



**UPM**  
UNIVERSITI PUTRA MALAYSIA



2024 - 2025

# PROSPECTUS

UNIVERSITI PUTRA MALAYSIA

WITH KNOWLEDGE WE SERVE

Agriculture • Innovation • Life





**The country  
experiences  
a tropical  
climate with  
year-round  
temperature**  
ranging from  
21°C (70°F) to  
32°C (90°F)



# MESSAGE FROM THE VICE CHANCELLOR

*Welcome to* **Universiti Putra Malaysia**

**G**reetings from Universiti Putra Malaysia, where the pursuit of knowledge has no frontiers!

Whether you are a recent high school graduate or an experienced professional seeking to advance your knowledge and skills, we welcome individuals at every stage of their academic journey. At UPM, we offer a diverse range of top-notch programmes from various faculties. Our campuses are located in Serdang (within the state of Selangor), and Bintulu (within the state of Sarawak).

UPM boasts the distinction of being the largest university in Malaysia in terms of land size. We take great pride in our nurturing and conducive learning environment. Our Serdang campus is conveniently located a short distance from Kuala Lumpur, the capital of Malaysia, and close to Putrajaya, the administrative capital. Both our campuses are nestled in acres of lush greenery. For nature lovers, there are numerous areas on campus for outdoor activities. For photography and social media enthusiasts, every corner of the campus serves as a natural backdrop, perfect for capturing campus-life moments.

If you happen to be in the vicinity, we warmly invite you to visit our campus. For those overseas, you can explore UPM's Google Street View to witness the beauty and serenity of our campus. The beautiful

university grounds are matched by our reputation as a world-class higher learning institution. We are ranked 158<sup>th</sup> in the world, 25<sup>th</sup> in Asia, and 3<sup>rd</sup> in Malaysia. We take pride in offering several programs ranked in the top 200 worldwide, such as Agriculture and Forestry, Petroleum Engineering, and Veterinary Sciences.

Our faculty members consist of a diverse blend of experienced academics and young, enthusiastic scholars deeply committed to their work. We have a tradition of winning awards at both the national and international levels. Nevertheless, we do not rest on our laurels and remain dedicated to continuously improving ourselves.

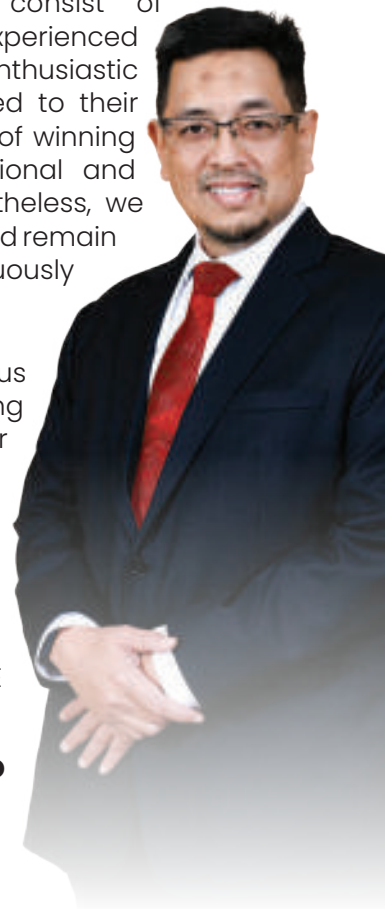
We hope this Prospectus will assist you in making the best decision for your educational journey. We would love to see you at UPM.

Best wishes!

"WITH KNOWLEDGE WE  
SERVE"

**DATO' PROF. DR. AHMAD  
FARHAN MOHD SADULLAH**

Vice Chancellor  
Universiti Putra Malaysia



# STUDYING IN MALAYSIA: A HOME AWAY FROM HOME AT UPM



**M**alaysia, with its two distinct regions, Peninsular Malaysia (West Malaysia) and East Malaysia on the island of Borneo, separated by the South China Sea, is a unique and diverse nation. It is a harmonious blend of Malays, Chinese, Indians, Ibans, Kadazans, and other ethnic groups who coexist peacefully as Malaysians, despite their linguistic diversity. This mutual respect and acceptance create a lasting and meaningful sense of peace and stability.

Malaysia's multiculturalism has given rise to numerous vibrant festivals celebrated throughout the year, reflecting the warm and friendly nature of its people. The country successfully balances modern living with deeply rooted traditions, evident in the traditional wooden houses on stilts found in rural villages.

You can have the best of both worlds by pursuing your studies in this enhancing and diverse countries of over 30 million people .

Malaysia enjoys a tropical climate, with temperatures ranging from 21°C (70°F) to 32°C (90°F) year-round. The primary language is Bahasa Melayu (Malay), spoken by the majority of Malaysians. The country boasts top-tier infrastructure, including ultra-modern airports, vast seaports, multi-lane highways, and intercity rail services, ensuring convenient connectivity.

Malaysia's robust economy positions it as an industrial and commercial powerhouse in Southeast Asia. Whether you prefer the bustling city life or the serene charm of villages, the country offers miles of beautiful beaches, emerald islands, and lush forests, providing a unique and enriching learning experience.

With over 30 years of experience in international education and more than 100,000 international students currently studying in Malaysia, the





country maintains strict oversight to ensure institutions adhere to the highest educational standards. Malaysia aligns its qualifications and educational quality with international best practices.

This commitment has led to the establishment of branch campuses by reputable foreign universities from the United Kingdom, Australia, and New Zealand in collaboration with Malaysian educational institutions. Studying in Malaysia not only guarantees quality education but also offers one of the most enriching cultural experiences in the world.

Consider UPM as your academic home in Malaysia, where you can pursue your educational dreams while immersing yourself in this diverse and welcoming nation.

You can have the **best of both worlds** by **pursuing your studies in this enhancing and diverse countries** of over **30 million people**



# OUR CAMPUSES

#WeLoveUPM





# INTRODUCING UNIVERSITI PUTRA MALAYSIA (UPM) **WHERE KNOWLEDGE MEETS OPPORTUNITY**

**N**estled just 22 kilometers from the bustling metropolis of Kuala Lumpur, Universiti Putra Malaysia (UPM) stands as a beacon of academic excellence and knowledge advancement. UPM is one of the five designated Research Universities (RU) in Malaysia, dedicated to the relentless pursuit and dissemination of knowledge. Established in 1931, UPM has earned international recognition as one of the most distinguished universities in the region, offering a rich tapestry of academic disciplines, including Engineering, Agriculture, Forestry, Veterinary Medicine, Medicine and Health Sciences, Economics and Management, Educational Studies, Sciences, Food Sciences and Technology, Human Ecology, Modern Language and Communication, Design and Architecture, Computer Science and Information Technology, Biotechnology and Biomolecular Sciences, and Environmental Sciences.



With a history spanning 93 years, UPM stands as a multidisciplinary institution strategically located within Malaysia's ambitious Multimedia Super Corridor (MSC). The MSC, a Malaysian Government-designated zone, is aimed at propelling the nation into the forefront of the information technology age. As one of the largest universities in Malaysia, UPM plays a pivotal role in nurturing and shaping learned and skilled human capital within the nation.

At the heart of all UPM endeavours lies the fundamental principle that knowledge is paramount. This philosophy is embodied in its resounding slogan, "With Knowledge We Serve." UPM is unwavering in its commitment to inspire its academic community to achieve excellence in teaching and research, thereby contributing to the material and spiritual betterment of society. With the essential qualities and resources required to stand alongside renowned local and international institutions of higher learning, UPM offers you a gateway to a world of unparalleled opportunities that will undoubtedly enrich your life and shape your future. Join UPM, where knowledge not only serves as the foundation but as a guiding light towards a brighter, more promising tomorrow.



# HISTORICAL LANDMARKS (2022–2023)

## A Journey Through Time The Legacy of Universiti Putra Malaysia

In the annals of academic history, the story of Universiti Putra Malaysia unfolds as a tapestry of evolution and achievement. This esteemed institution, originally founded as the School of Agriculture in the year 1931, had its humble beginnings on a modest 22-acre expanse in the serene Serdang region. At its inception, it offered two pioneering programs: a three-year diploma curriculum and a one-year certificate course in Agriculture.

A transformative moment transpired in 1947 when Sir Edward Gent, the Governor of the Malayan Union, declared the institution the College of Agriculture Malaya. The journey continued, and Universiti Pertanian Malaysia was born through the amalgamation of the College of Agriculture in Serdang and the Faculty of Agriculture at the University of Malaya. Dr. Mohd Rashdan bin Haji Baba, then the principal of the College of Agriculture Malaya, was appointed as the institution's inaugural Vice Chancellor, in accordance with the provisions of Section 18 of the Universities and University Colleges Act of 1971.

