

Course Specification

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Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Architecture and Built Environment		
Course Code(s):	EA033P01UV	Full-time	12 Months
	EA033P31UV	Part-time	2 Years
UCAS Code:			
Course Title:	MSc Sustainability and Climate Change		
Hierarchy of Awards:	Master of Science Sustainability and Climate Change Postgraduate Diploma Sustainability and Climate Change Postgraduate Certificate Sustainability and Climate Change University Statement of Credit University Statement of Credit		
Language of Study:	English		
Date of DAG approval:	13/Aug/2021		
Last Review:			
Course Specification valid from:	2020/1		
Course Specification valid to:	2026/7		

Academic Staff

Course Leader:	Hamid Pouran
Head of Department:	

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Not delivered in partnership
Teaching Institution:	University of Wolverhampton
Open / Closed Course:	This course is open to all suitably qualified candidates.

Entry Requirements:

Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS)

Successful applicants will normally be required to have a 2:1 (or above) honours degree in a subject broadly related to the science, engineering or business and management branches of the environmental science and sustainability.

If you do not have a 2:1 degree but you have professional experience and can demonstrate that you have the essential knowledge required, for example you have 2.2 or equivalent with at least 3 years relevant work experience we encourage you to apply for this program.

For the students who do not have previous educational background in science and engineering student support will be provided. Where an applicant has alternative qualifications these can also be considered in discussion with the programme lead.

English competence for international applicants should be in-line with university requirements for Masters level taught degrees (IELTS 6.0 overall and 5.5 in all elements).

International Students may require approval from the Academic Technology Approval Scheme (ATAS).

Please see link for further info:

<http://www.fco.gov.uk/en/about-us/what-we-do/services-we-deliver/atas/atas-what/>

Distinctive Features of the Course:

The MSc in Sustainability and Climate Change provides a broad training in environmental science and climate change. It is specifically designed for those who plan a professional or managerial career within the context of environmental sustainability and in alignment with the UN Sustainable Development Goals (UN SDGs). The course will develop expertise in sustainable engineering, project management and environmental science, in addition to a detailed understanding of how science and engineering can be applied to address transition to a low carbon economy and sustainable development.

The primary target audience are engineers and business managers working in any industry that addressing sustainability related concerns is important, including Ministries, but the course is also of great significance to graduates and professionals seeking to increase their knowledge, skills, and qualifications of this vibrant topic. The course will assimilate information and draw conclusions from current research findings in the sustainability and climate change area allowing you to develop the conceptual and empirical knowledge,

analytical skills and understanding of the business development process.

The MSc develops a comprehensive understanding of sustainability and climate change and appreciates the current limitations and problems with the techniques in current practices, covering areas such as innovation and entrepreneurship in green techs, energy policies, engineering disciplines, presentation skills, and the UN sustainable development goals.

There is an emphasis on critical and current awareness of recent developments within the transition to a low carbon economy for example emerging renewables. You will also undertake postgraduate research work into topics relevant to your interest or future career plans. You will demonstrate the ability to apply knowledge and understanding of business and management to complex issues, both systematically and creatively, to improve business and management of different industries in alignment with sustainable development. The course at Wolverhampton is a collaboration of subject experts, applying their research and knowledge to this dynamic industry.

Educational Aims of the Course:

The MSc in Sustainability and Climate Change provides a broad training in environmental science and climate change. It is specifically designed for those who plan a professional or managerial career within the context of sustainable development and in alignment with the UN Sustainable Development Goals (UN SDGs). The course will develop expertise in sustainable engineering, project management and environmental science, in addition to a detailed understanding of how science and engineering can be applied to address transition to a low carbon economy and sustainable development.

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Intakes:

September
January

Major Source of Funding:

Office for Students (OFS)

Tuition Fees:

Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be

published on the University website.

Year	Status	Mode	Amount
2021/2	H	Full Time	£6550.00
2021/2	Overseas	Full Time	£13950.00
2021/2	H	31	£3275.00
2022/3	H	Full Time	£7995.00
2022/3	Overseas	Full Time	£14450.00
2022/3	H	31	£3998.00

PSRB:

None

Course Structure:

January (Full-time)

Module	Title	Credits	Period	Type
7EA028	Innovation and Transition to a Low Carbon Economy	20	SEM2	Core
7ET022	Research Methods and Professional Skills	20	SEM2	Core
7CN018	Financial Management of Projects	20	SEM2	Core

January (Part-time)

Module	Title	Credits	Period	Type
7CN018	Financial Management of Projects	20	SEM2	Core

January (Full-time)

Module	Title	Credits	Period	Type
7CV005	Sustainable Engineering	20	SEM1	Core
7EA027	Climate Change, Sustainability and Environmental Policy	20	SEM1	Core
7CN016	Programme Management	20	SEM1	Core
7CN034	Dissertation	60	CRYRA	Core

January (Part-time)

