Biotechnology is making a significantly important impact on a number of sectors and disciplines.

Since the discovery of recombinant DNA in the early 1970s and the following development of both genetic engineering and hybridoma technologies, biotechnology has supported our daily lives in many ways, ranging from the development of better methods for detecting, preventing and treating diseases to the farming of transgenic plants, removing of wastes and pollution from the environment, as well as genetic testing and other ground breaking technologies.

In global terms, the biotechnology scenario is developing rapidly. There is a major emphasis on product and process-oriented biotechnological research and development for applications in health care (medical), crop production and agriculture, as well as non-food industries for the benefit of society.

As a result, many countries, including Malaysia and other developing countries are setting up suitable support infrastructures, such as science and biotechnology institutions and parks.

This explosive growth in research and development in biotechnology requires trained personnel.

The multi-disciplinary character of biotechnology provides students with employment opportunities in research and development, quality control, clinical research, manufacturing and production, regulatory affairs, marketing and sales, information systems, education and administration.

Graduates of this programme are likely to work in the following fields:

**MEDICINE**

**ENVIRONMENTAL PROCESSES**
- waste water 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 production // biodegradable plastics biosensors for environmental monitoring.

**AGRICULTURE/FOOD INDUSTRY**
- production of plants with enhanced nutritional value, high yields and resistance to environmental stresses // plants genetics and tissue engineering // probiotics and brewing.

**BIOINFORMATICS/BIOSTATISTICS**

**OTHERS**
- Academic, Banks, Patenting, Commercialisation, Business Development, Sales and Marketing, Medical Writing, Genetic Counselling and many more.
The biotechnology programmes at Nilai University are designed to meet the increasing demand in international and local markets for individuals equipped with a qualification that covers a comprehensive range of biotechnology subjects.
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.

The syllabus requires students to take elective courses which are not linked to their core subjects. I signed up for the Introduction to Theatre and Acting and had a really great time. It was very enjoyable and the experience has made me a much more confident individual. I also intend to sign up for the Outward Bound Skills for Survival and Golf modules in the future. These are great opportunities for a person to really spread their wings.

The lecturers are very experienced and they take the time to really explain the lessons. If I do not understand any part of the lesson, I can always approach them for an in-depth explanation.
<table>
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<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>
| FOUNDATION      | Foundation in Science | **Science Degrees** (Degrees other than Medical / Dental / Pharmacy) :  
  - SPM / SPMV / O-Level -- 5 credits including Mathematics, 2 Science subjects and a pass in Bahasa Melayu and English  
  - UEC -- 4Bs including Mathematics and 2 Science subjects  
**Medical / Dental / Pharmacy Degrees**:  
  - SPM / SPMV / O-Level -- Minimum grade B in 5 credits including Mathematics, Additional Mathematics, Physics, Chemistry, Biology, and 1 other subject, and pass in Bahasa Melayu and English  
  - UEC -- Pass with grade B4 in 3 subjects including Mathematics, Additional Mathematics, Physics, Chemistry, Biology and 1 other subject  |
|                 |                    |                             | 1               | JAN MAY OCT |
| DIPLOMA         | Diploma in Biotechnology | o SPM / O-Level -- 3 credits including 2 credits in Mathematics or Science and a pass in Bahasa Melayu  
  - UEC -- 3Bs including Mathematics and Science, also pass in English  
  - Foundation / Matriculation -- Pass  
  - STPM -- Pass with grade C (NGMP 2.0) in 1 subject  
  - AUSMAT / SAM / HSC -- Pass with minimum of 50% in 5 subjects including Science  
  - CPU / CIMP -- Pass with minimum 50% in 6 subjects  
  - IB, UK -- Pass with 24 points in 6 subjects  |
|                 |                    |                             | 2\(\frac{1}{2}\) | JAN MAY OCT |
| DEGREE          | Bachelor of Science (Hons) Biotechnology | o STPM or equivalent -- 2 principal passes with minimum CGPA 2.0 (Grade C) and pass SPM or equivalent  
  - UEC -- 5Bs  
  - Foundation/ Matriculation/ Asasi -- Pass with minimum CGPA 2.0 and pass SPM or equivalent  
  - SAM / AUSMAT / HSC -- Minimum of 50% in 5 subjects including Science  
  - IB, UK -- Minimum 24 points in 6 subjects  
  - CPU / CIMP -- Minimum 50% in 6 subjects  
  - Diploma (Level 4 KKM) -- Pass (related field) and pass SPM  |
|                 |                    |                             | 3               | JAN MAY OCT |

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

### MINIMUM ENGLISH ENTRY REQUIREMENT

<table>
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<tr>
<th></th>
<th>SPM</th>
<th>GCE / IGCSE</th>
<th>IELTS</th>
<th>TOEFL</th>
<th>NILAI U IEP</th>
</tr>
</thead>
</table>
| Diploma & Degree  
(For All Students) | CREDIT | MINIMUM GRADE B | BAND 5.0 |  |  |
| Foundation  
(For All Students) | CREDIT | MINIMUM GRADE B | BAND 5.0 |  |  |

For other qualifications, 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.
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.

35 mins drive from KL

"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
- 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
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Fax: +606 850 1266
SMS: 012 628 1139
Email: marketing@nilai.edu.my
GPS Coordinates: 2°48'50"N 101°46'12"E

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