Your ticket to soar in aviation

The affordability of air travel has led to a significant growth in the air carrier industry thus creating a huge demand for aircraft maintenance staff.

Suitably qualified personnel especially those allowed to certify aircraft airworthiness command **high salaries** and are highly sought-after.

Designed to fulfill the demand created by the **booming aviation and travel industries worldwide**, students from Nilai U’s programmes will be trained in the essentials of servicing and maintaining modern aircrafts.
Milestones

NOV 2007
Launch of the Diploma in Aircraft Maintenance Engineering featuring the EASA Part 66 Category B1-1 Modules.

AUGUST 2010
First cohort of students graduate with 90% of the class scoring distinctions.

MAY 2012
Launch of the Advanced Diploma validated by Kingston University UK as a top-up for the grant of a BSc (Hons) Aircraft Engineering from Kingston University UK.
**Diploma in Aircraft Maintenance Engineering**

<table>
<thead>
<tr>
<th>PROGRAMME LEVEL</th>
<th>NILAI U PROGRAMMES</th>
<th>MINIMUM ENTRY REQUIREMENTS</th>
<th>DURATION (YEARS)</th>
<th>INTAKE</th>
</tr>
</thead>
</table>
| DIPLOMA         | Diploma in Aircraft Maintenance Engineering | - SPM -- 3 credits including Mathematics and a Science / Technical / Vocational subject  
- STPM -- Pass with minimum CGPA 2.0 and pass Mathematics, English and a Science / Technical / Vocational subject in SPM  
- UEC -- 3Bs including Mathematics, Science and pass English  
- Matriculation / Foundation / Pre-University - - Pass with CGPA of 2.0 from providers of higher education recognised by Malaysian Government  
- SAM/ AUSMAT/ HSC -- Pass with TER 50% in 5 subjects including Mathematics and Science  
- IB, UK -- Pass with minimum 24 points in 6 subjects including Mathematics and Science  
- CPU/ CIMP -- Pass with minimum 50% in 6 subjects including Mathematics and Science  
- Aircraft Maintenance Engineering Certificate -- Pass with Level 3 (MQF) from recognised IPT with a minimum CGPA of 2.0  
- Certificate in related field from Polytechnic and other recognised IPT -- Pass with Level 3 (MQF) with a minimum CGPA of 2.0  
- Other equivalent qualifications that is recognised by the Malaysian Government | 2¹/₂ | JAN MAY OCT |

**MINIMUM ENGLISH ENTRY REQUIREMENT**

<table>
<thead>
<tr>
<th>PROGRAMME</th>
<th>SPM</th>
<th>GCE / IGCSE</th>
<th>IELTS</th>
<th>TOEFL</th>
<th>NILAI U IEP</th>
</tr>
</thead>
</table>
| Diploma   | CREDIT | MINIMUM GRADE B | BAND 5.0 | PAPER BASED : 520  
COMPUTER BASED : 190  
INTERNETBASED : 68 | -- -- |

For other qualifications, please consult our education counsellors.
**Advanced Diploma** in Aircraft Engineering Technology

Successful candidates of this programme will also receive an internationally-recognised BSc (Hons) in Aircraft Engineering from Kingston University, UK.

<table>
<thead>
<tr>
<th>PROGRAMME LEVEL</th>
<th>NILAI U PROGRAMMES</th>
<th>MINIMUM ENTRY REQUIREMENTS</th>
<th>DURATION (YEARS)</th>
<th>INTAKE</th>
</tr>
</thead>
</table>
| ADVANCED DIPLOMA| Advanced Diploma in Aircraft Engineering Technology | • Pass Nilai U Diploma in Aircraft Maintenance Engineering and a pass in SPM English  
• Pass Diploma (in a related field) and a pass in SPM English subject* | 1 | JAN MAY |

*Applicants with an equivalent to Nilai U Diploma in Aircraft Maintenance Engineering will be considered for this programme on a case-by-case basis.

