



BIOTECHNOLOGY

KNOW BIOTECHNOLOGY

Biotechnology continues to impact many aspects of our lives. Ranging from enhanced methods of detecting, preventing and treating diseases, to advanced farming of plants and produce, biotechnology has provided many breakthroughs.

The biotechnology industry is moving forward with a focus on improving fields such as health care, agriculture, food and the environment. For example, prosthetic feedback and muscle stimulators assist patients in mobility and healing.

Another example is transgenic technology in plants. It is a breeding approach that creates genetically engineered plants carrying new characteristics to stimulate the production of wood without causing extreme damage to existing forests. These are some examples of what Biotechnology can do, and you could be a part of more significant breakthroughs.

Furthermore, Malaysia is focusing on the industry's growth. The implementation of the National Biotechnology Policy marks the country's official move to explore Biotechnology in the agriculture sector. Therefore, the constant development of the Biotechnology industry leads to an increased need for capable and trained personnel.

WE OFFER

Diploma in Biotechnology

JPT/BPP(R3/545/4/0005)03/26, (MQA/A6789)

With international recognition, this diploma readies students to face the industry with its compact and informative subjects featuring hands-on activities in independent labs. After completing this 2.5-year programme, students can also opt to pursue a relevant degree programme here or at Nilai University's partner university.

Bachelor of Science (Hons) in Biotechnology

JPT/BPP(R2/545/6/0045)11/24,(MQA/A9990)

This 3-year course is an innovative degree developed by piecing together with the expertise, input and knowledge of experienced academicians and renowned industry partners in Biotechnology. Students will also study business electives and other elective courses in communications, marketing, accounting and other fields to broaden their scope of knowledge.





