Bachelor of Environmental Science and Technology
Bachelor of Environmental Management

Faculty of Environmental Studies

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Bachelor of Environmental Science and Technology

With the increasing changes in environmental trends, it is important to groom well-trained human capital who are creatively equipped to face and cope with environmental issues at the global level. The most obvious crisis is the pressing growth of human population that leads to the shortage of natural resources, which in turn demands that industries and economy development be achieved without compromising on natural resources and environmental quality.

The BEST programme is designed to equip students with knowledge of theoretical, fundamental and applied sciences in relation to Environmental Science and Technology. Upon graduation, students will be able to implement the knowledge acquired in various environmental-related fields.

Assessed annually by an independent external examiner from foreign universities (Imperial College, London; the University of Virginia, Charlotteville; the University of East Anglia, Norwich; Tokyo University of Agriculture, Japan and the Gwangju Institute of Science and Technology, South Korea), the BEST programme offered by the Faculty of Environmental Studies, UPM, is one of the best in the region.

Career Path

Upon graduation, those who have the Bachelor of Environmental Science and Technology (BEST) will be able to pursue any one of the following careers:

- Environmental Executive/Officer/Supervisor
- Researcher / Scientist
- Environmental Engineering Technician
- Environmental Science Technician
- Hydrologist
- Environmental Consultants
- Network architect
- Businessman – consultation / modern farming

Curriculum Component

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDIT</th>
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<tbody>
<tr>
<td>University Courses</td>
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<td>Core Courses</td>
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<td>Elective Courses</td>
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<tr>
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Bachelor of Environmental Management

The rapid development around the world brings about changes in land use, natural resources and construction of new industries. To ensure that these developments are sustainable, environmental management experts are always in need.

The Bachelor of Environmental Management by the Faculty of Environmental Studies is designed with the aim of producing skilled and trained graduates who are oriented toward problem-solving by consideration and analysis of relevant aspects of bio-physical, economic and social sciences, who are able to manage the use of technology to improve the quality of life in the administration and management of sustainable development and who are ethical, concerned, proactive, presentable, competitive and possess a culture of excellence.

The Bachelor of Environmental Management takes into consideration the scientific, technical, economic social, planning and other management aspects of the environment to produce strategies to manage environmental resources, and to maintain the usefulness of that environment for habitation by humans and other species. Taught over a period of eight (8) semesters, this programme requires the completion of 135 credits of courses, which includes 24 weeks of industrial training in the 6th Semester, and a final year project thesis.

Career Path

Graduates of the programme stand a chance to serve as the professional resource in the field of environmental management, and will be the ones who will be able to link biophysical and socio-economic aspects in order to plan and manage the sustainable development for the nation towards achieving Vision 2020. The Bachelor of Environmental Management graduates will also have the opportunity to build their career in various fields including management, planning, academia and research, whether in the public or in the private sectors.

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<td>Co-curriculum</td>
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<td>TOTAL</td>
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Admission Requirements

International candidates must possess an equivalent qualification of the Malaysian High School Certificate (STPM) or a Diploma recognised by the Malaysian Government.

**Equivalent Qualification**

1. A pass in O-levels or its equivalent
2. A pass in the A-levels with at least a C Grade in three (3) subjects
3. A Band 3 in the Malaysian University English Test (MUET) or a TOEFL score of at least 550 or a score of 8 in the IELTS examination

AND has fulfilled special requirements for the programme i.e. attaining the required grades in (sciences/arts) as specified for each UPM Bachelor programme

**OR Equivalent Qualification**

1. A pass in the Higher School Certificate (HSC)/its equivalent with at least a C Grade in three (3) subjects or 65% in three (3) subjects in the Final Level of Secondary Education
2. A pass in the University Entrance Exam (for countries which seek such requirement for admission into universities)
3. A Band 3 in the Malaysian University English Test (MUET) or a TOEFL score of at least 550 or a score of 6 in the IELTS examination

AND has fulfilled special requirements for the programme i.e. attaining the required grades in (sciences/arts) as specified for each UPM Bachelor programme