**MINIMUM ENGLISH ENTRY REQUIREMENT**

<table>
<thead>
<tr>
<th>SPM 119</th>
<th>GCE / IGCSE</th>
<th>IELTS</th>
<th>TOEFL</th>
<th>NILAI U IEP</th>
</tr>
</thead>
</table>
| CREDIT | MINIMUM GRADE C | BAND 6.0 | PAPER BASED : 550  
COMPUTER BASED : 79 | SUCCESSFULLY COMPLETED (OR EXEMPTED) |

For other qualifications, please consult our education counsellors.

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**COURSE PATHWAY**

- SPM / O-Level or equivalent
- Diploma in Aircraft Maintenance Engineering & EASA Part 66 Category B1-1 Examinations  
  - 2½ years full time  
    - (6-month industrial attachment with our industry partners)
- Employment (5 years)
- EASA Part 66 Category B1-1 LICENCE

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**CREDIT TRANSFERS**

The Nilai U Diploma in Aircraft Maintenance Engineering is recognised for credit transfers to the following universities:

- Institute of Technology Carlow, Ireland  
- University of The West of England, Bristol, UK  
- University of South Wales, UK  
- Swinburne University of Technology, Australia

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**HEALTH REQUIREMENTS**

APPLY TO THE AIRCRAFT MAINTENANCE ENGINEERING PROGRAMMES

All offers are subject to the student being certified by a medical practitioner as fit to be accepted into the programme and not having any of the following medical/physical condition:

- COLOUR BLINDNESS // HEARING DEFECTS // ASTHMA
Dr Peter Barrington, Head of Kingston University’s School of Aerospace and Aircraft Engineering, outlines the benefits of completing this one year, top-up degree programme.

Why choose Nilai U as your partner in offering this degree?

We are only interested in working with quality partners. Kingston University must be assured of the standards applied. We have already visited Nilai U three times and are very happy with what we have seen. There is a good match in terms of aircraft engineering subject areas. The key factor is that Nilai U conducts its EASA exams through CAAI which makes us very confident in the standard of knowledge. In addition, the quality systems that Nilai U do have in place and its experience of working with a number of foreign universities made it particularly reassuring to us.

Please explain how this degree works?

Kingston University offers a three-year BSc (Hons) in Aircraft Engineering. Students do a two-year foundation degree at one of our five partner institutions in the UK and they do the final year at Kingston University. Our Foundation Degree is based on the EASA B licence syllabus which is very similar to Nilai U’s diploma programme. There are some differences between the programmes and we are introducing a bridging module to cover these aspects.

So Nilai U’s Diploma programme plus the bridging modules is equivalent to Kingston University’s Foundation programme. Students then only need to do a one-year top up to get the degree.

According to the Malaysian Qualifications Agency (MQA) specifications, one year of post diploma study entitles students to an Advanced Diploma.

But in the UK context, it is an Honours degree. This means graduates will receive both an advanced diploma from Nilai U and a BSc (Hons) in Aircraft Engineering from Kingston University. If students successfully complete the programme with a second class honours, they can progress on to post-graduate studies in the UK.

Can a student proceed to do this Degree in Aircraft Engineering if he/she has completed a Diploma in a differing engineering field?

No. This is because the articulation agreement between Nilai U and Kingston University requires a match of curriculum. Both Nilai U’s diploma and Kingston’s Foundation programmes in this field are based on Part 66 of the EASA syllabus. However, if a student has done an aircraft maintenance engineering programme at a different institution and wants to do the top up degree programme, we will have to evaluate it on an individual basis to ensure they have covered the same curriculum to the same exacting standards.

“This is a highly rewarding and lucrative career. Having a degree will certainly help a person better perform the job and ensure upwards mobility.”

-Dr Peter Barrington
Can Nilai U students opt to finish their degree in the UK after completing Nilai U’s Diploma in Aircraft Maintenance Engineering?

