

Title of Programme: MSc Environmental Management

Programme Code: HHEM

# Programme Specification

This programme specification is relevant to students entering:  
25 September 2023

Associate Dean of School (Academic Quality Assurance):  
Stefanie Schmeer

Signature:



A programme specification is a collection of key information about a programme of study (or course). It identifies the aims and learning outcomes of the programme, lists the modules that make up each stage (or year) of the programme, and the teaching, learning and assessment methods used by teaching staff. It also describes the structure of the programme, its progression requirements and any programme-specific regulations. This information is therefore useful to potential students to help them choose the right programme of study, to current students on the programme, and to staff teaching and administering the programme.

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## Summary of amendments to the programme

Date	Section	Amendment
1/8/22	1A & B	Amendments made to Programme Rationale and Educational Aims
3/8/22	1C	Amendments made to Programme Learning Outcomes
10/10/22	D	Optional transport modules added to EM pathway
25/10/22	D	Study Skills module changed to two-semester module

If you have any queries regarding the changes please email [AQO@herts.ac.uk](mailto:AQO@herts.ac.uk)

# Programme Specification MSc Environmental Management

This programme specification (PS) is designed for prospective students, enrolled students, academic staff and potential employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the teaching, learning and assessment methods, learning outcomes and content for each module can be found in Definitive Module Documents (DMDs) and Module Guides.

## Section 1

<b>Awarding Institution/Body</b>	University of Hertfordshire
<b>Teaching Institution</b>	University of Hertfordshire
<b>University/partner campuses</b>	College Lane
<b>Programme accredited by</b>	IEMA, CIWEM (awaiting re-accreditation)
<b>Final Award (Qualification)</b>	MSc
<b>All Final Award titles (Qualification and Subject)</b>	MSc Environmental Management MSc Water and Environmental Management MSc Environmental Management for Agriculture
<b>FHEQ level of award</b>	7

### A. Programme Rationale

The programme has been developed in recognition of the increasing legislative, economic and political drivers for improvement in environmental performance for all organisations, including agriculture. It provides specialist training and education in the management of natural resources and environmental impacts. The programme focuses on the environmental management requirements of organisations, government regulations and communities that aim to protect and enhance the environment, meet the requirements of sustainable development goals, and contribute to the adaptation to, and mitigation of, climate change impacts.

This flexible programme is designed to recruit graduates aiming to become professionals in environmental management, or practitioners with environmental management responsibilities, who wish to gain environmental management qualifications. The programme offers the following pathways that are designed to serve the needs of a range of organisations and businesses globally:

- Environmental Management (EM)
- Environmental Management for Agriculture (EMAG)
- Water and Environmental Management (WEM)

The features which distinguish this programme from most in other UK institutions are:

- Successful students on all pathways can become graduate members of the Institute of Environmental Management and Assessment (IEMA), and the Chartered Institution of Water and Environmental Management (CIWEM, awaiting re-accreditation).
- Block delivery of teaching in short periods (typically 2-3 days) per module, followed by tutorials, independent self-directed learning and assignments which are completed in the following 8-10 weeks. This mode of delivery has been developed to suit full-time and part-time students who are studying alongside employment.
- Flexibility to start in either September or January, and to study full-time or part-time.
- The programme offers a broad range of modules within 3 pathways, enabling students to tailor their programme of study towards their individual career aspirations and their professional needs.
- Many modules offer formative feedback on assignments, as well as a variety of assessment styles, allowing students to develop and hone their skills during the course.
- The University of Hertfordshire has its own unique field station at Bayfordbury, as well as impressive laboratory facilities and learning resources centres at its College Lane Campus and its de Havilland Campus in Hatfield.

- Many modules include teaching by expert visiting lecturers, practitioners engaged in environmental management in businesses or research centres, who bring examples of current practice, research and expertise to modules.

## B. Educational Aims of the Programme

### Diversity and Inclusion

Our programmes are purposefully designed to enable all students to engage meaningfully with the curriculum by being accessible and representative. We will support students to shape their learning experience, removing barriers and enabling them to succeed. The curriculum explicitly includes multiple and representative perspectives, valuing collective identities and individual diversity. Learning, teaching and assessment activities help students to understand how they can enhance outcomes both for themselves and for others. All students belong to a learning community, and during their studies we really want to hear their voices, encourage them to listen to others, and express themselves.

The programme has been devised in accordance with the University's graduate attributes of programmes of study as set out in [UPR TL03](#).

### Additionally this programme aims to:

- Provide students with knowledge, understanding and skills to apply the principles of sustainable development to the management of global sites and organisations.
- Provide students with the knowledge and understanding to equip them to function as professionals to improve the environmental, social, and ethical performance of organisations, policies, processes, products, and services.
- Provide students with the knowledge and understanding to equip them to manage the environmental aspects of sites and natural resources.
- Provide education and training that is accredited by relevant professional bodies.

### Graduate Attributes

Our graduates will be capable and professional, creative and enterprising, and will build their social and global awareness throughout. In addition to their subject expertise and proficiency, as a University of Hertfordshire graduate, they will be:

- Professionally focused
- Globally minded
- Sustainability driven
- Digitally capable and confident
- Inclusive and collaborative
- Evidence based and ethical

## C. Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014) and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education (2021) have been used as a guiding framework for curriculum design.

*Pathway specific Learning Outcomes are in bold italics*

### MSc Environmental Management (EM) pathway

Knowledge and Understanding:	Teaching/learning methods & strategies	Assessment
A1- Understand and critically discuss how the concept of sustainability underpins	Throughout, the learner is encouraged to undertake independent study both to	Knowledge and understanding are assessed through A1, A2, A3, A5, A10,

<p>environmental performance and how the application of environmental management systems can result in a reduction in the environmental impact (including climate change) of an activity or organisation.</p> <p>A2- Understand and use the full range of environmental management tools and methods and to assess how they can be used to enhance environmental performance.</p> <p>A3- Understand in the global context the role of international conventions and how environmental legislation and regulation are used to improve overall environmental performance both globally and locally.</p> <p>A4- Critically discuss the implementation of ISO 14001 and the relationship with the ISO14000 series, and ISO 9000 and be able to explain and apply environmental audit systems to assess environmental performance.</p> <p>A5- Apply the skills required and understand the implementation of environmental management systems and Corporate Social Responsibility (CSR) in order to justify and effectively manage change in organisations and enterprises to achieve environmental benefits.</p> <p>A6- Apply the principles and practices of environmental management to a specific environmental research project.</p> <p>A7- Critically select and apply a range of appropriate research tools and techniques, to an</p>	<p>supplement and consolidate what is being taught / learnt and to broaden their individual knowledge and understanding of the subject.</p> <p>A1, A2, A3, A5, A10, A11 are taught through blended learning (intensive block teaching and with supporting teaching materials on the virtual learning environment (Studynet/Canvas) and reinforced through practical exercises.</p> <p>Acquisition of A1 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of A2 is introduced through lectures and workshops in Environmental Management Tools and Methods module and is also dealt with in other modules.</p> <p>Acquisition of A3 is introduced through lectures and workshops in Environmental Policy and Governance module and is also dealt with in other modules.</p> <p>A4 is taught through “hands on” practice in the Foundation in Environmental Auditing module and is also dealt with in other modules.</p> <p>Acquisition of A5 is introduced through lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>A6 &amp; A7 are taught through tutorials in Research Methods and the continued relationship with the project supervisor in the Research Methods module and the Research Project module for each pathway.</p> <p>A9 is introduced in the Sustainability and Environmental Systems module and is also dealt with in the Sustainable Energy, Environmental Management Systems Implementation, and other modules.</p>	<p>A11 which are outcomes for all pathways assessed through a range of written assignments.</p> <p>A4 is assessed through groupwork and an examination.</p> <p>A6 &amp; A7 are assessed through written reports and seminars.</p>
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<p>environmental research project.</p> <p>A8- Not Applicable (WEM only)</p> <p>A9- Understand the concepts of climate change, and energy management and their impact on reporting environmental performance through EMS</p> <p>A10- Critically discuss the theory and practice of environmental auditing, including waste management.</p> <p>A11- Appreciate the principles of ecology and the role they play in underpinning environmental performance.</p> <p><b>A12- Students will be able to apply the philosophy and concepts of environmental management to a wide variety of sites and organisations. (EM pathway specific)</b></p> <p>A13- Not Applicable (EMAG only)</p>	<p>A10 is taught through Foundation in Environmental Auditing, and Integrated Waste and Pollution Management and other modules.</p> <p>A11 is introduced in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</p>	<p>A9 is assessed through written reports.</p> <p>A10 is assessed through examination Foundation in Environmental Auditing (FEA) and written reports.</p> <p>A11 is assessed through reports.</p> <p>A12 is assessed through written reports.</p>
Intellectual skills:	Teaching/learning methods & strategies	Assessment
<p>B1- Evaluate the environmental impacts of organisations, processes, products, and services on the environment.</p> <p>B2- Assess Environmental Risks associated with new developments and projects.</p> <p>B3- Interpret the results of environmental assessments of sites and natural resources</p> <p>B4- Develop environmental policies, strategies, and management systems to improve the environmental performance of enterprises and organizations</p> <p>B5- Select economic analysis techniques as appropriate to implementing</p>	<p>Intellectual skills are developed through the blended learning approach in each module.</p> <p>Throughout, the learner is encouraged to develop intellectual skills further by independent study.</p> <p>Acquisition of B1 and B3 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of B2 is covered through lectures and workshops in several modules.</p> <p>Acquisition of B4 is introduced through lectures and workshops in the Sustainability and Environmental Systems module</p>	<p>Intellectual skills are assessed through coursework and examination.</p>

