

Doctor of Engineering

Programme Information

2022.01, Approved

Overview

Programme Code	36337
Programme Title	Doctor of Engineering
Awarding Institution	Liverpool John Moores University
Programme Type	Professional Doctorate

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Doctor of Engineering - ENGD	N/A

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length Programme Length Unit
Part-Time, Face to Face	January	LJMU Taught	6 Years

Aims and Outcomes

Educational Aims of the Programme	The aims of the programme are to: Make a significant contribution to the enhancement of an occupational or professional area through the application, development and testing of theoretical frameworks. Enable the candidate to evidence that, through their studies and by applying and testing existing and new theories, they have made a significant contribution to improvements or changes in their organisation or working practices, which can be applied elsewhere. Contribute to research in new areas and to collaborate further with employers; so that the candidate and University is engaging in an exchange of knowledge and practice at the highest level. Enhance the candidate's personal and professional capabilities for the future, to enable them to lead innovation within their organisation.
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Learning Outcomes

Code	Number	Description
PLO1	1	Display a systematic acquisition and understanding of a substantial body of knowledge which is at the forefront of their academic discipline or area of professional practice relevant to their workplace.
PLO2	2	Make informed judgements on complex issues in specialist fields, often in the absence of complete data.
PLO3	3	Communicate their ideas and conclusions clearly and effectively to specialist and non-specialist audiences.
PLO4	4	Critically reflect on personal, work-based, theoretical and research practice experiences that contribute to the creation of new knowledge.
PLO5	5	Collect, record and interpret qualitative and/or quantitative data and demonstrate advanced academic enquiry.
PLO6	6	Present final thesis clearly and concisely at a level that aligns to the Institutions doctoral regulations.
PLO7	7	Recognise and describe problems relevant to the workplace and propose innovative solutions with the potential to create new knowledge.
PLO8	8	Display a critical understanding of complex and specialised research knowledge and skills through the development of research proposals that demonstrate a) the potential for the creation of new knowledge at the forefront of their academic discipline or their area of professional practice b) the use of appropriate techniques/methodologies in their research.
PLO9	9	Conceptualise, design, and implement a project for the generation of new knowledge, applications or understanding at the forefront of the discipline or area of professional practice, and to adjust the project design in the light of unforeseen problems.
PLO10	10	Critically appraise research methods for their appropriateness to the area of enquiry.
PLO11	11	Demonstrate the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex organisations.

PLO12	12	Demonstrate the creation and interpretation of new knowledge of a quality to satisfy peer review, extend the forefront of the discipline, and merit publication.
PLO13	13	Provide implications for the further development of their specific professional practice in relation to their own work, its context, and the form future development would take.
PLO14	14	Apply and develop appropriate techniques/methods in research and scholarship.

Course Structure

Programme Structure Description	<p>The programme has 2 levels: Masters and Doctoral, with a total of 540 credits. The Masters level (FHEQ Level 7) comprises 180 credits. Applicants may only join the programme at the Doctoral level (FHEQ Level 8) and must have 180 credits at FHEQ Level 7 from a Masters degree in an appropriate engineering discipline demonstrating that the student has: -A systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of the engineering discipline, field of study or area of professional practice. -A comprehensive understanding of techniques applicable to their own research or advanced scholarship. Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in their engineering discipline. -Conceptual understanding that enables them to evaluate critically current research and advanced scholarship in their discipline; and to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses. Applicants will be required to make a claim for Recognition of Prior Learning (RPL) at FHEQ Level 7 (up to 180-credits) with their qualification assessed against the above Learning Outcomes. The Doctoral phase comprises 360 FHEQ Level 8 credits, all of which must be completed successfully to obtain the award of Doctor of Engineering. The Level 8 credits will take a minimum of 3 years to complete. Students must complete the Doctoral Skills Programme in order to gain the award and evidence this in 8401ENGD. This programme specification is applicable to students registered from September 2022 onwards. Existing students will follow the programme specification provided upon initial registration to the programme.</p>
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Programme Structure - 360 credit points	
Level 8 - 360 credit points	
Level 8 Core - 360 credit points	CORE
[MODULE] 8400ENGD Research Planning Approved 2022.01 - 60 credit points	
[MODULE] 8401ENGD Reflective Research Strategy Approved 2022.01 - 20 credit points	
[MODULE] 8402ENGD Literature Review Approved 2022.01 - 60 credit points	
[MODULE] 8403ENGD Research Methodology Approved 2022.01 - 60 credit points	
[MODULE] 8404ENGD Research Enquiry and Analysis Approved 2022.01 - 60 credit points	
[MODULE] 8405ENGD Final Thesis Approved 2022.01 - 60 credit points	
[MODULE] 8406ENGD Reflective Research Portfolio Approved 2022.01 - 40 credit points	

Approved variance from Academic Framework Regulations

<p>Variance</p> <p>However, as a Doctoral award this programme operates within the university's Academic Regulations for Research Degrees https://www.ljmu.ac.uk/the-doctoral-academy/academic-regulations-for-research-degrees.</p>
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Teaching, Learning and Assessment

Teaching, Learning and Assessment	Face-to-face workshops, asynchronous online learning, action learning sets, and self-directed study. Coursework (Learning Agreement, research proposal, interim literature review, interim methodology, interim data collection and analysis, final thesis submission, portfolio of critical reflection, seminar presentation), examination (viva voce by external and internal examiners).
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Opportunities for work related learning

Opportunities for work related learning
As decided by each student in relation to their place of work.

Entry Requirements

Type	Description
Alternative qualifications considered	Applicants may only join the programme at the Doctoral level (Level 8) and must have 180 credits at Level 7 from a Masters degree in an appropriate engineering discipline which must have included training in research and the execution of a research project. Recognition of Prior Learning (RPL) will be awarded following confirmation that the learning outcomes of the applicant's Masters degree map to the learning outcomes stipulated in the Programme Rules section. Applicants must make the RPL claim, and the credits must be awarded, before enrolling on the EngD programme. If the applicants Masters qualification is older than five years, then they will need to demonstrate they have maintained and extended their professional competence through continuing professional development activities, which can include formal and informal activities. This should be evidenced through a portfolio of CPD against the five core competences A to E defined by the Engineering Council in UKSpec.
Other international requirements	An English language capability of at least IELTS 6.5 (with 5.5 in each component).

Programme Contacts

Programme Leader

Contact Name
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Link Tutor

Contact Name
