UNIVERSITY OF WOLVERHAMPTON

Course Specification

Published Date:	23-Jul-2026
Produced By:	Multi Type Usr Record For All Personnel
Status:	Validated

Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Architecture, Computing and Engineering		
Course Code(s):	CV039P01UF CV039P31UF	Full-time Part-time	12 Months 2 Years
Course Title:	MSc Civil Engineering		
Hierarchy of Awards:	Master of Science Civil Engineering Postgraduate Diploma Civil Engineering Postgraduate Certificate Civil Engineering University Statement of Credit Civil Engineering		
Language of Study:	English		
Date of first cohort:	14/Sep/2026		
Specification valid from:	2025/6		

Academic Staff

Course Leader:	Victor Severino De La Cruz
Head of Department:	

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Standard Provision (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

A minimum of a 2:2 classification from a Civil Engineering degree course. Preferably one that has IEng accreditation.

International Applicants

International students with a cognate degree and applicants with relevant work experience will be considered on a case by case basis.

Non-native speakers will be required to hold IELTS with an overall band score of 6.5 with a minimum of 6.0 in each element.

Distinctive Features of the Course:

The MSc Civil Engineering at the University of Wolverhampton provides a rigorous and technically focused programme designed to advance your knowledge, skills, and professional development in civil engineering. Accredited by the Joint Board of Moderators (JBM), the course meets the top-up educational requirements for progression towards Chartered Engineer (CEng) status, ensuring your qualification is professionally recognised and aligned with current industry standards.

Delivered at the Springfield Campus, the programme offers access to modern teaching facilities, advanced laboratories, and industry-standard equipment, enabling you to develop a strong theoretical foundation alongside practical, hands-on experience. The curriculum integrates advanced engineering concepts with applied learning, preparing you to tackle complex engineering challenges confidently.

A distinctive feature of this MSc is its focus on real-world application. You will engage in industry-informed projects, design assignments, and research-led investigations, enhancing your technical, analytical, and problem-solving abilities. Strong links with industry and opportunities to collaborate with engineering professionals ensure that you gain insight into contemporary practices, emerging technologies, and sector-specific expectations.

Key highlights of the MSc Civil Engineering programme include:

- JBM-accredited pathway: Meets top-up requirements for Chartered Engineer (CEng) progression
- Advanced practical and laboratory facilities: Access to specialist equipment for applied engineering learning
- Industry-informed projects: Work on live briefs and design challenges reflecting current sector needs
- Professional skills development: Enhance teamwork, communication, project management, and leadership capabilities
- Research and analytical focus: Develop advanced knowledge in civil engineering design, analysis, and problem-solving
- Clear career progression: Prepare for senior engineering roles or further research opportunities

By the end of the course, you will have acquired advanced technical expertise, practical experience, and

professional confidence to excel in the civil engineering profession, while positioning yourself for continued development towards Chartered Engineer status or further postgraduate research.

Educational Aims of the Course:

Intakes:

September

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
2025/6	H	Full Time	£9088.00
2025/6	Overseas	Full Time	£16950.00
2025/6	H	31	£4544.00
2026/7	H	Full Time	£11015.00
2026/7	Overseas	Full Time	£18645.00
2026/7	H	31	£5508.00

PSRB:

CV039P01UF (Full-time)

Professional Accreditation Body:
Chartered Institute of Highways & Transportation (CIHT)

Accrediting Body:
Chartered Institute of Highways and Transportation (CIHT)

Accreditation Statement:
Accredited by the Chartered Institution of Highways and Transportation (CIHT) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P31UF (Part-time)

Professional Accreditation Body:
Chartered Institute of Highways & Transportation (CIHT)

Accrediting Body:
Chartered Institute of Highways and Transportation (CIHT)

Accreditation Statement:

Accredited by the Chartered Institution of Highways and Transportation (CIHT) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P01UF (Full-time)

Professional Accreditation Body:
Institute of Highway Engineers (IHE)

Accrediting Body:
Institute of Highway Engineers (IHE)

Accreditation Statement:
Accredited by the Institute of Highway Engineers (IHE) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P31UF (Part-time)

Professional Accreditation Body:
Institute of Highway Engineers (IHE)

Accrediting Body:
Institute of Highway Engineers (IHE)

Accreditation Statement:
Accredited by the Institute of Highway Engineers (IHE) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P01UF (Full-time)