Module	Title	Credits	Period	Type
7EA027	Climate Change, Sustainability and Environmental Policy	20	SEM1	Core
7CV005	Sustainable Engineering	20	SEM1	Core

January (Part-time)

Module	Title	Credits	Period	Type
7ET022	Research Methods and Professional Skills	20	SEM2	Core
7EA028	Innovation and Transition to a Low Carbon Economy	20	SEM2	Core

January (Part-time)

Module	Title	Credits	Period	Type
7CN016	Programme Management	20	SEM1	Core
7CN034	Dissertation	60	CRYRA	Core

September (Full-time)

Module	Title	Credits	Period	Type
7CV005	Sustainable Engineering	20	SEM1	Core
7EA027	Climate Change, Sustainability and Environmental Policy	20	SEM1	Core
7EA028	Innovation and Transition to a Low Carbon Economy	20	SEM2	Core
7ET022	Research Methods and Professional Skills	20	SEM1	Core
7CN034	Dissertation	60	CRYRA	Core
7CN018	Financial Management of Projects	20	SEM2	Core
7CN016	Programme Management	20	SEM1	Core

September (Part-time)

Module	Title	Credits	Period	Type
7EA027	Climate Change, Sustainability and Environmental Policy	20	SEM1	Core
7CV005	Sustainable Engineering	20	SEM1	Core
7CN018	Financial Management of Projects	20	SEM2	Core

September (Part-time)

Module	Title	Credits	Period	Type
7ET022	Research Methods and Professional Skills	20	SEM1	Core
7EA028	Innovation and Transition to a Low Carbon Economy	20	SEM2	Core
7CN034	Dissertation	60	CRYRA	Core
7CN016	Programme Management	20	SEM1	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

Learning, Teaching and Assessment

Academic Regulations Exemption:

Reference Points:

There is no benchmark statement for this sector. However, the course has been developed within and informed by a number of national frameworks, notably:

1. Benchmark Statement for the Master's degrees in business and management (2007).
2. The Framework for Higher Education Qualifications (2008) – and restated in Chapter A1 of the UK Quality Code for Higher Education.
3. The Equality Act (2010) and associated University of Wolverhampton policies and procedures– to ensure that the course requirements do not discriminate directly or indirectly against any applicant or student.
4. The University of Wolverhampton Assessment Handbook.
5. Section M of the University of Wolverhampton Academic Regulations – these are the Regulations under which this Course will operate.

Overview of Assessment:

As part of the course approval process, the course learning outcomes were mapped to each of the modules forming the diet of the programme of study. This process confirmed that all course learning outcomes can be met through successful completion of the modules. This mapping applies to the final award as well as to all of the intermediate awards.

Learning Outcomes	Modules
PGCERT01 Demonstrate a systematic understanding of	

knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of your academic discipline, field of study or area of professional practice with a conceptual understanding that enables the student: - to evaluate critically current research and advanced scholarship in the discipline. - to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

PGCERT02 Demonstrate a comprehensive understanding of techniques applicable to your own research or advanced scholarship and ability to continue to advance your knowledge and understanding, and to develop new skills to a high level.

PGCERT03 Demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline.

PGCERT04 Ability to deal with complex issues both systematically and creatively, make sound judgements in the absence of complete data, and communicate your conclusions clearly to specialist and non-specialist audiences.

PGCERT05 Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level.

PGCERT06 Demonstrate the qualities and transferable skills necessary for employment requiring: - the exercise of initiative and personal responsibility decision-making in complex and unpredictable situations. - the independent learning ability required for continuing professional development.

PGDIP01 Demonstrate a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of your academic discipline, field of study or area of professional practice with a conceptual understanding that enables the student: - to evaluate critically current research and advanced scholarship in the discipline. - to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

PGDIP02 Demonstrate a comprehensive understanding of techniques applicable to your own research or advanced scholarship and ability to continue to advance your knowledge and understanding, and to develop new skills to a high level.

PGDIP03 Demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline.

PGDIP04 Ability to deal with complex issues both systematically and creatively, make sound judgements in the absence of complete data, and communicate your conclusions clearly to specialist and non-specialist audiences.

PGDIP05 Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level.

PGDIP06 Demonstrate the qualities and transferable skills necessary for employment requiring: - the exercise of initiative and personal responsibility decision-making in complex and unpredictable situations. - the independent learning ability

Modules

required for continuing professional development.

Learning Outcomes

MA01 Demonstrate in depth knowledge and understanding of specialist subject areas (e.g., environmental sustainability and climate change) while placing that subject within the wider organisational and contextual framework.

MA02 Apply a range of specialist skills relevant to the context of the business sustainability in which they may operate.

MA03 Collect, analyse, synthesise and critically appraise relevant information across a range of scientific, and managerial areas as they pertain to sustainability/environmental impacts of the projects and, evaluate decision alternatives.

MA04 Demonstrate relevant personal and interpersonal skills, including: thinking critically and being creative; being able to solve complex problems and make decisions; conduct research either individually or as part of a team and an ability to recognise and address ethical dilemmas and corporate social responsibility issues.

