



LEEDS
BECKETT
UNIVERSITY

Course Specification

**MSc Civil
Engineering**

Course Code: MSCIV

2020/21

leedsbeckett.ac.uk

MSc Civil Engineering

Material Information Summary for Postgraduate Applicants

Confirmed at Aug 2019

General Information

Award Master of Science Civil Engineering

Contained Awards Post Graduate Certificate Civil Engineering
Post Graduate Diploma Civil Engineering

Awarding Body Leeds Beckett University

Level of Qualification & Credits

Level 7 of the Framework for Higher Education Qualifications, with 180 credit points at Level 7 of the Higher Education Credit Framework for England

Course Lengths & Standard

Timescales Start dates will be notified to students via their offer letter. The length and mode of delivery of the course is confirmed below:

- 1 year (full time, campus based)
- 2 year (part time, campus based)

Part Time Study PT delivery is usually at half the intensity of the FT equivalent course, although there may be flexibility to increase your pace of study to shorten the overall course duration. Some modules may be delivered in a different sequence to that defined within this information set but the modules offered within each level are consistent.

Location(s) of Delivery City Campus, Leeds

Entry Requirements

Admissions criteria are confirmed in your offer letter. Details of how the University recognises prior learning and supports credit transfer are located here: www.leedsbeckett.ac.uk/studenthub/recognition-of-prior-learning.

Admissions enquiries may be directed to:

AdmissionsEnquiries@leedsbeckett.ac.uk.

Course Fees

Course fees and any additional course costs are confirmed in your offer letter. Fees enquiries may be directed to Fees@leedsbeckett.ac.uk.

Timetable Information

Timetables will be made available to students during induction week via:

- i) The Student Outlook Calendar
- ii) The Student Portal (MyBeckett)
- iii) The Leeds Beckett app

Any difficulties relating to timetabled sessions may be discussed with your Course Administrator.

Policies, Standards and Regulations www.leedsbeckett.ac.uk/public-information

The technical content of this course has been accredited by the Joint Board of Moderators (JBM) as meeting the requirements for further learning for a Chartered Engineer (CEng) for candidates who have already acquired a partial CEng accredited undergraduate first degree. To achieve a JBM accredited MSc award, a student must at Level 7:

- Students must pursue a course of study of 180 credits, and have submitted in all components of every module
- Students must pass five of the six taught modules (20 credits each) AND the dissertation (60 credits), totalling a minimum 160 credits
- The minimum overall pass mark for a module is 50%, with no component less than 40%
- For the 'trailing' module, you must achieve an overall pass mark of 40%, with no component less than 30%
- The topic of the dissertation MUST be technical

As per the University's standard Academic Principles and Regulations, we are also allowed to apply the following levels of awards to students that have achieved the JBM accredited MSc award:

- An award of a 'distinction' will be made to those students who have demonstrated excellent performance against the attainment of an average of 70%, or more, in assessments contributing to the final award
- An award of 'merit' may be made to those students who have demonstrated excellent performance against the attainment of an average of 60%, or more, in assessments contributing to the final award

If the student does not achieve the PRSB requirements, the University's standard Academic Principles and Regulations will apply to this award, an ordinary contained award will be given. To attain a contained award of a PGDip; a student must at Level 7:

- Pursue a course of study of 120 credits and have submitted in all components of every module
- Pass 100 credits with a pass mark of overall average 40% and component 30% in each module taken
- For the 'trailing' module, you must achieve an overall pass mark of 30%, with no component less than 30%

To attain a contained award of a PGCert; a student must at Level 7:

- Pursue a course of study of 60 credits and have submitted in all components of every module
- Pass 60 credits with a pass mark of overall average 40% and component 30% in each module taken

Key Contacts

Your Course Director

Josie Rothera

Your Academic Advisor

Each Student will be allocated an Academic Advisor once they commence their studies at the University. The Academic Advisor will be a member of the Engineering Academic Staff.

Your Course Administrator

Melissa Argyle – M.Argyle@leedsbeckett.ac.uk

Professional Accreditation or Recognition Associated with the Course

Professional Body

Joint Board of Moderators (JBM) representing the Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Chartered Institution of Highways and Transportation (CIHT) and the Institute of Highway Engineers (IHE)

Accreditation/ Recognition Summary

The technical content of this course has been accredited by the Joint Board of Moderators (JBM) as meeting the requirements for further learning for a Chartered Engineer (CEng) for candidates who have already acquired a partial CEng accredited undergraduate first degree.

Course Overview

Aims

The curriculum of the course has been designed to provide a focused education to enable successful students to develop careers as leaders in design, construction, and management operations within civil engineering. The course aims to:

- Provide an effective, coherent, intellectually challenging and technical focused post graduate education in civil engineering.
- Achieve high-level competence across a range of specialist technical disciplines applying existing and emerging knowledge and technology.
- Develop research capability and cognitive skills enabling students to analyse complex problems in their professional context.
- Develop leadership skills applicable to meet changing technical and commercial needs in civil engineering.
- Provide the basis for personal commitment to professional development recognising the need to maintain professional standards and obligations to society.

Course Learning Outcomes

At the end of the course, students will be able to:

1. Demonstrate the ability to use a range of general and specialist knowledge for complex engineering analysis.
2. Develop and critically evaluate solutions to complex engineering requirements.
3. Utilise a range of appropriate traditional and contemporary methods and tools to optimise solutions for engineering problems in the context of unpredictability, uncertainty and risk.

4. Conduct research into a specialist area of civil engineering via: clearly establishing the research context; utilising an appropriate research methodology; and, formulating a creative solution.
5. Take responsibility for technical proficiency through the development of solutions with due regard to whole life performance especially with regards to health and safety, sustainability and cost.
6. Demonstrate commitment to professional standards and the need for both initial and on-going professional development utilising reflective learning.

Teaching and Learning Activities

Summary

The curriculum of the MSc Civil Engineering is designed to provide a focused education enabling successful students to develop careers as leaders in design, construction, and management operations within civil engineering. Emphasis is placed on the application of engineering principles under uncertain conditions. Aspects of the course which are particularly relevant to professional and transferable skills development and employability are:

- Exposure to industry standard software for analysis, design and drawing. Students use Eurocode design standards and the Government endorsed NEC3 suite of Contracts.
- Professional development.
- Independent laboratory or fieldwork based data collection.
- Design applications and case studies relevant to current engineering practice.
- Specialist study covering mainly technical subjects with some management-based areas.
- In all cases, students' health, safety and well-being is assured under the University's standard procedures.

All modules on the course are designed for formal lecture based delivery, accompanied by tutorial and laboratory practical sessions to consolidate student learning and enhance the student experience. Case studies will be used to contextualise learning into professional practice.

Your Modules

This information is correct for students progressing through the programme within standard timescales. Students who are required to undertake repeat study may be taught alternate modules which meet the overall course learning outcomes. Details of module delivery will be provided in your timetable.

Level 7 Core Modules

Civil Engineering Dissertation (60 credit points)

Water Engineering and Fluid Mechanics

Geotechnical Analysis and Design

Materials Technology

Professional Applications in Management

Structural Analysis and Design

Transportation Studies

Assessment Balance and Scheduled Learning and Teaching Activities

The assessment balance and overall workload associated with this course are calculated from the core modules and have been reviewed and confirmed as representative by the Course Director.

A standard module equates to 200 notional learning hours, which may be comprised of teaching, learning and assessment, any embedded placement activities and independent study. Modules may have more than one component of assessment.

Assessment

On this course students will be assessed through a mix of coursework and examinations. There is a 60 credit point Civil Engineering Dissertation module which will require the production of a dissertation with a viva-voce or formal presentation.

Workload

Overall Workload for the Course	
Teaching, Learning and Assessment	398 hours
Independent Study	1402 hours
Placement	0 hours

Learning Support

If you have a question or a problem relating to your course, your Course Administrator is there to help you. Course Administrators work closely with academic staff and can make referrals to teaching staff or to specialist professional services as appropriate. They can give you a confirmation of attendance letter, and a transcript. You may also like to contact your Course Rep or the Students' Union Advice team for additional support with course-related questions.

If you have any questions about life at our University in general, call into or contact the Student Hub on either campus to speak to our Student Experience Team. This team, consisting of recent graduates and permanent staff, are available to support you throughout your time here. They will make sure you have access to and are aware of the support, specialist services, and opportunities our University provides. There is a Student Hub on the ground floor of the Rose Bowl at City Campus and one in Campus Central at Headingley. You can also find the team in the Gateway in the Leslie Silver Building at City Campus. Email enquiries may be directed to studentexperience@leedsbeckett.ac.uk.

Within MyBeckett you will see two tabs (Support and Opportunities) where you can find online information and resources for yourselves. The Support tab gives you access to details of services available to give you academic and personal support. These include Library Services, the Students' Union, Money advice, Disability advice and support, Wellbeing, International Student Services and Accommodation. There is also an A-Z of Support Services, and access to online appointments/registration.

The Opportunities tab is the place to explore the options you have for jobs, work placements, volunteering, and a wide range of other opportunities. For example, you can find out here how to get help with your CV, prepare for an interview, get a part-time job or voluntary role, take part in an international project, or join societies closer to home.