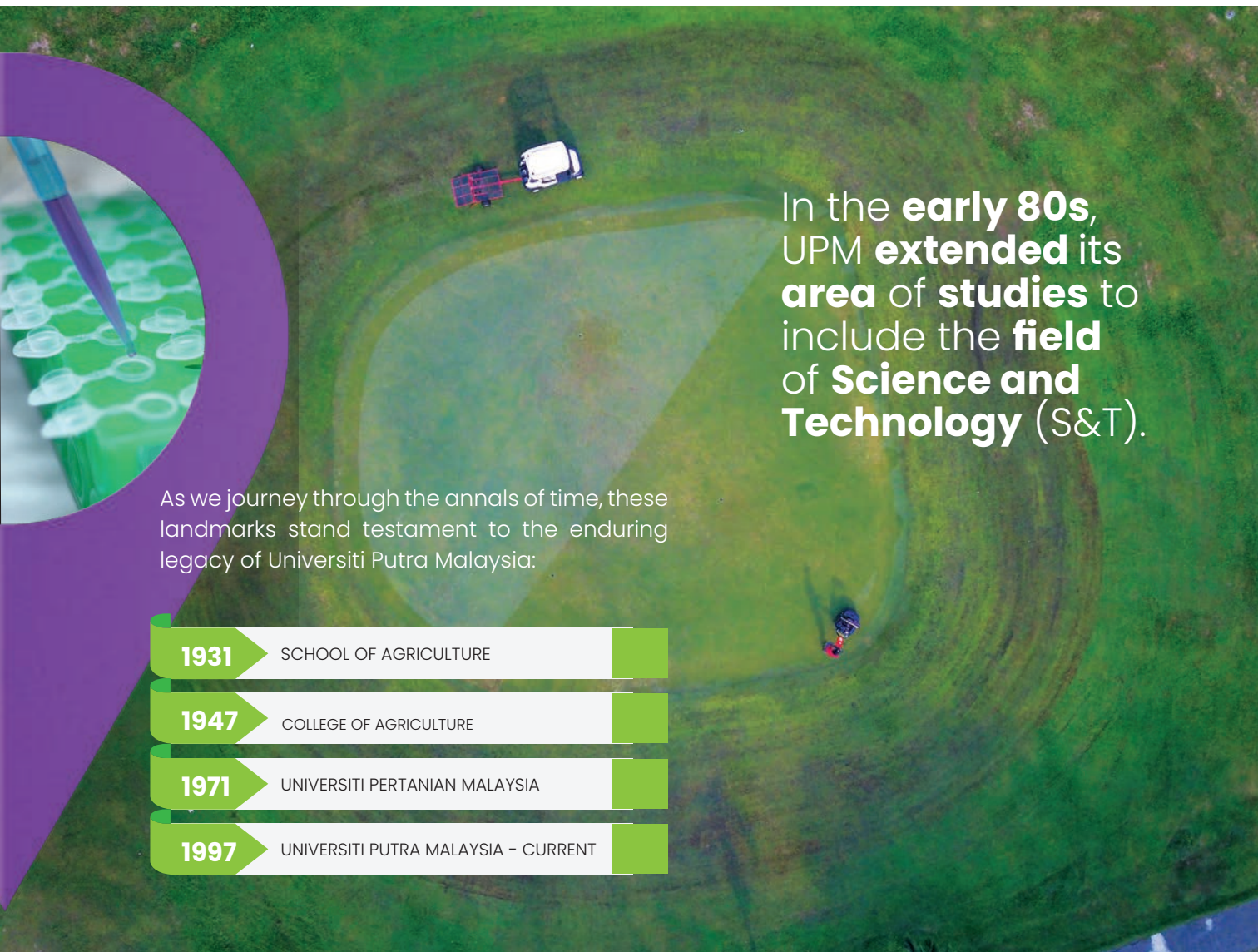


With a pioneering cohort of 1,559 students, Universiti Pertanian Malaysia commenced its academic odyssey in July 1973, featuring three central faculties and one basic division: The Faculty of Veterinary Medicine and Animal Sciences, Faculty of Forestry, Faculty of Agriculture, and the Division of Foundation Studies. In this era, as the world pivoted toward technological innovation and growth, Universiti Pertanian Malaysia was steadily laying the groundwork to establish itself as the nation's foremost agricultural university.

In the early 1980s, UPM extended its sphere of knowledge to encompass the realms of Science and Technology (S&T). Then, in a momentous turn of events in 1997, the institution's name was transformed into Universiti Putra Malaysia, a strategic gesture endorsed by the former Prime Minister, Tun Dr. Mahathir Mohammad. This change symbolized UPM's status as a preeminent center of higher education, offering an array of fields of study, especially in the domains of science, information technology and social science.







In the **early 80s**,  
UPM **extended** its  
**area** of **studies** to  
include the **field**  
of **Science and**  
**Technology** (S&T).

As we journey through the annals of time, these landmarks stand testament to the enduring legacy of Universiti Putra Malaysia:

**1931**

SCHOOL OF AGRICULTURE

**1947**

COLLEGE OF AGRICULTURE

**1971**

UNIVERSITI PERTANIAN MALAYSIA

**1997**

UNIVERSITI PUTRA MALAYSIA – CURRENT



# WHY CHOOSE UPM

Moreover, in the modern era, UPM has achieved numerous accolades and accreditations, cementing its status as a renowned institution of higher learning.



Ranked **25<sup>th</sup>** in  
**Ui Greenmetric World  
University Ranking**  
#1 in Malaysia;  
#2 in Southeast Asia;  
#2 in Asia



Ranked **158<sup>th</sup>** in  
**QS World University  
2024**

**>25<sup>th</sup>**  
in the World

**>81<sup>st</sup>**

**>158<sup>th</sup>**

**>25<sup>th</sup>**



Ranked **81<sup>st</sup>** in  
**Times Higher  
Education Emerging  
Economies Ranking**



World University  
Rankings 2023  
**Asia**



Ranked **25<sup>th</sup>**  
**Best Asian University  
in QS Asia University  
Ranking 2024**



- This illustrious journey through time underscores the commitment of Universiti Putra Malaysia to academic excellence and a legacy of progress.





**13 Subjects** Ranked  
**Top 200 Universities**  
in **The World**



Ranked **(201-300)<sup>th</sup>** in  
**Times Higher Education**  
**Impact Rankings**

**>200**

13 Subjects TOP

**>36<sup>th</sup>**

**>200-300**

**>154<sup>th</sup>**



Ranked **36<sup>th</sup>** in  
**Agricultural Sciences**  
by **US News and World Resort:**  
**Best Global Universities**  
**Rankings**



Ranked **154<sup>th</sup>** in  
**Times Higher**  
**Education Asia**  
**University Rankings**



World University  
Rankings 2023  
**Asia**







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According to **QS  
Top Universities  
Ranking 2024**,  
Malaysia is **one of  
the best country**  
to study in Asia  
and **Universiti  
Putra Malaysia**  
is in the top 3.  
Over the years  
UPM has received  
increasing numbers  
of international  
students for full-  
time study and  
mobility.

# Campus Life







## eDU-PARK®

**H**oused within the campus grounds, is an experiential learning park which is an amazing gateway to a visual and interactive learning experience unmatched by any other institutions of higher learning. Covering a vast rolling landscape, the UPM eDU-PARK® takes visitors and students to a spectacular array of educational expositions and hands-on, on-the-ground experiences with animals, plants and visually exciting exhibitions.

Open to adults and children of all ages, the eDU-PARK® comprises an Equine Centre where you can learn everything you need to know about horses and even ride them, a dairy farm that offers a deep insight into cattle farming, breeding and production of dairy products and an awe-inspiring Deer Farm where deer is bred and domesticated.

The Animal Anatomy Museum offers visitors knowledge of the different bone structures of all animals, their alimentary systems and other physical attributes. Next to it is the Human Anatomy Museum which spectacularly displays with special effects the human skeletal structure, the heart and the blood circulatory system, the respiratory system, the brain and the nervous system and many more.





**The Animal Anatomy Museum offers visitors knowledge of the different bone structures of all animals, their alimentary systems and other physical attributes.**



For the culturally inclined visitors and students, there is a comprehensive Malay Heritage Museum which showcases the complete spectrum of Malay arts and crafts, clothing, weapons and architecture. Visitors can purchase various agricultural products from the PUTRA Mart® and also go on a tour of UPM's Conservatory Park very own herbal garden with its numerous Malaysian, Asian and Western herbs. Finally after a visit to the Gallery Serdang, they can settle down to a sumptuous Malaysian meal and refreshments at the Lápprenti Restaurant and Café at the eDU-PARK®, probably the only one of its kind in the region.

#### FURTHER INFORMATION

##### **University Community Transformation Centre (UCTC)**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603-97691805/1806  
E-mail: [uctc\\_all@upm.edu.my](mailto:uctc_all@upm.edu.my)  
Website: <https://uctc.upm.edu.my>



# CAMPUS FACILITIES



## Transforming Administrative Management and Service Delivery on Campus

### PUTRA PORTAL

**Portal Putra®** is a one-stop digital platform that benefits UPM students and staff to access and manage the University's main application efficiently. By using the UPM-ID, students can access the Student Information System (SMP) (Undergraduate), Graduate Information Management Internet Portal (iGIMS) (Post Graduate), e-mail and other related facilities through **Portal Putra®** (<http://portal.upm.edu.my/>)



**PutraBLAST**

**Putra®Blast** is the University's main online PdP system, which has been upgraded to Moodle version 4.1. New features such as quizzes, forums, assignments or interactive content have helped 26,000 students from Pre-University, Undergraduate and Postgraduate programs. (<http://learninghub.upm.edu.my/>)

**Smart Putra®Voucher** enables the distribution of meal voucher assistance to students easily and helps track expenses, credit balance transfers to third parties or credit redemption for cash other than food. Food purchase assistance through Smart Putra®Voucher is given to B40 students. (<https://putravoucher.upm.edu.my/>)



**Smart Putra®Presence** is an application used to record the attendance of students or administrators attending classes, seminars, workshops, meetings or official programs at the university. (<http://putrapresence.upm.edu.my/>)

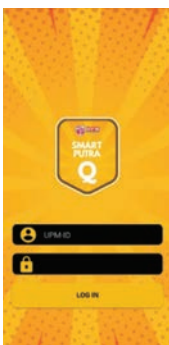


**Smart Putra®Voting** is a mobile voting platform for the UPM Student Representative Council Election Session 2020/2021. The method for voting is no



longer dependent on ballot papers and polling places. Instead all related tasks can be done at your fingertips with the concept of Any Where, Any Time & Any Device.