MA05 Demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create an interpret knowledge in the discipline.

MA06 Evaluate current research and scholarship within the general area of sustainable development and climate change, critique current research methodologies and apply this knowledge to solve original problems, make informed decisions in complex situations and take responsibility for personal development.

Modules

Teaching, Learning and Assessment:

This is a Masters-level course and so there is an emphasis on Independent learning which is at the leading edge of the discipline. You will be prepared for this independent learning in a number of ways, which include:

Lectures to provide research and practice-based comprehension of the major areas of environmental sustainability and sustainable development. Tutorials to focus understanding gained in lectures on research or case-based issues and to underpin this understanding by making it relevant to industry and business situations.

Seminars to allow exchange of ideas and knowledge with peers and with tutors and to present an opportunity to share student experiences.

Workshops to develop practical skills such as information and data-handling. Research project to enhance practical research skills, problem-solving abilities and competencies to analyse, evaluate and present research.

Guest lectures from industry and business experts in Wolverhampton.

Assessment Methods:

At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your University studies and into your working life. Your course may include a variety of assessment activities:

Written examinations (including online examinations, open and closed book examinations and quizzes)
Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)
Practical (for example, oral and video presentations, laboratory work, performances, practical skills assessment)

In the final year of your undergraduate degree, and at the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research.

Student Support:

University provided support:

Students will have available to them the provisions of the Student Charter. This will include access to:

Academic and professional staff to support learning (e.g., academic subjects' specialists, industrial and business experts, learning services expertise (particularly in academic and professional literature).

For the students who do not have previous educational background in science and engineering student support will be provided.

Pastoral and academic support services (e.g., access to the Student Offices for regulatory issues etc., to the Student Support Office, the Student Enabling Centre in addition to a named Personal Tutor. The Student Voice is important to the provision of the course and students will be expected to have

representation at the Course Committees, Student Council, etc.

This course is a multi- and inter-disciplinary course, bringing together expertise from a range of disciplines. As such there will be a wide variety of subject specific advice and assistance from across the University. This will be supported by the skills development throughout the Learning Centre. The Schools recognise that the students will have a multi- and inter-disciplinary approach to the studies and one that will involve a number of different academic conventions. In order to alleviate any potential issues surrounding this, the Course Team will convene an academics forum at least twice per year, where practices will be shared and moderated, particularly around the assessment on the course. Students will be encouraged to attend relevant industrial and professional conferences.

Course support:

At the start of your course you will be assigned a Personal Tutor who will guide you through the induction process and provide support and academic counselling throughout your course on an appointment basis. They should be able to offer you advice and guidance to help you liaise with other staff and support facilities in the School and University. The Student Support Advisers (SSA) provides academic counselling and will be accessible throughout the week on a drop-in or appointment basis to discuss timetables, requests for extensions, requests for extenuating circumstances, general concerns about study and student life and general programme planning. The SSA will act as a first point of contact in relation to leave of absence (including returning after leave), withdrawal, transferring to another course (internal and external) and changes to mode of attendance. Your Course Leader will be available thereafter for meetings by appointment to discuss leave of absence, withdrawal, transferring to another course (internal and external), changes to mode of attendance, returning after leave of absence and direct entrants.

Subject support:

Tutorials, workshops, seminars and meetings - provide the primary opportunities for students to interact with staff on topics relating to modules. All modules provide at least one of these forms of face-to-face support. Formative feedback - tutors provide personalised written feedback on most summative assessments. The mechanism for feedback from purely formative tasks varies between assessments, but will always be provided in some form. Online formative tasks often provide feedback straight away. On occasions tutors may provide generalised verbal feedback to the whole class on points relating to an assessment. Assessment and subject-based surgeries provide additional student support for subjects that students often need extra help with. They are often concentrated around the times when assessments take place. Revision sessions are provided for many modules that have exam-like tests and enable you to interact with tutors to review parts of the course. Mock exams and tests may provide opportunities to experience an examination environment before the final summative test and give you feedback on your understanding.

International Students:

The International Centre will provide pre and post entry visa and immigration support and advice on and arrange for the necessary paperwork to be submitted to UKBA. They will also provide appropriate University Induction support on arrival and be a point of contact for international students throughout their stay here. A range of social and cultural activities arranged by the International Centre will also promote the integration of international students into the whole of the University's learning community. English language support is also available through the international language centre in the University

Employability in the Curriculum:

This MSc covers very timely and crucial topics; sustainability and climate change that influence all different types of businesses and industries. This program will qualify students to apply for a variety of careers in different industries and businesses– such as sustainability management. It is targeted at the middle management level. It will also prepare students for postgraduate research at academic institutions worldwide. After completing the programme, the students could become responsible for developing, implementing and monitoring business sustainability strategies; communicating plans; formulating budgets; and marketing sustainability strategies to customers, suppliers, colleagues and consumers. The role is highly challenging and multifaceted and will reach across all areas of the organisation.

