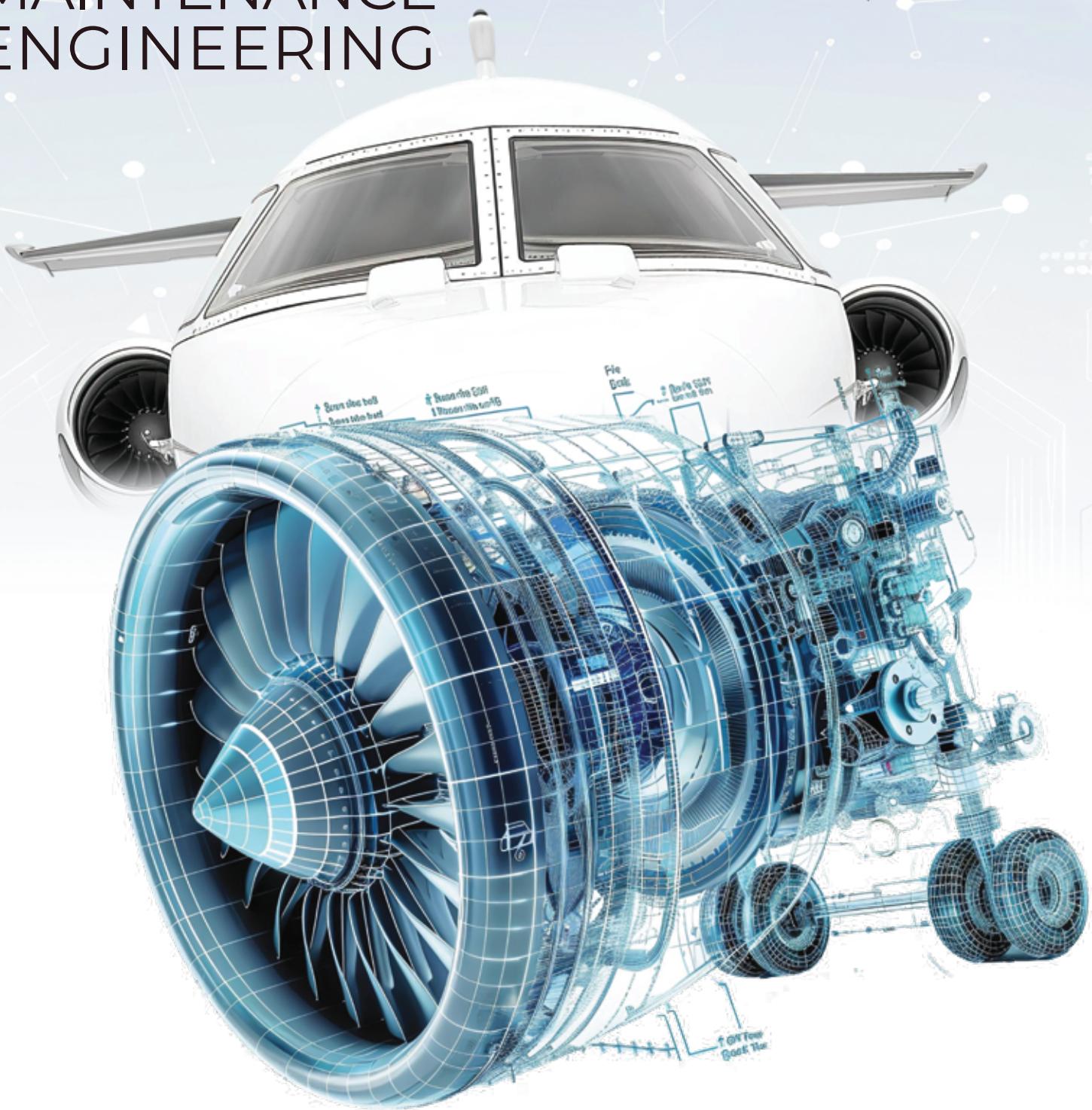




AIRCRAFT MAINTENANCE ENGINEERING



5 STARS
IN 6 CATEGORIES

Teaching| Academic Development| Employability
Facilities| Inclusiveness| Specialist Criteria (for MBA)

www.nilai.edu.my

AIRCRAFT

MAINTENANCE ENGINEERING

DIPLOMA IN AIRCRAFT MAINTENANCE ENGINEERING

JPT/BPP/R2/0715/5/0018/04/27, (MQA/FA1380)