**Putra®Queue**, this smart application, a queue management system that can be done 'at your fingertips' with the concept of Anywhere, Anytime & Any Device, can help handle the management of long queues and congestion at customer service counters, while ensuring compliance with social distancing measures. Customers who wish to carry out transactions can queue from anywhere on any device. They only need to arrive on time for their appointments.



## Expanding High Speed Internet Facilities



**UPMNET**, which is the campus network, allows users to connect to both the local network (Intranet) and the wider Internet. In the academic and admin buildings,

wired connections can be used for desktop computers. Additionally, mobile devices can access the network wirelessly through Putra®Net in academic areas and PutraHotspot in college areas. UPM students can use this service by using UPM-ID and selecting SSID WIFI PutraNet and Hotspot@PUTRA in their respective.



The high-speed internet, **Putra®Premium**, is provided for students located in the Serdang Campus residential colleges. Currently the facility, has been extended to UPM Bintulu Campus (Sri Rajang College and Library). This facility is provided to meet the increasing needs of the new norms of online learning.

## Latest Technological Infrastructure

Creating a smart campus environment with a digital concept, by implementing the use of Quick Response Code (QR Code) applications and BYOD mobile services for all university students. The PdP ecosystem is based on the latest technology through the creation of Putra®Smart Classroom (PFC) and Putra®VDI (PVDI).

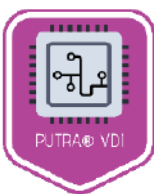


### Putra®Smart Classroom

is a transformation of conventional teaching and learning delivery method to a more dynamic and creative one in accordance with current developments. It is implemented by upgrading rooms or lecture halls with facilities that support the needs of PdP with a hybrid concept.



**Putra®VDI** is equipped with system control using UPM ID to help support mobile teaching and learning for UPM students using computer lab software with more flexibility in a hybrid way.



## Sultan Abdul Samad Library

The Sultan Abdul Samad Library was established in 1931. The Main Library building comprises of two blocks and could accommodate up to 2,000 users at a time. There are four branch libraries namely The Medicine and Health Sciences Library, Engineering and Architecture Library, Veterinary Medicine Library, and Bintulu, Sarawak Campus Library.

UPM Library holds an impressive collection of nearly 800,000 books, non-print items in a wide range of formats, and other materials that support the University's research, teaching and learning programs. Providing easy access to over several thousand titles, mainly journals via full text databases, the collections



are spread across the subject areas. The library is fully automated and maintains a fully integrated library technology system to support all library operations and technical services. More information can be found on the library website [www.lib.upm.edu.my](http://www.lib.upm.edu.my).

As leading in agricultural collections, the library holds several thousand items covering all aspects of agriculture and related sciences. The depth and richness of the collection make it a unique resource, with many materials not available elsewhere in the world. In support of the Universiti Putra Malaysia global mission, the library provides professional expertise, diverse information resources, and knowledge-based services for the advancement of its quality research, teaching and learning.



## Arts and Culture Centre (The Sultan Salahuddin Abdul Aziz Shah Cultural and Arts Centre)

The Sultan Salahuddin Abdul Aziz Shah Cultural and Arts Centre provides a platform for students to undertake cultural activities and performances, which can be staged at the main hall which has a capacity to accommodate about 2,800 people. The Experimental Theatre alone can house more than 500 spectators at any one time. The Centre allows students to showcase their talents, skills and cultural diversities.

## Putra Agriculture Centre

Set up in 2001, the park formerly known as University Agricultural Park is designed to facilitate on-site teaching and learning



The Sultan  
Salahuddin Abdul  
Aziz Shah Cultural  
and Arts Centre  
provides a platform  
for **students to  
undertake cultural  
activities and  
performances**

and conduct research in agriculture. The farm activities and services ranging from production of crops, livestock, aquaculture as well as landscaping and towards high value added on agriculture products marketing. The park entertains students with actual practical assignments in an eco-system that serves as an ideal training ground and experiential learning for themselves.

## Transportation (2023-2024)

Students' transportation inside and outside of campus is well taken care of via the UPM coach services. Each student is expected to pay approximately USD 20 (MYR 75) per semester for unlimited rides. UPM's Student Affairs Division has also allocated more than 20 university buses to cater to the students' academic and co-curricular activities outside the campus. UPM's covered bus-stops are equipped with fans, lights and notice boards to maximise the students' comfort.



## Sports and Recreation (2023–2024)

There are several sports facilities available at UPM, aimed at encouraging and supporting the students in their sports initiatives. UPM's commitment to sports can be seen by the dedicated block for athletes, built at the Canselor College. UPM also has a swimming pool, a sports complex with main stadium for track and field events, multipurpose hall (for indoor games such as squash, netball, sepak takraw, volleyball, basketball), golf course, and even an equine park etc.

## Amenities

Basic amenities available within the campus include a post office, bank, bookshop, optical shop, bicycle shop, car and motorcycle workshop, etc. A cooperative bookstore sells reference books, stationery as well as groceries. There is also a campus bookstore where students can get books related to their courses of study.



## Food and Beverage

Dining options on and around the campus are diverse, ranging from cafeterias and restaurants to food stalls, coffee shops, and bubble tea franchises. The culinary landscape caters to various preferences, ensuring that students have a plethora of choices to satisfy their cravings. Whether within the campus or in the neighboring areas, there is no shortage of dining establishments, with many eateries operating 24/7. Some renowned fast-food establishments in the offering a variety of options for students and visitors alike.



## Health and Well-being

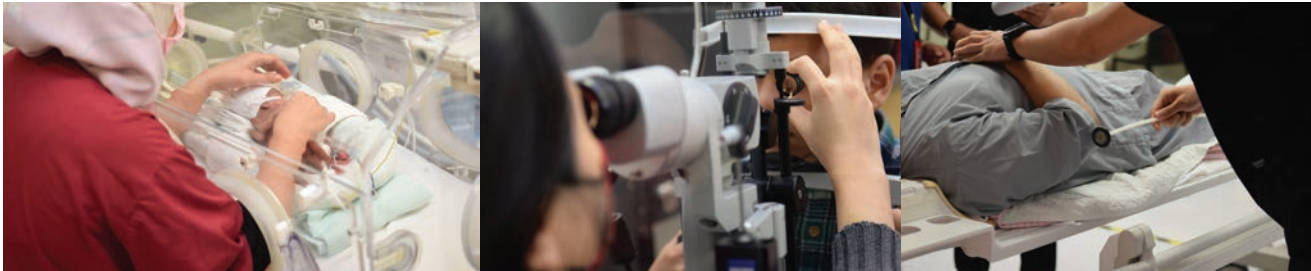
International students have convenient access to outpatient clinic services at the University Health Centre situated on campus. This facility offers a comprehensive range of health services, boasting modern amenities and pharmaceutical resources that facilitate the efficient delivery of top-notch health and dental care to all registered students and staff. The center is equipped with various essential services, including medical and dental care, X-ray facilities, physiotherapy, ambulance services, a

dispensary, and a laboratory, ensuring a holistic approach to healthcare for the university community.

## Hospital Sultan Abdul Aziz Shah

Hospital Sultan Abdul Aziz Shah (HSAAS) started its operations on 3<sup>rd</sup> September 2019, specialises in sub-specialty services and intends to collaborate with all parties inside and outside UPM including foreign countries.

HSAAS has several referral specialist clinics, departments and units as follows:



- Medicine (Geriatrics, Dermatology, etc.)
- Neurology (Stroke, etc.)
- Pediatrics (Immunology, Allergy, Endocrinology, etc.)
- Obstetrics & Gynecology (Infertility, Maternal-Fetal Medicine, etc.)
- Ophthalmology (Retina, etc.)
- Rehabilitation Medicine (Stroke, Geriatrics, etc.)
- Pathology (Dermatopathology, etc.)
- Microbiology (Molecular, etc.)
- Dietetics (In-patient Dietetics Services, etc.)
- Surgery (Gastroenterology, Intestine, Bariatric, etc.)
- Urology (Men’s Health, Prostate Health, Robotic Surgery, etc.)
- Psychiatry (Child, Adolescent, Psychotherapy, etc.)
- Orthopedics (Hand Microsurgery, Spine Surgery, Sports Surgery, Arthroscopic, etc.)
- Family Medicine (Cardiovascular Risk Control, Exercise Prescription, etc.)
- Anesthesiology & Intensive Care (Stroke, Acute Pain, etc.)
- ENT & Head and Neck Surgery (H+T) (H+T Surgery, Child, Sialendoscopy, etc.)

- Radiology (Radiology Intervention, etc.)
- Nuclear Medicine (Diagnostics, etc.)

### NICHE FIELDS

- Regional Emergency Stroke Quick Response RESQ (Stroke Treatment)
- Geriatric Care (Treatment of Aging Diseases)
- Prostate Care (Prostate Gland Care, Urology)
- Zoonotic Disease Care (Animal Related Diseases)



## Achievements

### Laboratory for COVID-19 RT-PCR Test Samples

HSAAS has been designated as one of the National COVID-19 laboratories for analyzing COVID-19 screening test samples. This mission is critical, and the government's trust implicitly recognizes HSAAS expertise in testing COVID-19 sample in large volume and ensuring the accuracy of the test results. This recognition is something to be proud of for a new hospital.

### Robotic Surgery

HSAAS is one of the four health institutions in Malaysia that has equipment for the Robotic Surgical System. HSAAS made its own history on 15<sup>th</sup> Mac 2020, by successfully performing robotic surgery for kidney cancer.