The top up degree is available to those who have completed Nilai U’s Diploma in Aircraft Maintenance Engineering and the bridging modules. To go to the UK, a student will need to complete the bridging modules and also pass an English proficiency test as well. It is less expensive to complete the degree programme at Nilai U.

If you want the experience of studying one year in the UK, the more sensible option would be to complete the honours degree at Nilai U, then proceed to do the MSc in Aircraft Engineering at Kingston University.

In your opinion, how will students benefit by continuing their studies to the degree level?

The basic EASA diploma is about getting the licence which is a key qualification which allows the person to sign off on aircraft airworthiness. This top-up degree is more to move people on to supervisory roles within the industry. It is about managing a team and having the ability to deal with uncertain issues.

Initially, employers will be keen to know if a person has obtained their EASA licence. But they will also need people to lead the team and the degree holder will come across as more confident and knowledgeable. Doing a degree is with long term career options and rewards in mind.

A UK degree is internationally recognised and this allows the person to move around easier. It must be said, there’s not a lot of point in getting the degree if there is no intention of getting the EASA licence. How a person sequence that is up to them.

For many people, it is easier to get the education done and then move towards getting the experience necessary for the licence. It is quite hard to come back and do a degree after having worked for a few years.

What would you say to prospective students and their parents about joining this field?

The aircraft maintenance industry is highly regulated. The number of people required can be predicted quite easily and there is solid evidence to show that the demand is going to keep growing.

This is also a highly rewarding field to be in. A person is essentially going to be responsible for aircraft worth hundreds of millions of dollars and whether or not it leaves the ground. Most importantly, it is about the safety of the persons who will be on the flight. It can be a very lucrative career. Having a degree will certainly help a person perform the job better and ensure upwards mobility.

“It is easier to get the education done and then move towards getting the experience necessary for the licence.”

- Dr Peter Barrington
“Too many students seem to think that getting a European Aviation Safety Agency (EASA) licence is the be all, end all. Of course, getting the license is very important. That will take three to five years working experience. But getting a degree is only an additional year and I am confident that employers will notice someone with a degree when interviewing potential candidates.”

Eng Soon Min  
Merit, Class of 2014  
Advanced Diploma in Aircraft Engineering Technology

Jonathan Robert Cox  
Merit, Class of 2013  
Diploma in Aircraft Maintenance Engineering

“This is a dream come true for me as I have always been fascinated by planes since an early age. Getting to work in a field which I have a deep passion for is absolutely fantastic.”

Oscar Tneh  
Distinction, Class of 2011  
Diploma in Aircraft Maintenance Engineering

“I joined this programme as I believe there are great career opportunities in this field. Nilai U’s dedicated lecturers and facilities certainly helped me achieve my aim of getting a distinction.

I strongly recommend students who are technically minded and good with their hands to check out Nilai U’s Diploma in Aircraft Maintenance Engineering.”
# NILAI U & EASA PART 66 CATEGORY B1 & B2 EXAMINATIONS

The Aircraft Maintenance Engineering programme at Nilai University incorporates in its syllabus the internationally recognised European Aviation Safety Agency (EASA) Part 66 Category B1 and B2 syllabus.

This means students will study for both a diploma as well as for the EASA exams using the very same course notes.

A licenced holder is permitted to certify the air-worthiness of an aircraft. This is after one has been subject to maintenance of aircraft structure, power points, mechanical and electrical systems.

Replacement of avionic line’s replaceable units and simple tests to prove their serviceability is also under the purview of a licenced holder.

**About EASA**

The European Aviation Safety Agency (EASA) is the core agency of a new, cost-efficient regulatory system in Europe and is a stringent watch dog which ensures all its partner agencies worldwide are similarly well organised.