<p>environmental management.</p> <p>B6- Appraise and critically evaluate their own and the work of others to reach an appropriate professional standard.</p> <p>B7- Relate the concepts underpinning sustainable development to environmental management in organisations, and enterprises.</p> <p>B8- Undertake research and apply the knowledge gained to new situations to improve environmental performance of organisations, and enterprises</p> <p><b>B9- Synthesise and apply the concepts, theories and principles associated with mitigating a broad range of environmental management issues, to build resilience in enterprises and organisations (EM pathway specific)</b></p> <p>B10- evaluate approaches and issues associated with corporate environmental strategies, systems, and responsibilities</p> <p>B11- Not applicable (WEM pathway only)</p> <p>B12- Not applicable (EMAG pathway only)</p>	<p>and is also dealt with in other modules.</p> <p>Acquisition of B5 and B6 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>Acquisition of B7 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of B8 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>B9 is specific for the EM pathway, taught through lectures and practical exercises, in the choice modules.</p> <p>B10 is taught in the Understanding and Managing Change and Environmental Management Systems Implementation modules.</p> <p>Throughout, the learner is encouraged to develop intellectual skills further by independent study</p>	
Practical skills:	Teaching/learning methods & strategies	Assessment
<p>C1- Apply environmental management methods and tools in order to assess the environmental impact of an enterprise or organisation.</p> <p>C2- Apply practical environmental assessment techniques</p> <p>C3- Design, develop, carry out and report on environmental investigations</p>	<p>Practical skills are developed through the blended learning for each module.</p> <p>A feature of this MSc is to provide practical experience in environmental auditing and also through a wide range of practical techniques acquired in optional module.</p> <p>C3 is developed through the Research Methods and Individual Research Project modules.</p>	Practical skills are assessed through assignments and examination

<p>C4- Apply various economic tools to the implementation of environmental management initiatives</p> <p>C5- Apply the knowledge gained from research on environmental management systems.</p> <p><b>C6- Use environmental management tools in a variety of applications (EM pathway specific)</b></p> <p>C7- construct and communicate an effective business case for adopting an environmental management system and CSR strategy</p> <p>C8- Not applicable (WEM pathway only)</p> <p>C9- Not applicable (EMAG pathway only)</p>	<p>C4 is taught in Understanding and Managing Change.</p> <p>C6 is specific to the EM pathway and taught in the option modules and the Research Project.</p> <p>C7 is taught in the Environmental Management Tools and Methods, Environmental Management Systems Implementation, and Understanding and Managing Change modules.</p>	<p>C6 is assessed through written reports.</p> <p>C7 is assessed through written assignments.</p>
Transferable skills:	Teaching/learning methods & strategies	Assessment
<p>D1- Apply appropriate Information Technology and Information Management skills</p> <p>D2- Present oral and/or written analysis of case studies.</p> <p>D3- Defend the findings of his/her work</p> <p>D4- Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks</p> <p>D5- Present findings of the project in a style and quality appropriate to a research report at Level 7.</p> <p>D6- Work effectively in small groups and reflect on the learning experience.</p>	<p>The basics of the transferable skills D1 to D6 are taught in Study Skills and Research Methods and developed in other modules.</p>	<p>Transferable skills are assessed through assignments, examination, and the research report. Additional assessment of group work is carried out in compulsory modules for all pathways.</p>

## MSc Water and Environmental Management (WEM) pathway

Knowledge and Understanding:	Teaching/learning methods & strategies	Assessment
A1- Understand and critically discuss how the concept of sustainability underpins environmental performance and how the	Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to	Knowledge and understanding are assessed through A1, A2, A3, A5, A10, A11 which are outcomes for all