### Recipient of Diamond Award from World Stroke Organisation

At the end of 2021, the World Stroke Organisation (WSO) awarded the Diamond Status to HSAAS in conjunction with the WSO Angels Awards Q4 2021. This award is an international recognition of health institutions that are highly committed to providing stroke care with a high-quality ecosystem supporting ongoing stroke care.



In total, **HSAAS** has **17 wards with a capacity of 400 beds** and has a link bridge that connects HSAAS with the Serdang Hospital.

### COVID-19 Vaccination Programme

HSAAS has been given the responsibility as the Vaccination Centre (PPV) to help the government implement the National COVID-19 Immunisation Programme (PICK) starting in March 2021.

In total, HSAAS has 17 wards with a capacity of 400 beds and has a link bridge that connects HSAAS with Hospital Sultan Abdul Aziz Shah formerly known as Serdang Hospital.

HSAAS offers the first One-Stop Treatment Centre (RESQ) in Malaysia and Asia in treating patients who have suffered a stroke due to blockage of blood vessels in the brain.

The RESQ HSAAS offers a **24-hour emergency** service for stroke patients.

## CONTACT

### Hospital Sultan Abdul Aziz Shah (HSAAS)

Persiaran Mardi - UPM  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603-9769 5500

Email: [hsaas.contact@upm.edu.my](mailto:hsaas.contact@upm.edu.my)

## Counselling Services

Counselling services are provided so that Universiti Putra Malaysia members can express their feelings and thoughts and behaviours in an environment that is unbiased, professional and protected by the ethics of secrecy.

Counselling is an interaction process between a professional counsellor and a client whose counsellors will help clients explore their own resources that contribute to the issues they face. This is because acceptance and certification of self-esteem is an essential ingredient in producing self-change.

In terms of accommodation, UPM endeavours to provide comfort, security and convenience. The living quarters are designed to exude a warm, homely feeling that enable students to focus on their studies with a total peace of mind. If the student feels the need to call home, be assured that UPM has all the connections to help you get in touch with your loved ones. We can assure you that living in the campus is going to be an experience that will change your outlook in life; it is more than fun, it is freedom that will shape your future not only as one with knowledge but also as an exceptional human being.



## Living in UPM

This is a home with the experience that students will want to take away with them when they graduate. The exposure here is stimulating fun and throughout your stay at UPM, you will enjoy interacting with your peers, making decision, establishing friendships, balancing studies, and making the best of things – these experiences will stand you in good stead when you later take on the challenges of your calling and career.

## On-Campus Accommodation

The on-campus accommodation provides great value for money and is situated in close proximity to campus facilities, transport and other important consumer services. There are two types of accommodation within the UPM campus which are available for international students. These include student apartments which comprise 2-bedroom / 1-bathroom apartments (not furnished / semi-furnished), and residential colleges,





which comprise twin-sharing rooms with common facilities. International students are advised to reserve their accommodation before coming to Malaysia as apartments and rooms in residential colleges are limited. The cost of accommodation can vary from USD 100 – USD 600 a month.

### **Residential Colleges**

There are 10 residential colleges on campus that can accommodate up to 70% of the UPM'S student population. The housing option varies from single rooms to double rooms that can accommodate up to four students at any one time.

### **KMR OnePUTRA® Residence**

The University's housing complex comprises 160 attractive and modern apartments. These apartments are intended for married postgraduate international students who are accompanied by their spouses and children. Each unit has two bedrooms with reasonable rental rates starting from USD 65 (one week) – USD 250 (per month).

### **Off-Campus Private Accommodation**

UPM students may choose to stay off campus for their convenience and comfort. There are many private housing areas in the vicinity of UPM that offer reasonable rentals such as in Taman Seri Serdang, Seri Kembangan, Balakong, Taman Universiti Indah, Bukit Serdang, Serdang Jaya, Serdang Baru and Bangi. Rental rates vary depending on the location and size of the property, and deposits are usually about 1-2 months' rent. Public transportation provides fast and efficient service to and from the University.

### **UPM Seekers of Knowledge**

The attraction does not lie in only the pursuit of UPM's academic excellence, but also in the opportunity to experience a whole new environment, observing cultural differences, enjoying the various Malaysian cuisine, benefiting from the reasonable cost of living and taking in the incredibly exciting sights, sounds and beauty of a nation blessed by geography and nature.

Students from over 80 countries come here to acquire a world-class education;

- Afghanistan
- Algeria
- Australia
- Austria
- Bahrain
- Bangladesh
- Belgium
- Brunei
- Darussalam
- Cambodia
- Cameroon
- Canada
- Chad
- China

- Comoros
- Djibouti
- Egypt
- El Salvador
- Eritrea
- Finland
- France
- Gambia
- Germany
- Ghana
- Guinea
- Hong Kong
- Hungary
- India
- Indonesia
- Iran
- Iraq
- Italy
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kosovo
- Kuwait
- Laos People's Democratic Rep
- Lebanon
- Libya
- Luxembourg
- Mauritania
- Mauritius
- Mexico
- Morocco
- Mozambique
- Myanmar
- Nepal
- Netherlands
- Nigeria
- Oman
- Pakistan
- Palestine
- Philippines
- Poland
- Portugal
- Qatar
- Rep of Tanzania
- Rwanda
- Saudi Arabia
- Senegal
- Serbia
- Sierra Leone
- Singapore
- Somalia
- South Korea
- Spain
- Sri Lanka
- Sudan
- Sweden
- Switzerland
- Syria
- Taiwan
- Tajikistan
- Thailand
- The Maldives
- Tunisia
- Turkey
- United Arab Emirates
- United Kingdom
- United States of America
- Uzbekistan
- Vietnam
- Yemen
- Zambia
- Zimbabwe

## International Supports

According to QS Top Universities Ranking 2024, Malaysia is one of the best country to study in Asia and Universiti Putra Malaysia is in the top 3. Over the years UPM has received increasing numbers of international students for full-time study and mobility programmes. In order to provide best experience for the international students, UPM formed an association that gives support for international students throughout their studies such as UPM International Student Association (UPMISA) and Buddies Associations who helps these association aims to foster good relationship among

all international students through various interactive cultural programmes and activities offered yearly and to assist new students in cultural immersions.

## Living in Serdang and Its Vicinity

The cost of living in Malaysia is considered affordable in contrast to some other countries. For international students studying in UPM, the cost of living is relatively low. The estimated basic cost of living is about RM1,500 - RM2,000 (USD 400 - USD 530) per month excluding meals. This estimation, however, varies according to the needs and lifestyle of



the student. Individual student residing on-campus are expected to have adequate expenditure to cover their living expenses throughout their stay in Malaysia which might include apparel, book, transportation, travelling and more.

In UPM, there are various type of accommodations for international students from apartment, studio, shared a bedroom and even dormitory. These accommodations are made available for all students with price range ranging from RM300 – RM1,800 per month. Most facilities and amenities are available on campus and its vicinity, which makes studying in UPM a breeze.

### **Visa and Student Pass**

It is imperative for all international students who are studying in UPM to stay in Malaysia legally. Thus effective 1<sup>st</sup> January 2014, all new international students must obtain a Visa Approval Letter (VAL) through the Education Malaysia Global Services (EMGS) prior to their arrival to Malaysia. The VAL has to be applied online and take approximately 6-8 weeks to complete. Once the student has received an e-VAL from the EMGS, he/she is required to obtain Single Entry Visa (SEV) at overseas Malaysian embassy or Consular Representative (commission). The SEV enables student to enter Malaysia legally. However, the approval for the e-VAL application is subjected to the Immigration Department of Malaysia. For further information on the Visa and Student Pass procedures application can be obtained by contacting i-PUTRA via

email at [visapass@upm.edu.my](mailto:visapass@upm.edu.my) or call us at +603 9769 7972.

### **Airport Pick Up**

UPM does not provide airport pickup services. However, the commute from the Airport is a breeze as there are various public transport readily available at the airport in order to reach UPM.

### **PUTRA International Centre (i-PUTRA®)**

**PUTRA** International Centre (i-**PUTRA**®) is an office which is responsible for various matters relating to the international student's visa applications, administrations and mobility. The mission of i-**PUTRA**® is to advocate, encourage and facilitate the internationalisation of the university community aligned with UPM's vision of becoming a university of international repute. The office functions to facilitate, promote, develop, and support international mobility and education while providing services and consultation on immigration compliance for the international community. As of present, i-**PUTRA**® is continuing to expand its portfolio.

### **Orientations for New International Students**

Adjusting to a new and foreign environment is one of the challenges faced by international students in UPM. To assist the new students to adapt to the new environment, i-**PUTRA**® organizes a comprehensive orientation programme which is held every semester for the new international students. This orientation

program consisted of two-part which is four wall concept and excursion. The first sessions are held to prepare the students for the requirement throughout their studies which includes briefing on academic matters, visa and pass, health and many more. The second session usually consists of trips to historical places in Malaysia and experience cultural immersion first-hand with the assistance of student Buddies and UPMISA.

### **Immerse in Diverse Culture of Malaysia**

Malaysia is the melting pot of various races contributed to its great cultural diversity. Indigenous tribes, Malays, Chinese, and Indians have all contributed to the diverse culture of the country. Years of historical influences from Persian Empire, British, and Arabic nations also be seen in the architecture and cultural practices in Malaysia. In UPM, cultural diversity is further enriched with various nationalities of almost 7,000 international students currently enrolled in UPM.

### **Safety**

UPM places the highest importance on ensuring the safety of its students. UPM's security personnel patrol the campus throughout the clock and are always ready to assist whenever and wherever it is needed..

### **Entertainment and Shopping**

UPM's main campus is a 20-minute drive away from the capital city of Malaysia, Kuala Lumpur; the central location of nation's top shopping and entertainment

centre. In addition, UPM is located near Malaysia's main bus terminal and train station TBS which can make cross states travel a breeze.

