

Programme Specification for Postgraduate Programme Leading to: PG Certificate in Engineering Management

Applicable for all postgraduate students starting in 2021

Version No.	Date	Notes – QUALITY ASSURANCE USE ONLY	QA
2021-22 v1	13 August 2021	Programme Specification for 2021/22 entrants.	JP

Postgraduate Taught Programme	
1. Awarding institution	Brunel University London
2. Teaching institution(s)	Brunel University London
3. Home college/department/division	College of Engineering, Design and Physical Sciences/ Department of Mechanical and Aerospace Engineering
4. Contributing college/department/division /associated institution	N/A
5. Programme accredited by	Not Accredited
6. Final award(s) and FHEQ Level of Award	PG Cert Engineering Management FHEQ level 7
7. Programme title	PG Cert Engineering Management
8. Programme type (Single honours/joint)	N/A
9. Normal length of programme (in months) for each mode of study	FT: 4 months PT: 16 Months
10. Maximum period of registration for each mode of study	Normal length of programme plus two years
11. Variation(s) to September start	N/A
12. Modes of study	FT/PT
13. Modes of delivery	Standard
14. Intermediate awards, titles and FHEQ Level of Award	N/A
15. UCAS Code	N/A
16. HECoS Code	100184
17. Route Code	H900PENMGPC

18. Relevant subject benchmark statements and other external and internal reference points used to inform programme design	Quality Code for Higher Education QAA Subject Benchmark Statement (Engineering) Brunel 2030 Engineering Council, UK-SPEC document “Chartered Engineer and Incorporated Engineer Standard”
19. Admission Requirements	<p>Normally the requirements will be the same as for MSc Engineering Management, details of entry requirements are provided on the University’s and College website.</p> <p>Levels of English for non-native speakers are outlined on Brunel International’s language requirements pages.</p>
20. Other relevant information (e.g. study abroad, additional information on placements)	None

21. Programme regulations not specified in Senate Regulation 3. Any departure from regulations specified in Senate Regulation 3 must be stated here and approved by Senate.	None
22. Further information about the programme is available from:	Engineering Management PGCert Brunel University London

23. EDUCATIONAL AIMS OF THE PROGRAMME

The programme aims to provide the student with specialist knowledge and skills necessary to apply key engineering management techniques in their career. The PG Cert consists of four modules covering Project Management; Quality Management and Reliability; Manufacturing Systems Design and Economics; as well as Systems Modelling and Simulation. These modules have been selected to ensure graduates of this course have the knowledge and skills that will make a significant difference in the marketplace.

24. PROGRAMME AND INTERMEDIATE LEARNING OUTCOMES

The programme provides opportunities for students to develop and demonstrate knowledge and understanding (K) cognitive (thinking) skills (C) and other skills and attributes (S) in the following areas:

Level	Category (K = knowledge and understanding, C = cognitive (thinking) skills, S = other skills and attributes)	Learning Outcome	Masters Only	Associated Assessment Blocks Code(s)	Associated Study Blocks Code(s)	Associated Modular Blocks Code(s)
7	K	The student should develop an advanced understanding of elements of both operations management and engineering knowledge, as well as a crucial awareness of a selection of the latest problems and/or new insights within engineering management.				MN5554 MN5508 MN5502
7	K	Students should develop a in-depth understanding of a selection of research tools and techniques applicable to a range of engineering management problems				MN5543 MN5508 MN5502

7	K	Students should demonstrate the application of operations management and engineering knowledge.				MN5508 MN5502
7	K	To assess and evaluate a set of different operations and engineering methodologies				MN5543 MN5502
7	K	A developed and critical understanding of elements of operations concepts				MN5543 MN5508
7	C	The student will be equipped to be able to continue to advance their knowledge and understanding of engineering management areas, and aspire to develop new skills and acquire additional knowledge to an advanced level				MN5554 MN5543 MN5502
7	S	Engineering management students should be confident to exercise high levels of initiative and personal responsibility in their work				MN5543 MN5502
7	S	Students should be confident to make informed decisions in complex and unpredictable scenarios				MN5543 MN5508 MN5502
7	S	Students will be equipped to pursue independent engineering management learning required for either a full MSc or CPD.				MN5554 MN5508 MN5502

Learning/teaching strategies and methods to enable learning outcomes to be achieved, including formative assessments

Acquisition of above points is achieved via a combination of lectures, seminars, group tutorials. Study materials and directed private study as appropriate:
Lectures are (generally) used to deliver essential material. Seminars are generally used to apply acquired knowledge via exercises and/or to develop critical insight or reflect on material.
Directed private study is used to (a) supplement and consolidate the points above and (b) broaden individual knowledge and understanding of the subject matter.

Summative assessment strategies and methods to enable learning outcomes to be demonstrated.

A variety of assessment methods are used depending on the learning outcomes of the modules. These include examination, coursework, and in-person assessment (assessments not covered by examination and course work but require the candidate to be present to perform the assessment such as for example oral presentations, practical/professional body proficiency examination).

25. Programme Structure, progression and award requirements

Programme structures and features: levels, assessment blocks, credit and progression and award requirements

- **Compulsory block:** one which all students registered for the award are required to take as part of their programme of study. These will be listed in the left hand column;
- **Optional block:** one which students choose from an 'option range'. These will be listed in the right hand column;
- A **core assessment** is an assessment identified within an assessment block or modular block (either compulsory or optional) which must be passed (at grade C- or better) in order to be eligible to progress and to be eligible for the final award. All core assessments must be specified on the programme specification next to the appropriate assessment or modular block:

Where students are expected to pass the block at C- or better, but not necessarily all elements, then the block itself is core.

e.g. AB5500 Project (40)
Core: Block

Where only some elements of assessments are required to be passed at C- or better, these will be identified by listing each element that is core

e.g. ABXXX1 Title (XX credits)
Core: 1 & 4

Where students are expected to pass all assessments in a block then this will be identified. By setting the assessment this way, students are also required to pass the block by default. This will be identified thus:

e.g. ABXXXX Title (XX credits)
Core: All, Block

- A **non-core assessment** does not have to be passed at grade C- or better, but must D- or better in order to be eligible for the final award.

Level 7	
Compulsory assessment block codes, titles and credit	Optional assessment block codes, titles and credits
Compulsory study block codes, titles and credit volume	Optional Study block codes, titles and credit volume
Compulsory modular block codes, titles and credits All modules are 15 credits unless otherwise specified <u>Full time</u> MN5502 Manufacturing Systems Design & Economics MN5508 Project Management MN5543 Systems Modelling and Simulation MN5554 Quality Management and Reliability <u>Part time- Year 1</u> MN5502 Manufacturing Systems Design & Economics MN5508 Project Management <u>Part time- Year 2</u> MN5543 Systems Modelling and Simulation MN5554 Quality Management and Reliability	Optional modular block codes, titles and credits None
Level 7 Progression and Award Requirements As per Senate Regulation 3	

Please note: this specification provides a concise summary of the main features of the programme and the learning outcomes that a student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods can be found in the modular block, assessment and study block outlines and other programme and block information. The accuracy of the information contained in this document is reviewed by the University from time to time and whenever a modification occurs.