<p>application of environmental management systems can result in a reduction in the environmental impact (including climate change) of an activity or organisation.</p> <p>A2- Understand and use the full range of environmental management tools and methods and to assess how they can be used to enhance environmental performance.</p> <p>A3- Understand in the global context the role of international conventions and how environmental legislation and regulation are used to improve overall environmental performance both globally and locally.</p> <p>A4- Critically discuss the implementation of ISO 14001 and the relationship with the ISO14000 series, and ISO 9000 and be able to explain and apply environmental audit systems to assess environmental performance</p> <p>A5- Apply the skills required and understand the implementation of environmental management systems and CSR in order to effectively manage change in organisations and enterprises to achieve environmental benefits.</p> <p>A6- Apply the principles and practices of environmental management to a specific environmental research project.</p> <p>A7- Critically select and apply a range of appropriate research tools and techniques, to an environmental research project.</p> <p><b>A8- Display knowledge and understanding of the</b></p>	<p>broaden their individual knowledge and understanding of the subject.</p> <p>A1, A2, A3, A5, A10, A11 are outcomes for all three pathways taught through blended learning and practised through practical exercises.</p> <p>Acquisition of A1 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of A2 is introduced through lectures and workshops in the Environmental Management Tools and Methods module and is also dealt with in other modules.</p> <p>Acquisition of A3 is introduced through lectures and workshops in the Environmental Policy and Governance module and is also dealt with in other modules.</p> <p>A4 is taught through “hands on” practice in the Foundation in Environmental Auditing module and is also dealt with in other modules.</p> <p>Acquisition of A5 is introduced through lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>A6 &amp; A7 are taught through tutorials in Research Methods and the continued relationship with the project supervisor in the Research Methods module and the Research Project module for each pathway.</p> <p>A8 is specific to the WEM pathway, taught through practical exercises in the Water Resources</p>	<p>pathways assessed through a range of written assignments.</p> <p>A4 is assessed through group work and an examination.</p> <p>A6 &amp; A7 are assessed through written reports and seminars.</p> <p>A8 is assessed through written reports.</p>
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<p><b><i>principles of sustainable environmental management of water resources and water catchment areas, and/or understand the source, control, and management of water pollution. (WEM pathway specific)</i></b></p> <p>A9- Understand the concepts of climate change, and energy management and their impact on reporting environmental performance through EMS</p> <p>A10- Critically discuss the theory and practice of environmental auditing, including waste management.</p> <p>A11- Appreciate the principles of ecology and the role they play in underpinning environmental performance.</p> <p>A12- Not applicable (EM pathway only)</p> <p>A13- Not applicable (EMAG pathway only)</p>	<p>and/or Water Pollution Control modules.</p> <p>A9 is introduced in Sustainability and Environmental Systems and is also dealt with in Sustainable Energy, Environmental Management, Tools and Methods and other modules.</p> <p>A10 is taught through Foundation in Environmental Auditing, and Integrated Waste and Pollution Management and other modules.</p> <p>A11 is introduced in Sustainability and Environmental Systems and is also dealt with in other modules</p> <p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</p>	<p>A9 is assessed through written reports.</p> <p>A10 is assessed through examination (FEA) and written reports.</p> <p>A11 is assessed through reports.</p>
Intellectual skills:	Teaching/learning methods & strategies	Assessment
<p>B1- Evaluate the environmental impacts of organisations, processes, products, and services on the environment.</p> <p>B2- Assess Environmental Risks associated with new developments and projects.</p> <p>B3- Interpret the results of environmental assessments of sites and natural resources</p> <p>B4- Develop environmental policies, strategies, and management systems to improve the environmental performance of enterprises and organizations</p> <p>B5- Select economic analysis techniques as appropriate to</p>	<p>Intellectual skills are developed through the blended learning programme in each module.</p> <p>Throughout, the learner is encouraged to develop intellectual skills further by independent study.</p> <p>Acquisition of B1 and B3 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of B2 is covered through lectures and workshops in the several modules.</p> <p>Acquisition of B4 is introduced through lectures and workshops in the Sustainability and Environmental Systems module</p>	<p>Intellectual skills are assessed through the assignments and examination.</p>

<p>implementing environmental management.</p> <p>B6- Appraise and critically evaluate their own and others work to reach an appropriate professional standard.</p> <p>B7- Relate the concepts underpinning sustainable development to environmental management in organisations, and enterprises</p> <p>B8- Undertake research and apply the knowledge gained to new situations to improve environmental performance of organisations, and enterprises</p> <p>B9- Not applicable (EM pathway only)</p> <p>B10- Evaluate approaches and issues associated with corporate environmental strategies, systems, and responsibilities</p> <p><b>B11- Critically appraise water resource and wastewater management and evaluate alternative proposals (WEM pathway specific)</b></p> <p>B12- Not applicable (EMAG pathway only)</p>	<p>and is also dealt with in other modules.</p> <p>Acquisition of B5 and B6 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>Acquisition of B7 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of B8 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p> <p>B10 is taught in the Understanding and Managing Change, and Environmental Management Systems Implementation modules.</p> <p>B11 is specific to the WEM pathway, taught through exercises in the Water Resources and Water Pollution Control modules.</p> <p>Throughout, the learner is encouraged to develop intellectual skills further by independent study</p>	
Practical skills:	Teaching/learning methods & strategies	Assessment
<p>C1- Apply environmental management methods and tools in order to assess the environmental impact of an enterprise or organisation.</p> <p>C2- Apply practical environmental assessment techniques</p> <p>C3- Design, develop, carry out and report on environmental investigations</p>	<p>Practical skills are developed through the blended learning for each module.</p> <p>A unique feature of this MSc is to teach through practical field experience in the Water Resources, Water Pollution Control, Agriculture and Environment modules.</p> <p>C7 is acquired through the Environmental Management</p>	<p>Practical skills are assessed through assignments and examination</p> <p>C7 is assessed through written assignments</p>

<p>C4- Apply various economic tools to the implementation of environmental management initiatives</p> <p>C5- Apply the knowledge gained from research on environmental management systems.</p> <p>C7- Construct and communicate an effective business case for adopting an environmental management system and CSR strategy</p> <p><b>C8- Undertake fieldwork and/or laboratory work in relation to water resources and water pollution control (WEM pathway specific)</b></p> <p>C9- Not applicable (EMAG pathway only)</p>	<p>Tools and Methods, Environmental Management Systems Implementation, Understanding and Managing Change modules.</p> <p>C8 is specific to the WEM pathway and taught through fieldwork and/or laboratory work</p>	<p>C8 is assessed through written reports.</p>
Transferable skills:	Teaching/learning methods & strategies	Assessment
<p>D1- Apply appropriate Information Technology and Information Management skills</p> <p>D2- Present oral and/or written analysis of case studies.</p> <p>D3- Defend the findings of his/her work</p> <p>D4- Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks</p> <p>D5- Present findings of the project in a style and quality appropriate to a research report at Level 7.</p> <p>D6- Work effectively in small groups and reflect on the learning experience.</p>	<p>The basics of the transferable skills D1 to D6 are taught in Study Skills and Research Methods and developed in other modules.</p>	<p>Transferable skills are assessed through assignments, examination, and the research report. Additional assessment of group work is carried out on specific modules which are compulsory for all pathways.</p>

## MSc Environmental Management and Agriculture (EMAG) Pathway

Knowledge and Understanding:	Teaching/learning methods & strategies	Assessment
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<p>A1- Understand and critically discuss how the concept of sustainability underpins environmental performance and how the application of environmental management systems can result in a reduction in the environmental impact (including climate change) of an activity or organisation.</p>	<p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learned and to broaden their individual knowledge and understanding of the subject.</p>	<p>Knowledge and understanding are assessed through A1, A2, A3, A5, A10, A11 which are outcomes for all pathways assessed through a range of written assignments.</p>
<p>A2- Understand and use the full range of environmental management tools and methods and to assess how they can be used to enhance environmental performance.</p>	<p>A1, A2, A3, A5, A10, A11 which are outcomes for all three pathways are taught through blended learning (intensive short courses and teaching materials on the virtual learning environment (StudyNet/Canvas) and practised through practical exercises.</p>	
<p>A3- Understand in the global context the role of international conventions and how environmental legislation and regulation are used to improve overall environmental performance both globally and locally.</p>	<p>Acquisition of A1 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p>	
<p>A4- Critically discuss the implementation of ISO 14001 and the relationship with the ISO14000 series, and ISO 9000 and be able to explain and apply environmental audit systems to assess environmental performance</p>	<p>Acquisition of A2 is introduced through lectures and workshops in Environmental Management Tools and Methods module and is also dealt with in other modules.</p>	<p>A4 is assessed through group work and an examination.</p>
<p>A5- Apply the skills required and understand the implementation of environmental management systems and CSR in order to effectively manage change in organisations and enterprises to achieve environmental benefits.</p>	<p>Acquisition of A3 is introduced through lectures and workshops in Environmental Policy and Governance module and is also dealt with in other modules.</p>	
<p>A6- Apply the principles and practices of environmental management to a specific environmental research project.</p>	<p>A4 is taught through “hands on” practice in the Foundation in Environmental Auditing module and is also dealt with in other modules.</p>	
<p>A7- Critically select and apply a range of appropriate research tools</p>	<p>Acquisition of A5 is introduced through lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.</p>	<p>A6 &amp; A7 are assessed through written reports and seminars.</p>
	<p>A6 &amp; A7 are taught through tutorials in Research Methods and the continued relationship with the project supervisor in the Research Methods module and the Research Project module for each pathway.</p>	

