UNIVERSITY OF WOLVERHAMPTON

Course Specification

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Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Architecture, Computing & Engineering		
Course Code(s):	MA038P01UF MA038P31UF	Full-time Part-time	12 Months 2 Years
Course Title:	MSc Engineering Management		
Hierarchy of Awards:	Master of Science Engineering Management Postgraduate Diploma Engineering Management Postgraduate Certificate Engineering Management University Statement of Credit Engineering Management		
Language of Study:	English		
Date of DAG approval:	15/Sep/2025		
Last Review:	2024/5		
Course Specification valid from:			
Course Specification valid to:	2030/1		

Academic Staff

Course Leader:	Mr Iain Lyall
Head of Department:	

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Not delivered in partnership - Standard Provision
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

Students should normally be educated to honours degree level, with a minimum of a 2.2, in Mechanical Engineering, Technology or a closely related discipline.

RPL will be granted, if appropriate, as part of the admissions process and then ratified by the FSE RPL committee. All non-standard applicants to this course will be dealt with on a case-by-case basis. In this instance, substantial professional experience can substitute for graduate status.

All first-degree qualifications in General Engineering and Physical Sciences (B Eng and B Sc) will be considered.

Normal University of Wolverhampton criteria for English will apply to students admitted to this course. This being IELTS 6.5 minimum or equivalent

Distinctive Features of the Course:

Propel Your Career with Our MSc in Engineering Management!

Join our MSc in Engineering Management, where advanced technology concepts meet essential management skills to prepare the engineering leaders of the future.

Expert-Led Education
- High-Quality Teaching: Learn from highly experienced and qualified academic staff.
- Research Excellence: Benefit from instructors who are at the forefront of their fields.
- Industry Veterans: Gain invaluable insights from professionals who have transitioned from industry to academia, bringing real-world experience and practical knowledge to your learning.

Industry-Ready Curriculum
- Professional Standards: Our course aligns with the UK Engineering Council's benchmark requirements.
- Employer-Valued Skills: Graduate with the broad expertise and relevant capabilities that employers seek.

State-of-the-Art Facilities
- Specialist Laboratories: Access top-tier equipment for Solid Mechanics, Fluid Mechanics, Subsonic and Supersonic Wind Tunnels, Advanced Materials and Composites Characterisation and more.
- Digital Manufacturing: Explore Digital Manufacturing, including Additive (Metal 3D printing) and Subtractive (CNC machining) tools.

Boost Your Employability
- Career-Ready Graduates: Equip yourself with the skills and knowledge that are highly sought after by employers worldwide.
- Lucrative Opportunities: Position yourself for success in a field that offers exciting and lucrative career prospects.

Educational Aims of the Course:

Embrace the Future of Engineering Management!

Manufacturing engineering is evolving rapidly, with demand becoming increasingly unpredictable and traditional business models often falling short. As global communication brings markets and consumers closer together, engineers must leverage new technologies to design, simulate, and manage operations more dynamically, predicting demand and eliminating waste.

Modern Engineering Management
- Digital Manufacturing: Harness the power of digital manufacturing both physically and virtually, utilizing multi-source production to cut transportation costs, reduce inventory, and lower CO2 emissions.
- Global Reach: Adapt to an ecosystem driven by shorter delivery times and lower costs, facing the exciting challenges of digital commerce, a 24/7 market, and a transient workforce.

Course Highlights
- International Focus: Our course is designed with international engineering management at its core, preparing you to make informed decisions in today's dynamic engineering environment.
- High-Level Skills: Develop the abilities to not only manage but also start, control, and grow new businesses.
- Career-Ready Graduates: Equip yourself with the skills and knowledge that are highly sought after by employers worldwide.

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
No related data			

PSRB:

None

Course Structure:

January (Full-time)

Module	Title	Credits	Period	Type
7MA046	Entrepreneurship for sustainable business	30	SEM2	Core
7MA047	Integrated Quality Management Systems	30	SEM2	Core
7MA038	MSc Dissertation	60	CRYRA	Core

January (Part-time)

Module	Title	Credits	Period	Type
7MA046	Entrepreneurship for sustainable business	30	SEM2	Core

January (Full-time)

Module	Title	Credits	Period	Type
7MA041	Project Management Tools and Techniques	30	SEM1	Core
7MA042	Industry 4.0	30	SEM1	Core

January (Part-time)

Module	Title	Credits	Period	Type
7MA041	Project Management Tools and Techniques	30	SEM1	Core

January (Part-time)

Module	Title	Credits	Period	Type
7MA047	Integrated Quality Management Systems	30	SEM2	Core
7MA038	MSc Dissertation	60	CRYRA	Core

January (Part-time)

