Template C4

Programme Specification

Title of Course: *BEng (Hons) Mechanical Engineering top-up*

Date first produced	31/03/2013
Date last revised	17/06/2025
Date of implementation of current version	01/09/2025
Version number	5
Faculty	Faculty of Engineering, Computing and the Environment
Cross-disciplinary	
School	School of Engineering
Department	Department of Mechanical Engineering
Delivery Institution	ESOFT

This Programme Specification is designed for prospective students, current students, academic staff and employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if they take full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes and content of each modules can be found in the course VLE site and in individual Module Descriptors.

SECTION 1: GENERAL INFORMATION

Award(s) and Title(s):	BEng (Hons) Mechanical Engineering top-up
Exit Award(s) and Title(s):	BEng Mechanical Engineering
Course Code *For each pathway and mode of delivery*	UFMEE1MEE01
UCAS code *For each pathway*	H302

Awarding Institution:	Kingston University
Teaching Institution:	ESOFT
Location:	ESOFT Metro Campus (Katubedda), Sri Lanka (ECET)
Language of Delivery:	English
Delivery mode:	Primarily campus based (up to 20% of scheduled L&T hours delivered online)
Learning mode(s):	Full-time
Minimum period of registration:	Full-time - Full-time (FT) – 1 year
Maximum period of registration:	Full-time - Full-time (FT) – 3 years
Entry requirements	The minimum entry qualifications for the programme are: From: Edexcel HND levels: Must pass an approved HND in Mechanical Engineering at 300 credits or more, with at least 140 at Level 5 A minimum International English Language Testing System (IELTS) score of 6.0 (min 5.5 in Speaking, Writing, Listening and Reading) or equivalent is required for those for whom English is not their first language.

Regulated by	The University and its courses are regulated by the Office for Students
Programme Accredited by:	
Approved Variants:	There are no variants to the Undergraduate Modular Scheme (UMS).
Is this Higher or Degree Apprenticeship course?	No

SECTION 2: THE COURSE

A. Aims of the Course

The general aims of the course are:

- To equip graduates with the engineering, design, management, business and personal skills required to become competent Mechanical Engineers, as well as enabling them to follow careers in related professional disciplines.
- To enhance and develop the skills and knowledge gained during the Higher National Diploma programme.

More specific aims of the course are:

- To produce graduates with a breadth and depth of knowledge and a comprehension of the key aspects of Mechanical Engineering.
- To allow graduates to communicate effectively orally and in writing and to use sketches and diagrams to convey engineering ideas and concepts.
- To develop graduates with an aptitude for applying technology to engineering problems.
- To prepare graduates with an ability to solve design problems and the technical skills needed to realise these solutions.
- To equip graduates with the research skills required for postgraduate study and employability skills required for work in the mechanical and related industries
- To furnish graduates with a firm grasp of sustainability and Health and Safety.

B. Programme Learning Outcomes

The programme learning outcomes are the high-level learning outcomes that will have been achieved by all students receiving this award. They have been aligned to the levels set out in ‘Sector Recognised Standards in England’ (OFS 2022).

Programme Learning Outcomes					
	Knowledge and Understanding On completion of the course students will be able to:		**Intellectual Skills** On completion of the course students will be able to		**Subject Practical Skills** On completion of the course students will be able to
A6	Relate their studies to a knowledge and understanding of sustainability and the environmental impact of their industry	B6	Recognise the importance of professional bodies and the professional conduct expected of Incorporated Engineers	C4	Use appropriate industry-standard computer software in the solution of practical problems
A5	Demonstrate their understanding of the importance of Health and Safety in the engineering industry	B5	Demonstrate a positive attitude to learning that encourages continuing professional development throughout their careers	C3	Use a range of equipment, gaining a basic appreciation of the application of the technology
A4	Relate management and business applications to mechanical engineering	B4	Manage projects, people, resources and time taking account of legal and statutory requirements, risk, safety, quality and reliability	C2	Undertake practical work and analyse the data obtained for use in planning and design
A2	Demonstrate knowledge of electrical and electronic systems, control and manufacturing	B1	Apply fundamental theoretical principles that underpin engineering and specifically mechanical engineering	C1	Use workshop and laboratory equipment safely for manufacture and experimental investigation
A1	Demonstrate knowledge and understanding of the core mechanical engineering subjects of statics, dynamics, materials, thermodynamics, fluid mechanics and design	B2	Use mathematics as a tool for solving engineering problems, communicating results, concepts and ideas	C5	Comply with Health and Safety regulations within the work place and as they apply to mechanical design

A3	Show a knowledge of broader technical and non-technical engineering subjects	B3	Solve standard practical engineering design problems		

C. Future Skills Graduate Attributes

In addition to the programme learning outcomes, the programme of study defined in this programme specification will engage students in developing their Future Skills Graduate Attributes:

1. Creative Problem Solving
2. Digital Competency
3. Enterprise
4. Questioning Mindset
5. Adaptability
6. Empathy
7. Collaboration
8. Resilience
9. Self-Awareness

D. Outline Programme Structure

Full details of each module will be provided in module descriptors and in the module canvas pages.

