



# AIRCRAFT MAINTENANCE ENGINEERING



**5 STARS**  
IN 6 CATEGORIES  
★★★★★  
Teaching | Academic Development | Employability  
Facilities | Inclusiveness | Specialist Criteria (for MBE)

# AIRCRAFT

## MAINTENANCE ENGINEERING

### DIPLOMA IN AIRCRAFT MAINTENANCE ENGINEERING

JPT/BPP/R3/525/4/0020/09/25, (MQA/FA16893)

#### 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 I (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)

MUET B2 / IELTS 4.0 / TOEFL 397(PBT) 30-31(IBT)/CAE 160/CPE 180/PTE 30

### 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/BPPI/R2/S25/5/0018/04/Z7, (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

#### 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:

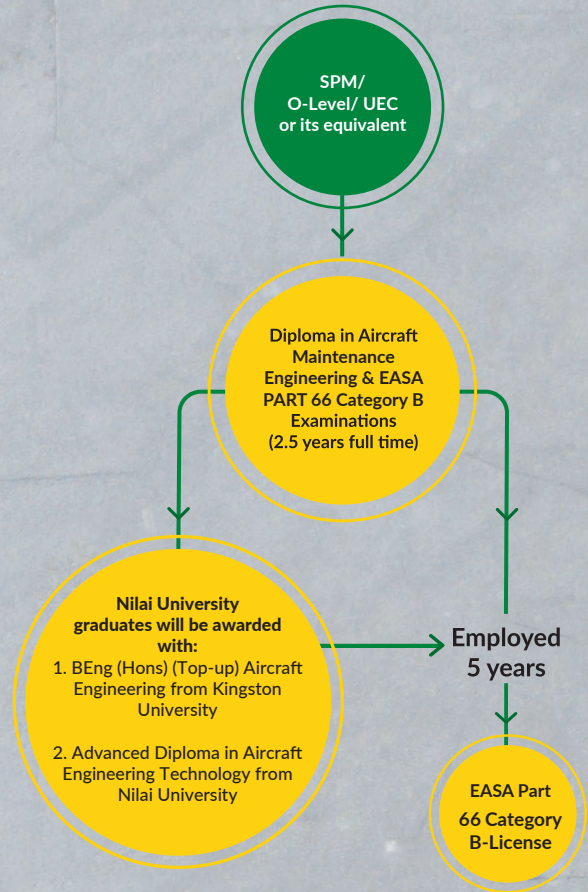
- Colour Blindness
- Hearing Impairment
- Asthma



## 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

Nilai University DU032(14)  
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