### **Currency**

The monetary unit of the country is Ringgit Malaysia and is written as RM. The exchange rate is valued at USD 1 = RM4.72 (as of January 2024) with minor fluctuations from time to time. Foreign currencies can be exchanged at banks and licensed money changers.

### **Part-Time Employment**

International students studying full time in UPM are not encouraged to work either part-time or full time during their study. However, an exception can be given on a special case basis. The decision on part-time employment for international students is bounded by the rules and regulations set by the Immigration Department of Malaysia and any decision relating to this matter are subject to the consideration of the immigration department.

#### **FURTHER INFORMATION**

##### **PUTRA® International Centre (i-PUTRA)**

Universiti Putra Malaysia

43400 UPM Serdang

Selangor Darul Ehsan

Tel: +603 9769 7972

Email: [intl@upm.edu.my](mailto:intl@upm.edu.my)

Website: <https://intl.upm.edu.my>



## Student Associations

UPM is a holistic campus, one where knowledge is dispensed to the highest degree and where students are exposed to a diversity of activities to stimulate their thinking, agility and character building beyond the classroom.

This is the way to strive for excellence, an opportunity for students to tap their talents, discover their potentials and harness it to their advantage. The university has put in place a number of extracurricular activities that are just as important as academic success.

### Sports Clubs

Students can make use of the sports complex, which is equipped with a main stadium for track and field events and the multi- purpose hall for indoor games and other facilities designed to develop well-rounded students.

- Olympic-size Swimming Pool
- Hockey, Football and Rugby Fields

- Softball, Badminton, Sepak Takraw, Netball, Tennis, Table Tennis, Basketball and Volleyball Courts
- Archery
- Water Polo
- Softball Field

### Martial Arts

There are several types of martial arts that students can opt to learn and become members of the association at the campus. There are several styles of Malay martial arts taught at UPM. Silat, dates back several centuries, focusses on defence technique and spiritual development. Silat associations include:





- Association of Seni Silat Cekak Malaysia
- Association of Seni Silat Cekak Pusaka Ustaz Hanafi
- Association of Seni Silat Lincah UPM
- Association of Seni Silat Gayong

### Other Martial Arts Associations are:

- Association of Shito-Ryu Karate-Do
- Association of Tae Kwon Do
- Association of Aikido



### Clubs and Associations

Thanks to its multi-cultural mix, UPM has encouraged the formation of various clubs and societies to bring students together to interact and build friendship, all in the spirit of fun and enjoyment. Students can choose from a list of clubs that may be of interest to them.

- Pandu Puteri Club
- Association of QKP Student
- Association of Golden Key National Honour Malaysia UPM
- Perkasa Sarawak
- Perkasa Sabah
- Association of Hindus
- Association of Buddhists
- Association of Christians





## Association of Arts, Culture and Rakan Muda

UPM is home to a large percentage of foreign students. Combined with the various ethnic groups of Malaysia, UPM offers an opportunity for students to mix, learn and understand their common values without harping on their differences. Here students celebrate their cultures by participating in various activities such as dances, performing arts, music, literature, poetry, visits to interesting places and festivities through these clubs:

- Adimastuli Dance Club
- Penggiat Teater Sejagat (PENTAS)
- Caklempong Club
- Kompang Seni Warisan Club
- Kijang Emas (Dikir Barat) Club
- Nasyid Nahwan Nur Club
- Pantun and Puisi Club
- Choir Club
- Tarian Klasik India (Putra Kalshektra) Club
- Zhong Hua Art and Cultural Society

## Debate Clubs

Oratory and speech-based skills such as debate, are among the most preferred clubs among the students. These clubs emphasize on training, enhancing and preparing students to represent the University for debate, public speaking and other speech-based competitions at various levels. The following are the available debate clubs in UPM:



- Malay Debate Club (KDBM Putra)
- Serdang Royals Debate Club (SRDC)
- Mandarin Debate Club (KDM)
- Arabic Debate Club (KDA)

There are many more clubs and associations in UPM. Please refer to BHEP website for further information.

## FURTHER INFORMATION

### Student Affairs Division

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603-9769 6075

Email: [bhep@upm.edu.my](mailto:bhep@upm.edu.my)

Website: <https://hep.upm.edu.my>

# Academic Life







# RESEARCH IN UPM

Universiti Putra Malaysia enjoys the distinction of being one of the five research universities in Malaysia, a status that the university carries with honour and pride. While its forte is agriculture, understandably because of its proud history as a pioneering agriculture school established in 1931, UPM is today a multi-disciplinary institution of higher learning and an outstanding research hub, attracting researchers, scientists and scholars from all over the world.

Over the decades, UPM has cemented its reputation for research by achieving spectacular results through ground breaking research outcomes in various scientific fields, which have won it



numerous national and international awards. These achievements are the result of a culture of scientific and academic curiosity, motivated by a willingness to challenge the unknown and push beyond the bounds of known knowledge and wisdom. Most of all, it is a commitment to the creating of new frontiers in research. UPM today ranks among the top most prestigious universities in the region, testimony to the precious legacy of knowledge acquired over more than eight decades of its existence.

At UPM, students learn in a research-driven environment in which they are able to profit from close interaction with lecturers who are undertaking ground-breaking research projects. To make the research efforts more focussed, the University Management has set the research focus into clusters.

As a research-intensified university, UPM is well-equipped with full-fledged facilities, laboratories and multiple research centres to produce outcomes beneficial to the society and industries. This is made possible through research collaborations and synergistic partnerships with the industries. The university receives a grant of RM23,786,301 million in 2023 from the public

agencies, RM3,703,616.60 from the private agencies and RM7,886,792.63 from 33 projects financed by international agencies, which is used for multidisciplinary research besides creating the right environment for students to carry out quality research. This has yielded some exciting discoveries over the years.

This has yielded some exciting discoveries, most notably ZAPPA – rice seeds germination enhancer and VITA GROW, which promotes plentiful yield. These findings have generated about RM24 million in sales and boosted the production capacity of rice farmers in the country and region.



The **university receives a grant of RM23,786,301 million in 2023 from the public agencies, RM3,703,616.60 from the private agencies and RM7,886,792.63 from 33 projects financed by international agencies, which is used for multidisciplinary research besides creating the right environment for students to carry out quality research.** This has yielded some exciting discoveries over the years.





Other notable UPM developed commercialised products and technologies are:

- Newcastle Disease Vaccine
- Fowl Pox Vaccine
- MyVAC UPM 93 IBD
- MICRONES: System for Continuous Extraction of Pericarp Liquid and Method Thereof Technology & Kernel Nut and Mesocarp Separation System
- GANOCARE: A Composition for Ganoderma Disease in Plants
- Thohira: Economical Animal Feeds Powered by Synbiotics
- Dekoponix - Compact Hydroponic Rack System
- Danio Assay Kit: Bioassay for Detection of Xenobiotics
- Thymoquinone Rich Fraction as Cardioprotective and Neuroprotective Agents
- OryGold-Acylated Steryl Glycoside-rich Product for Disease Prevention and Health Enhancement
- Pepper Peel-O-Matic (White Pepper Decorticator)
- REMDII Ultra Moisturising Cream

- Fibre Mastic Asphalt (FMA)
- Star Kit: Story Telling Augment Reality Kit
- E.A.G.L.E: Excellent Accelerator Grounded Learning Environment Table STVac

The best commercialisation strategy with collaboration between UPM and the industry partners has successfully commercialised UPM's technologies and innovations. Strategically UPM InnoHub has proactively nurturing start-ups to train young unipreneur talents with the focus to deliver UPM's innovations to the marketplace.



# STUDENT MOBILITY PROGRAMMES

## Mobility Programmes (Inbound and Outbound)

**U**PM received an increasing number of mobility students coming in and out from the university over the years. Through mobility programmes, students can expand their international horizons and fulfil their global potential in student mobility programmes. i-**PUTRA**<sup>®</sup> is responsible for inbound and outbound which required planning, finding added value and monitoring mobility programs in supporting the university's goal in internationalisation. We continue to expand our mobility portfolio and to support student participation in it. UPM currently has 190 exchange partnerships across 40 countries and the number still growing.

## Types of Mobility Programmes

UPM offers various type of mobility in order to meet individual needs and requirements of many international students coming for academic and non-academic intentions. Ranging from one week programme to 12 months of duration.



## Semester Exchange (1-2 Semester)

In this program format, participating students immerse themselves in a complete semester of coursework alongside full-time students. Subsequently, they have the opportunity to transfer the earned course credits from UPM back to their home university. This involves the acknowledgement by the home university that the courses completed at UPM align with the equivalent academic standards of their university, underscoring the mutual recognition of educational rigor.

## Internship/ Industrial Training/ Research Attachment (2 weeks or more)

In some degree programmes, students are required to undertake some form of internship or industrial attachment. An overseas experience can give them an edge over other course mates. Students may come to UPM's many laboratories, administrative units or industrial partners to undertake their training under the supervision of the university authorities. In addition, both undergraduate and post-



graduate students may be interested to learn from and conduct joint studies with UPM's researchers. A research attachment can facilitate their learning process and enhances UPM collaborative efforts with the international research community.

### **Summer Programme (1 Week or more)**

UPM also offers short Summer Programmes on specific topics, such as forestry skills, traditional sports, tropical agriculture, as well as English Language and Malaysian culture. Some partner universities also request for tailor-made short courses for their students to provide a variety of different experiences while in UPM.

### **Visits or Short Programme (1-2 Weeks)**

Regional universities often request for shorter visits when bringing a group of students to Malaysia. The visit the university forms part a longer programme which may incorporate socio-cultural and historical themes. The intention is usually to provide awareness and exposure to the students of the Malaysian academic environment.

