is given and all students will engage with personalised tutorials setting SMART targets as part of the programme design. | | | |
| element | | Component A, | | |
| % weighting between only) | components A and | B (Standard modules | A: 50% | B: 50% |
| First Sit | | | | |
| Component A (control Description of each e | , | | Elen weig | nent hting |
| 1. Examination (2 | hours) FINAL ASSE | SSMENT | 100 | 0% |
| Component B Description of each element | | Element weighting | | |
| 1. Essay (1500 wo | rds) | | 70 | 1% |
| 2. Viva | | | 30 | 1% |
| | | | | |
| Resit (further attenda | nce at taught class | es is not required) | | |

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| Component A (controlled conditions) | | Element |
| Description of each element | | weighting |
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| 1. Examination (2 hours) FINAL ASSESSMENT | 100% |
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| Component B Description of each element | Element weighting |
| 1. Essay (1500 words) | 70% |
| 2. Viva | 30% |
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If a student is permitted an **EXCEPTIONAL RETAKE** of the module the assessment will be that indicated by the Module Description at the time that retake commences.