Professional Accreditation Body:
Institution of Civil Engineers (ICE)

Accrediting Body:
Institution of Civil Engineers (ICE)

Accreditation Statement:
Accredited by the Institution of Civil Engineers (ICE) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P31UF (Part-time)

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05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P01UF (Full-time)

Professional Accreditation Body:
Institution of Structural Engineers (IStructE)

Accrediting Body:
Institution of Structural Engineers (IStructE)

Accreditation Statement:
Accredited by the Institution of Structural Engineers (IStructE) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

CV039P31UF (Part-time)

Professional Accreditation Body:
Institution of Structural Engineers (IStructE)

Accrediting Body:
Institution of Structural Engineers (IStructE)

Accreditation Statement:
Accredited by the Institution of Structural Engineers (IStructE) on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer.

Approved	Start	Expected End	Renewal
05/Jun/2026	05/Jun/2026	31/Aug/2029	31/Aug/2029

Course Structure:

September (Full-time)

Full time Masters students normally study 180 credits for their award.

Module	Title	Credits	Period	Type
7CV031	Further Structural Analysis	30	SEM1	Core
7CV030	Further Geotechnical Analysis and Foundation Design	30	SEM1	Core
7CV028	Sustainable Engineering and Management	30	SEM2	Core
7CV027	Integrated Engineering Design Project	30	SEM2	Core
7CV029	Civil & Structural Engineering Dissertation	60	CRYRA	Core

September (Part-time)

Full time Masters students normally study 180 credits for their award.

Module	Title	Credits	Period	Type
7CV031	Further Structural Analysis	30	SEM1	Core
7CV028	Sustainable Engineering and Management	30	SEM2	Core
7CV027	Integrated Engineering Design Project	30	SEM2	Core

September (Part-time)

Full time Masters students normally study 180 credits for their award.

Module	Title	Credits	Period	Type
7CV030	Further Geotechnical Analysis and Foundation Design	30	SEM1	Core
7CV029	Civil & Structural Engineering 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

Regulations Exemption:

None.

Reference Points:

Engineering Council: Recognising learning and development programmes

Joint Board of Moderators (JBM)

UK Quality Code for Higher Education

Qualifications and Credit Frameworks

Subject Benchmark Statements

University Policies and Regulations

Equality Act 2010: guidance - GOV.UK

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 Critical evaluate and apply current theories, concepts and insights informed by, the forefront of your academic discipline, field of study or area of professional practice (Knowing).	

Learning Outcomes	Modules
PGCERT02 Demonstrate in-depth knowledge and practical and/or professional skills in your discipline (Knowing).	
PGCERT03 Make informed decisions on complex issues, and communicate your conclusions clearly to different audience (Doing).	
PGCERT04 Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level (Doing).	
PGCERT05 Critically analyse, identify and utilise various study methods to improve your own performance (Being).	
PGCERT06 Reflect on your own achievements, identify future goals and plan for a further career or study (Being).	
PGDIP01 Demonstrate critical evaluation of current theories, concepts and insights informed by, the forefront of your academic discipline, field of study or area of professional practice. Show how you have applied this knowledge in original and insightful ways (Knowing).	
PGDIP02 Demonstrate in-depth knowledge and practical and/or professional skills in your discipline (Knowing).	
PGDIP03 Make informed decisions on complex issues, and communicate your conclusions clearly to different audiences employing discipline conventions and expectations (Doing).	
PGDIP04 Demonstrate self-direction and originality in tackling and solving problems, acting independently and autonomously in planning and implementing tasks at a professional or equivalent level (Doing).	
PGDIP05 Critically analyse, identify and utilise various study methods to improve your own performance (Being).	
PGDIP06 Reflect on your own achievements and plan for a future career or further study (Being).	
MA01 Knowing (Knowledge and Understanding): Apply Advanced Engineering Principles to address complex civil engineering problems, extending and building on prior undergraduate learning to meet CEng further learning requirements.	
MA02 Knowing (Knowledge and Understanding): Evaluate Research and Technical Literature to support innovation and informed decision-making in advanced civil engineering contexts.	
MA03 Doing (Practical Application): Develop Advanced Engineering Designs and Solutions considering societal, environmental, economic, and health and safety factors.	
MA04 Doing (Practical Application): Conduct Advanced Analysis and Investigations demonstrating the ability to integrate multiple methods and assess limitations.	
MA05 Being (Personal and Professional Development): Demonstrate Professional and Ethical Leadership.	

