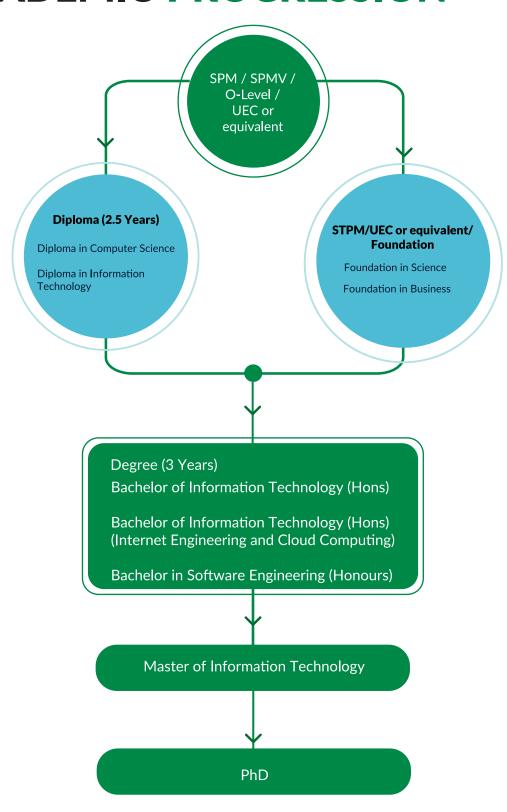# COMPUTING

KNOW COMPUTING

Computing

Computers are the centre behind almost all our technological advancements of this century. We would be hard-pressed to find areas of life and work that computers can't enhance. Nilai University's computing programmers are designed to give you skills and experience that will position you to excel in the computing world. Through the programme, students will learn how computers communicate with each others, how task are performed, how information is stored and retrieved and how computers behave intelligently. Technical skills taught include C, C++, Java, VB.net, PHP, Javascript, Matlab, Prolog, Object Oriented, Design Pattern, HTML, UML and much more.

Computing programmes offered at Nilai University are as follows :

- Diploma in Information Technology
  JPT/BPP(R3/482/4/0208)06/28, (MQA/A3230)

- Diploma in Computer Science
  JPT/BPP(R3/481/4/0250)06/28, (MQA/A3229)

- Bachelor of Information Technology (Hons)
  JPT/BPP(R2/482/6/0206)08/23, (MQA/A9104)

- Bachelor of Information Technology (Hons)
  (Internet Engineering and Cloud Computing)
  JPT/BPP(R/482/6/0086)07/28, (MQA/FA5716)

- Bachelor in Software Engineering (Honours)
  JPT/BPP(R2/481/6/0673)07/27, (MQA/FA5717)

ACADEMIC PROGRESSION

SPM / SPMV /
O-Level /
UEC or
equivalent

Diploma (2.5 Years)

Diploma in Computer Science

Diploma in Information Technology

STPM/UEC or equivalent/ Foundation

Foundation in Science

Foundation in Business

Degree (3 Years)
Bachelor of Information Technology (Hons)

Bachelor of Information Technology (Hons)
(Internet Engineering and Cloud Computing)

Bachelor in Software Engineering (Honours)

Master of Information Technology

PhD

POPULAR CAREERS

- Software and Application Developer
- Software Analyst
- Software Developers
- Application Programmers
- Web Developer
- Information Systems Manager
- Information Technology Consultant
- Multimedia Programmer
- Software Engineer
- Application Analyst
- Database Administrator
- IT Technical Support Officer
- Software Tester
- Computer and Information Systems Manager
- Computer Network Architects
- Network Administrator
- System Administrator
- Data Analyst
- Data Centre Technician
- Data Scientist
- Data Engineer
- Data Architect
- Database Analyst
- Hardware Engineer
- Network Engineer
- Business Analyst