DURATION

2.5 years (including 6 months of On Job Training)

INTAKE

January / June / September

SCHOLARSHIP/AID

Available

PROGRAMME MODULE

Year 1

Core Modules

- Mathematics
- Physics
- Basic Aerodynamics
- Electrical Fundamentals I
- Electrical Fundamentals II
- Materials and Hardware
- Electronic Fundamentals
- Maintenance Practices I
- Maintenance Practices II
- Aviation Legislation
- Airframe Structures
- Academic English with Research

Year 2

Core Modules

- Human Factors
- Theory of Flight and Flight Controls
- Air Conditioning, Cabin Pressurisation and Oxygen Systems
- Turbine Engine and APU
- Digital Techniques and Electronic
- Instrument System
- Aircraft Hydraulics and Pneumatics
- Aircraft Landing Gears and Brakes
- Instrument and Avionics Systems
- Aircraft Electrical Systems
- Final Year Project

Compulsory Modules (MPU Subjects)

- Graduate Preparatory Course
- Bahasa Kebangsaan A
- Penghayatan Etika Dan Peradaban (Malaysian Students) OR Bahasa Melayu Komunikasi (International Students)
- Co-curriculum
- Integrity and Anti-corruption

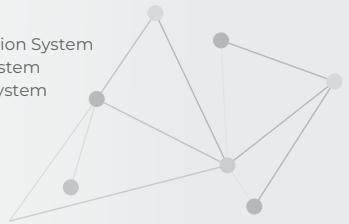
Elective Modules (Choose one set)

Set 1

- Engine Lubrication, Fuel and Air Systems
- Propeller
- Engine Operation and Maintenance

Set 2

- Aircraft Communication System
- Aircraft Autoflight System
- Aircraft Navigation System



*On Job Training begins at the completion of year 2

SUMMARY OF ENTRY REQUIREMENTS

SPM	<ul style="list-style-type: none">A pass with at least credit in three (3) subjects including Mathematics and, sciences or technical based subjectsA pass with at least credit in three (3) subjects including science or technical based subject and a pass in Mathematics. A bridging course in Mathematics is required
VOCATIONAL/TECHNICAL CERTIFICATE	<ul style="list-style-type: none">Certificate in Engineering or Engineering TechnologySijil Kemahiran Malaysia (SKM) Level 3 / Sijil Vokasional Malaysia (SVM) in related fields
APEL.A	<ul style="list-style-type: none">APEL.A T-4 with appropriate experience

ENGLISH REQUIREMENTS (for international students)

IELT: 5.0/ MUET: 3.5/ TOEFL: 40 (iBT), 7.5 (Ess)/ PTE: 47/ Linguaskill OL: 154/ ELS: 107

HEALTH REQUIREMENTS

All offers are subject to the students being certified by a medical practitioner as fit to be accepted into the programme within a month from commencement of the aircraft maintenance programme and not having any of the following medical/physical conditions:

- Colour Blindness
- Hearing Impairment
- Asthma

AIRCRAFT

MAINTENANCE ENGINEERING

ADVANCED DIPLOMA IN AIRCRAFT ENGINEERING TECHNOLOGY (ADAE)

JPT/BPP(R2/525/5/0018)04/27, (MQA/FA1380)

DURATION

1 year for Nilai University
Graduates
*1 year and 1 semester for
other Institution Graduates