PROGRAMME HIGHLIGHTS

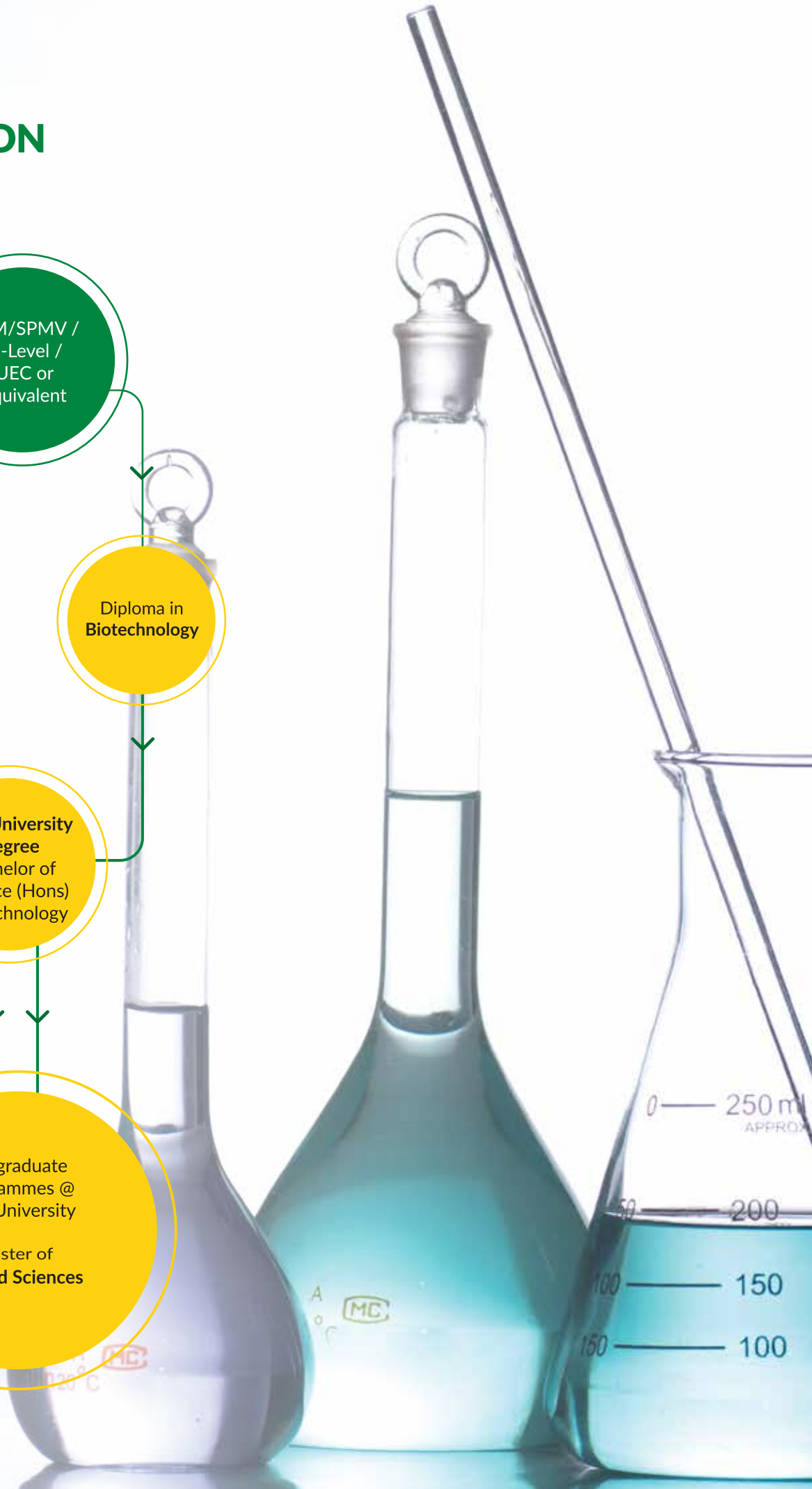
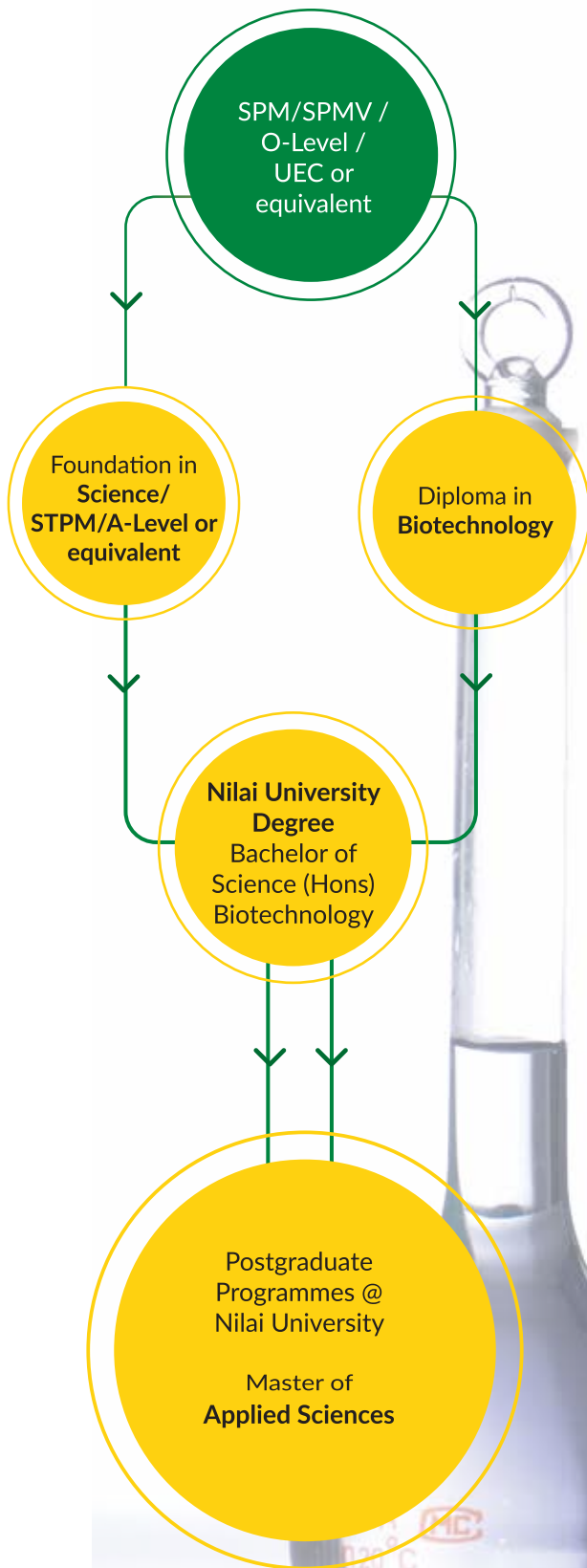
- **Great Affordability With Exclusive Scholarships**