### **Putra® Experience Summer School**

First introduced in 2016, the **PUTRA®** Experience Summer Programme is a mobility programme designed by each faculty, school, and language centre in UPM. Offering a well-structured and diverse learning experience for its

participants with 17 modules ranging from agriculture, science, technology, and socials.

Each programme comprises a minimum of seven days to 30 days and depending on the module with fees ranging from USD 500 to USD 3,600 per participant. The fee is inclusive of accommodation, meals, transportation (during the programme), learning materials and excursion activities.

- Tropical Forest Trail: Witness the Heritage for Today and Tomorrow
- PUTRA Agricultural Summer School
- Fun with Nature: Nature Appreciation
- Bio-Trek: The Life Science Experience
- PutraBioXplore: Discovering Nature A Journey of 700 miles in 7 Days (by Faculty of Science)
- VET Summer Programme
- Kuala Lumpur Summer Business Programme@UPM
- ExploreENG Summer Programme: True Engineer Thru Exploration
- PUTRA® Architecture Summer School 2.0 (Cultural and Architectural Exploration)
- PUTRA® Architecture Summer School 5.0 (Exploring the Splendour of Tropical Architecture)
- The CSiT@CSiT\_TEX
- Summer Crash Course Programme: Environmental and Occupational Health Professionals



- International Summer School (ISS): An Interactive Multicultural Journey Through Biodiversity
- Malaysian Food Heritage
- Embracing Malaysia Cultural Diversity and Heritage
- Traditional Malay Sports, Nature and Culture
- MyPLACE (Malaysia: PUTRA® Language and Cultural Engagement)
- ESCAPADE (An Interactive Multicultural)
- Journey through PUTRA® Languages)
- Malay Language and Culture Exploration

## Semester in UPM

UPM practices the semester system with two for the academic session. Every semester consists of 14 weeks of study and students will be evaluated via on-going evaluation inclusive of the final examination.

Semester 1		Semester 2	
Lecture	6 weeks	Lecture	7 weeks
Mid-Semester Break	1 week	Mid-Semester Break	1 week
Lecture	8 weeks	Lecture	7 weeks
Revision week	1 week	Revision Week	1 week
Final Exam	2 weeks	Final Exam	2 weeks
Semester Break	5 weeks	Semester Break	10 weeks

## How to Apply for Inbound

Students may begin their application by fill in Inbound Application form that can be downloaded from [www.intl.upm.edu.my](http://www.intl.upm.edu.my). Few documents are needed upon application as per below:

- Recommendation from home university
- Certified copies of academic transcripts (subjects/ courses that have been completed);
- For the non-English speaking country, the student needs to provide English language certificate or a letter from lecturer about student level of English.
- Scanned copy of student passport.





### Closing Dates for Applicants

UPM academic year is divided into two semesters. Students usually commence studies in either semester 1 (September) or in semester 2 (February). The student may begin applying three months prior to the semester begins. The deadline for submission is as follows:

Semester 1 (September intake)

30<sup>th</sup> April

Semester 2 (February intake)

30<sup>th</sup> September

### How to Apply for an Outbound

Students may begin their application by fill in the Outbound Application form that can be downloaded from [www.intl.upm.edu.my](http://www.intl.upm.edu.my). Few documents are needed upon application as per below:

a. Application for study abroad form and endorsed by the faculty/college/institute

- b. Cover letter or supporting letter from faculty/college/institute
- c. Original copy of the endorsed proposal (compulsory for group application)
- d. Passport copy of ic/passport
- e. Copy of Academic transcript
- f. Copy of offer letter/approval from Host University.

All students are required to inform Putra International Centre officially before going for an outbound programme at least 60 working days before departure.



### FURTHER INFORMATION

#### PUTRA International Centre (i-PUTRA®)

Universiti Putra Malaysia

43400 UPM Serdang

Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7972

Email: [intl@upm.edu.my](mailto:intl@upm.edu.my)

Website: <https://intl.upm.edu.my>

## Undergraduate Programmes

UPM has 15 faculties, two schools and a centre offering a wide range of academic programmes at undergraduate level to meet the students' needs. The self-accreditation status awarded to UPM reflects its high quality eco-system which is crucial for effective learning transfer, and high quality academic programmes in line with its status as one of the leading research universities in the country.

Admission Division and Academic Governance Division, previously known as the Academic Division, provides support services to academic matters such as the Senate management, curriculum management, student admission, course registration, lecture and final examination scheduling, preparation of final examination venue and final examination results, electronic student management system, and graduation and convocation ceremonies.

UPM uses a semester system, with two semesters for every academic session. Each semester consists of 14 weeks of studies and students will be evaluated via continuous assessment inclusive of final examination.

### Semester 1 (September)

Lecture	7 weeks
Mid-Sem Break	1 week
Lecture	7 weeks
Revision Week	1 week
Final Exam	2 weeks
Semester Break	5 weeks



### Semester 2 (February)

Lecture	7 weeks
Mid-Sem break	1 week
Lecture	7 weeks
Revision Week	1 week
Final Exam	2 weeks
Semester Break	10 weeks

### Duration of Studies

Bachelor	5 years
Doctor of Medicine	
Doctor of Veterinary Medicine	
Bachelor	3½ – 4 years
Diploma	2 – 3½ years
Foundation	1 year

In accordance with the Malaysian Qualification Framework, the minimum credit requirements for graduation is 120 credits for a bachelor programme and 90 credits for a diploma programme. However, the actual minimum credit requirements for a programme varies from one to another depending on the standard programme either set by the Malaysian Qualification Agency or related professional bodies.



## Classification of Degree

All degrees at the bachelor level conferred by the Senate are classified as follows, except for the Doctor of Medicine and Doctor of Veterinary Medicine:

### Cumulative Grade Point Average Classification (CGPA)

3.750 – 4.000	First Class Honours
3.000 – 3.749	Second Class Upper Honours
2.250 – 2.999	Second Class Lower Honours
2.000 – 2.249	Third Class Honours

## Entry Requirements

### Bachelor Programme

#### Local Candidate – General Requirement:

STPM OR Equivalent Qualification

A candidate must have obtained –

- A Malaysian Certificate of Education (SPM) with minimum Grade C in Bahasa Malaysia / Bahasa Melayu or its equivalent, and a Pass in History (for SPM 2013 and onwards)
- A Malaysian Higher School Certificate (STPM) with at least CGPA 2.00 and minimum Grade C in three subjects including General Studies
- A Band 1 in the Malaysian University English Test (MUET). However, the minimum level obtained in MUET may vary from one programme to another; or



A candidate who has obtained a Matriculation or Foundation or Diploma recognised by the UPM Senate; and the candidate must have fulfilled special requirements for the programme i.e. attained the required grades in SCIENCES / ARTS as specified for each UPM bachelor programme. Some programmes may also impose additional requirements such as interview, audition, drawing, fitness test or other aptitude test. For more details please visit [www.esmp.upm.edu.my/promosi](http://www.esmp.upm.edu.my/promosi).

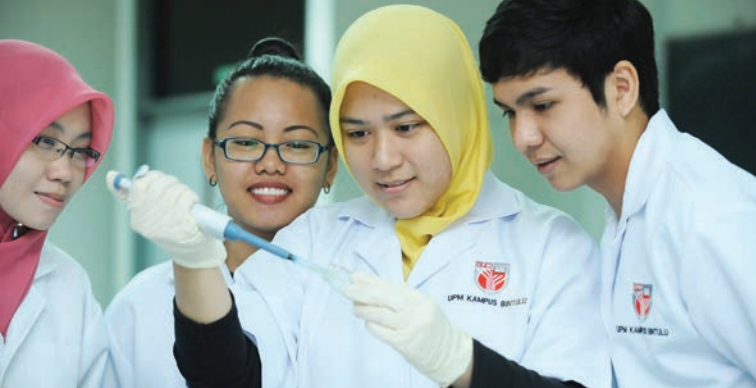
#### International Candidates' Requirements:

Entry requirement for international candidates can be accessed at Division Of Admission and Division of Academic Governance website [https://akademik.upm.edu.my/international\\_student\\_admission-3955](https://akademik.upm.edu.my/international_student_admission-3955)

### Diploma Programme

A local candidate must have obtained a Malaysian Certificate of Education (SPM) or its equivalent with minimum five credits including Bahasa Malaysia / Bahasa Melayu, Mathematics and Science. A Pass in History at SPM level is also compulsory.

Details of entry requirements can be accessed at [www.esmp.upm.edu.my/promosi](http://www.esmp.upm.edu.my/promosi).