- Data Analytics Manager
- Hardware Engineer
- Network Engineer
- Business Analyst
- Data Analytics Manager
- Machine earning Engineer
- Cloud Architect
- Cloud Data Scientist
- Cloud Consultant
- Cloud Engineer
- Cloud Automation Engineer
- Cloud Software Engineer
- Cloud Security Analyst
- Cloud Support Engineer
- Cloud Administrator
- Cybersecurity Specialist
- Cybersecurity Manager
- Security Consultants
- Ethical Hackers
- Penetration Tester
- Cybersecurity Analyst
- Digital Forensic Examiner
- IT security Administrator
- Security Engineer
- Security Architect

ENTRY REQUIREMENTS

Diploma in Information Technology
JPT/BPP(R3/482/4/0208)06/28, (MQA/A3230)

SPM/SPMV/O-Level	3Cs including Maths
UEC	3Bs including Maths
SKM/SKK Certificate (MQF Level 3) in related field	A Pass and a credit in SPM Maths
STPM or equivalent	A Pass with a minimum of grade C (GP 2.0) in any subject and a credit in SPM Maths
STAM or equivalent	A Pass with a minimum grade of Maqbul (pass) and a credit in SPM Maths
A-Level	A Pass with a minimum grade D in any subjects and grade C in SPM/O-Level Maths

English Requirements* (For International Students)

MUET	2
IELTS	4.0
TOEFL	397 (PBT) / 30 (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 Computing

Core
Computer Organisation
Structured Programming
Web Development
Calculus and Algebra
Systems Analysis and Design
Introduction to Public Speaking
Database Development
Operating Systems
Data Communication and Networking
Introduction to Artificial Intelligence
Basic Business Administration
Principles of Microeconomics
Fundamentals of Marketing
Principles of Macroeconomics
Discrete Mathematics
Object Oriented Programming
Information Systems
Human Computer Interaction
Introduction to Computer Security

Final Year Project
Summative (Computing Project)

Industrial Training
Internship

Mata Pelajaran Pengajian Umum

Malay Language (only for Malaysian students without a credit in SPM BM)

Electives
Software Engineering
Internet Programming
Fundamentals of Management
Introduction of Cloud Computing
Introduction to IoT
Principles of Entrepreneurship

ENTRY REQUIREMENTS

Diploma in Computer Science
JPT/BPP(R3/481/4/0250)06/28, (MQA/A3229)

SPM/SPMV/O-Level	3Cs including Maths
UEC	3Bs including Maths
SKM/SKK Certificate (MQF Level 3) in related field	A Pass and a credit in SPM Maths
STPM or equivalent	A Pass with a minimum of grade C (GP 2.0) in any subject and a credit in SPM Maths
STAM or equivalent	A Pass with a minimum grade of Maqbul (pass) and a credit in SPM Maths
A-Level	A Pass with a minimum grade D in any subjects and grade C in SPM/O-Level Maths

English Requirements* (For International Students)

MUET	2
IELTS	4.0
TOEFL	397 (PBT) / 30 (iBT)
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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 Computing
Core
Computer Organisation
Structured Programming
Web Development
Calculus and Algebra
Basic Business Administration
Introduction to Public Speaking
Database Development
Operating Systems
Data Communication and Networking
Introduction to Artificial Intelligence
Statistics
Software Engineering
Data Structure
Discrete Mathematics
Object Oriented Programming
Systems Analysis and Design
Human Computer Interaction
Introduction to Computer Security
Visual Programming

Final Year Project
Summative (Computing Project)
Industrial Training
Internship
Mata Pelajaran Pengajian Umum
Malay Language (only for Malaysian students without a credit in SPM BM)
Electives
Information Systems
Internet Programming
Principles of Entrepreneurship
Introduction of Cloud Computing
Introduction to IoT

ENTRY REQUIREMENTS

Bachelor of Information Technology (Hons)
JPT/BPP(R2/482/6/0206)08/23, (MQA/A9104)

STPM	A pass with a minimum Gred C in any two (2) subjects and a credit in Maths at the SPM Level
A-Level	A pass with a minimum Gred D in any two (2) subjects and pass in Maths and English at SPM level.
UEC	5B's including Maths
Foundation/ Matriculation	A pass with a minimum CGPA 2.0 and credit in SPM Maths
Diploma in Computer Science/ Software Engineering/ Information Technology/Information System	A Pass with a minimum CGPA 2.5 and credit in SPM Maths
Diploma in Science Technology/Business Studies	A pass with a minimum CGPA of 2.50, which include a rigorous internal assessment prosess and credit in SPM Maths

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.

