ENGINEERING

- Electrical & Electronic Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Automotive Engineering
Nilai U’s Faculty of Engineering, Science and Technology encapsulates the hi-tech prowess of the 21st century with solid academic programmes in engineering.

Supported by a comprehensive infrastructure and a dedicated team of lecturers, you can look forward to a holistic learning experience that will position you to excel in any environment anywhere in the world.

“Engineering - An art of making things interesting, easier and friendly.”
Anil B Vedmehta

INNOVATIVELY DESIGNED PROGRAMMES

Our programmes prepare students for professional practice in an era of rapidly advancing technology. They combine a strong base in the chosen field of engineering sciences with project-based laboratory and design experiences.

Courses in professional development, entrepreneurship, public speaking, ethics and social responsibility, a period of industry attachment and co-curriculum form an integral part of the programme.

Some of the exciting fields that our graduates enter are:

**MECHANICAL ENGINEERING / MECHATRONIC ENGINEERING**
- Design Engineer for Mechanical / Automotive Systems and Components
- Mechanical / Automotive Manufacturing Engineer
- Industrial Maintenance Engineer / Robotics
- Entrepreneur for Mechanical Workshop or Machine components design and manufacturing related business

**ELECTRICAL & ELECTRONICS ENGINEERING**
- Design Engineer for Electronics Systems and Components
- Electronics Manufacturing Engineer
- Electronics Service Engineer
- Entrepreneur for Electronics component design and manufacturing related business

**AUTOMOTIVE ENGINEERING**
- Design Engineer for Automotive Systems and Components
- Fleet Engineer or Automotive Manufacturing Engineer
- Vehicle Service Engineer
- Entrepreneur for Transport and Vehicle related business
Our engineering programmes acquired licensed MATLAB, Simulink, Multisim, AutoCAD, SolidWorks, Ansys, CNC Simulator and Emulator software to study the advances in the fields of Electrical and Electronics, Mechanical and Mechatronics, to take up in-house projects.
KEY FEATURES

EXCELLENT ENGINEERING CURRICULUM
The engineering curriculum has been created to produce all-rounded graduates. This curriculum is enhanced regularly through feedback from the industrial and academic advisory panels, teaching staff and our alumni.

WORLD CLASS LEARNING FACILITY
The engineering labs at Nilai U consists of a large variety of modern student-centred equipment and engineering software. Computer labs with the latest software are provided for our students.

Nilai U prides itself on excellent pastoral care and student-staff ratios.

Licensed software & enhanced certification from:

ANSYS®
SOLIDWORKS
SIEMENS
Electronics Workbench
MTS
MTS Didactic
Group of Companies
NATIONAL INSTRUMENTS®
Electronics Workbench Group

SPECIALISATIONS

Electrical & Electronics Engineering

FOCUS
The study of electrical energy systems & electronics.

CORE CONCEPTS
- electrical technology
- power electronics
- analog & digital communication
- control systems
- computer programming languages
- computer systems
- microprocessor theory

Mechanical Engineering

FOCUS
I - The design & application of thermal, fluid & mechanical power systems.
II - The design, production & use of machines & tools.

CORE CONCEPTS
- engineering mechanics
- thermodynamics
- fluid mechanics
- heat and mass transfer
- materials science & engineering
- computer-aided design
- computer-aided manufacturing
- computer-aided engineering
- energy management

Automotive Engineering

FOCUS
The design, construction & production of automotive components and assemblies.

CORE CONCEPTS
- automotive power plant design
- hybrid & electrical vehicles
- chassis design & vehicle dynamics
- vehicle aerodynamics
- computer-aided design
- computer-aided manufacturing
- computer-aided engineering
- engineering materials