## List of Faculties

- Faculty of Agriculture
- Faculty of Forestry and Environment
- Faculty of Veterinary Medicine
- Faculty of Engineering
- Faculty of Educational Studies
- Faculty of Science
- Faculty of Food Science and Technology
- Faculty of Human Ecology
- Faculty of Modern Languages and Communication
- Faculty of Design and Architecture
- Faculty of Medicine and Health Science
- Faculty of Computer Science and Information Technology
- Faculty of Biotechnology and Biomolecular Sciences
- Faculty of Agriculture and Food Sciences @ Bintulu Campus
- Faculty of Agricultural Science and Forestry (UPMKB, Sarawak)
- Faculty of Humanities, Management and Science (UPMKB, Sarawak)
- School of Business and Economics
- Centre of Foundation Studies for Agricultural Science

## Programmes of Study

### 1. Faculty of Agriculture

- Bachelor of Agricultural Science with Honours (4 years)
- Bachelor of Horticultural Science with Honours (4 years)
- Bachelor of Science in Agribusiness with Honours (4 years)
- Bachelor of Agriculture in Aquaculture with Honours (4 years)
- Bachelor of Agriculture in Animal Science with Honours (4 years)
- Bachelor of Science Plantation Management with Honours (4 year)

### 2. Faculty of Forestry and Environment

- Bachelor of Forestry Science with Honours (4 years)
- Bachelor of Wood Science and Technology with Honours (4 years)
- Bachelor of Parks and Recreation Science with Honours (4 years)
- Bachelor of Environmental Sciences and Technology with Honours (4 years)
- Bachelor of Environmental Management with Honours (4 years)



### 3. Faculty of Veterinary Medicine

- Doctor of Veterinary Medicine (5 years)

### 4. Faculty of Engineering

- Bachelor of Civil Engineering with Honours (4 years)
- Bachelor of Electrical and Electronic Engineering with Honours (4 years)
- Bachelor of Chemical Engineering with Honours (4 years)
- Bachelor of Agricultural and Biosystems Engineering with Honours (4 years)
- Bachelor of Mechanical Engineering with Honours (4 years)
- Bachelor of Aerospace Engineering with Honours (4 years)
- Bachelor of Process and Food Engineering with Honours (4 years)
- Bachelor of Computer and Communication Systems Engineering with Honours (4 years)

### 5. Faculty of Educational Studies

- Bachelor of Science in Human Resource Development with Honours (4 years)
- Bachelor of Education Physical Education with Honours (4 years)
- Bachelor of Education in Guidance and Counselling with Honours (4 years)
- Bachelor of Education in Malay Language with Honours (4 years)

- Bachelor of Education in Teaching English as a Second Language (TESL) with Honours (4 years)
- Bachelor of Education in Home Science with Honours (4 years)
- Bachelor of Education in Agricultural Science with Honours (4 years)
- Bachelor of Counselling with Honours (4 years)

### 6. Faculty of Science

- Bachelor of Science in Biology with Honours (4 years)
- Bachelor of Science in Mathematics Honours (4 years)
- Bachelor of Science in Statistics with Honours (4 years)
- Bachelor of Science in Physics with Honours (4 years)
- Bachelor of Science in Chemistry with Honours (4 years)
- Bachelor of Science in Industrial Chemistry with Honours (4 years)
- Bachelor of Science in Petroleum Chemistry with Honours (4 years)
- Bachelor of Science with Honours in Materials Science (4 years)
- Bachelor of Science with Honours in Instrumentation Science (4 years)
- Bachelor of Science in Biology with Education (Honours) (4 years)
- Bachelor of Science in Physics with Education (Honours) (4 years)
- Bachelor of Science in Chemistry with Education (Honours) (4 years)

- Bachelor of Science in Mathematics with Education (Honours) (4 years)
- Bachelor of Science in Statistics with Education (Honours) (4 years)

## **7. Faculty of Food Science and Technology**

- Bachelor of Food Science and Technology with Honours (4 years)
- Bachelor Science in Food Studies with Honours (4 years)
- Bachelor Science in Food Service Management with Honours (4 years)

## **8. Faculty of Human Ecology**

- Bachelor of Music with Honours (4 years)
- Bachelor of Human Development Science with Honours (4 years)
- Bachelor of Consumer Studies with Honours (4 years)
- Bachelor of Human Development Science with Information Technology (Honours) (4 years)
- Bachelor of Human Development Science with Management (Honours) (4 years)

## **9. Faculty of Modern Languages and Communication**

- Bachelor of Communication with Honours (3 ½ years)
- Bachelor of Arts in Malay Language and Linguistics with Honours (3 ½ years)
- Bachelor of Arts in Malay Literature with Honours (3 ½ years)

- Bachelor of Arts in English Language with Honours (3 ½ years)
- Bachelor of Arts in English Literature with Honours (3 ½ years)
- Bachelor of Arts in Chinese Language Studies with Honours (3 ½ years)
- Bachelor of Arts in Arabic Language with Honours (3 ½ years)
- Bachelor of Arts in French Language Studies with Honours (3 ½ years)
- Bachelor of Arts in German Language Studies with Honours (3 ½ years)

## **10. Faculty of Design and Architecture**

- Bachelor of Landscape Architecture with Honours (4 years)
- Bachelor of Science in Architecture with Honours (3 ½ years)
- Bachelor of Design (Industrial Design) with Honours (4 years)

## **11. Faculty of Medicine and Health Science**

- Doctor of Medicine (5 years)
- Bachelor of Biomedical Sciences with Honours (4 years)
- Bachelor of Science in Dietetics with Honours (4 years)
- Bachelor of Science in Nutrition and Community Health with Honours (4 years)
- Bachelor of Science in Environmental and Occupational Health with Honours (4 years)
- Bachelor of Nursing with Honours (4 years)



## **12. Faculty of Computer Science and Information Technology**

- Bachelor of Computer Science (Computer System) with Honours (4 years)
- Bachelor of Computer Science (Multimedia) with Honours (4 years)
- Bachelor of Computer Science (Computer Network) with Honours (4 years)
- Bachelor of Software Engineering with Honours (4 years)

## **13. Faculty of Biotechnology and Biomolecular Science**

- Bachelor of Science in Biochemistry with Honours (4 years)
- Bachelor of Science in Microbiology with Honours (4 years)
- Bachelor of Science in Biotechnology with Honours (4 years)
- Bachelor of Science in Cell and Molecular Biology with Honours (4 years)
- Faculty of Agricultural Science and Forestry (UPMKB, Sarawak)
- Bachelor of Bioindustrial Science with Honours (4 years)
- Bachelor of Agriculture in Aquaculture with Honours (4 years)
- Bachelor of Forestry Science with Honours (4 years)
- Diploma in Animal Health and Husbandry (3 years)
- Diploma of Food Estate Management (2 years)

- Diploma in Agriculture (2 years)
- Diploma in Fisheries (2 years)
- Diploma in Forestry (2 years)

## **14. Faculty of Agricultural Science and Forestry (UPMKB)**

- Bachelor of Bioindustry Science with Honours
- Bachelor of Forestry Science with Honours
- Bachelor of Science in Aquaculture with Honours
- Bachelor of Human Development Science with Management Honours
- Bachelor of Science Honours in Industrial Chemistry
- Diploma in Agriculture
- Diploma in Forestry
- Diploma in Fisheries
- Diploma in Food Estate Management
- Diploma in Animal Health and Husbandry
- Diploma in Agribusiness
- Diploma in Agricultural Engineering Technology
- Diploma in Computer Science
- Diploma in Human Development
- Diploma in Business Management
- Diploma Preparatory Science Programme
- Program Asas Diploma

## 15. Faculty of Humanities, Management and Science (UPMKB, Sarawak)

- Bachelor of Human Development Science with Management (Honours) (4 years)
- Bachelor of Science in Industrial Chemistry with Honours (4 years)
- Diploma in Agribusiness (3 years)
- Diploma in Agricultural Engineering (3 years)
- Diploma in Computer Science (2 ½ years)
- Diploma Preparatory Science Programme (1 year)

## 16. School of Business and Economics

- Bachelor of Accounting (Honours) (4 years)
- Bachelor of Economics with Honours (4 years)
- Bachelor of Business Administration with Honours (4 years)

## Centre of Foundation Studies for Agricultural Science

Foundation Studies for Agricultural Science (1 year)

A local candidate must have obtained a Malaysian Certificate of Education (SPM) with;

- Minimum Grade C in Bahasa Malaysia / Bahasa Melayu
  - A Pass in History
  - Minimum Grade B in any five subjects as follows:
    - Biology
    - Chemistry Mathematics
    - Additional Mathematics Physics
    - Agricultural Science
- AND
- Minimum Grade C+ in English Language

International candidates who have obtained an O-Level or its equivalent with at least a grade B in Biology, Chemistry, Mathematics, Additional Mathematics and Physics or its equivalent.

## CONTACT US

### Division of Admission & Division of Academic Governance

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 6060

Email: [akd@upm.edu.my](mailto:akd@upm.edu.my)

Website: <http://www.akademik.upm.edu.my>



## Application Deadline

Applications for admission from local applicants must be made online through the Student Admission Management Division, Department of Higher Education, Ministry of Higher Education, Malaysia.

Applications for admission from international applicants must be submitted online via [www.smp.upm.edu.my/admissionUG](http://www.smp.upm.edu.my/admissionUG) and the complete supporting documents must reach the Admission Division, Universiti Putra Malaysia latest by 30<sup>th</sup> June for the September intake or 30<sup>th</sup> November for the February intake. However, only selected programmes are offered for the February intake and the details can be accessed at [www.akademik.upm.edu.my](http://www.akademik.upm.edu.my).

## Postgraduate Programmes

Universiti Putra Malaysia is one of Malaysia's premier universities with a long-established reputation in teaching and research. As one of the nation's five leading research universities (RU), UPM is highly committed to the discovery of knowledge and offers rewarding learning experiences.

UPM's postgraduate degree programmes are managed by the School of Graduate Studies (SGS). Over the years, SGS has become one of the best graduate schools. There are various postgraduate programmes offered by UPM's faculties and institutes. The modes of degree programmes available are by research and coursework.

## Programme Structure

### Programmes by Research

- Master of Arts (M.A)
- Master of Science (M.S)
- Master of Veterinary Science (M.V.Sc.)
- Doctor of Philosophy (PhD)

### Programmes by Coursework

- Available only for Masters Degree and;
- Doctor of Public Health with a minimum of 40 course credits.