Learning Outcomes	Modules
MA06 Being (Personal and Professional Development): Commit to Lifelong Learning and Continuous Professional Development.	

Teaching, Learning & Assessment Strategy/(Learning and Teaching):

The MSc Civil Engineering course is structured to develop advanced technical competence, professional judgement, and critical understanding by building on prior undergraduate study and industry experience, in alignment with the Accreditation of Higher Education Programmes, 4th edition (AHEP4) learning outcomes for Chartered Engineer (CEng). The programme delivers in-depth and specialist learning through modules such as Further Structural Analysis and Further Geotechnical Analysis and Foundation Design, which extend your analytical capability and support the application of advanced engineering principles to complex civil engineering problems.

Teaching is delivered through a blended learning approach that integrates face-to-face lectures, tutorials, laboratories, and design workshops with online learning activities delivered via the virtual learning environment. This provides flexible access to learning materials, worked examples, digital resources, and formative assessments, while maintaining regular academic engagement and structured support.

You are supported in developing advanced academic, research, and digital skills through scaffolded postgraduate assessments, applied project work, independent investigation, and critical engagement with technical literature across the programme. Professional and practice-based learning is embedded through industry-informed teaching, contemporary case studies, and applied design tasks within modules such as Sustainable Engineering and Management and the Integrated Engineering Design Project.

The course promotes digital fluency through the use of industry-standard analysis, modelling, and data-management tools, while emphasising ethical practice, professional responsibility, and the appropriate use of digital technologies and artificial intelligence in accordance with engineering standards, JBM expectations, and professional codes of conduct.

Assessment Methods/Assessments:

Assessment across the MSc Civil Engineering course is designed to enhance learning while ensuring an appropriate and manageable postgraduate workload. A diverse range of assessment methods is employed, including advanced technical reports, design-based coursework, presentations, specialist analysis and modelling tasks, case-study evaluations, examinations, and independent research undertaken through the Integrated Engineering Design Project and the Civil & Structural Engineering Dissertation. This approach enables students to demonstrate achievement of learning outcomes through multiple formats while supporting the development of advanced technical, analytical, and professional skills.

Formative learning is embedded throughout the programme through staged submissions, design reviews, workshops, in-class activities, and online learning tasks, providing regular opportunities for practice and constructive feedback. Assessments are explicitly aligned with the development of higher-level cognitive skills, including critical evaluation, complex problem-solving, data analysis, and evidence-based decision-making, particularly within design-focused and research-led modules.

Inclusivity and accessibility are supported through clearly articulated assessment briefs, transparent marking criteria, and the use of varied and inclusive assessment formats. You are encouraged to personalise your assessments through the selection of project topics, case studies, and technical focus areas that align with their professional interests and intended Chartered Engineer (CEng) pathway. Many assessments are informed by real-world engineering practice, reinforcing professional competence, ethical responsibility, and readiness for professional practice at postgraduate level.

Further Information for Student:

The MSc Civil Engineering course at the University of Wolverhampton is designed to support graduates

in strengthening and extending their academic, professional, and research capabilities to meet the educational requirements for Chartered Engineer (CEng) status, in line with JBM accreditation and AHEP4 standards. The programme builds on prior undergraduate study by delivering advanced technical depth and professional competence through specialist modules such as Further Structural Analysis and Further Geotechnical Analysis and Foundation Design, which develop critical evaluation, advanced analytical skills, and informed engineering judgement.

Professional and sustainability-focused competencies are embedded through Sustainable Engineering and Management, enabling students to address environmental, ethical, and commercial challenges within contemporary civil engineering practice. The Integrated Engineering Design Project provides an industry-informed, multidisciplinary learning experience that strengthens teamwork, leadership, and real-world problem-solving skills.

The programme concludes with the Civil & Structural Engineering Dissertation, where students undertake independent research or applied investigation, demonstrating originality, technical mastery, and professional-level communication. Throughout the course, structured academic support, formative feedback, and reflective practice are embedded to ensure inclusive learning, academic progression, and readiness for professional practice as a Chartered Civil Engineer.