The Biotechnology programmes offered at Nilai University are crafted with care. The syllabi are updated, and comprehensive facilities are available on campus to provide students with quality and holistic education. Up to 100% scholarships are also available for deserving students, encouraging them to perform well in their studies.

- **Interesting Electives**

Students are given the freedom to explore a combination of skill sets through various elective subjects. Electives offered include Public Speaking, Critical Thinking, Professional Development, Outward Bound, and many more. They help students gain better career opportunities as well as train them in communication, interpersonal and soft skills to create a well-rounded student.

ACADEMIC PROGRESSION





INTERNSHIP LINKAGES

- Agro-Biotechnology Institute
- ALS Technichem
- Biolife Lab Sdn.Bhd.
- CityFarm Malaysia
- Cola-Cola Refreshment Malaysia
- Cryocord Sdn.Bhd.
- Duopharma (M) Sdn. Bhd.
- Dymanic Transforms Sdn Bhd
- Genting Malaysia Berhad
- Indira Gandhi Memorial Hospital,Maldives
- Malaysian Yoghurt Company Sdn. Bhd
- Maldives Food and Drug Authority
- Nicko Jeep Manufacture Sdn. Bhd.
- Oriental Food Sdn. Bhd
- Pathology & Clinical Laboratory (M) Sdn. Bhd
- Permulab Sdn. Bhd
- Royce Pharma
- SGK Food Industry Sdn. Bhd.
- Sunshine Bread Sdn Bhd
- Top Glove International Sdn. Bhd.
- Verducare Wellness Solutions Sdn Bhd
- Water Revelation Sdn Bhd
- WWF Malaysia

CAREER PROSPECTS

Biotechnology is a versatile field. It provides students with career opportunities in many areas. Graduates are likely to work in the following fields:

Medicine

- Stem cell research & application.
- Therapeutic drugs, vaccines and protein development.
- Genetic testing for disorders.
- DNA profiling (forensic use and family history).

Environmental Processes

- Wastewater purification.
- Removal of wastes and pollution in the environment.
- Recovering or protecting threatened species.
- Biological control of pests.
- Researching for more environmentally sound alternatives (biofuels, superglue, sunscreen lotion).
- Green plastics biosensors for environmental monitoring.

Agriculture / Food Industry

- Production of plants with enhanced nutritional value, high yields and resistance to environmental stresses.
- Plant genetics and tissue engineering.
- Probiotics and brewing.

Bioinformatics / Biostatistics / Others

- Academia.
- Pharmaceutical sciences.
- Medical technology.
- Computer information science.
- Data analysis & management.
- Biological research.
- Social sciences research.

Other Career Options

- Biochemist/Microbiologist
- Biotechnologist
- Research Scientist
- QA Executive
- Science Educator
- Product Marketing Manager
- Data Science Analyst
- Process Development Scientist
- Manufacturing Manager
- Clinical Researcher
- Medical Writer
- Consultant



ENTRY REQUIREMENTS

Diploma in Biotechnology

JPT/BPP(R3/545/4/0005)03/26, (MQA/A6789)

SPM/ O-Level	3Cs including Mathematics, one (1) Science subject and one (1) other subject
UEC	3Bs including Mathematics, one (1) Science subject and one (1) other subject.
STPM	Min Grade C in any one (1) subject and SPM with three (3) credits including Mathematics, one (1) Science and one (1) any other subjects.
STAM	Min grade of Maqbul (Pass) and SPM with three (3) credits including Mathematics, one (1) Science and one (1) any other subjects.
SKM/SKK (Level 3, MQF) in a related field	Pass and possess SPM with one (1) credit
Certificate (Level 3, MQF) in a related field	Min CGPA 2.00

English Requirements* (For International Students)

MUET	3
IELTS	5.0
TOEFL	410 (PBT) / 34 (iBT)
Pearson	36

*International students with qualifications from educational systems where the English language is the primary medium of instruction are exempted from this requirement.

International students who do not fulfil the English Language Requirements may join the Intensive English Programme at Nilai University which builds their skills in the language and prepares them for the IELTS examination.

Programme Module

Foundational
Understanding Biotechnology
Fundamental and Biological Sciences
Introductory Biology
Introductory Chemistry
Statistics
Basic Business Administration
Introductory Genetics
Cell and Molecular Biology
Organic Chemistry
Basic Microbiology
General Biochemistry
Discipline Core
Principles of Entrepreneurship
Introductory Bioinformatics
Cell Culture Techniques
Basic Techniques in Molecular Biology
Agricultural and Industrial Biotechnology
Marine and Environmental Biotechnology
Medical Biotechnology

Generic Skills
Introduction to Information Technology
Introduction to Public Speaking
Summative
Summative (Biotechnology)
Industrial Training
Internship
Mata Pelajaran Pengajian Umum
Malay Language (only for Malaysian students without a credit in SPM BM)

ENTRY REQUIREMENTS

Bachelor of Science (Hons) Biotechnology

JPT/BPP(R2/545/6/0045)11/24, (MQA/A9990)

STPM or equivalent	Min Grade C (GPA 2.00) in any two (2) subjects and SPM with three (3) credits including Mathematics, one (1) Science subject and one (1) any other subject
A-Level	Min Grade D in any two (2) subjects and possess SPM or equivalent with three (3) credits in Mathematics, one Science subject and one any other subject
UEC	5Bs including one (1) Mathematics one (1) Science subject
STAM	Min grade of Jayyid (Good) and SPM with three (3) credits in Mathematics, one (1) Science subject and one (1) any other subject
Foundation/ Matriculation	Min CGPA 2.00 and possess SPM or its equivalent with three (3) credits in Mathematics, one (1) Science subject and one (1) any other subject
Diploma (Level 4, MOF) in a related field	Min CGPA 2.00

English Requirements* (For International Students)

MUET	3
IELTS	5.0
TOEFL	410 (PBT) / 42 (iBT)
Pearson	47

*International students with qualifications from educational systems where the English language is the primary medium of instruction are exempted from this requirement.

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Programme Module

Foundational
Understanding Biotechnology
Fundamental Sciences
Introductory Biology
General Chemistry
Statistics
Organic Chemistry
Core Sciences
Microbiology
Genetics
General Biochemistry
Discipline Core
Bioinformatics
Biodiversity and Environmental Bioresources
Cell and Tissue Culture
Cell and Molecular Biology
Principles of Immunology
Industrial Microbiology
Innovation and Commercialisation
Research Methods and Design
Biotechnology for Crop Improvement
Cell and Molecular Biology Laboratory
Immunological Techniques in Biotechnology
Drug and Pharmaceutical Technology
Introduction to Bioprocess Engineering
Environmental Biotechnology
Food Science and Technology

Electives Related to Discipline Core
Elective I (Choose 1) Human Anatomy and Physiology Foundation of Business
Elective II (Choose 1) Introduction to Marketing (Elective) Introduction to Management Accounting Business Communication Principles of Management Essentials of Information Skills
Elective III (Choose 1) Introduction to Forensic Science Strategic Management Managing Business Operation Medical Microbiology Food Microbiology
Elective IV (Choose 1) Plant Genetic Engineering Plant Cell and Tissue Culture Techniques Protein Technologies
Capstone
Research Project I)
Research Project II)
Industrial Training
Internship
Mata Pelajaran Pengajian Umum/ University Courses
Malay Language (only for Malaysian students without a credit in SPM BM)
Optional Electives
English Language Proficiency
Introduction to Academic English
Academic English

GAIN QUALITY EDUCATION AT NILAI UNIVERSITY

All programmes offered at Nilai University observe the strict guidelines of the Malaysian Qualifications Agency (MQA) and Ministry of Higher Education (MOHE). The university, established in 1997 emphasises excellence and thus strives to provide quality education.

Quality Education

Programmes are affordable for students from all walks of life. Lectures are conducted in small groups so that each student can have personalised attention.

Exposure to Diverse Cultures

International students from different countries across the world choose to study at Nilai University. With a student community of diverse backgrounds, the interaction between international and local students encourages sharing, understanding, and acceptance of various cultures.

Co-curricular Activities for Personal Development

Nilai University provides a 'Total Student Experience' with engaging clubs to encourage creativity, networking and active participation in various events. The experience gained can be included in students' portfolio to increase employment opportunities. There are initiatives such as the Mentor-Mentee programme to help new students feel at home and blend in.

Master the English Language

As the university has a multicultural community, students and staff are encouraged to communicate in English with intensive English classes available for those who need it.

SETARA Ranking

In the SETARA 2017 survey conducted by the Malaysian Ministry of Higher Education, Nilai University obtained a score of 89% under the Teaching and Learning criterion.

This excellent score demonstrates our commitment to providing students with quality teaching and learning experiences.

Professional Recognition/Industry & Academic Partners



NILAI UNIVERSITY

Enrichment For Life



Lush Campus

Nilai University has a charming campus with lush greenery surrounding the hostels and lecture halls for an open and relaxed learning environment. Away from the bustling city, you will enjoy a refreshed outlook studying here with your peers.



Peaceful Environment

As a university town, Nilai University knows the importance of a peaceful atmosphere for students to be able to focus on their studies. The university has a spacious layout ideal for students to have an individual study session.



Strategic Location

Nilai University is located in the township of Putra Nilai. Nilai town has all the necessary amenities such as banks, hospitals, malls, eateries and more. The university is easily accessible via the national highway. We are only a 35-minute drive away from the city centre of Kuala Lumpur and 20 minutes drive away from the Kuala Lumpur International Airports. (KLIA 1 & KLIA 2).












Full Campus Facilities

We have facilities catering to recreation and hands-on training to ensure students are well-rounded individuals prepared to enter the professional workforce.

Recreation

-  Football/Rugby Field
-  Golf Course*
-  Swimming Pools*
-  Gymnasium
-  Basketball Courts
-  Sports Focus Centre For Fencing
-  Indoor Badminton Court
-  Indoor Sports Centre
-  Lakeside Recreation Park & Jogging Track
-  Table Tennis
-  Tennis Courts
-  Volleyball Courts

Amenities

-  International Student Visa Application
-  Accommodation
-  Canteen
-  Shuttle Bus Service
-  WiFi-enabled campus
-  Laundrette
-  Minimart
-  Muslim Prayer Rooms
-  ATM
-  Bookshop
-  International Student Airport Pick-Up

Learning

-  Aircraft Hangar
-  Demonstration Kitchen
-  Formal Dining Restaurant
-  Hospitality Training Facilities
-  Laboratories
 - Avionics
 - Fluid Mechanics
 - Materials and Mechanics
 - CAD and Simulation
 - Electrical and Electronics
 - Biology
 - Chemistry
 - Analytical
 - Biotechnology
 - Physics
-  Engineering and Aircraft Maintenance Engineering Workshop
-  Nursing Skill & Simulation Laboratories
-  Learning Resource Centre

*At the nearby Nilai Springs Golf and Country Club.

WHAT OUR STUDENTS SAY

“Joining the biotechnology programme is unlike any other because you will have the knowledge of improving people’s lives and also do things, which will safeguard the future of the planet. If you are strong in your Biology and Chemistry and have a natural affinity for laboratory work, this is the programme for you.”

Thiban Sandramuti,
BSc (Hons) in Biotechnology

“I wanted a career which will present fresh challenges every day, one in which I will learn new things all the time. Biotechnology is a fast-growing field with discoveries made every year. I feel very comfortable in a lab environment, and this is where I think I will grow best intellectually.”

Joyce Chin Seow Fong,
BSc (Hons) in Biotechnology

“The lecturers are very experienced, and they take the time to explain the lessons. If I do not understand any part of the lessons, I can always approach them for an in-depth explanation.”

Ian Lai Jiong Soon,
BSc (Hons) in Biotechnology

HOW TO APPLY?

- Choose your programme
- Fill in the online application form ONLY if you want to apply for admission into a programme offered at Nilai University. Confirm your accommodation type in the application (if needed).
- Once we receive your online application form, our educational counsellor will contact you to assess your eligibility and subsequently, arrange for payment of the first semester's fees and confirm your accommodation booking (if necessary).
- You may pay for Application Fee, Accommodation Fee and the first semester's fees via our fee payment channels as listed.

Payment method:

Payment at the counter, Ground Floor, Resource Centre, Nilai University Campus

Operating hours:

Monday to Friday from 9:00 am to 4:00 pm

Mode of payment:

- Cash
- Credit Card: Visa, Mastercard and Union Pay only
- Debit Card: MyDebit, Visa/ Mastercard Debit Cards
- Cheque-Payable to "NILAI EDUCATION SDN BHD"
- Online Banking

Payee Name:

Nilai Education Sdn Bhd

Bank Details:

Account No: 2050-5110-000-979 | RHB Bank Berhad



THE OFFER LETTER

Once the Administration Office receives the receipt of your application fee and visa processing fee (international students), you will receive an offer letter via email and post. The Administration Office will post the original copy to the address stated in the application form.

You should expect to receive the following:

Letter of Offer:

Admission/registration information, intake date and details for the programme that you have applied for will all be stated in the letter.

Receipt:

A receipt of your initial payments will be included. Please contact us immediately if you do not receive a copy of the receipt.

Register personally and check into the rooms on the date stated in your Letter of Offer.

If you are unable to register personally, please call the Office of Admissions and Records (OAR) at **+606 8502338** to indicate the date you will arrive to register and check into your accommodation.

Airport pick-up (for East Malaysia & international students arriving by flight) can be arranged for new students. Call **+606 8502308** to speak to our educational counsellors to arrange for the transportation.

Confirmation of acceptance

Once you have registered, it's time to start your classes and enjoy university life! If you require information on a programme, financing options or need to clear any doubts, please use the online enquiry form OR call to speak to an education counsellor at **+606 8502308**.



MAP TO NILAI UNIVERSITY





TRAIN ROUTE





FIND US ON:



www.nilai.edu.my

We are open daily
(9:00 am - 5:00 pm)
Closed on Public Holidays

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

Tel: +606-850 2308 | Email: marketing@nilai.edu.my

Nilai Education Sdn Bhd
Registration No: 199401021536 (307215-P)

All information is correct at the time of printing. Nilai University issues its brochures and other literature only as a general guide to the university's programmes and facilities; they form no part of a contract. The university reserves the right to modify or withdraw any of the content described without notice.



Watch the video
Biotechnology