EASA is responsible for the airworthiness standards for the majority of civil aircrafts registered in European Union member states. (www.easa.eu)

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## MODULES

EASA exam modules required to obtain licenses

<table>
<thead>
<tr>
<th>NO.</th>
<th>MODULES</th>
<th>LICENSE CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mathematics</td>
<td>✅</td>
</tr>
<tr>
<td>2</td>
<td>Physics</td>
<td>✅</td>
</tr>
<tr>
<td>3</td>
<td>Electrical Fundamentals</td>
<td>✅</td>
</tr>
<tr>
<td>4</td>
<td>Electronic Fundamentals</td>
<td>✅</td>
</tr>
<tr>
<td>5</td>
<td>Digital Techniques</td>
<td>✅</td>
</tr>
<tr>
<td>6</td>
<td>Materials &amp; Hardware</td>
<td>✅</td>
</tr>
<tr>
<td>7</td>
<td>Maintenance Practices</td>
<td>✅</td>
</tr>
<tr>
<td>8</td>
<td>Basic Aerodynamics</td>
<td>✅</td>
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<tr>
<td>9</td>
<td>Human Factors</td>
<td>✅</td>
</tr>
<tr>
<td>10</td>
<td>Aviation Legislation</td>
<td>✅</td>
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<tr>
<td>11</td>
<td>Aeroplane Aerodynamics, Structures &amp; Systems</td>
<td>✅</td>
</tr>
<tr>
<td>12</td>
<td>Helicopter Aerodynamics, Structures &amp; Systems</td>
<td>✅</td>
</tr>
<tr>
<td>13</td>
<td>Aircraft Aerodynamics, Structures &amp; Systems</td>
<td>✅</td>
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<tr>
<td>14</td>
<td>Propulsion</td>
<td>✅</td>
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<tr>
<td>15</td>
<td>Gas Turbine Engine</td>
<td>✅</td>
</tr>
<tr>
<td>16</td>
<td>Piston Engine</td>
<td>✅</td>
</tr>
<tr>
<td>17</td>
<td>Propeller</td>
<td>✅</td>
</tr>
</tbody>
</table>

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**Our students have been accepted at the following companies for on-the-job training:**

- AirAsia Bhd
- AirAsia X Sdn Bhd
- Awan Inspirasi Sdn Bhd
- Berjaya Air Sdn Bhd
- CTRM Aviation Sdn Bhd
- Eurocopter Malaysia Sdn Bhd
- Executive Jets Asia Sdn Bhd
- GE Engine Services Malaysia Sdn Bhd
- Hornbill Skyways Sdn Bhd
- Island Aviation Series Ltd
- KLM Royal Dutch Airlines
- Maldivian Air Taxi (Pte.) Ltd
- MASwings Sdn Bhd
- Sepang Aircraft Engineering Sdn Bhd
- SR Aviation Sdn Bhd
- Systematic Aviation Services Sdn Bhd
WHY NILAI U?

ENRICHMENT FOR LIFE
Nilai U’s campus was designed to provide the ideal setting for the pursuit of higher education. A peaceful ambience and lush greenery helps focus the mind and stimulate the intellect as well as allow for a relaxing atmosphere that will help students fulfil their true potential.

IDEAL LOCATION
Strategically located in the bustling township of Putra Nilai, we are a short 35-minute drive from Kuala Lumpur City Centre and 20 minutes from the Kuala Lumpur International Airport.

The Nilai University
BLUEPRINT FOR SUCCESS

- **STRONG COURSES**
  Programmes combine a strong base of courses in the chosen field of study.

- **CHARACTER BUILDING**
  Course modules to nurture professional development and character building.

- **HOLISTIC DEVELOPMENT**
  Co-curriculum involvement to promote self-confidence, independence and resourcefulness.

- **INDUSTRY INTERNSHIP**
  Provides practical experience at a supervised field site to complement theoretical learnings.
ON-CAMPUS TRAINING

Nilai U is one of the few institutions equipped with a hangar complete with a King Beech Turbine aircraft and a Beechjet 400A aircraft for students to further hone their skills.

Also included in the 5,000+ sq ft hangar are state-of-the-art lecture rooms and workshops.

Students are placed on a six-month on-the-job-training module as part of the programme, to provide confidence and exposure when stepping into real working environments.

“The university with a resort hotel & golf club.”