LEEDS BECKETT UNIVERSITY

Course Specification

BEng (Hons) Engineering Management (Top-up)

Course Code: BENEM

2024/25

leedsbeckett.ac.uk

BEng (Hons) Engineering Management (Top-up)

Applicant Facing Course Specification for 2024/25 Undergraduate Entrants

Confirmed at 11/2023

General Information

Award	Bachelor of Engineering with Honours Engineering Management (Top-up)
Contained Awards	Bachelor of Science Engineering Management (Level 6)
Awarding Body	Leeds Beckett University
Level of Qualification and Credits	Level 6 of the Framework for Higher Education Qualifications, with 120 credit points at Level 6 of the UK Credit Framework for Higher Education (120 credits in total).
Course Lengths and 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 years (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. Please note that the work placement option is not generally available to PT students.
Location(s) of Delivery	The majority of teaching will be at Headingley campus but on occasion may be at City campus.
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: https://www.leedsbeckett.ac.uk/student-information/course-information/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 for Semester 1 will be made available to students during induction week via:

i) The Student Portal (MyBeckett)
ii) 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/academicregulations)

1. In line with a recent Engineering Council directive, a Regulation Exemption has been approved by the University which states that:

"Students must pass all modules which are mapped to Accreditation of Higher Education Programme (AHEP) learning outcomes with an overall mark of not less than 40% in the combined assessments, with a submission in each component for each module.

If students do not achieve these marks at the first attempt they will have the chance to undergo a re-sit in that particular area; if they still fail to achieve the marks at this attempt they will not be allowed to progress onto the following year until they have completed the module again and achieved the above mark.

Failure at the second attempt at a module will result in a student's withdrawal from the course."

2. Following review by a PSRB Visit Panel in September 2016, and following consultation with the PSRB Accreditation Team, the above *Exemption* was revised on 2019-12-04 to read in full

Applicants should have a HND, Foundation degree or equivalent Level 5 award in the cognate subject of Engineering. All offers to students on this course must be agreed with the Course Director, and the Course Director must be satisfied that the prior learning of the applicant is in accordance with the UK Engineering Council's standards for the Accreditation of Higher Education Programmes version 3 (AHEPv3) and maintain a mapping to this effect.

Note: The correct title for the Level 6 contained award of the ordinary degree is *BSc Engineering Management (Top-Up)*. This Level 6 contained award **does not** satisfy the PSRB requirements for an accredited degree programme as it does not fully meet the Engineering Council's guidance on the assessed learning outcomes for IEng under the *Accreditation of Higher Educational Programmes* version 3.0. The change in the title of the award is therefore necessary to differentiate between the main award and the contained award.

Specifically, the title of any contained award ***must*** adhere to the Accreditation Policy R1, *Programme Title*, of the IET (Academic Accreditation Information Pack for Higher Education Institutions, Academic Accreditors and Professional Engineering Institution Staff. The Institution of Engineering and Technology, July 2018), which states

The title of the accredited degree programme must not be identical to an unaccredited programme awarded by the same Higher Education Institution.

For the ordinary degree, you will not have met the Course Learning Outcomes of the honours award; but instead you will expected to have demonstrated the Course Learning Outcomes stated in Section 3 below.

Key Contacts

Your Course Director	Dr. David Love
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	Lisa Halmshaw - L.D.Halmshaw@leedsbeckett.ac.uk

Professional Accreditation or Recognition Associated with the Course

Professional Body

Currently this course is not accredited by any member of the UK Engineering Council. It has been designed to align to the UK Standard for Professional Engineering Competence (UK-SPEC) Third Edition, as laid out in the UK Engineering Council's Accreditation of Higher Education Programmes (AHEP) as being suitable for the academic component of registration as an Incorporated Engineer (IEng). The IEng standard is recognised internationally as showing your ability to use your theoretical knowledge to solve problems in developed technologies using well proven analytical techniques; your application of your knowledge to deliver engineering projects or services using established technologies and methods; your ability to be responsible for project and financial planning and management together with some responsibility for leading and developing other professional staff; your effective interpersonal skills in communicating technical matters and your commitment to professional engineering values.

Upon completion of the award, the practical requirements for Professional Registration would typically take between three to five years to achieve. This period may be significantly reduced by your previous experience and training, and students looking to follow Professional Registration upon graduation are encouraged to discuss routes to registration with the course team.

Course Overview

Aims

As with all engineering courses aiming to produce graduates capable of professional registration, an academic course can only satisfy part of the requirements for that registration. Therefore, this course aims to express its alignment with the UK-SPEC though adherence to version 3 of the Engineering Council's standard for the *Accreditation of Higher Education Programmes*, and to the subject and discipline learning outcomes defined by the Institution of Engineering and Technology (the sector recognised PSRB and PEI for

electronics and electrical engineering). Together these learning outcomes for graduates of the award are reflected in the following course aims:

- To facilitate the provision of a quality learning experience for each student that fosters engagement with their programme of study and promotes independent study and life-long learning.
- To maintain a high quality, comprehensive and coherent curriculum which fosters knowledge of the underpinning theory, management, entrepreneurship, digital literacy and offer a global appeal which is informed by research, scholarly activity and practice which enhances each participant's career prospects.
- To develop professionals with a sound understanding of both engineering and management concepts, in a holistic approach and understanding the key features that link the two subject areas.
- To encourage the creative and appropriate application of technology to promote innovation and enterprise through the research project whilst enhancing students employability skills.
- To promote ethical and eco business awareness and professionalism supported by a strong appreciation of industry focussed skills and practice.