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 Computing
Common Core and Discipline Core
Statistics
C Programming
Software Modeling and Analysis
Software Security
Database Systems
Computer Architecture and Organisation
Introduction to Object Oriented Programming
Web Development
Operating Systems Principles
Object Oriented Software Development
Systems Programming
Software Design and Architecture
Data Communication and Networking
Human Computer Interaction
Artificial Intelligence
Discrete Mathematics
Routing and Switching
Internet of Things
Wireless and Mobile Technology
Network Construction and Administration
Software Project Management
Information Assurance Security
Blockchain Technology
Enterprise Resource Planning
Dynamic Web Programming
IoT Smart Application Development
Big Data Analytics

Capstone
Final Year Project I
Final Year Project II
Industrial Training
Internship
Mata Pelajaran Pengajian Umum /University Courses
Malay Language (only for Malaysian students without a credit in SPM BM)

ENTRY REQUIREMENTS

Bachelor of Information Technology (Hons) (Internet Engineering and Cloud Computing)
JPT/BPP(R/482/6/0086)07/28, (MQA/FA5716)

STPM	A pass with a minimum Gred C in any two (2) subjects and a credit in Maths at the SPM Level
A-Level	A pass with a minimum Gred D in any two (2) subjects and pass in Maths and English at SPM level.
UEC	5B's including Maths
Foundation/ Matriculation	A pass with a minimum CGPA 2.0 and credit in SPM Maths
Diploma in Computer Science/ Software Engineering/ Information Technology/Information System	A Pass with a minimum CGPA 2.5 and credit in SPM Maths
Diploma in Science Technology/Business Studies	A pass with a minimum CGPA of 2.50, which include a rigorous internal assessment prosess and credit in SPM Maths

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.

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 Computing

Common Core and Discipline Core
Statistics
C Programming
Software Modeling and Analysis
Software Security
Database Systems
Computer Architecture and Organisation
Introduction to Object Oriented Programming
Web Development
Operating Systems Principles
Object Oriented Software Development
Software Design and Architecture
Human Computer Interaction
Artificial Intelligence
Discrete Mathematics
Systems Programming
Data Communications and Networking
Cloud Architecture
Internet and Cloud Principles
Routing and Switching
Network Construction and Administration
Software Project Management
Blockchain Technology
Internet and Cloud Security
Service Oriented Architecture
Advanced Web Technologies
Cloud Storage Infrastructure
Dynamic Web Programming

Capstone
IECC Project I
IECC Project II
Industrial Training
Internship
Mata Pelajaran Pengajian Umum/University Courses
Malay Language (only for Malaysian students without a credit in SPM BM)

ENTRY REQUIREMENTS

Bachelor in Software Engineering (Honours)
JPT/BPP(R/481/6/0673)07/27, (MQA/FA5717)

STPM (Non-Science stream)	A pass with min Grade C in any two (2) subjects and a credit in SPM Additional Maths Or A pass with min Grade C in any two (2) subjects and a credit in SPM Maths and one (1) Science, technology or Engineering subjects
STPM Science stream	A pass with a min Grade C in Maths and one (1) Science, technology or Engineering subjects
A-Level	Science Stream A pass with Grade D in Maths and one (1) Science/ ICT subject Or Non-Science Stream A pass with Grade D in any two (2) subjects and a Grade C in SPM/O-Level Maths and Science, Technology or Engineering subjects
Foundation/ Matriculation	A pass with min CGPA 2.0 and credit in SPM Additional Maths Or Pass with min CGPA 2.0 and credit in SPM Maths and one (1) Science, technology or Engineering subjects
UEC	A pass with 5B's including Maths and one (1) Science, technology or Engineering subjects
Diploma in Computer/ Software Engineering/ Information Technology/ Information System	A pass with min CGPA 2.5
Diploma in Science & Technology	A pass with a CGPA 2.5 and includes a rigorous internal assessment

