

# Bachelor of Science (Honours) Aircraft Engineering - Top Up

Accredited by:



**MAR / SEP INTAKE  
(Full-Time / Part-Time)**

## Course Description

This course is designed as a Top Up for the Foundation Degree in Aircraft Engineering (FdEng) and provides an Incorporated Engineer status with the Royal Aeronautical Society, United Kingdom. It also offers an opportunity for licensed aircraft maintenance engineers to obtain an academic qualification and recognition of their training / experience.

This course comprises four modules, *AE6200 Individual Project (Aircraft IEng)*, *AE6201 Aircraft Maintenance Operations*, *AE6204 Aerospace Technology* and *AE 6601 Air Transport Economics*.

## Admission Requirement

The basic requirement is a Foundation Degree in Aircraft Engineering (FdEng), or a SAR / EASA Part 66 Cat B1.1 or B2 licence, or its equivalent. Applicants who have completed an EASA or JAR approved course, but do not hold a category B1.1 or B2 licence will be considered on a case by case basis by Kingston University if they have an academic qualification similar to the Foundation Degree in Aircraft Engineering (FdEng).

*Note: Applicant without Kingston University's Foundation Degree in Aircraft Engineering (FdEng) needs to sit for a qualifying entrance test prior to acceptance into the Bachelor of Science (Honours) Aircraft Engineering - Top Up.*

## Course Duration

Full-time Top Up:	1 year
Monday to Friday:	9.00am to 5.00pm
Part-time Top Up:	2 years
Monday, Wednesday, Friday:	7.00pm to 10.00pm

## Application Fee (non-refundable)

- Singaporeans & Singapore PR : S\$200
- International: S\$500

## Course Fee

- Course Fee (Full-Time) : S\$10,000 (1<sup>st</sup> payment) + S\$10,000 (2<sup>nd</sup> payment due 6 months after course commencement) = S\$20,000
- Course Fee (Part-Time) : S\$10,000 (1<sup>st</sup> payment) + S\$10,000 (2<sup>nd</sup> payment due 1 year after first payment) = S\$20,000

All fees quoted above are exclusive of GST

**Kingston University London**

**Course Commencement is subjected to the minimum number of participants**



Professional Development Centre of the Singapore Institute of Aerospace Engineers

ERF Registration Number: 199901790H

From 6 August 2014 to 5 August 2018

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**AE6200 Individual Project (Aircraft IEng)**

The overarching aim of this individual project module is to provide each student with the opportunity to impress. Working on a topic of their own choosing, the student, with minimal guidance from their supervisor, should apply approximately 300 hours of individual effort into the analysis of a problem and determination of the best solution and/or course of action.

The analysis can take a variety of forms ranging from an indepth comparison of a number of already documented potential solutions to the collection and comparison of experimental and theoretical data.

The topic investigated should ideally be of an aircraft maintenance or engineering nature, though other topics may be permitted with the agreement of the module leader.

By completing a capstone project of this type, each student is able to demonstrate that they can draw together the information from all the other teaching and learning on the course and past learning and experience; and through innovation and analysis, demonstrate that they truly are independent learners.

**AE6204 Aerospace Technology**

This module is designed from a range of aerospace related technologies.

It provides an understanding of how the principles of aerodynamics, propulsion, structures and materials science all contribute to the challenges in configuration and performance of fixed and rotary wing aircraft.

**AE6601 Air Transport Economics**

This module complements the technical challenges within the air transport industry whether be it in aircraft technologies, maintenance, operations or repair and overhaul. The aim of this module is to take a step back and explore how employers within the various sectors of the air transport industry combine all these functions in order to make a profit.

In addition to looking in detail at the overall profit and loss equation, the module also compares the operation of the air transport market with that in other sectors and, in more general terms, looks at what makes industry tick. It also looks at the standard methods of recording and reporting financial performance.

On successful completion of this module, students should understand how their future role will contribute to their employer's success. The underlying grounding in market and financial perspectives will also benefit the students in sectors other than air transport.

**AE6201 Aircraft Maintenance Operations**

This module is designed to encourage independent learning and develop the skills required of those holding senior posts in the aviation industry; particularly in the field of aircraft maintenance.