Course Learning Outcomes

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

1	Develop solutions to support and serve the needs of organisations and communities in diverse contexts and demonstrate the ability to integrate technologies, products, and services from multiple sources to satisfy organisational needs in the global society.
2	Develop an ability to communicate effectively within an Engineering environment, deploy accurately established techniques of production management, analysis and design, digital emerging technologies, discreet event simulation etc. to deliver solution to users whilst understanding the sensitivity of the impact of technology solutions on individuals, organisations, and society.
3	Develop a wide breadth of understanding that enables students to devise and sustain arguments, and solve problems using innovative ideas and techniques, some of which are at the forefront of engineering management practice.
4	Develop the skills and understanding to undertake projects to a professional standard by the consistent application and review of development, management and evaluation methods and techniques.
5	Develop an ability to independently undertake research and critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), to make judgements, and to frame appropriate questions to achieve a solution or identify a range of solutions to a problem.

6	Appreciate the impact of management decisions made on diverse cultural/linguistic backgrounds within an engineering design, production, or manufacturing process in the context of relevant social, legal, ethical and sustainability goals and constraints.

Teaching and Learning Activities

Summary

The delivery style will encourage independent and collaborative learning in all modules. This course enables many practical skills to be developed and students are encouraged to develop their personal interest through individual research. A number of delivery methods are used from guest lectures, group activities, online support and workshop activities.

Students are made aware of the goal of independence in learning and are given explicit guidance on those aspects of their learning for which they are responsible. Key opportunities for students in this regard include the Engineering Skills modules and guidance on the studying of individual modules.

Scheduled sessions will include the use of lectures, seminars and tutorials, and advantage will be taken of both technology and supportive activities to ensure that effective learning takes place. Some of those supportive activities strongly encourage the student to attend sessions that are not in themselves credit bearing, but which are designed to reinforce the concepts and skills introduced in the credit bearing modules.

These activities will include the use of simulations, role play, case studies, projects, practical work, work-based learning, workshops, peer tutoring, team work within module tasks, and self-development of learning and study skills.

The research project module, Production Project, has been designed around practice-centred product development, enabling students to focus their energies in developing future thinking and practical solutions to their sphere of work or career aspirations.

This course will feature a mix of blended learning, both online and in-person. Most lectures and all lab sessions will be live, with some online learning for specific modules.

Your Modules

This information is correct for students progressing through the programme within standard timescales. Option modules listed are indicative of a typical year. There may be some variance in the availability of option modules. 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.

Full Time Study

Level 6			
Semester 1	**Core (Y/N)**	**Semester 2**	**Core (Y/N)**

Level 6			
Project Management (20 credits)	Y	Engineering Cost and Management Accounting (20 credits)	Y
Advanced Manufacturing Technology (20 credits)	Y	Engineering Simulation (20 credits)	N
		Power Electronics (20 credits)	N
		Industrial Networks (20 credits)	N
Production Project (40 credits)	Y	Production Project (40 credits) (continued from Semester 1)	Y

Part Time Study

Level 6 (Year 1)			
Semester 1	**Core (Y/N)**	**Semester 2**	**Core (Y/N)**
Project Management (20 credits)	Y	Engineering Cost and Management Accounting (20 credits)	Y
Advanced Manufacturing Technology (20 credits)	Y		

Level 6 (Year 2)			
Semester 1	**Core (Y/N)**	**Semester 2**	**Core (Y/N)**
Production Project (Double Module – 40 credits)	Y	Production Project (40 credits) (continued from Semester 1)	Y
		Students will select one of the following: Engineering Simulation (20 credits) Industrial Networks (20 credits) Power Electronics (20 credits)	Y

Assessment Balance and Scheduled Learning and Teaching Activities by Level

The assessment balance and overall workload associated with this course are calculated from core modules and typical option module choices undertaken by students on the course. They have been reviewed and

confirmed as representative by the Course Director but applicants should note that the specific option choices students make may influence both assessment and workload balance.

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

Level 6 is assessed by coursework predominantly, with some examinations and practical assessments.

Workload

Overall Workload	**Level 6**
Teaching, Learning and Assessment	228 hours
Independent Study	972 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.

Student Services

If you have any questions about life at University, call into our Student Services Centre at either campus or contact Student Advice directly. This team, consisting of trained officers and advisers 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. They also work on a wide range of projects throughout the year all designed to enhance your student experience and ensure you make the most of your time with us. Student Advice are located in the Student Services Centre in the Leslie Silver Building at City Campus and on the ground floor of the Priestley Building at Headingley Campus. The team can also be contacted via email at studentadvice@leedsbeckett.ac.uk.

Support and opportunities

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.