COURSE PATHWAY

FOUNDATION at Nilai U
Engineering DEGREE at Nilai U
REGISTRATION with the Board of Engineers Malaysia
RECOGNITION as a professional Engineer
<table>
<thead>
<tr>
<th>PROGRAMME LEVEL</th>
<th>NILAI U PROGRAMMES</th>
<th>MINIMUM ENTRY REQUIREMENTS</th>
<th>DURATION (YEARS)</th>
<th>INTAKE</th>
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| FOUNDATION      | **Foundation in Science** | **Engineering Degrees:**  
|                 |                    | o SPM / SPMV / O-Level -- Minimum grade C in 5 subjects including Mathematics and Physical Science  
|                 |                    | o UEC -- Pass with grade B in 3 subjects including Mathematics and Physical Science  
|                 |                    | AND  
|                 |                    | **English Proficiency**  
|                 |                    | o SPM -- Credit in English  
|                 |                    | o GCE / IGCSE -- Minimum grade B  
|                 |                    | o IELTS -- Band 5.0  
|                 |                    | o TOEFL -- Paper based: 520 / Internet based: 68 / Computer based: 190  
|                 |                    | o Nilai U IEP -- Successfully completed (or exempted)  
|                 |                    | For the full entry requirements, please visit www.nilai.edu.my | 1 | JAN MAY OCT |
| DIPLOMA         | **Diploma in Electrical & Electronic Engineering** | o SPM -- 3 credits including Mathematics, a Science / Technical / Vocational subject and English  
|                 |                    | o STPM -- Pass with minimum Grade C (CGPA 2.0) in any subjects and pass Mathematics, English and a Science / Technical / Vocational subject in SPM  
|                 |                    | o UEC -- 3Bs including Mathematics, a Science / Technical / Vocational subject and a pass in English  
|                 |                    | o Foundation / Matriculation / Pre-University -- Pass with minimum CGPA 2.0  
|                 |                    | o SAM / AUSMAT / HSC -- Pass with minimum of 50% in 5 subjects including Mathematics and a Science subject  
|                 |                    | o IB, UK -- Pass with 24 points in 6 subjects including Mathematics and a Science subject  
|                 |                    | o CPU / CIMP -- Pass with minimum 50% in 6 subjects including Mathematics and a Science subject  
|                 |                    | o Other equivalent qualifications  
|                 |                    | AND  
|                 |                    | **English Proficiency**  
|                 |                    | o SPM -- Credit in English  
|                 |                    | o GCE / IGCSE -- Minimum grade B  
|                 |                    | o IELTS -- Band 5.0  
|                 |                    | o TOEFL -- Paper based: 520 / Internet based: 68 / Computer based: 190 | 2½ | JAN MAY OCT |
|                 | **Diploma in Mechanical Engineering** | | | |
|                 | **Diploma in Mechatronic Engineering** | | | |
|                 | **Diploma in Automotive Engineering** | | | |
| DEGREE          | **Bachelor of Mechanical Engineering (Hons)** | o STPM -- 2 principal passes including Mathematics and Physical Science with minimum Grade C (CGPA2.0) and credit in SPM English  
|                 |                    | o A-Level -- 2 principal passes including Mathematics and Physical Science, and pass O-Level English  
|                 |                    | o UEC -- 2Bs including Mathematics and Physical Science  
|                 |                    | o Foundation / Matriculation -- Pass with CGPA 2.0 and credit in SPM / O-Level Mathematics and Physical Science  
|                 |                    | o Diploma -- Pass in related field with minimum of CGPA 2.0 and pass SPM / O-Level with pass in English  
|                 |                    | o SAM / AUSMAT / HSC -- Pass with minimum of 50% in 5 subjects including Mathematics and Physical Science  
|                 |                    | o IB, UK -- Pass with 24 points in 6 subjects including Mathematics and Physical Science  
|                 |                    | o CPU / CIMP -- Pass with minimum 50% in 6 subjects including Mathematics and Physical Science  
|                 |                    | AND  
|                 |                    | **English Proficiency**  
|                 |                    | o SPM -- Credit in English  
|                 |                    | o GCE / IGCSE -- Minimum grade B  
|                 |                    | o IELTS -- Band 5.0  
|                 |                    | o TOEFL -- Paper based: 520 / Internet based: 68 / Computer based: 190  
|                 |                    | o Nilai U IEP -- Successfully completed (or exempted) | 4 | JAN MAY OCT |
|                 | **Bachelor of Electrical & Electronics Engineering (Hons)** | | | |

Other equivalent qualifications as determined by the Nilai U Senate are accepted. For more information, please consult our education counsellors.
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.

WORLD-CLASS LEARNING RESOURCES
World-class facilities support our academic offerings. These range from modern air-conditioned lecture theatres and classrooms to well-equipped science and skills laboratories.

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.
35 mins drive from KL

Nilai Springs Resort Hotel & Golf Club

Nilai Springs Resort Hotel is a four-star resort hotel with 183 guest rooms and suites. It is located just 5 minutes away from Nilai U and is equipped with its very own 27-hole championship golf course.

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

LIVING FACILITIES
- 24-hour Security
- 1,000-seater Food Court (Halal) with Satellite TV
- Formal Dining Restaurant
- Internet Access
- Shuttle Bus Service
- WiFi-enabled campus
- Laundrette
- Minimart
- Muslim Prayer Rooms
- ATM Facilities
- Bookshop
- International Student Airport Pick-up
- International Student Visa Application

RECREATIONAL FACILITIES
- Fully-equipped Gymnasium
- 1,000-seater Food Court
- Golf Course
- Indoor Sports Centre
- Lakeside Recreation Park & Jogging Track
- Football Field
- Swimming Pool
- Table Tennis
- Tennis Courts
- Volleyball Courts
- Music Room
- Badminton Courts
- Basketball Courts
- Fencing Centre
- Team-building Park

* Nearby Nilai Springs Golf & Country Club