<p>and techniques, to an environmental research project.</p> <p>A8- Not applicable (WEM pathway only)</p> <p>A9- Understand the concepts of climate change, and energy management and their impact on reporting environmental performance through EMS</p> <p>A10- Critically discuss the theory and practice of environmental auditing, including waste management.</p> <p>A11- Appreciate the principles of ecology and the role they play in underpinning environmental performance.</p> <p>A12- Not applicable (EM pathway only)</p> <p><b>A13- Understand agricultural production systems in relation to food security and the trade-offs between food production and environmental impact, in order to build resilience into a variety of agricultural systems. (EMAG pathway specific).</b></p>	<p>A9 is introduced in the Sustainability and Environmental Systems module and is also dealt with in Sustainable Energy, Environmental Management Systems Implementation, and other modules.</p> <p>A10 is taught through Foundation in Environmental Auditing, and Integrated Waste and Pollution Management and other modules.</p> <p>A11 is introduced in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>A13 is specific to the EMAG pathway and is taught in the specialist modules Integrated Farm Management, and Integrated Crop Protection.</p> <p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learned and to broaden their individual knowledge and understanding of the subject.</p>	<p>A9 is assessed through written reports.</p> <p>A10 is assessed through examination (FEA) and written reports.</p> <p>A11 is assessed through reports.</p> <p>A13 is assessed through written reports.</p>
Intellectual skills:	Teaching/learning methods & strategies	Assessment
<p>B1- Evaluate the environmental impacts of organisations, processes, products, and services on the environment.</p> <p>B2- Assess Environmental Risks associated with new developments and projects.</p> <p>B3- Interpret the results of environmental assessments of sites and natural resources</p> <p>B4- Develop environmental policies, strategies, and management systems to improve the environmental performance of</p>	<p>Intellectual skills are developed through blended learning in each module.</p> <p>Throughout, the learner is encouraged to develop intellectual skills further by independent study.</p> <p>Acquisition of B1 and B3 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.</p> <p>Acquisition of B2 is covered through lectures and workshops in the several modules.</p>	<p>Intellectual skills are assessed through the assignments and examination.</p>

enterprises and organizations	Acquisition of B4 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.	
B5- Select economic analysis techniques as appropriate to implementing environmental management.	Acquisition of B5 and B6 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.	
B6- Appraise and critically evaluate their own and others work to reach an appropriate professional standard.		
B7- Relate the concepts underpinning sustainable development to environmental management in organisations, and enterprises.	Acquisition of B7 is introduced through lectures and workshops in the Sustainability and Environmental Systems module and is also dealt with in other modules.	
B8- Undertake research and apply the knowledge gained to new situations to improve environmental performance of organisations, and enterprises	Acquisition of B8 is covered in detail in lectures and workshops in the Understanding and Managing Change module and is also dealt with in other modules.	
B9- Not applicable (EM pathway only)		
B10- Evaluate approaches and issues associated with corporate environmental strategies, systems, and responsibilities	B10 is taught in the Understanding and Managing Change, and Environmental Management Systems Implementation modules.	
B11- Not applicable (WEM pathway only)		
<b>B12- Using the principles and practices of environmental management, design an integrated farm-based development plan using SMART objectives (i.e., objectives that are Specific, Measurable, Achievable, Relevant, Time-bound) to an environmental agricultural issue. (EMAG pathway specific)</b>	B12 is specific to the EMAG pathway and is taught and developed by directed independent study in the Integrated Farm Management, Integrated Crop Protection and Agriculture and Environment modules.  Throughout, the learner is encouraged to develop intellectual skills further by independent study	
Practical skills:	Teaching/learning methods & strategies	Assessment
C1- Apply environmental management methods and tools in order to assess the environmental impact of an enterprise or organisation.	Practical skills C1 to C5 are developed through the blended learning for each module. A unique feature of this MSc is to teach through practical field experience in the Water	Practical skills are assessed through assignments and examination

<p>C2- Apply practical environmental assessment techniques</p> <p>C3- Design, develop, carry out and report on environmental investigations</p> <p>C4- Apply various economic tools to the implementation of environmental management initiatives</p> <p>C5- Apply the knowledge gained from research on environmental management systems.</p> <p>C6- Not applicable (EM pathway only)</p> <p>C7- Construct and communicate an effective business case for adopting an environmental management system and CSR strategy</p> <p>C8- Not applicable (WEM pathway only)</p> <p><b>C9- Apply models and techniques used in agricultural management. (EMAG pathway specific)</b></p>	<p>Resources, Water Pollution Control, Integrated Farm Management, Integrated Crop Protection, and Agriculture and Environment modules.</p> <p>C7 is acquired through the Environmental Management Tools and Methods, Understanding and Managing Change modules.</p> <p>C9 is specific to the EMAG pathway and taught in the specialist modules. Students on the Integrated Crop Protection module will do practical work</p>	<p>C7 is assessed through written assignments</p> <p>C9 is assessed through management plans and written reports</p>
Transferable skills:	Teaching/learning methods & strategies	Assessment
<p>D1- Apply appropriate Information Technology and Information Management skills</p> <p>D2- Present oral and/or written analysis of case studies.</p> <p>D3- Defend the findings of his/her work</p> <p>D4- Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks</p> <p>D5- Present findings of the project in a style and quality appropriate to a research report at Level 7.</p> <p>D6- Work effectively in small groups and reflect on the learning experience.</p>	<p>The basics of the transferable skills D1 to D6 are taught in Study Skills and Research Methods and developed in other modules.</p>	<p>Transferable skills are assessed through assignments, examination, and the research report. Additional assessment of group work is carried out on specific modules which are compulsory for all pathways.</p>

## D. Programme Structures, Features, Levels, Modules, and Credits

The programme is offered in full-time mode (12-15 months depending on entry point) and part-time mode (normally 2-3 years) and leads to the award of MSc. Specialist pathways are available in Environmental Management for Agriculture (EMAG) and Water and Environmental Management (WEM). A general pathway 'Environmental Management' (EM) is also available. Entry is normally at Master's level with suitable first-degree qualifications (lower second-class degree) or equivalent professional experience (see section G). The programme structure and progression information below is provided for the MSc award (Table 1a, 1b and 1c). Entry is in both Semester A and Semester B. Attendance at block teaching short course sessions is compulsory for full-time (FT) and part-time (PT) students. Tutorials (generally 2) follow the teaching and are scheduled for afternoons. All full-time students are required to attend tutorials and part-time students are invited to attend, offering parity of experience to all students on the course. However, it is acknowledged that part-time students who are in employment may find it difficult to attend and so tutorials are not compulsory for part-time students as this could limit their ability to pursue the MSc while working. Part-time students who are unable to attend the tutorials can access all tutorial teaching materials through the virtual learning environment Studynet/Canvas and may contact the lecturers / module leader by telephone or email for extra advice.

### Professional and Statutory Regulatory Bodies

The programme and pathways are in receipt of professional body accreditation from the Institute of Environmental Management and Assessment (IEMA), and we are awaiting re-accreditation from the Chartered Institution of Water and Environmental Management (CIWEM).

Continued accreditation will allow students to apply for graduate level membership of either body.

### Work-Based Learning, including Sandwich Programmes

N/A

### Programme Structure

The programme structure and progression information below (Tables 1a and 1b) is provided for the award. Any interim awards are identified in Table 1b. The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 identifies where each learning outcome is assessed.

### Table 1a Outline Programme Structure

**Mode of study** Full-time.

Full-time students start with the 7LMS2084 Sustainability and Environmental Systems and 7LMS2095 Study Skills modules.

**Entry point** Semester A and Semester B starters take the same modules. The Sustainability and Environmental Systems, Research Methods, Individual Research Project, and Study Skills modules are run in both Semester A and Semester B, to accommodate the two intakes. The other modules are run only once per academic year and are scheduled around module requirements, e.g., fieldwork.