INTAKE

January / June / September

SCHOLARSHIP/AID

Available

PROGRAMME MODULE

*Year 1

Core Modules

- Research Methods and Design
- Aerospace Technology I
- Air Transport Economics I
- Aircraft Maintenance Operations I
- Aircraft Engineering Individual Project I
- Aerospace Technology II
- Air Transport Economics II
- Aircraft Maintenance Operations II
- Aircraft Engineering Individual Project II
- Unmanned Aerial Vehicle Operations

Elective Module (Choose one module)

- Aviation Safety OR
- Airline and Airport Operations OR
- Air Traffic Management

Compulsory Modules (MPU Subjects)

- Co-curriculum
- Penghayatan Etika Dan Peradaban (Malaysian Students)
OR Bahasa Melayu Komunikasi I (International Students)
- Integrity and Anti-corruption

Year 2

Compulsory Modules (MPU Subjects)

- Graduate Preparatory Course
***Bahasa Kebangsaan A

*For students who have not taken MPU subjects and other
Institution Graduates (1 year and 1 semester)

**For students who have already taken the MPU subjects in the
Diploma at Nilai University is not required to take the MPU subjects
(1 year)

***Students who do not have credit in Bahasa Melayu at SPM level,
must take Bahasa Kebangsaan A course as MPU course.



SUMMARY OF ENTRY REQUIREMENTS

Diploma (Level 4, MQF)
in related field

- Graduated with Diploma in Aircraft Maintenance Engineering or related field (Level 4, MQF) with minimum GCPA 2.00; or
- A pass in SPM or equivalent; or
- A pass in SPM English; or its equivalent

ENGLISH REQUIREMENTS (for international students)

IELTS: 5.0/ MUET: 3.5/ TOEFL: 40 (iBT), 7.5 (Ess)/ PTE: 47/ Linguaskill OL: 154/ ELS: 107

HEALTH REQUIREMENTS

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AIRCRAFT

MAINTENANCE ENGINEERING

BACHELOR OF SCIENCE (HONS) IN FLIGHT OPERATIONS

*PT/BPP(N/1041/6/0011), 06/30, (MQA/PA18174)

DURATION

3 Years

INTAKE

January / June / September

SCHOLARSHIP/AID

Available

PROGRAMME MODULE

*Year 1

Core Modules

- Technical Mathematics
- Aviation Physics
- Aerodynamics
- Human Factors
- Co-Curriculum
- Electrical Theory I
- Electrical Theory II
- Electronic Theory
- Theory of Flight and Flight Control
- Digital Techniques and Electronic Instrument Systems
- Penghayatan Etika Dan Peradaban (Malaysians) / Bahasa Melayu Komunikasi I (International Students)
- Aviation Legislation
- Instrument and Avionics Systems
- Aircraft Electrical Systems

*Year 2

Core Modules

- Law of Business
- Principles of Management
- Foundation of Business
- Flight Simulator
- Aircraft Performance
- Airlines Management
- Meteorology
- Air Navigation
- Aircraft Single-Engine System
- Integrity and Anti-Corruption
- Airports Management
- Dangerous Goods & Cargo Handling
- Philosophy and Current Issues

*Year 3

Core Modules

- Aviation Safety
- Crew Resource Management
- Aircraft Accident Investigations
- Final Year Project I
- Project Management in Aviation
- Graduate Preparatory Course
- Aviation Industrial Training
- Final Year Project II

Electives related to core:

Elective I: Aviation Management

- Human Resource Management
- Business Ethics & Social Responsibility
- Air Transport Economics
- Air Traffic Systems
- Logistics Management

Elective II: Flight Management (Private Pilot Licence (PPL))

- Aviation Law
- Aircraft Operations Procedure
- Aircraft Technical and Type
- Visual Flight Rules Communications
- Flight Performance and Planning

Additional Modules

- Malay Language (only for Malaysian students without a credit in SPM BM)
- Bahasa Kebangsaan A

