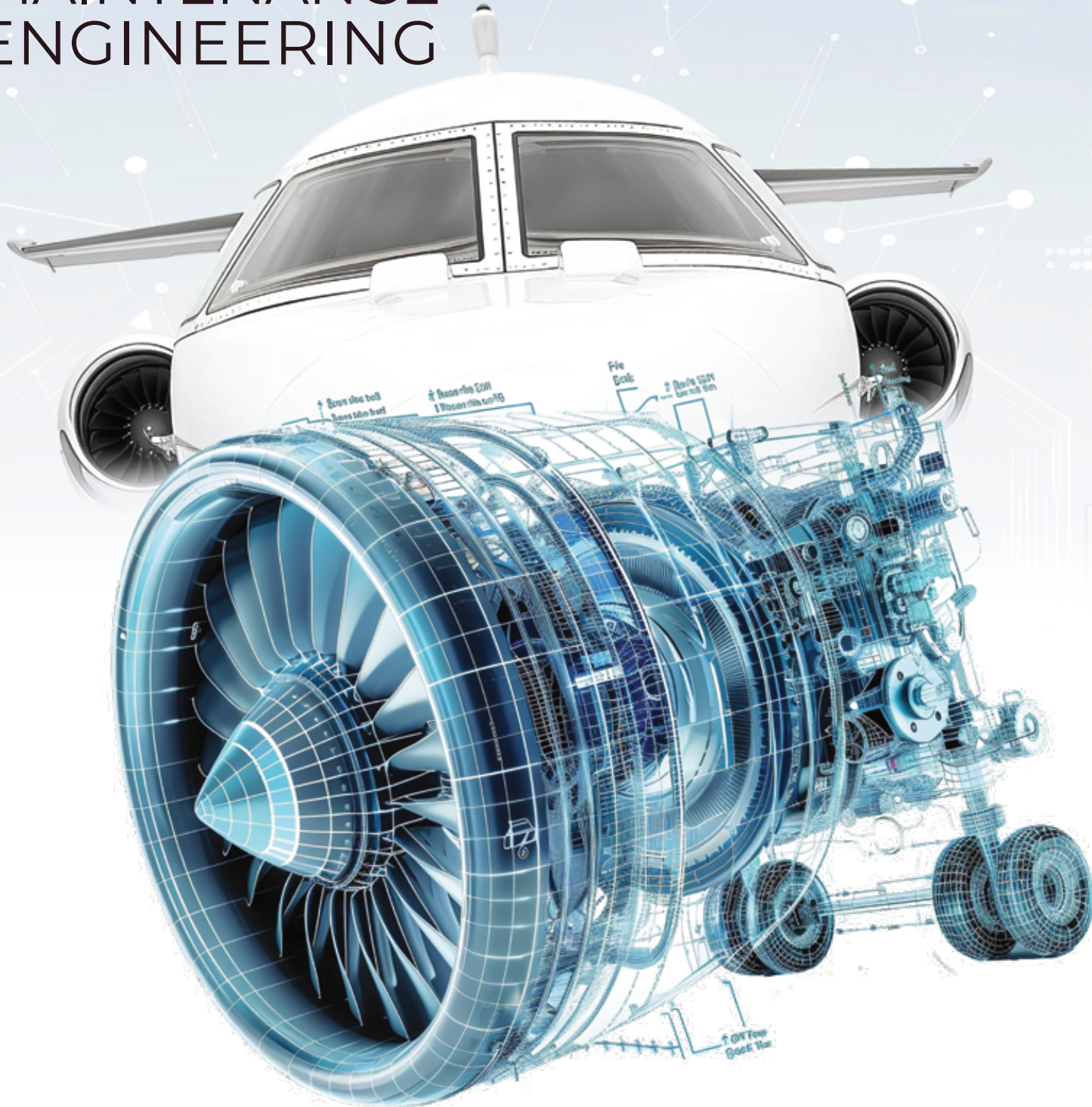


# ENGINEERING



# AIRCRAFT

## MAINTENANCE ENGINEERING

### DIPLOMA IN AIRCRAFT MAINTENANCE ENGINEERING

JPT/BPP(R2/0715/5/0018)04/Z7, (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

##### 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

*\*On Job Training begins at the completion  
of year 2*

#### 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

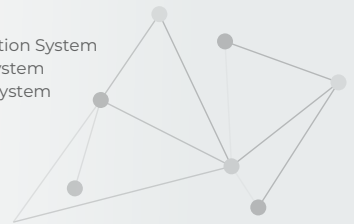
##### Elective Modules (Choose one set)

###### Set 1

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

###### Set 2

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



## SUMMARY OF ENTRY REQUIREMENTS

#### SPM

- A pass with at least credit in three (3) subjects including Mathematics and, sciences or technical based subjects
- A 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

- Certificate in Engineering or Engineering Technology
- Sijil Kemahiran Malaysia (SKM) Level 3 / Sijil Vokasional Malaysia (SVM) in related fields

#### APELA

- APELA T-4 with appropriate experience

#### 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

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

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

### BACHELOR OF SCIENCE (HONS) IN FLIGHT OPERATIONS

JPT/BPP[N/104]/(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 (Ess) / 47 (Pearson) / 3.5 (MUET) / 154 (Linguaskill OL) / 107 (ELS).

#### 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:

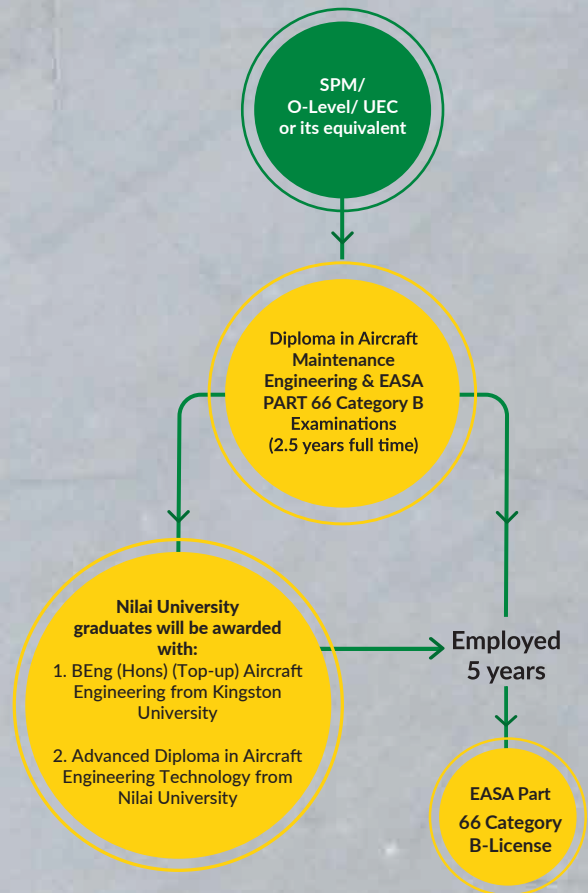
- Colour Blindness • Hearing Impairment • Asthma



## 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

## ACADEMIC PROGRESSION



**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**

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No. 1, Persiaran Universiti, Putra Nilai,  
71800 Nilai, Negeri Sembilan, Malaysia.

Tel: +606-850 5301/ 2308 | Email: [study@nilai.edu.my](mailto:study@nilai.edu.my)

**Malaysian Students**



+6017-350 1188

**International Students**



+6017-381 6688

Nilai Education Sdn Bhd  
Registration No: 19841021536 (307215-P)

Note: For international callers, please dial 0060 followed by our number.

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