## MSc Environmental Management (EM) pathway

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
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Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A
Environmental Management Tools and Methods	7LFS1034	15	0	0	100	0	A
Environmental Management Individual Research Project	7LFS1040	45	0	0	80	20	BC, CA

Full-time students must choose 3 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management Systems Implementation	7LMS2092	15	0	0	100	0	B
Water Resources**	7LMS2091	15	0	0	100	0	BC
Water Pollution Control**	7LMS2089	15	0	0	100	0	BC
Transport Policy, Strategy and Law***	7LMS2008	15	0	0	100	0	A
Operational Transport Planning***	7LMS2007	15	50	0	0	50	A

Note: \*This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

\*\*Either WR or WPC can be studied on this pathway, not both.

\*\*\*Either TPSL or OTP can be studied on this pathway, not both.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

## MSc Water and Environmental Management (WEM) pathway

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A

Environmental Management Tools and Methods	7LFS1034	15	0	0	100	0	A
Water and Environmental Management Individual Research Project (WEM)	7LFS1041	45	0	0	80	20	BC, CA
Water Resources	7LMS2091	15	0	0	100	0	BC
Water Pollution Control	7LMS2089	15	30	0	70	0	BC

Full-time students must choose 1 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management Systems Implementation	7LMS2092	15	0	0	100	0	B

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

## MSc Environmental Management for Agriculture (EMAG) pathway

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management for Agriculture	7LFS1045	45	0	0	80	20	BC, CA
Individual Research Project							
Integrated Farm Management	7LFS1044	15	0	0	100	0	BC
Integrated Crop Protection	7LMS0208	15	50	0	50	0	BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B
Environmental Management Tools and Methods	7LFS1034	15	0	0	100	0	A

Full-time students must choose 1 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Water Resources**	7LMS2091	15	0	0	100	0	BC
Water Pollution Control**	7LMS2089	15	30	0	70	0	BC
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

\*\*Either WR or WPC can be studied on this pathway, not both.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

#### Table 1a Outline Programme Structure (cont.)

**Mode of study** Part-time.

Part-time students must complete the same programme of modules as full-time students. The Tables below indicate the typical part-time student journey over 2 years of study. Note that if approved by the Programme Leader, and depending on timetabling constraints, there may be flexibility.

Part-time students must start with the 7LMS2084 Sustainability and Environmental Systems and 7LMS2095 Study Skills modules and then core and option modules are selected in discussion with the Programme Lead depending on the rate of study achievable with regard to the workload of the student. The second or third year of the part-time programme of study normally includes the 7LFS1029 Research Methods and Individual Research Project modules.

**Entry point** Semester A and Semester B starters take the same modules. The Sustainability and Environmental Systems, Research Methods, Individual Research Project, and Study Skills modules are run in both Semester A and Semester B, to accommodate the two intakes. The other modules are run only once per academic year and are scheduled around module requirements, e.g., fieldwork.

## MSc Environmental Management (EM) pathway

### Year 1

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A

Part-time students must choose 2 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management Systems Implementation	7LMS2092	15	0	0	100	0	B
Water Resources**	7LMS2091	15	0	0	100	0	BC
Water Pollution Control**	7LMS2089	15	0	0	100	0	BC
Transport Policy, Strategy and Law***	7LMS2008	15	0	0	100	0	A
Operational Transport Planning***	7LMS2007	15	50	0	0	50	A

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

\*\*Either WR or WPC can be studied on this pathway, not both.

\*\*\*Either TPSL or OTP can be studied on this pathway, not both.

## Year 2

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Environmental Management Tools and Methods	7LFS1034	15	0	0	100	0	A
Environmental Management Individual Research Project	7LFS1040	45	0	0	80	20	BC, CA

Part-time students must choose 1 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management Systems Implementation	7LMS2092	15	0	0	100	0	B
Water Resources**	7LMS2091	15	0	0	100	0	BC
Water Pollution Control**	7LMS2089	15	0	0	100	0	BC

Transport Policy, Strategy and Law***	7LMS2008	15	0	0	100	0	A
Operational Transport Planning***	7LMS2007	15	50	0	0	50	A

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

\*\*Either WR or WPC can be studied on this pathway, not both.

\*\*\*Either TPSL or OTP can be studied on this pathway, not both.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

## MSc Water and Environmental Management (WEM) pathway

### Year 1

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A
Water Resources	7LMS2091	15	0	0	100	0	BC
Water Pollution Control	7LMS2089	15	30	0	70	0	BC

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

### Year 2

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Environmental Management Tools and Methods	7LFS1034	15	0	0	100	0	A
Water and Environmental Management Individual Research Project (WEM)	7LFS1041	45	0	0	80	20	BC, CA

Part-time students must choose 1 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
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Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Environmental Management Systems Implementation	7LMS2092	15	0	0	100	0	B

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

## MSc Environmental Management for Agriculture (EMAG) pathway

### Year 1

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Sustainability and Environmental Systems	7LMS2084	15	0	0	100	0	A, B
Study Skills*	7LMS2095	0	0	0	P/F*	0	AB, BC
Foundation in Environmental Auditing	7LMS2085	15	50	0	50	0	A
Agriculture and Environment	7LMS2093	15	30	0	70	0	B
Integrated Farm Management	7LFS1044	15	0	0	100	0	BC
Integrated Crop Protection	7LMS0208	15	50	0	50	0	BC
Understanding and Managing Change	7LMS2094	15	0	0	70	30	B

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

### Year 2

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Research Methods	7LFS1029	15	0	0	100	0	AB, BC
Environmental Management for Agriculture	7LFS1045	45	0	0	80	20	BC, CA
Individual Research Project	7LFS1034	15	0	0	100	0	A
Environmental Management Tools and Methods							

Part-time students must choose 1 of the following optional modules:

Optional Modules Module Titles	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Integrated Waste and Pollution Management	7LMS2088	15	0	0	100	0	A
Ecology and Conservation	7LMS2090	15	0	0	100	0	C
Sustainable Energy	7LMS2086	15	0	0	100	0	C
Water Resources**	7LMS2091	15	0	0	100	0	BC
Water Pollution Control**	7LMS2089	15	30	0	70	0	BC
Environmental Policy and Governance	7LMS2087	15	0	0	100	0	A

Note: \* This module is Pass/Fail, with no numeric grade awarded. A pass in the module may be awarded if one assignment has been completed but not passed as long as all other assignments are passed.

\*\*Either WR or WPC can be studied on this pathway, not both.

The award of an MSc degree requires 180 credit points awarded at Level 7, including the Individual Research Project and a pass in the Study Skills module (7LMS2095).