The University provides a wide range of academic and pastoral support to help students succeed in their studies and personal development. This includes access to the Library and Skills for Learning service, and tailored advice from the Careers and Enterprise teams. Students also benefit from 24/7 wellbeing support through WLV Student Life Connect, pastoral care via the Multi-faith Chaplaincy, and assistance from the Mental Health and Wellbeing team. Those living in university accommodation have additional access to Residential Life support, and all students can engage with the Students' Union for advocacy, societies, and further peer-led services.

Currency:

The MSc Civil Engineering course is designed to ensure that its curriculum remains current, professionally relevant, and informed by active research, emerging knowledge, and contemporary challenges facing the civil engineering profession. Module content is subject to regular review to reflect developments in areas such as advanced structural and geotechnical analysis, sustainable engineering practice, digital modelling and design technologies, and integrated project delivery, ensuring ongoing alignment with professional standards and employer expectations.

Research-informed learning is embedded throughout the programme, with students engaging critically with contemporary technical literature, data-driven analysis, and real-world case studies across core and specialist modules. This engagement develops progressively into independent research and applied investigation within the Integrated Engineering Design Project and the Civil & Structural Engineering Dissertation, which are often informed by staff research expertise and industry-focused contexts.

The course promotes critical and innovative engagement with complex engineering challenges, particularly those relating to sustainability, resilience, ethical responsibility, and societal impact. These themes are embedded across modules including Further Structural Analysis, Further Geotechnical Analysis and Foundation Design, and Sustainable Engineering and Management. The University's Graduate Attributes are integrated throughout the curriculum, supporting you to develop as a technically competent engineer, reflective professional practitioner, digitally fluent users of advanced engineering tools, and responsible global citizen. Collaborative learning, interdisciplinary working, and reflective practice further support adaptability and lifelong learning, preparing graduates to respond effectively to the evolving demands of professional civil engineering practice.

Personalisation Opportunities:

The MSc Civil Engineering course is designed to provide graduates with flexibility to pursue advanced topics, projects, and assessments that align with their professional interests, career aspirations, and prior academic or industry experience. From the outset, you are encouraged to engage in reflective practice and goal setting, enabling you to connect advanced academic learning with your individual motivations and intended professional pathways.

Choice and autonomy are embedded across the programme through flexible project briefs, applied problem-solving tasks, and critical case study selection within modules such as Further Structural Analysis, Further Geotechnical Analysis and Foundation Design, and Sustainable Engineering and Management. The Integrated Engineering Design Project provides a substantial, industry-informed learning experience, allowing students to shape project scope and technical focus in response to real-world engineering challenges.

The programme concludes with the Civil & Structural Engineering Dissertation, which offers significant independence and enables you to undertake an in-depth research or applied investigation aligned with your professional interests, specialist ambitions, or intended Chartered Engineer (CEng) pathway. You are supported in making informed decisions about specialisms and project direction through academic supervision, career guidance, and engagement with contemporary industry practice. Diverse perspectives are embedded through global case studies, collaborative learning, and inclusive teaching approaches, while continuous reflection and structured feedback support you in evaluating your progress and actively shaping their professional development throughout the course.

Employability in the Curriculum/Employability and Professional Development:

The MSc Civil Engineering course is designed to support graduates in preparing for a wide range of advanced professional roles within civil, structural, and infrastructure engineering, while supporting progression towards Chartered Engineer (CEng) status. Career development and employability are embedded throughout the programme through industry-informed learning, applied design tasks, and real-world case studies integrated across core and specialist modules, including Further Structural Analysis, Further Geotechnical Analysis and Foundation Design, Sustainable Engineering and Management, and the Integrated Engineering Design Project. These experiences expose you to complex engineering challenges and contemporary professional practice.

You are supported in developing a strong professional identity through advanced skills development, reflective practice, and opportunities to build a professional portfolio demonstrating both technical expertise and transferable competencies, including leadership, teamwork, communication, critical thinking, and digital proficiency. Professional standards and employer expectations are embedded within teaching and assessment through alignment with JBM accreditation and the Accreditation of Higher Education Programmes, 4th edition (AHEP4) learning outcomes for Chartered Engineer, alongside the use of industry-relevant software, professional technical reporting, and ethical and sustainable engineering practice.

Structured opportunities for reflection, feedback, and career planning are provided through academic supervision, project mentoring, and careers guidance, enabling students to identify strengths, address development needs, and make informed decisions about areas of specialism. You are encouraged to select project topics and research directions aligned with your professional experience and long-term career objectives, supported by academic advising and exposure to a diverse range of civil engineering career pathways at postgraduate level.