Template C4

Kingston University London

Programme Specification

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

Date first produced	07/01/2013
Date last revised	08/07/2025
Date of implementation of current version	01/09/2025
Version number	21
Faculty	Faculty of Engineering, Computing and the Environment
Cross-disciplinary	
School	School of Engineering
Department	Department of Aerospace and Aircraft Engineering
Delivery Institution	Nilai University, Malaysia

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) Aircraft Engineering top-up
Exit Award(s) and Title(s):	BEng Aircraft Engineering
Course Code *For each pathway and mode of delivery*	UPAIE1AIE24
UCAS code *For each pathway*	H416

Awarding Institution:	Kingston University
Teaching Institution:	Nilai University, Malaysia
Location:	Nilai University, Malaysia
Language of Delivery:	English (at all delivery sites)
Delivery mode:	Primarily campus based (up to 20% of scheduled L&T hours delivered online)
Learning mode(s):	Full-time Part-time
Minimum period of registration:	Full-time - 1 Part-time - 2
Maximum period of registration:	Full-time - 2 Part-time - 4
Entry requirements	The entry requirements for the programme will be satisfied by successful completion of the following KU validated programmes: FD Aircraft Engineering FD Applied Aircraft Engineering (Online) EASA Category B licence holders Applicants who are practising aircraft maintenance engineers in possession of non-EASA licenses that are equivalent to an EASA category B licence, or who have completed a programme of study considered equivalent to one of the KU levels 4/5 validated programmes will be considered on individual basis. These applicants

	may be expected to complete an entry test and attend an interview.
Regulated by	The University and its courses are regulated by the Office for Students.
Programme Accredited by:	Kingston University : RAeS Nilai University College – Kuala Lumpur: RAeS
Approved Variants:	None.
Is this Higher or Degree Apprenticeship course?	No

SECTION 2: THE COURSE

A. Aims of the Course

The aims of the programme are to:

- Provide students with an understanding of the broader aspects of aircraft maintenance outside the scope of knowledge gained from aircraft maintenance engineering FDs, vocational courses and work experience.
- Develop and enhance the academic, professional and personal skills necessary for registration as Incorporated Engineers.
- Provide students with the knowledge and skills necessary for them to exploit their potential in the furtherance of their careers and ultimately become proficient managers in the aircraft maintenance industry.

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
A1	Apply the fundamental principles of aerodynamics, propulsion, structures and materials to air vehicle performance problems	B1	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.	C1	Work individually or as part of a team to initiate, plan and manage a complex project and drive it to a successful conclusion.
A2	Apply business methods to, and assess the economic and financial aspects of aviation projects.	B2	Communicate information, ideas, problems and solutions to both specialist and non-specialist audiences both orally and in writing.	C2	Recognise, evaluate and analyse problems; identify and investigate solutions, and present and explain their findings orally and in writing.
A3	Use their knowledge and understanding to analyse an airline transport or engineering issue and develop a solution for it.	B3	Demonstrate that they have the intellectual skills necessary for IEng registration and to hold senior posts in the aviation industry.	C3	Produce typical project plans and other project planning and management related documentation.

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 VLE pages.

BEng(Hons) Aircraft Engineering top-up

Level 6							
BEng(Hons) Aircraft Engineering top-up							
Core modules	**Module code**	**Credit Value**	**Level**	**Teaching Block**	**Pre-requisites**	**Full Time**	**Part Time**
Air Transport Economics	AE6601	30	6	Year Long		1	
Aircraft Maintenance Operations (Group Design Solution)	AE6025	15	6	TB2		1	
Aircraft Performance, Materials Failure and Structural Analysis	AE6027	30	6	Year Long		1	
Apply with Aircraft Maintenance	AE6005	15	6	TB1		1	

Individual Project – I (Ref: IEng)	AE6017	30	6	Year Long		1	

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 could include:

- PSRB standards
- 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				
		AE6601	AE6025	AE6027	AE6005	AE6017
Knowledge & Understanding	A1					
	A2					
	A3					
Intellectual Skills	B1					
	B2					
	B3					
Practical Skills	C1					
	C2					
	C3					

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