Programme Module

Foundational
Understanding Computing
Common Core and Discipline Core
Programming Fundamentals
Introduction to Information Systems
C Programming
Software Modeling and Analysis
Software Security
Database Systems
Computer Architecture and Organisation
Introduction to Object Oriented Programming
Web Development
Data Structure and Algorithms
Operating Systems Principles
Object Oriented Software Development
Software Design and Architecture
Data Communication and Networking
Human Computer Interaction
Artificial Intelligence
Discrete Mathematics
Research Methodology
Software Process
Theory of Computation
Software Project Management
Object and Component Technology
Machine Learning
Software Evolution
Software Verification and Validation
Computer Vision and Image Processing
Dynamic Web Programming
Capstone
SE Project I
SE Project II
Industrial Training
Internship
Mata Pelajaran Pengajian Umum /University Courses
Malay Language (only for Malaysian students without a credit in SPM BM)

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.

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.

ENTRY REQUIREMENTS

Master of Information Technology
JPT/BPP (N/482/7/0173), 10/26, (MQA/PA15051)

- A Bachelor's Degree of Computing or in the area of Science and Technology or related to Computing, with a minimum Cumulative Grade Point Average (CGPA) of 3.00; OR

- A Bachelor's Degree of Computing or in the area of Science and Technology or related to Computing, with CGPA below 3.00 but above 2.50, can be accepted subject to rigorous internal assessment process; OR

- A Bachelor's Degree of Computing or in the area of Science and Technology or related to Computing, with CGPA less than 2.50, with a minimum of five years working experience in a relevant field may be accepted.

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.

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.

Duration
Part Time: 3 Years
Full Time: 2 Years

Programme Module

Phase I – Pre-requisite Core Course (3 credit hours)**
Research Methodology and Statistics (Compulsory)

Phase II – Preliminary Research
This represents the forst part of the master's research project and forms the basis on which students build their proposal and eventually their project.

Phase III – Proposal Defence
Each student must publicly present and defend his/her research proposals. The student is only allowed to continue with his/her research to Phase IV on passing of the defence of his/her proposal.

Phase IV – Thesis Preparation
The student proceeds to his/her data collection, data analysis and report writing.

Phase V – Viva Voce
After completion and submission of the thesis, the student is required to attend a Viva Voce to orally defend his/her thesis.

Research Topics

The research topics may include but are not limited to the following topics:

- Advanced Database
- Advanced Computer Networks
- Programming Language
- Knowledge Management
- IT Governance
- Business Intelligence
- Computer Security
- Advanced Project Management
- Project, Advanced Multimedia Applications
- Research Methodology in Information Technology
- Interactive Systems Design
- Intelligent Systems
- Strategic Information System Planning
- Computer Forensics
- Internet of Things

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

ICAEW

CIMA

MFPC
Malaysia Financial Planning Council
Competence. Ethics. Standards.

ACCREDITED PROGRAMME
ACCA

NilaiSprings resort hotel
PUTRA NILAI, MALAYSIA.

NilaiSprings golf and country club
PUTRA NILAI, MALAYSIA.