**Table 1b Final and interim awards available**

The programme provides the following final and interim awards:

Final Award	Award Title	Minimum requirements	Available at end of (normally):	Programme Learning Outcomes developed (see above) <b>Pathway specific Learning Outcomes are in bold italics</b>
MSc	Environmental Management	180 credit points including at least 150 at level 7	3 Semesters	A1,A2,A3,A4,A5,A6,A7,A9,A10,A11, <b>A12</b> B1,B2,B3,B4,B5,B6,B7,B8, <b>B9</b> ,B10, C1,C2,C3,C4,C5, <b>C6</b> ,C7 D1,D2,D3,D4,D5,D6
	Water and Environmental Management			A1,A2,A3,A4,A5,A6,A7, <b>A8</b> ,A9,A10,A11 B1,B2,B3,B4,B5,B6,B10, <b>B11</b> C1,C2,C3,C4,C5,C7, <b>C8</b> D1,D2,D3,D4,D5,D6
	Environmental Management for Agriculture			A1,A2,A3,A4,A5,A6,A7,A9,A10,A11, <b>A13</b> B1,B2,B3,B4,B5,B6,B8,B10, <b>B12</b> C1,C2,C3,C4,C5,C6,C7, <b>C9</b> D1,D2,D3,D4,D5,D6
Interim Award	Award Title	Minimum requirements	Available at end of Level	Programme Learning Outcomes developed (see above) <b>Pathway specific Learning Outcomes are in bold italics</b>
Postgraduate Diploma	Environmental Management	120 credit points, including at least 60 at level 7	3 Semesters	A1,A2,A3,A4,A5,A9,A10,A11, <b>A12</b> B1,B2,B3,B4,B5,B6,B7,B8, <b>B9</b> ,B10, C1,C2,C4,C5, <b>C6</b> ,C7 D1,D2,D6
	Water and Environmental Management			A1,A2,A3,A4,A5, <b>A8</b> ,A9,A10 B1,B2,B3,B4,B5,B6,B10, <b>B11</b> C1,C2,C4,C5,C7, <b>C8</b> D1,D2,D6

Environmental Management for Agriculture		A1,A2,A3,A4,A5,A9,A10,A11, <b>A13</b> B1,B2,B3,B4,B5,B6,B8,B10, <b>B12</b> C1,C2,C4,C5,C7, <b>C9</b> D1,D2,D6
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Interim Award	Award Title	Minimum requirements	Available at end of Level	Programme Learning Outcomes developed (see above)
Postgraduate Certificate	Environmental Management	60 credit points, including at least 30 at level 7	1-2 Semesters	A1,A2,A3,A4,A5 B1,B2,B3,B4,B5 C1,C2 D1,D2

Masters and Diploma awards can be made "with Distinction" or "with Commendation" where criteria as described in [UPR AS14](#), Section D and the students' handbook are met.

## Programme-specific assessment regulations

The programme is compliant with the University's academic regulations (in particular, [UPR AS11](#), [UPR AS12/UPR AS13](#) and [UPR AS14](#)) with the exception of those listed below, which have been specifically approved by the University:

Further programme-specific regulations (requiring School-level approval) are given below:

- The 7LFS1029 Research Methods module is a prerequisite that must be passed before the Individual Research Project can be undertaken.
- A pass grade in the Individual Research Project is required to gain the award of MSc.
- All students must enrol on the 7LMS2095 Study Skills module in their first semester.
- Students must pass the 7LMS2095 Study Skills module to achieve the MSc award.

Further points of clarification and interpretation relevant to this specific programme are given below:  
None



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## **E. Management of Programme & Support for student learning**

### **Management**

The programme is managed and administered through:

- Dean of School
- An Associate Dean of School (Academic Quality)
- A Head of Department
- A Head of Subject Group
- A Programme Lead and Deputy Programme Lead who are responsible for the day-to-day programme management.
- An Admissions Tutor with specific responsibility for recruitment and selection.
- An LMS Administrator with responsibility for recording and monitoring student performance parameters.
- A central administrative service to deal with the day-to-day administration of the programme.
- Module Leaders who are responsible for individual modules.
- A Programme Committee, the membership of which includes staff and student representatives.

### **Support**

Students are supported by:

- A Programme Lead and Deputy Programme Lead to help students understand the pathway/programme structure
- A Personal Tutor to provide academic and pastoral support
- A Project Supervisor
- Student Representatives on the Programme Committee
- Induction sessions at the start of the taught programme
- Embedded English and Study Skills non-credit rated module
- A GIS laboratory and specialist science laboratories
- Overseas Orientation
- Access to the collection of digital and print information resources
- The modern study environment in the Learning Resource Centres
- A Student Centre where students can get advice on issues including finance, University regulations, legal matters, accommodation, international students support etc.
- Office of Dean of Students including the Chaplaincy, Counselling and Nursery
- The Medical Centre
- Equality office
- University Disability Adviser
- The Students Union
- GEP Soc (Geography, Environment and Planning Student Society)
- Supporting learning materials on Studynet/Canvas module sites
- A Careers and Employment service for all current students and graduates
- A University bus service
- LMS Academic Support Unit (ASU)

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## **F. Other sources of information**

In addition to this Programme Specification, the University publishes guidance to registered students on the programme and its constituent modules:

- A dedicated programme site
- A Definitive Module Document (DMD) for each constituent module
- A Programme (or Student) Handbook
- A Module Guide for each constituent module
- University of Hertfordshire Course website: <http://www.herts.ac.uk/courses/>
- Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014)
- SEEC Credit Level Descriptors for Further and Higher Education (2021)
- External Quality Review report website
- UNISTATS website

- University of Hertfordshire Academic Quality Office
- Structure & Assessment Regulations - Undergraduate & Taught Postgraduate Programmes, UPR AS14: <http://sitem.herts.ac.uk/secreg/upr/AS14.htm>
- Learning and Teaching Policy and Graduate Attributes, UPR TL03: <http://sitem.herts.ac.uk/secreg/upr/TL03.htm>
- Admissions - Undergraduate & Taught Postgraduate Students, UPR SA03: <http://sitem.herts.ac.uk/secreg/upr/SA03.htm>
- Academic Quality, UPR AS17: <http://sitem.herts.ac.uk/secreg/upr/AS17.htm>
- Index of UPRs for students: [http://sitem.herts.ac.uk/secreg/upr\\_azlist\\_info.htm](http://sitem.herts.ac.uk/secreg/upr_azlist_info.htm)
- Information on Programme and Module External Examiners: <http://www.studynet1.herts.ac.uk/ptl/common/studentcentre.nsf/Teaching+Documents/184A221E5EECA6B780257A5C00250BA9?OpenDocument>

The [Ask Herts](#) website provides information on a wide range of resources and services available at the University of Hertfordshire including academic support, accommodation, fees, funding, visas, wellbeing services and student societies.

As a condition of registration, all students of the University of Hertfordshire are required to comply with the University's rules, regulations and procedures. These are published in a series of documents called 'University Policies and Regulations' (UPRs). The University requires that all students consult these documents which are available on-line, on the UPR web site, at: <http://www.herts.ac.uk/secreg/upr/>. In particular, [UPR SA07](#) 'Regulations and Advice for Students' Particular Attention - Index' provides information on the UPRs that contain the academic regulations of particular relevance for undergraduate and taught postgraduate students.

In accordance with section 4(5) of the Higher Education and Research Act 2017 (HERA), the UK Office for Students (OfS) has registered the University of Hertfordshire in the register of English higher education providers. The Register can be viewed at: <https://www.officeforstudents.org.uk/advice-and-guidance/the-register/the-ofs-register/>.

## G. Entry requirements

The normal entry requirements for the programme are:

- A first- or second-class Honours degree in environmental science/management, another science, geography, technology, engineering, law, economics, or a business-related subject (EM, WEM); or
- A first- or second-class Honours degree (BSc or BA) in agriculture, botany, ecology, horticulture, plant sciences, zoology, or a related subject (EMAG); or
- Holders of degrees with third class Honours or without Honours, or holders of an HNC or HND or equivalent qualification, plus a strong professional background in the areas of environmental, waste, quality, health and safety or quality management. An interview and CV are required to determine if they have the character, interpersonal skills, and potential to successfully complete the MSc programme:
  - A strong professional background may be demonstrated by relevant professional body recognition, and/or an ability to demonstrate relevant experience, skills, and knowledge.
  - This will need to be evidenced through employment references highlighting relevant past and current employment responsibilities in such areas as report writing, and also industry experience in various aspects of environmental management.

Candidates must show proficiency in English as demonstrated by an approved test: IELTS score 6.5 overall, with no element below 6, or equivalent English language qualification.