### Programmes with Industry

- Doctor of Engineering (Deng)
- PhD by Industry
- Master by Industry

### International Collaborative Programmes (ICP)

- Joint Degree
- Dual Degree
- Double Degree
- Cotutelle Degree
- Master in Land Resource Management

### Programmes by Research

Masters and PhD degree programmes by research are by default without coursework. However, students may need to take courses such as Research Methodology as required by the Ministry



of Education and additional courses as stipulated by the faculty/school/institute.

Students pursuing programmes by research shall:

- Submit a thesis for examination at the end of the programme; and
- Comply with any other specific requirement of the relevant graduate programme, as specified by the faculty/school/institute.

### Programmes by Coursework

Students pursuing the master's degree programmes by coursework shall fulfill a minimum of 40 course credits. Submission of a thesis is not a requirement, but students are required to submit a project report or case study equivalent to 6-10 credits.

### Programme by Industry

A programme that offers an alternative route for industry practitioners who wish to pursue a master's or doctoral degree without leaving their workplace. This programme is developed to encourage knowledge sharing among industry practitioners and academicians in producing highly knowledgeable professionals. This programme aims at inspiring innovation and enhancing competitiveness within the industry via industry-based research through collaboration with UPM.

A programme that offers an alternative route for industry practitioners who wish to pursue a master's or doctoral degree without leaving their workplace.

**This programme is developed to encourage knowledge sharing among industry practitioners and academicians in producing highly knowledgeable professionals.**

### International Collaborative Programmes (ICP)

A programme jointly developed by UPM with other international universities. The main objective is to promote and strengthen bilateral collaboration between UPM and its partners particularly in the areas of research and supervision. The programme provides an opportunity for students to study abroad and simultaneously obtain a degree from UPM and the partner university.

## Master's Degree Programmes by Coursework

Students pursuing the master's degree programmes by coursework shall fulfill a minimum of 40 credits of courses. Submission of a thesis is not a requirement, but students are required to submit a project report or case study equivalent to 6 – 10 credits.

### Admission Requirement

#### Masters Degree by Research

The applicant shall possess:

- a. A bachelor's degree in the field or related fields with a minimum CGPA of 2.750 or equivalent, as accepted by the UPM Senate; or
- b. A bachelor's degree in the field or related fields with range CGPA of 2.500 to CGPA 2.749 can be accepted subject to rigorous internal assessment by Faculty/School/Institute; or
- c. A bachelor's degree in the field or related fields or equivalent with a range of CGPA 2.000 to CGPA 2.499, can be accepted subject to:
  - i. a minimum of 5 years working experience in the relevant field, and
  - ii. rigorous internal assessment by Faculty/School/Institute.
- d. Candidates without a related qualification in the field/s or

working experience in the relevant fields must undergo appropriate prerequisite courses determined by the Faculty/School/Institute and meet the minimum CGPA; or

- e. An applicant who is in the final semester of his bachelor study programme may be considered for provisional admission subject to his current CGPA or its equivalent satisfies the master's degree programme admission requirements; and
- f. Fulfil other requirements specified by the Faculty/School/Institute for each programme.

#### Master's Degree by Coursework

The applicant shall possess:

- a. A bachelor's degree in the field or related fields with a minimum CGPA of 2.750 or equivalent, as accepted by the UPM Senate; or
- b. A bachelor's degree in the field or related fields or equivalent with range CGPA of 2.000 to CGPA 2.749 can be accepted subject to rigorous internal assessment by Faculty/School/Institute; or
- c. Candidates without a related qualification in the field/s or working experience in the relevant fields must

undergo appropriate prerequisite courses determined by the Faculty/School/Institute and meet the minimum CGPA; or

- d. An applicant who is in the final semester of his bachelor study programme may be considered for provisional admission subject to his current CGPA or its equivalent satisfies the master's degree programme admission requirements; and
- e. Fulfil other requirements specified by the Faculty/School/Institute for each programme.

### Doctoral Degree Programme

The applicant shall possess:

- a. A master's degree in the field or related fields accepted by the UPM Senate; or
- b. Other qualifications equivalent to a master's degree recognised by the Government of Malaysia; or
- c. Candidates without a related qualification in the field/s or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the Faculty/School/Institute; or
- d. A bachelor's degree with the following conditions:
  - i. A Bachelor's degree in the field or related fields with first-class or its equivalent.

- ii. Undergo internal assessment by Faculty/School/Institute.; AND
- iii. Any other requirement of the Faculty/School/Institute

**Note: For the applicant admitted from a Bachelor's degree to PhD, the applicant shall not be awarded a Master Degree if the applicant fails his viva voce.**

An applicant who is in the final semester of his master study programme may be considered for provisional admission subject to his current CGPA or its equivalent satisfies the Doctoral Degree programme admission requirements.

Fulfil other requirements specified by the Faculty/School/Institute for each programme.

Language Requirement

- a. A local applicant must have obtained at least a credit in English at the "Sijil Pelajaran Malaysia" level or equivalent or have passed English courses at the diploma/ bachelor level.
- b. For full admission, an international applicant must have obtained a minimum score of:
  - Band 6.0 for IELTS (Academic Version); or
  - 65 for the TOEFL Internet-based Test; or
  - Band 4.0 (Score 211 – 257) for MUET; or



- 59 for PTE Academic; or
- Level 109 for CIEP; or
- 169 for Cambridge Linguaskill; or
- B2 of CEFR; or
- Its equivalent.

Note:

- The validity period should not be more than five years.
- Cambridge Linguaskill under CALC only
- IELTS Indicator, APTIS and TOEFL ITP are not acceptable to meet the English Language requirements.

An international applicant applying for full admission into Malay Language Studies, Arabic or Chinese Literature programme or any other programme that allows a thesis to be written in the language of instruction, must have obtained a minimum score of: -

- 5.0 for IELTS (Academic Version); or
- 52 – 60 for the TOEFL Internet-based Test; or
- Band 3 (Score 123 – 163) for MUET; or
- 47 – 50 for PTE Academic; or
- Level 105 and 106 for CIEP; or
- 154 – 161 for Cambridge Linguaskill; or
- B1 High of CEFR; or
- Its equivalent.

An international applicant who obtains a score of: -

- 5.5 for IELTS (Academic Version); or
- 51 – 64 for the TOEFL Internet-based; or

- Band 3.5 (Score 164 – 210) for MUET; or
- 51 – 58 for PTE Academic; or
- Level 107 dan 108 for CIEP; or
- 162 – 168 for Cambridge Linguaskill; or
- B2 Low of CEFR; or
- its equivalent, may be given a provisional admission to any degree programme.

An international applicant who has obtained a degree from any public/private institute of higher learning in Malaysia, which is recognized by MQA, and the programme is fully conducted in English, shall not be subject to the English Language proficiency requirement.

An international applicant for a Master's Degree programme from a non-native English-speaking country who has undergone his Bachelor's degree at an institution of higher learning in a native English-speaking country as listed in Rule 14 (ix) shall be exempted.

An international applicant for the PhD degree programme from non-English speaking country who has undergone Master's degree at an Institute of higher learning in a native English-speaking country as listed in Rule 14 (ix) shall be exempted.

An international applicant who is given a provisional admission based on his academic standing without proof

of his English language proficiency at the time of application must provide evidence of having met Rule 14 (iv) at the time of registration

An applicant from any of the following native English-speaking countries and Commonwealth countries, shall be exempted from to the English Language proficiency requirement:

### **Native English-Speaking countries**

- Anguilla
- Bermuda
- The British Virgin Islands
- Cayman Islands
- Gibraltar
- Ireland
- Liberia
- Maldives
- Montserrat
- Philippine
- Puerto Rico
- St. Kitts and Nevis
- Seychelles
- Sudan
- Turks and Caicos
- United States of America

### **Commonwealth Countries**

- Antigua and Barbuda
- Australia
- Bangladesh
- Barbados
- Belize
- Botswana
- Brunei Darussalam
- Cameroon
- Canada
- Dominica
- Fiji
- The Gambia
- Ghana
- Grenada
- Grenadines
- Guyana
- India
- Jamaica
- Kenya
- Kiribati
- Lesotho
- Malawi
- Malaysia
- Malta
- Mauritius
- Mozambique
- Namibia
- Nauru
- New Zealand
- Nigeria
- Pakistan
- Papua New Guinea
- Republic of Cyprus
- Rwanda
- Samoa
- Seychelles
- Sierra Leone
- Singapore
- Solomon Islands
- South Africa
- Sri Lanka
- St Christopher and Nevis
- St Lucia
- St Vincent and the Grenadines
- Swaziland
- The Bahamas
- Tonga
- Trinidad and Tobago
- Tuvalu
- Uganda
- United Kingdom
- United Republic of Tanzania
- Vanuatu
- Zambia
- Zimbabwe

## Fields of Study

### Programmes by Research

There are currently, 295 fields of study available for masters and PhD programmes by research. The following are the active fields with designated lecturers:

#### Social Science Cluster

- Accounting
- Agribusiness
- Agricultural Economics
- Agricultural Extension
- Agricultural Policy
- Applied Comparative Linguistics
- Arabic Language
- Architectural Studies
- Business Economics
- Business Law
- Chinese Literature
- Communication Technology
- Community Development
- Community Education and Development
- Consumer Science
- Corporate Communication
- Corporate Leadership
- Curriculum and Instruction
- Development Communication
- Developmental Psychology
- Discourse Studies
- Economics
- Education in Malay Language
- Educational Administration
- Educational Psychology
- Educational Technology
- English Language
- English Literature
- Environmental Economics, Planning and Management
- Environmental Education and Ethics
- Environmental Policy and Governance
- Extension Education
- Family Ecology
- Family Economics and Management
- Finance
- Food Management
- Food Service Management
- Gender and Development
- Guidance and Counseling
- Halal Products Management
- Health Education and Communication
- