LEEDS BECKETT UNIVERSITY

Course information for applicants

This information applies to the course as it will be delivered to students starting the course in 2027/28.
Information provided here was confirmed on 07/09/2026

General information

Programme code
MBSEN

Target award
If you complete this course successfully you will be eligible for the award of:
MEng Building Services Engineering

Delivery mode
✓ On campus
☐ Distance learning

Where you will study
The majority of teaching will be at City campus but on occasion may be at Headingley campus.

Awarding body
Leeds Beckett University

Regulator
Office for Students

Level of qualification
Level 7 of the Framework for Higher Education Qualifications

Course duration
If you are made an offer of a place on the course, your offer letter will include the start date.

This course can be studied:
4 years, full-time
5 years, full-time with sandwich year
7 years, part-time

Part-time study

This course can be studied part-time.

If you study the course part-time, it will usually take twice as long to complete compared with the equivalent full-time course. The modules may be delivered in a different sequence than on the full-time course, but you will study the same modules at each academic level. With the agreement of the course team, you may be able to increase your pace of study to shorten the overall course duration.

As a part-time student, you will not usually have the option of a work placement.

Work placement

This course includes an optional non-credit bearing placement

Placement Delivery

The placement will be a minimum length of 40 weeks but can be longer by negotiation.

Location

Placement location will vary dependant on the opportunity.

Approval

Whilst students source their own placements, they will need to meet requirements which will be outlined before enrolment.

Entry requirements

Admissions criteria are available on the online prospectus entry for this course.

If you have previous relevant qualifications or experience, you could be exempt from certain parts of your course. Recognition of prior learning (RPL) allows you to start your course at a point appropriate to the learning and skills that you may have developed in a professional, vocational or community setting.

Find out more here: https://www.leedsbeckett.ac.uk/student-information/course-information/recognition-of-prior-learning
If you have questions about entry requirements and admissions, contact AdmissionsEnquiries@leedsbeckett.ac.uk

Course fees

Course fees and a breakdown of any additional costs is included on the online prospectus entry for this course.

If you have questions about fees for this course, contact Fees@leedsbeckett.ac.uk

Timetable

You will receive your full timetable for the year during induction week.

What you will study

Course aims

The aims of the course are to:

- Provide the knowledge and understanding of the scientific, mathematical and engineering principles and methodologies that underpin Building Services Engineering
- To enable students to undertake independent critical analysis, enhancing their intellectual development and developing their ability to produce optimal solutions to complex engineering problems
- Develop a range of graduate skills relevant to a career in the modern building services engineering industry including all forms of digital and multi-media communication, problem-solving, individual motivation and team working.
- To ensure that successful graduates will have the potential to contribute to advances in engineering and be capable of accepting extensive managerial responsibilities
- To establish an appropriate foundation for a lifetime of continuing professional development
- The programme also aims to provide the educational requirements for graduate membership of CIBSE and engineering council accreditation for CEng status

These aims have been written to take account of the UK-SPEC General Learning Outcomes and Engineering Benchmark statements.

Teaching and learning activities

All modules on the course are designed for formal lecture-based delivery, accompanied by tutorial, laboratory practical and fieldwork sessions to consolidate student learning and enhance the student experience.

Student support and pastoral care is provided by the course team via a dedicated course administrator as well as subject specialist tutors, personal tutors, module leaders, level tutors and the course leader. In addition, the team operate an open access policy which gives students easy access to academics outside of taught sessions.

Emphasis is placed on the practical application of technical engineering principles to provide solutions for increasingly complex engineering problems. 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 are also taught the latest codes of practice and standards and the government endorsed BIM projects.
- Exposure to professional practice via site visits together with a professional body (CIBSE) compliant PDP scheme for students. Further exposure is through visiting speakers.
- Experience in IT using industry standard software for analysis, design, drawing and planning.
- Hands-on experience of laboratory testing in HVAC systems, electrical and electronic controls systems and optimisation materials, soils and fluids
- Practical design applications and case studies relevant to current engineering practice
- A broad range of study covering both technical and management-based subjects which build knowledge, understanding and application across levels.
- Design solutions to practical problems. Initially simple problems with tutor led design solutions. The problems presented become increasingly complex, necessitating imagination and judgement in developing a practical solution. At all levels, the design problems are case study based and relevant to current industry practice.

- As required by the PSRB, threads (Design, Health Safety and Risk Management, Sustainability and Professionalism and Ethics) permeate the curriculum both horizontally and vertically and this is embedded in the modular content.

By the completion of level 7 specifically the approach to learning and teaching for students will aim to facilitate:

- Students' transformation into sophisticated, independent, critical thinkers.
- Students' ability and confidence to apply their knowledge with originality within advanced academic and building services engineering-related contexts.
- The opportunity for students to conduct research and also gain an understanding of how to integrate and apply the research of others within their own work within a professional context.

The impression of value in a student's career outlook for the continuation of development in a professional and also, potentially, an academic environment.

Course structure

This information is correct for students progressing through the course within standard timescales. If you have to repeat study or take time out during your course, you may be taught alternative modules which meet the overall course learning outcomes.

The option modules listed may vary. Those listed here are likely to be offered in a typical year.

Full-time Delivery

Level 4

Compulsory modules

Module title	Credits	Semester/teaching period
Building Services Engineering Fundamentals	20	S1 / Year 1
Maths for Electronics and Electrical Engineering	20	S1 / Year 1
Electrical and Electronics Principles	20	S1 / Year 1
Building Services Design Principles	20	S2 / Year 1
Management Principles and Applications	20	S2 / Year 1
Mechanical Services	20	S2 / Year 1
Total number of credits of compulsory modules:	120	

Level 5

Compulsory modules

Module title	Credits	Semester/teaching period
Engineering Mathematics	20	S1 / Year 2
Electrical Services and Lighting Systems	20	S1 / Year 2
Airconditioning and Refrigeration Systems	20	S1 / Year 2
BMS and Control Systems	20	S2 / Year 2
Group Design Project	20	S2 / Year 2
Digital Construction Technology & Applications	20	S2 / Year 2
Total number of credits of compulsory modules:	120	

Level 6

Compulsory modules

Module title	Credits	Semester/teaching period
Low Carbon Systems Design	20	S1 / Year 3
Facilities Maintenance and Management	20	S1 / Year 3
Intelligent Building Technologies	20	S2 / Year 3
Building Physics (Modelling and Analysis)	20	S2 / Year 3
Dissertation	40	S1 & 2 / Year 3
Total number of credits of compulsory modules:	120	

Level 7

Compulsory modules

Module title	Credits	Semester/teaching period
Sustainable Systems Design	20	S1 / Year 4
Building Information Modelling and Mechanical, Electrical, Plumbing	20	S2 / Year 4
Integrated Project	30	S1 & 2 / Year 4
Research Paper	10	S1 & 2 / Year 4
Total number of credits of compulsory modules:	80	

Option modules

Module title	Credits	Semester/teaching period
Sustainable Buildings	20	S1 / Year 4
Humanitarian Engineering	20	S1 / Year 4
Project Management	20	S2 / Year 4
Building Energy Management and Intelligent Buildings	20	S2 / Year 4
Total number of credits of elective modules a student must enrol on:	40	

Part-time Delivery

Level 4

Compulsory modules

Module title	**Credits**	**Semester/ teaching period**
Building Services Engineering Fundamentals	20	S1 / Year 1
Maths for Electronics and Electrical Engineering	20	S1 / Year 1
Building Services Design Principles	20	S2 / Year 1
Management Principles and Applications	20	S2 / Year 1
Electrical and Electronics Principles	20	S1 / Year 2
Mechanical Services	20	S1 / Year 2
Number of credits of compulsory modules	120	

Level 5

Compulsory modules

Module title	Credits	Semester/ teaching period
Engineering Mathematics	20	S2 / Year 2
Electrical Services and Lighting Systems	20	S2 / Year 2
Digital Construction Technology and Applications	20	S2 / Year 2
BMS and Control Systems	20	S1 / Year 3
Group Design Project	20	S1 / Year 3
Airconditioning and Refrigeration Systems	20	S2 / Year 3
Number of credits of compulsory modules	120	

Level 6

Compulsory modules

Module title	Credits	Semester/ teaching period
Low-Carbon Systems Design	20	S1 / Year 4
Facilities Maintenance and Management	20	S1 / Year 4
Intelligent Building Technologies	20	S2 / Year 4
Building Physics (Modelling and Analysis)	20	S2 / Year 4
Dissertation	40	S1 & S2 / Year 5
Number of credits of compulsory modules	120	

Level 7

Compulsory modules

Module title	Credits	Semester/ teaching period
Sustainable Systems Design	20	S1 / Year 6
BIM and MEP	20	S2 / Year 6
Integrated Project	20	S1 & S2 / Year 7
Research Paper	20	S1 & S2 / Year 7
Number of credits of compulsory modules	80	

Option modules

Module title	Credits	Semester/ teaching period
Project Management	20	S1 / Year 6
BEMS and Intelligent Buildings	20	S1 / Year 6
Sustainable Buildings	20	S2 / Year 6
Humanitarian Engineering	20	S2 / Year 6
Number of credits of option modules a student should choose	80	

Assessment and feedback

The balance of assessment may change depending on which option modules you choose.

Level 4

Level 4 is assessed by a broadly even mix of coursework and examinations.

Level 5

Level 5 is assessed by a broadly even mix of coursework and examinations, with some practical assessments.

Level 6

Level 6 is assessed by a broadly even mix of coursework and examinations.

Level 7

Level 7 is assessed predominantly by written assignments, with some examinations and practical assessments.

Workload

You can expect to spend a total of 100 hours learning per 10 credits.

Typically, a student on this course can expect to divide their time like this:

Overall workload	Level 4	Level 5	Placement year (if chosen)	Level 6	Level 7
Teaching, learning and assessment	300 hours	300 hours		250 hours	350 hours
Independent study	900 hours	900 hours		900 hours	900 hours
Placement (optional)			40 weeks		