For current entry tariff point requirements, please refer to the relevant page for the Course on the University website or on the online prospectus.

The programme is subject to the University's Principles, Policies and Regulations for the Admission of Students to Undergraduate and Taught Postgraduate Programmes (in [UPR SA03](#)), along with associated procedures. These will take account of University policy and guidelines for assessing accredited prior certificated learning (APCL) and accredited prior experiential learning (APEL).

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If you would like this information in an alternative format please contact:  
[askherts@herts.ac.uk](mailto:askherts@herts.ac.uk)

If you wish to receive a copy of the latest External Examiner's Report for the programme, please email a request to [aqo@herts.ac.uk](mailto:aqo@herts.ac.uk)

## Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

learning, personal and professional development as the programme progresses. **Pathway specific Learning Outcomes are in underlined bold italics**

		Programme Learning Outcomes (as identified in section 1 and the following page)																																									
		Knowledge & Understanding													Intellectual Skills												Practical Skills								Transferable Skills								
Module Title	Module Code	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	<u>A12</u>	A13	B1	B2	B3	B4	B5	B6	B7	B8	<u>B9</u>	B10	B11	B12	C1	C2	C3	C4	C5	<u>C6</u>	C7	C8	C9	D1	D2	D3	D4	D5	D6		
<b>Compulsory modules</b>																																											
Sustainability and Environmental Systems	7LMS2084	X								X			X		X			X			X	X						X										X	X	X	X		
Environmental Policy and Governance	7LMS2087			X									X		X	X		X		X					X					X								X	X		X	X	
Foundation in Environmental Auditing	7LMS2085				X						X		X		X	X	X	X		X	X		X	X			X	X	X	X		X	X					X			X		X
Environmental Management Tools and Methods	7LFS1034	X	X							X					X	X	X						X	X			X	X	X		X	X					X						
Understanding and Managing Change	7LMS2094		X	X	X	X				X			X		X			X	X	X	X	X	X	X			X		X	X	X	X	X	X				X	X	X	X	X	
Research Methods	7LFS1029						X	X					X		X	X	X	X	X	X	X	X							X									X	X	X	X	X	
Environmental Management Individual Research Project	7LFS1040						X	X					X		X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X					X	X	X	X	X	
Study Skills	7LMS2095																																				X	X	X	X	X	X	
<b>Optional modules</b>																																											
Water Resources	7LMS2091							X					X		X		X	X		X	X		X		X		X	X	X					X			X	X	X	X			
Water Pollution Control	7LMS2089							X					X		X		X	X	X	X		X	X		X		X		X	X	X	X	X		X			X	X	X	X		
Integrated Waste and Pollution Management	7LMS2088										X		X		X	X	X		X	X	X		X				X	X		X		X					X	X	X	X			
Ecology and Conservation	7LMS2090											X	X		X	X	X	X	X	X	X	X	X				X	X	X			X						X	X	X	X		
Sustainable Energy	7LMS2086		X	X	X					X					X	X							X				X	X				X					X	X	X	X		X	
Agriculture and Environment	7LMS2093	X		X		X								X	X	X	X	X			X	X	X			X	X	X	X			X				X	X	X	X				
Environmental Management Systems Implementation	7LMS2092				X					X			X			X	X	X			X	X	X	X			X				X	X	X				X		X	X			
Operational Transport Planning	7LMS2007					X									X			X			X																	X	X		X		
Transport Policy, Strategy and Law	7LMS2008	X				X									X			X		X	X																	X	X	X	X		X

## MSc Water and Environmental Management

Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses. ***Pathway specific Learning Outcomes are in underlined bold italics***

		Programme Learning Outcomes (as identified in section 1 and the following page)																																											
		Knowledge & Understanding													Intellectual Skills												Practical Skills								Transferable Skills										
Module Title	Module Code	A1	A2	A3	A4	A5	A6	A7	<u>A8</u>	A9	A10	A11	A12	A13	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	<u>B11</u>	B12	C1	C2	C3	C4	C5	C6	C7	<u>C8</u>	C9	D1	D2	D3	D4	D5	D6				
Compulsory modules																																													
Sustainability and Environmental Systems	7LMS2084	X								X			X		X			X			X	X					X										X	X	X	X					
Environmental Policy and Governance	7LMS2087			X									X		X	X		X		X				X					X								X	X		X	X				
Foundation in Environmental Auditing	7LMS2085				X						X		X		X	X	X	X		X	X		X	X			X	X	X		X	X					X				X		X		
Environmental Management Tools and Methods	7LFS1034	X	X							X					X	X	X							X	X			X	X	X		X	X					X							
Understanding and Managing Change	7LMS2094		X	X	X	X				X			X		X			X	X	X	X	X	X	X			X		X	X	X	X	X					X	X	X	X	X			
Research Methods	7LFS1029						X	X					X		X	X	X	X	X	X	X	X							X									X	X	X	X	X			
Water and Environmental Management Individual Research Project	7LFS1041						X	X					X		X	X	X	X	X	X	X	X	X				X	X	X	X	X	X							X	X	X	X	X		
Study Skills	7LMS2095																																					X	X	X	X	X	X		
Water Resources	7LMS2091							X					X		X		X	X		X	X		X		X		X	X	X						X		X	X	X	X					
Water Pollution Control	7LMS2089							X					X		X		X	X	X	X		X	X		X		X	X	X	X	X	X			X		X	X	X	X					
Optional modules																																													
Integrated Waste and Pollution Management	7LMS2088										X		X		X	X	X		X	X	X		X				X	X		X		X					X	X	X	X					
Ecology and Conservation	7LMS2090											X	X		X	X	X	X	X	X	X	X					X	X	X			X					X	X	X	X					
Sustainable Energy	7LMS2086		X	X	X					X					X	X							X				X	X				X					X	X	X	X		X			
Agriculture and Environment	7LMS2093	X		X		X								X	X	X	X	X			X	X	X			X	X	X	X			X				X	X	X	X						
Environmental Management Systems Implementation	7LMS2092				X					X			X			X	X	X			X	X	X	X			X				X	X	X				X		X	X					

## Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

learning, personal and professional development as the programme progresses. ***Pathway specific Learning Outcomes are in underlined bold italics***

		Programme Learning Outcomes (as identified in section 1 and the following page)																																									
		Knowledge & Understanding													Intellectual Skills												Practical Skills								Transferable Skills								
Module Title	Module Code	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	<u>A13</u>	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	<u>B12</u>	C1	C2	C3	C4	C5	C6	C7	C8	<u>C9</u>	D1	D2	D3	D4	D5	D6		
<b>Compulsory modules</b>																																											
Sustainability and Environmental Systems	7LMS2084	X								X			X		X			X			X	X					X										X	X	X	X			
Foundation in Environmental Auditing	7LMS2085				X						X		X		X	X	X	X		X	X		X	X			X	X	X		X	X					X			X		X	
Environmental Management Tools and Methods	7LFS1034	X	X							X					X	X	X						X	X			X	X	X		X	X					X						
Understanding and Managing Change	7LMS2094		X	X	X	X				X			X		X			X	X	X	X	X	X	X			X		X	X	X	X	X	X				X	X	X	X	X	
Research Methods	7LFS1029						X	X					X		X	X	X	X	X	X	X	X							X									X	X	X	X	X	
Environmental Management for Agriculture Individual Research Project	7LFS1045						X	X					X		X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X					X	X	X	X	X	
Study Skills	7LMS2095																																					X	X	X	X	X	X
Agriculture and Environment	7LMS2093	X		X		X								X	X	X	X	X			X	X	X			X	X	X	X			X			X	X	X	X	X				
Integrated Crop Protection	7LMS0208	X		X											X	X		X		X		X				X					X				X	X	X	X	X				
Integrated Farm Management	7LFS1044			X										X	X		X	X			X	X	X			X	X		X						X	X	X	X	X				
<b>Optional modules</b>																																											
Water Resources	7LMS2091							X					X		X		X	X		X	X		X		X		X	X	X					X			X	X	X	X			
Water Pollution Control	7LMS2089							X					X		X		X	X	X	X		X	X		X		X	X	X	X	X	X	X		X			X	X	X	X		
Integrated Waste and Pollution Management	7LMS2088										X		X		X	X	X		X	X	X		X				X	X		X		X					X	X	X	X			
Ecology and Conservation	7LMS2090											X	X		X	X	X	X	X	X	X	X	X				X	X	X			X					X	X	X	X			
Sustainable Energy	7LMS2086		X	X	X					X					X	X							X				X	X			X						X	X	X	X		X	
Environmental Policy and Governance	7LMS2087			X									X		X	X		X		X				X				X								X	X		X	X			

