AEROSPACE ENGINEERING

Temasek Polytechnic
School of Engineering

Turbocharge your career in the Aerospace industry!

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AEROSPACE ENGINEERING

Course Overview

This course equips you with a strong foundation specialising in aerodynamics, as well as aircraft engines, structures and systems. You will have the option to embark on a 6-month practical training stint in our Lufthansa Technical Training (LTT) Centre and be trained by expert Aerospace instructors certified by LTT of Germany.

- First polytechnic in Singapore to be certified by the Civil Aviation Authority of Singapore (CAAS) as a SAR-147 Approved Maintenance Training Organisation (AMTO)
- Aligned to the latest SAR-66 curriculum
- Get direct credits to shorten your subsequent Aircraft Maintenance Licence (AML) apprenticeship by 10 months
- Well-equipped TP-LTT Training Centre on campus
- As part of your course, you can take flying lessons at the Singapore Youth Flying Club leading to a Private Pilot Licence (PPL).

Career Opportunities

As the aerospace sector in Singapore continues to pick up speed, don't miss out! Tap into opportunities in this fast-expanding industry, which has an output worth S$15.4 billion (2023) and hires more than 20,000 workers spread across more than 100 local and international companies in Singapore.

There will be exciting job opportunities in various aerospace sectors such as aircraft maintenance repair & overhaul (MRO), aerospace components design & development, aircraft engine services, technical sales, and servicing of aircraft system & components.

You will be highly sought after as:

- Aerospace Component Design Engineers
- Aero-Mechanical Systems Specialists
- Aircraft Maintenance Engineers
- Engine / Powerplant Technologists
- Structural / Composites Specialists

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What You'll Study

Select the Option that brings your dream job to life!

Year 1:
- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1
- Electronic Devices & Circuits
- Engineering Drawing
- Engineering Mathematics 1 & 2
- Engineering Physics
- Statics & Strength of Materials
- Thermodynamics

Year 2:
- Aircraft Electrical Fundamentals
- Aircraft Electronics & Digital Systems
- Artificial Intelligence in Engineering
- Aviation Legislation & Human Factors
- Basic Aerodynamics
- Data Visualisation & Analytics
- Engineering Materials
- Engineering Mathematics 3
- Fluid Mechanics
- Gas Turbine Engine
- Principles of Dynamics

Year 3:
Aerospace System Design (ASD) Option #
- Aircraft Structures & Composites
- Engine Maintenance & Workshop Practices
- Major Project

Lufthansa Technical Training (LTT) Option ^
- Aerospace Maintenance Practices

Students must choose either # or ^

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T51
Diploma in Aerospace Engineering

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