Module	Title	Credits	Period	Type
7MA042	Industry 4.0	30	SEM1	Core

September (Full-time)

Module	Title	Credits	Period	Type
7MA041	Project Management Tools and Techniques	30	SEM1	Core
7MA042	Industry 4.0	30	SEM1	Core
7MA046	Entrepreneurship for sustainable business	30	SEM2	Core
7MA047	Integrated Quality Management Systems	30	SEM2	Core
7MA038	MSc Dissertation	60	CRYRA	Core

September (Part-time)

Module	Title	Credits	Period	Type
7MA041	Project Management Tools and Techniques	30	SEM1	Core
7MA046	Entrepreneurship for sustainable business	30	SEM2	Core

September (Part-time)

Module	Title	Credits	Period	Type
7MA042	Industry 4.0	30	SEM1	Core
7MA047	Integrated Quality Management Systems	30	SEM2	Core
7MA038	MSc Dissertation	60	CRYRA	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:

None.

Reference Points:

UK Quality Code for Higher Education

Qualifications and Credit Frameworks

Subject Benchmark Statements

University Policies and Regulations

Accreditation of Higher Education Programmes (AHEP) – Engineering Council

University Inclusive Framework

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 CLO-1 Apply a comprehensive knowledge of mathematics, statistics, natural science, and engineering principles to the solution of complex problems. Much of the knowledge will be at the forefront of the particular subject of study and informed by a critical awareness of new developments and the wider context of engineering. (M1)	
PGCERT02 CLO-2 Formulate and analyse complex problems to reach substantiated conclusions. This will involve evaluating available data using first principles of mathematics, statistics, natural science, and engineering principles, and using engineering judgement to work with information that may be uncertain or incomplete, discussing the limitations of the techniques employed. (M2)	
PGCERT03 CLO-3 Select and apply appropriate computational and analytical techniques to model complex problems, discussing the limitations of the techniques employed. (M3)	

Learning Outcomes	Modules
PGCERT04 CLO-4 Select and critically evaluate technical literature and other sources of information to solve complex problems. (M4)	
PGCERT05 CLO-5 Design solutions for complex problems that evidence some originality and meet a combination of societal, user, business, and customers' needs as appropriate. This will involve consideration of applicable health & safety, diversity, inclusion, cultural, societal, environmental, and commercial matters, codes of practice and industry standards. (M5)	
PGCERT06 CLO-6 Evaluate the environmental and societal impact of solutions to complex problems (to include the entire life-cycle of a product or process) and minimise adverse impacts (M7) CLO-7 Function effectively as an individual, and as a member or leader of a team. Evaluate effectiveness of own and team performance. (M16) CLO-8 Communicate effectively on complex engineering matters with technical and non-technical audiences, evaluating the effectiveness of the methods used. (M17)	
PGDIP01 CLO-1 Apply a comprehensive knowledge of mathematics, statistics, natural science, and engineering principles to the solution of complex problems. Much of the knowledge will be at the forefront of the particular subject of study and informed by a critical awareness of new developments and the wider context of engineering. (M1)	
PGDIP02 CLO-2 Formulate and analyse complex problems to reach substantiated conclusions. This will involve evaluating available data using first principles of mathematics, statistics, natural science, and engineering principles, and using engineering judgement to work with information that may be uncertain or incomplete, discussing the limitations of the techniques employed. (M2)	
PGDIP03 CLO-3 Select and apply appropriate computational and analytical techniques to model complex problems, discussing the limitations of the techniques employed. (M3)	
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Learning Outcomes	Modules
MA01 CLO-1 Apply a comprehensive knowledge of mathematics, statistics, natural science, and engineering principles to the solution of complex problems. Much of the knowledge will be at the forefront of the particular subject of study and informed by a critical awareness of new developments and the wider context of engineering. (M1)	
MA02 CLO-1 Apply a comprehensive knowledge of mathematics, statistics, natural science, and engineering principles to the solution of complex problems. Much of the knowledge will be at the forefront of the particular subject of study and informed by a critical awareness of new developments and the wider context of engineering. (M1)	
MA03 CLO-3 Select and apply appropriate computational and analytical techniques to model complex problems, discussing the limitations of the techniques employed. (M3)	
MA04 CLO-4 Select and critically evaluate technical literature and other sources of information to solve complex problems. (M4)	
MA05 CLO-5 Design solutions for complex problems that evidence some originality and meet a combination of societal, user, business, and customers' needs as appropriate. This will involve consideration of applicable health & safety, diversity, inclusion, cultural, societal, environmental, and commercial matters, codes of practice and industry standards. (M5)	
MA06 CLO-6 Evaluate the environmental and societal impact of solutions to complex problems (to include the entire life-cycle of a product or process) and minimise adverse impacts (M7)	

Teaching, Learning and Assessment:

Unlock Your Future with Our MSc Program!

Are you ready to take your education to the next level? Our MSc program offers a dynamic and engaging learning experience designed to prepare you for a successful career in Mechanical Engineering.

Diverse Learning Approaches
- Interactive Lectures & Seminars: Engage with traditional and innovative teaching methods.
- Hands-On Laboratory Exercises: Apply your knowledge in practical settings.
- Collaborative Research: Work with peers and academic staff on cutting-edge projects.

Industry Insights
- Seminars from Practitioners: Gain real-world insights and feedback on your projects.
- Dedicated Facilities: Utilize our state-of-the-art IT Laboratories to develop practical skills in CAD, Simulation, and Finite Element Analysis.

Comprehensive Assessment Methods
- Varied Assessments: Develop both technical abilities and transferable skills through coursework and exams.
- Practical Skills Focus: Assessments include laboratory work, report writing, and presentations.

Career-Ready Skills
- Project Management: Learn to manage projects effectively.
- Analytical Thinking: Enhance your ability to think critically and solve problems.
- Live Industrial Projects: Gain experience with real-world industrial projects.

Global Opportunities
- Wide Range of Employment: Prepare for careers in research, development, design, and more.
- Emerging Technologies: Stay ahead with knowledge in new and emerging technologies.

Research-Led Teaching
- Cutting-Edge Research: Engage with research in areas like Additive Layer Manufacture, Metal Cutting, and Finite Element Analysis.

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:

General University support:

University Learning Centres are the key source of academic information for students. Learning Centres provide physical library resources (books, journal, DVDs etc.) and offer a range of study areas to allow students to study in the environment that suit them best: Social areas, quiet and silent areas. Learning Centres also provide access to wide range of online information sources, including eBooks, e-Journals, and subject databases.

Learning Centres also provide students with academic skills support via the Skills for Learning programme. Students on campus can attend workshops or ask for one-to-one help on a range of skills such as academic writing and referencing. Students can access a range of online skills material at: www.wlv.ac.uk/lib/skills

The University Student Support website offers advice on a variety of matters (careers, counselling, student union advice, etc.) Students can also access these services by booking appointment with the SU, careers, counselling services, etc.

Course Specific Support

Each student will be allocated a personal tutor and will be expected to make contact at regular periods throughout their study. In addition, there is a course leader in place that will advise on day-to-day course matters that may arise.

University Learning Centres are the key source of academic information for students providing access to:

Physical library resources (books, journal, DVDs etc.). Study areas to allow students to study in the environment that suits them best: Social areas, quiet and silent areas. A wide range of online information sources, including eBooks, e-journals, and subject databases. Academic skills support via the Skills for Learning programme. Students on campus can attend workshops or ask for one-to-one help on a range of skills such as academic writing and referencing. Dedicated Subject Pages to enable you to explore key online information sources that are recommended for their studies.

Leave of Absence: The University allows breaks in learning of up to two years and there is a process for applying for a leave of absence, which can be accessed through your E:Vision account. Initially you will need to apply for the leave of absence, which could be for medical, parental, or personal reasons. A short-term absence, such as annual leave, must not be recorded as a break. The course leader will consider, and where appropriate agree, the leave of absence application. A return date will be identified

and agreed for a suitable point in the programme. Additional course fees may be incurred as a result of a leave of absence, and you are advised to discuss this with the Faculty Student Services team prior to application.

Employability in the Curriculum:

The course is aimed at students who wish to undertake a career in mechanical engineering administration and management. The examples and case studies used in the course are all designed to increase the students' knowledge of the theory and practice of mechanical engineering to enhance their employability.

This innovative course offers graduates excellent career prospects in a broad field of mechanical engineering related industries. It will also provide excellent preparation for those wishing to undertake a PhD or EngD . This course is a broad-based programme covering an important and industry-relevant portfolio of mechanical engineering modules including Fluid Dynamics and Heat Transfer, Stress Analysis, Finite Element Analysis Techniques, Advanced Materials and Computer Aided Product Design.

This taught course offers a wide exposure to the philosophy and practice of Mechanical Engineering design whilst simultaneously enabling the students to deepen their knowledge of certain engineering disciplines, which have been chosen on the basis of our research and teaching strengths of the discipline in the school of Engineering.

Effective communication is an important employability skill for the modern professional engineer. This course includes sessions to help develop the ability, both through formal guidance sessions dedicated to good practice in report writing, and through oral/poster presentations of project work. This is designed to support the research project (worth 60 credits) which is undertaken throughout the duration of the course. Project work is assessed by dissertation and oral/poster presentations.