BEng (Hons) Mechanical Engineering top-up

Level 6							
BEng (Hons) Mechanical Engineering top-up							
Core modules	**Module code**	**Credit Value**	**Level**	**Teaching Block**	**Pre-requisites**	**Full Time**	**Part Time**
Business Management and Quality Systems	ME6010	30	6	1&2			
Computer Aided Engineering and Mechatronics	ME6131	30	6	1&2			
Individual Project (BSc)	ME6114	30	6	1&2			
Industrial Group Project	ME6115	30	6	1&2			

Exit Awards at Level 6

Students exiting the programme without completing the full 120 credits but have successfully completed 60 credits at level 6 or above are eligible for the award of an Ordinary Degree.

E. Teaching, Learning and Assessment

This course uses a range of teaching and assessment methods which have been designed to support students' learning and achievement of the learning outcomes. The course has been developed with reference to the Kingston University Academic Framework which sets-out core principles relating to Course and Credit Structure (including Module delivery Structure and Pattern, and Learning Hours and Learning Formats); Curriculum Design (inclusion Learning Design Principles and Inclusive Curriculum); and Future Skills.

Teaching and Learning on the course consist of Scheduled Learning and Teaching and Guided Independent Study (self-managed time). Scheduled Learning and Teaching includes the following, and the format for each module is set out in the module specification:

- Laboratory Sessions
- Lectures
- Seminars
- Tutorials
- Workshops
- Placements

Guidance for students on the use of independent study time is communicated through the 'Succeed in your module' section on the Canvas Virtual Learning Environment and through other communications during the course.

In addition to the core Scheduled Learning and Teaching activities for the course, the University may offer students additional optional opportunities for learning. Examples of these include Study abroad and Work-based learning.

The course will provide students with the opportunity to develop their knowledge and skills relating to at least two United Nations Sustainable Development Goals (UN SDGs). We are committed to empowering students with the knowledge, skills and opportunities to understand and address the UN SDGs: each course is thus also required to prepare students for at least two of the SDGs (not including Quality Education, which all courses must deliver).

F. Support for Students and their Learning

Students are supported through a range of services that provide academic and wider support. These include:

- A Module Leader for each module
- A Course Leader to help students understand the course structure
- Personal Tutors to provide academic and personal support
- Technical support to advise students on IT and the use of software

- Student Voice Committee – to ensure the views of students are heard
- Canvas – Kingston University's Virtual Learning Environment
- Student support facilities that can provide advice on issues such as finance, regulations, legal matters, accommodation, international student support
- Disabled student support
- The Kingston Students' Union

Student Development and Graduate Success

G. Ensuring and Enhancing the Quality of the Course

The University has policies and procedures for evaluating and improving the quality and standards of its provision. These include:

- Continuous Monitoring of courses through the Kingston Course Enhancement Programme (KCEP)
- Student evaluation including Module Evaluation Questionnaires (MEQs), the National Student Survey (NSS)
- Internal and external moderation of graded assignments

H. External Reference Points

External reference points which have informed the design of the course. These include:

- QAA Subject benchmarks
- Other subject or industry standards

I. Development of Course Learning Outcomes in Modules

This table maps where programme learning outcomes are **summatively** assessed across the **core** modules for this course. It provides an aid to academic staff in understanding how individual modules contribute to the course aims, a means to help students monitor their own learning, personal and professional development as the course progresses and a checklist for quality assurance purposes.

Module Code		**Level 6**			
		ME6131	**ME6115**	**ME6010**	**ME6114**
Knowledge & Understanding	A6	F	S	S	S

	A5		S		F
	A4		S	S	F
	A2	S	F		S/F
	A1	S	S		S/F
	A3	F	S	S	S/F
Intellectual Skills	B6		F	S	F
	B5	F	S	F	S
	B4		F	F	F
	B1	S	F		F
	B2	S	F	F	F
	B3	S	S		S
Practical Skills	C4	S	S	F	F
	C3	F	S		F
	C2	S	F		F
	C1	S	F		F
	C5	F	S		F

Students will be provided with formative assessment opportunities throughout the course to practise and develop their proficiency in the range of assessment methods utilised.

Additional Information