MIHRM

ANSYS®

DS SOLIDWORKS

MIZUNO GOLF SCHOOL

autocount

MONIN
ULTIMATE TASTE
ULTIMATE CREATIVITY

Business is Marketing

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
  - Biology
  - Fluid Mechanics
  - Chemistry
  - Materials and Mechanics
  - Analytical
  - Biotechnology
  - CAD and Simulation
  - Physics
  - Electrical and Electronics
- 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

"I have noticed that Nilai U computing students are very good at programming. This is because the lecturers here ensure we are given a solid foundation in this area. We are drilled in the programming languages of C++ and Java, allowing us to be very confident with our programming skills,"

Ng Kang Wei
Bachelor of Computer Science (Hons)

"I am really enjoying the lessons, especially the module on web design. It is not just solely about coding and programming, creativity is a big part of it. We are encouraged to use our imaginations."

Tommy Lee Yan Shan
Bachelor of Computer Science (Hons)

"My studies here at Nilai U were indeed an adventurous life as I always keep myself busy with club activities as I hold few positions. However, no matter how busy I was, studies were always my first priority. With the help from lecturers who have vast experience in their field, they will make time for students who are unclear about the courses and willingly to go one step further to ensure he/she could grasp the courses fully. I am thankful to my lecturers for helping me out especially with my final year project (FYP). Without their help, I could not have been where I am today. I would like to thank all the lecturers at Nilai U, especially the lecturers from the School of Computing Nilai U for their commitment and perseverance in educating their students, thank you".

Ken Uchiyama
Valedictorian Class of 2022
Bachelor in Software Engineering (Honours)

"It indeed is a great pleasure for me to be a part of this university for almost 2 years. Each and every person involved in my academic career has played a vital role in the successful completion of my degrees. From the bottom of my heart, I would like to thank Nilai University and all the course instructors, lecturers, campus staff, management from the core of my heart for the wonderful and knowledgeable time I spent here. I would like to say thank you and it would be a great pleasure if I could help better the university in any way."

Ong Zheng Young
Bachelor in Software Engineering (Honours)

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"
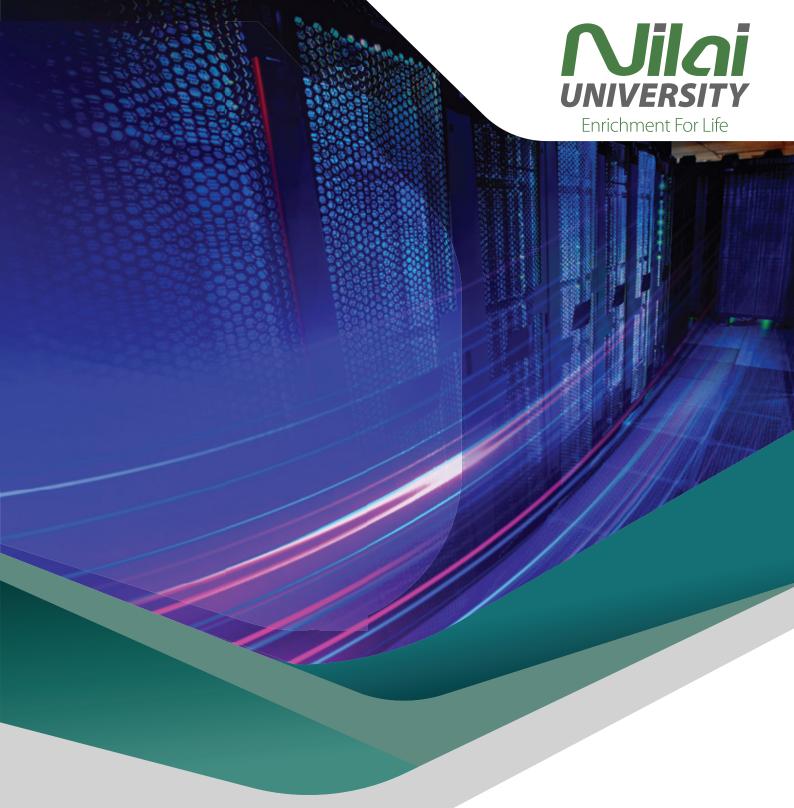- Online Banking

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.**

Nilai
UNIVERSITY
Enrichment For Life

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
Nilai University

GREEN CAMPUS AT NILAI UNIVERSITY