It therefore provides an ideal opportunity for the student to develop and demonstrate a number of intellectual, practical and transferable skills. The module starts by briefly examining maintenance cost drivers, airline logistic support processes and cooperative logistic support strategies before moving onto project planning.

In project planning, the basic processes of determining tasks, writing aims and objectives and estimating time are considered before looking at the planning and mapping of projects using network diagrams and finally network analysis.

The purpose of completing the preparatory studying is to prepare students for what is to follow: a significant group exercise in which student's work together to produce a realistic and cost effective maintenance solution for an airline operation.

The details of which (routes, flight schedule, aircraft details etc.) are provided by the course team.

The project involves reviewing the "scenario" to determine the exact requirements, planning for successful completion of the project, identifying options and determining costs through research, analysing data collected and formulating an evidence-based solution and presenting the findings.

As part of the project, students will produce a project plan, do a group presentation, produce a substantial written report, and maintain a project log book.

**Kingston University London**

Kingston University London is one of UK's highest rated universities and has a worldwide reputation for its aerospace and engineering courses. Currently there are more than 20,000 students studying in seven different faculties.

It has four campuses in the south west of the capital – two close to Kingston town centre, another at Kingston Hill and the fourth at Roehampton Vale, a site once used as an aerospace factory but is now occupied by a new technology block.

The University has an array of cutting-edge equipment including a flight simulator and LearJet. Its two-year Foundation Degree in Aircraft Engineering is regularly cited by British Government officials as an outstanding example of employer-linked education. The University offers a range of internationally-recognised qualifications.

All universities in the United Kingdom are subject to independent assessments of their teaching quality. In 2006, The Guardian newspaper ranked Kingston as the top new university in London. In its most recent University league table, The Sunday Times praised Kingston's record for teaching quality saying it positioned the University "in the vanguard of the modern university sector" and describing it as "a match for many older institutions".



The information contained in this brochure is correct as of **9 March 2018** and is subject to change without notice. ATTC reserves the right to make changes to the programme structure, admission requirements, course fee, examination rules and regulations, lecturers, dates and venue of lectures.

To apply for admission into the Bachelor of Science (Honours) Aircraft Engineering - Top Up, please apply personally at the college.



Cert No: EDU-2-2031  
Validity: 28Dec2015 to 27Dec2019

# Academic Progression Pathway



Course Application Fee for each course  
 S\$200 (SG/SPR)  
 S\$500 (International Students)



Fees shown are excluding of GST

## Career Opportunities in Aviation Industry (5.1 years)

**MAR / SEP Intake 1 Year Full Time** | **MAR / SEP Intake 2 Years Part Time**

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**Bachelor of Science (Honours)  
 Aircraft Engineering – Top Up**  
**Kingston University London**

**S\$20,000  
 (No Funding)**

Qualifying Entrance Exam

**Compulsory Bridging Course**

**S\$981**

**MAR / SEP Intake 2 Years 3 Months Full Time**

WSQ Aligned:



**Foundation Degree in  
 Aircraft Engineering (FdEng)**  
**Kingston University London**

**S\$49,350** (S\$24,350\*)

Qualifying Entrance Exam

**Compulsory Bridging Course**

**S\$817.50**

**MAR / SEP Intake 1 Year Full Time**

WSQ Aligned:



**Specialist Diploma in Aircraft  
 Maintenance & Engineering (SAME)**  
**Air Transport Training College**  
Professional Development Centre of the Singapore Institute of Aerospace Engineers

**S\$20,370** (S\$6,111\*)

Acceptance to SAME course based on 85%  
 Attendance, Passing Grade 75%

**MAR / SEP Intake 8 Months Full Time**

**S\$15,750** (S\$2,750\*)

**MAR / SEP Intake 1.5 years Part Time**

**Applied Diploma in  
 Aerospace Maintenance (ADAM)**



WSQ Aligned:



**Applied Diploma in  
 Aerospace Maintenance (ADAM)**



**\*Note: SSG funding is only applicable to all Singapore Citizens and Singapore Permanent Residents, PSEA Applicable**



# Air Transport Training College

Professional Development Centre of the Singapore Institute of Aerospace Engineers



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For more information on SkillsFuture Singapore:  
[www.skillsfuture.sg](http://www.skillsfuture.sg)