


PROGRAMME SPECIFICATION (Taught Postgraduate)	 Newcastle University
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1	Awarding Institution	Newcastle University
2	Teaching Institution	Newcastle University
3	Final Award	MSc
4	Programme Title	Engineering Management Engineering Management Science (exit award)
5	Programme Code	5523F – Engineering Management 5522F – Engineering Management Science (exit award)
6	Programme Accreditation	n/a
7	QAA Subject Benchmark(s)	Subject Benchmark Statement: Master's Degrees in Business and Management (qaa.ac.uk) Subject Benchmark Statement: Engineering (qaa.ac.uk)
8	FHEQ Level	7
9	Last updated	May 2025

10	Programme Aims
<p>The programme aims:</p> <ol style="list-style-type: none"> 1. to gain knowledge and understanding of specialist topics in engineering management 2. to develop transferable skills in management, leadership, sustainability, and data analytics 3. to satisfy the professional development needs of the individual and their employers; providing relevant training to graduates who wish to pursue a career in the field of management; and 4. to provide a foundation for further postgraduate studies 	

11	Learning Outcomes
<p>The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes associated with the theme of engineering management.</p>	
Knowledge and Understanding	
<p>On completing the programme students should have:</p> <ol style="list-style-type: none"> A1 The ability to structure and organise change initiatives. A2 The ability to manage the integration of the outputs of a change initiative into business-as-usual (BAU), ensuring that outputs enable delivery of the intended value. A3 The ability to embody, promote and maintain a trusted profession and to navigate the cultural, legal and regulatory environment. A4 The ability to prepare and maintain definitions of the requirements of change initiatives. 	
Teaching and Learning Methods	
<p>Acquisition of A1-A4 is through a combination of lectures, tutorials, student-centred learning, coursework and project work.</p>	

Assessment Strategy

Formative assessment in particular areas occurs through tutorial exercises and coursework. The primary means of assessing factual knowledge is through assessed coursework and case studies.

In depth individual learning forms part of the consultancy dissertation project, which is assessed by a presentation exercise and dissertation.

Intellectual Skills

On completing the programme students should have:

- B1 The ability to enable financial resource for delivery and to plan and control the finances of change initiatives, as part of the organisation's overall financial management, to ensure optimisation of the business case.
- B2 The ability to prepare, gain approval of, refine and update business cases that justify the initiation, investment and/or continuation of change initiatives in terms of benefits, costs and risks.
- B3 The ability to take forward the definition of outputs into detailed planning, incorporating multiple areas into the integrated project management plan.
- B4 The ability to plan resource needs in line with the strategic direction of the organisation to ensure that resource utilisation is maintained at an appropriate level for optimal efficiency.
- B5 The ability to develop and agree budgets for change initiatives and understanding where costs fall over time.
- B6 The ability to identify and monitor risks (threats and opportunities); to plan and implement responses to those risks and respond to issues that affect a change initiative.

Teaching and Learning Methods

Acquisition of B1-B6 is through a combination of lectures, tutorials, coursework and project work.

Assessment Strategy

Intellectual abilities are assessed through a mixture of written examination and coursework assignments. The consultancy dissertation project, which is assessed by dissertation and presentation, provides evidence of the ability to construct a business case.

Practical Skills

On completing the programme students should have

- C1 The ability to establish and maintain governance structures that define control of deployment for delivery of change initiatives, and that align with organisational practice.
- C2 The ability to balance the environmental, social, economic and administrative considerations that will impact a change initiative.
- C3 The ability to manage progression through the life cycle of a change initiative.
- C4 The ability to identify and agree the benefits and determine how they will be measured, monitored and managed throughout a change initiative until they are realised.
- C5 The ability to select, develop and manage individuals to create and sustain teams.
- C6 The ability to build and maintain an inclusive environment that embraces a diverse culture.
- C7 The ability to determine the optimal solution to satisfy agreed requirements.
- C8 The ability to ensure that outputs are delivered in accordance with requirements.
- C9 The ability to acquire and deploy internal and external resources.
- C10 The ability to monitor and manage supplier performance.
- C11 The ability to manage variations and change requests in a controlled way.

Teaching and Learning Methods

Acquisition of C1-C11 is through a combination of lectures, tutorials, coursework and project work.

Assessment Strategy
C1-C11 are not explicitly assessed through written examination, but are necessary for successful completion of coursework and projects.
Transferable/Key Skills
On completing the programme students should have: D1 The ability to set up portfolios to ensure efficient delivery of strategic objectives. D2 The ability to secure the provision of resources, choosing strategies for obtaining best value from supply chains. D3 The ability to provide confidence to the governance board that a change initiative is on track to deliver the objectives and intended value. D4 The ability to assess organisational maturity in relation to a change initiative and the wider organisation. D5 The ability to work with people, both internally and externally, to build support to achieve intended outcomes. D6 The ability to identify, address and resolve differences between individuals and/or interest groups. D7 The ability to empower and inspire others to deliver successful change initiatives by providing vision, direction, feedback and support, so that people can do their best work. D8 The ability to undertake time-based planning with an emphasis on activities and resource.
Teaching and Learning Methods
D1-D8 are introduced and developed by a combination of tutorial examples, coursework and project work.
Assessment Strategy
D1-D8 are necessary for successful completion of coursework (individual and group) and projects to a satisfactory standard.

12 Programme Curriculum, Structure and Features
Basic structure of the programme
The programme comprises 120 taught credits. MSc students also complete an individual consultancy dissertation (60 credits). The programme is offered once per year in a three-semester structure, with all lecture material and the research methods module being in semesters one and two. The project will take place in semesters two and three.
Key features of the programme (including what makes the programme distinctive)
The programme is aimed at students, from a range of engineering backgrounds, who wish to pursue advanced study in the area of engineering management. The programme delivers the core knowledge (A1-A4) and understanding with associated skills (B1-B6, C1-C11, D1-D8) through a sustainability lens, underpinned by research in the School of Engineering. The programme is aligned to the Association for Project Management (APM) accreditation standards.
Programme regulations (link to on-line version)
-R5523F_5522F_2526.pdf

13 Support for Student Learning
Generic information regarding University provision is available at the following link.

[Generic Information](#)

14 Methods for evaluating and improving the quality and standards of teaching and learning

Generic information regarding University provision is available at the following link.

[Generic Information](#)

Accreditation reports

Additional mechanisms

15 Regulation of assessment

Generic information regarding University provision is available at the following link.

[Generic Information](#)

In addition, information relating to the programme is provided in:

The University Prospectus: [Find a Degree | Postgraduate | Newcastle University \(ncl.ac.uk\)](#)
Degree Programme and University Regulations: <http://www.ncl.ac.uk/regulations/docs/>

Please note. This specification provides a concise summary of the main features of the programme and of the learning outcomes that a typical student might reasonably be expected to achieve if she/he takes full advantage of the learning opportunities provided.