SUMMARY OF ENTRY REQUIREMENTS

STPM

- Pass with at least Grade C (GP 2.00) in any two (2) subjects; or

A-Level

- Pass with at least Grade D in any two (2) subjects; or

United Examination Certification (UEC)

- Pass with at least Grade B in five (5) subjects and pass in Mathematics and English ; or

STAM

- Pass with at least Grade of Jayyid (good) and pass in Mathematics and English at the Sijil Pelajaran Malaysia (SPM) level; or

Matriculation/Foundation

- Pass at least CGPA 2.00; or

Diploma (Level 4, MQF)/ Advanced Diploma (Level 5, MQF)

- Pass at least CGPA of 2.00

ENGLISH REQUIREMENTS (for international students)

International students are required to achieve a minimum score of 5.0 (IELTS) / TOEFL 40 (iBT), 7.5 (Essl) / 47 (Pearson) / 3.5 (MUET) / 154 (Linguaskill OL) / 107 (ELS).

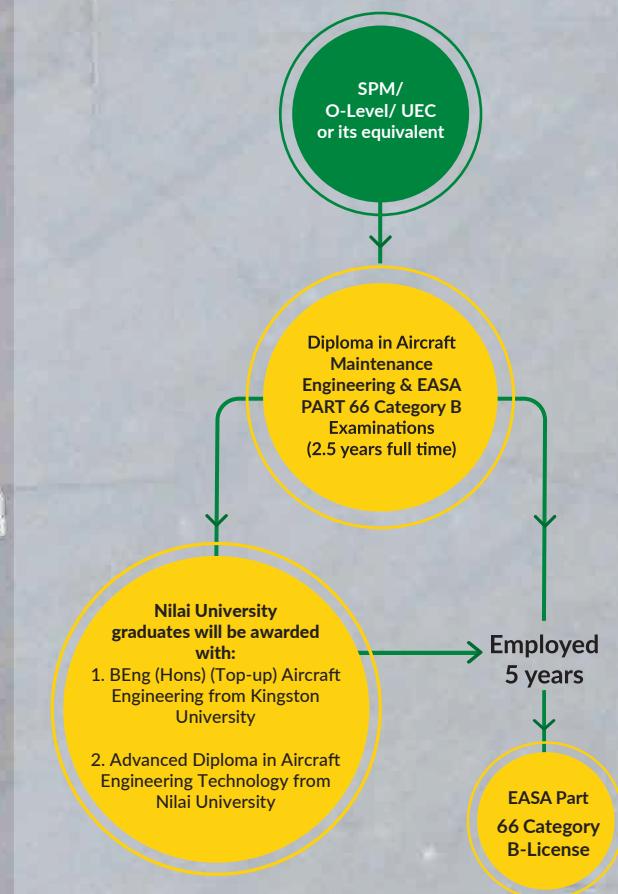
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- Hearing Impairment
- Asthma



ACADEMIC PROGRESSION



CAREER PROSPECTS

- Aircraft Maintenance Technician
- Aircraft Maintenance Engineer (Mechanical)
- Aircraft Maintenance Engineer (Avionics)
- Aero Components Repair Technician
- Quality Assurance Engineer
- Airworthiness Inspector
- Technical Service Engineer



ROYAL
AERONAUTICAL
SOCIETY

Nilai University graduates will be awarded with:
BEng (Hons) (Top-up) Aircraft Engineering from Kingston University

AIRCRAFT MAINTENANCE ENGINEERING

For more information, please contact our Education Counsellors.

Student Recruitment Department
Nilai University

Nilai University DU032(N)
No. 1, Persiaran Universiti, Putra Nilai,
71800 Nilai, Negeri Sembilan, Malaysia.

Tel: +606-850 5301/ 2308 | Email: study@nilai.edu.my

Malaysian Students



+6017-350 1188

International Students



+6017-381 6688