**OR Equivalent Qualification**

1. A Diploma or its equivalent which is recognised by the Malaysian Government and the University Senate with a CGPA of at least 3.00
2. A Band 3 in the Malaysian University English Test (MUET) or a TOEFL score of at least 550 or a score of 6 in the IELTS examination

AND has fulfilled special requirements for the programme i.e. attaining the required grades in (sciences/arts) as specified for each UPM Bachelor programme

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WHY THE FACULTY OF ENVIRONMENTAL STUDIES SHOULD BE YOUR CHOICE

**EXPERIENCE**

The Faculty of Environmental Studies, Universiti Putra Malaysia was established on 1st September 2004. The Faculty originated from the Department of Environmental Sciences which was established in August 1996 under the Faculty of Sciences and Environmental Studies. In the same year the Bachelor of Environment programme was introduced. This degree is recognised as a professional degree by the Malaysian Public Services Department and was the first environment programme to be offered in South East Asia.

**SPECIALIST TRAINEES**

The academic team has strong expertise in various fields such as environmental quality and conservation, pollution and control technology, environmental analysis and modeling, hydrology and hydrogeology, marine and freshwater ecosystem, environmental planning and management, environmental policy and governance, environmental ethics and environmental economics.

**QUALITY ASSURANCE OF THE PROGRAMME**

The faculty’s academic programmes are certified by ISO 9001:2008 and have been given self-accredited status by Malaysian Qualification Agency. The programmes are assessed annually by an independent external assessor from well established institutions.

**INTERNATIONAL AFFILIATION**

The faculty has established collaborations in academic exchange and joint research with well known foreign universities and organizations such as the National University of Science and Technology (NUST), Mitsubishi Corporation, The Academy of Sciences for the Developing World (TWAS), Gwajiku Institute of Science and Technology, Kyoto University and Japan Society for the Promotion of Science (JSPS).

**LEARNING AND ENVIRONMENT**

The faculty is equipped with sufficient resources and facilities for learning and research purposes. All the teaching and research laboratories are well equipped with special equipment such as HPLC and GCMS. There are also computer labs with fast internet connection and a resource centre that provides publications and references for students. Additionally, a Centre of Excellence for Environmental Forensics was established in September 2008 to carry out high impact research activities on environmental pollution and forensics and to be a training and technology transfer centre for environmental forensics.

**INDUSTRIAL TRAINING**

Students are required to undergo 6 months of industrial training in public and private sectors in order to graduate. By going through such training, students will be exposed to the industry and will gain knowledge and experience needed to prepare for the working environment in the real world.
About UPM

Vision
To become a university of international repute

Mission
To make meaningful contributions towards wealth creation, nation building and universal human advancement through the exploration and dissemination of knowledge

The UPM Campus

UPM has 2 campuses. The Main Campus, stretching over 1,214 hectares, is in Serdang, and is about 23 kilometres south of Kuala Lumpur, the capital city of Malaysia, and approximately 45 kilometres away from the Kuala Lumpur International Airport (KLIA).

UPM’s branch campus in Bintulu, Sarawak stands over a land of 715.16 hectares, and is surrounded by lush green forest environment, rich with diverse types of flora and fauna.

Fast Facts*

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*As of 2010

Knowing MALAYSIA

Malaysia is a bustling melting pot of races and religions where the Malays, Indians, Chinese and many other ethnic groups live together in peace and harmony. The multiculturalism that is unique to Malaysia has made Malaysia home to hundreds of colourful festivals. Malaysians love celebrating and socialising, and are very warm and friendly in nature. In Malaysia, a wonderful balance between modernisation and traditions can be clearly observed, even in bustling cities like Kuala Lumpur. The modern Malaysia’s famous towering skyscrapers are beautifully contrasted with traditional wooden houses built on stilts found in villages. In essence, the people of Malaysia are strongly rooted in their individual cultures.

Malaysia has a population of approximately 27 million. The country experiences tropical weather year-round. Temperatures range from 21°C (70°F) to 32°C (90°F).

Malay Language (Bahasa Melayu) is the national language in use, but English is widely spoken. The ethnic groups also converse in their various languages and dialects.