## KEY TO PROGRAMME LEARNING OUTCOMES

*Pathway specific Learning Outcomes are in bold italics*

### Knowledge and Understanding

- A1. Understand and critically discuss how the concept of sustainability underpins environmental performance and how the application of environmental management systems can result in a reduction in the environmental impact (including climate change) of an activity or organisation.
- A2. Understand and use the full range of environmental management tools and methods and to assess how they can be used to enhance environmental performance.
- A3. Understand in the global context the role of international conventions and how environmental legislation and regulation are used to improve overall environmental performance both globally and locally.
- A4. Critically discuss the implementation of ISO 14001 and the relationship with the ISO14000 series, EMAS and ISO 9000 and be able to explain and apply environmental audit systems to assess environmental performance.
- A5. Apply the skills required and understand the implementation of environmental management systems and CSR in order to effectively manage change in organisations and enterprises to achieve environmental benefits.
- A6. Apply the principles and practices of environmental management to a specific environmental research project.
- A7. Critically select and apply a range of appropriate research tools and techniques, to an environmental research project.
- A8. *Display knowledge and understanding of the principles of sustainable environmental management of water resources and water catchment areas, and/or understand the source, control, and management of water pollution. (WEM pathway specific)***
- A9. Understand the concepts of climate change, and energy management and their impact on reporting environmental performance through EMS

### Practical Skills

- C1. Apply environmental management methods and tools in order to assess the environmental impact of an enterprise or organisation.
- C2. Apply practical environmental assessment techniques
- C3. Design, develop, carry out and report on environmental investigations
- C4. Apply various economic tools to the implementation of environmental management initiatives
- C5. Apply the knowledge gained from research on environmental management systems.
- C6. *Use environmental management tools in a variety of applications (EM pathway specific)***
- C7. construct and communicate an effective business case for adopting an environmental management system and CSR strategy
- C8. *Undertake fieldwork and/or laboratory work in relation to water resources and water pollution control (WEM pathway specific)***
- C9. *Apply models and techniques used in agricultural management. The ICP module includes the assessment of plant pests and diseases (EMAG pathway specific)***

A10. Critically discuss the theory and practice of environmental auditing, including waste management.

A11. Appreciate the principles of ecology and the role they play in underpinning environmental performance.

**A12. Students will be able to apply the philosophy and concepts of environmental management to a wide variety of sites and organisations. (EM pathway specific)**

**A13. Students will understand agricultural production systems in relation to food security and the trade-offs between food production and environmental impact, in order to build resilience into a variety of agricultural systems. (EMAG pathway specific).**

#### **Intellectual Skills**

B1. Evaluate the environmental impacts of organisations, processes, products, and services on the environment.

B2. Assess Environmental Risks associated with new developments and projects.

B3. Interpret the results of environmental assessments of sites and natural resources

B4. Develop environmental policies, strategies, and management systems to improve the environmental performance of enterprises and organizations

B5. Select economic analysis techniques as appropriate to implementing environmental management.

B6. Appraise and critically evaluate their own and others work to reach an appropriate professional standard.

B7. Relate the concepts underpinning sustainable development to environmental management in organisations, and enterprises.

B8. Undertake research and apply the knowledge gained to new situations to improve environmental performance of organisations, and enterprises

**B9. Synthesise and apply the concepts, theories and principles associated with mitigating a broad range of environmental management issues, to build resilience in enterprises and organisations (EM pathway specific)**

#### **Transferable Skills**

D1. Apply appropriate Information Technology and Information Management skills

D2. Present oral and/or written analysis of case studies.

D3. Defend the findings of his/her work

D4. Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks

D5. Present findings of the project in a style and quality appropriate to a research report at Level 7.

D6. Work effectively in small groups and reflect on the learning experience



B10. Evaluate approaches and issues associated with corporate environmental strategies, systems, and responsibilities

***B11. Critically appraise water resource and wastewater management and evaluate alternative proposals (WEM pathway specific)***

***B12. Using the principles and practices of environmental management,***

***design an integrated farm-based development plan using SMART objectives (i.e., objectives that are: Specific, Measurable, Achievable, Relevant, Time-bound) to an environmental agricultural issue. (EMAG pathway specific)***

### Table 3: Development of Graduate Attributes in the Constituent Modules

This map identifies where the Graduate Attributes are delivered in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the development of the Graduate Attributes (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own personal and professional development as the programme progresses. [Note that there is no requirement for the Graduate Attributes to be assessed through these modules]

D = Delivered with a strong emphasis (most modules will have some delivery of the graduate attributes)

Module Title	Module Code	Professionally Focused	Globally Minded	Sustainability Driven	Digitally capable & confident	Inclusive and collaborative	Evidenced based and Ethical
Sustainability and Environmental Systems	7LMS2084		D	D		D	D
Environmental Policy and Governance	7LMS2087	D		D		D	D
Foundation in Environmental Auditing	7LMS2085	D		D	D	D	D
Environmental Management Tools and Methods	7LFS1034	D		D	D		D
Understanding and Managing Change	7LMS2094	D	D	D		D	D
Research Methods	7LFS1029				D		D
Environmental Management Individual Research Project	7LFS1040	D	D	D	D		D
Water and Environmental Management Individual Research Project	7LFS1041	D	D	D	D		D
Environmental Management for Agriculture Individual Research Project	7LFS1045	D	D	D	D		D
Water Resources	7LMS2091	D	D	D		D	
Water Pollution Control	7LMS2089	D	D	D		D	D
Integrated Waste and Pollution Management	7LMS2088		D	D			D
Ecology and Conservation	7LMS2090	D		D			D
Sustainable Energy	7LMS2086	D	D	D		D	D
Agriculture and Environment	7LMS2093	D	D	D			D
Integrated Crop Protection	7LMS0208	D	D	D	D		D
Integrated Farm Management	7LFS1044	D	D	D			D
Environmental Management Systems Implementation	7LMS2092	D		D	D	D	D
Operational Transport Planning	7LMS2007	D		D	D	D	D
Transport Policy, Strategy and Law	7LMS2008	D		D			D
Study Skills (Non-credit rated)	7LMS2095	D			D	D	

## Section 2

### Programme management

<b>Relevant QAA subject benchmarking statements</b>	None
<b>Date of validation/last periodic review</b>	February 17
<b>Date of production/ last revision of PS</b>	March 2022
<b>Relevant to level/cohort</b>	Level 7 entering September 2023
<b>Administrative School</b>	School of Life and Medical Sciences
<b>Language of Delivery</b>	English

**Table 4 Course structure**

Course details			
Course Code	Course Description	HECOS	UCAS
LMEMM	MSc Environmental Management	100469	N/A
LMWEMM	MSc Water and Environmental Management		
LMEMAGM	MSc Environmental Management for Agriculture		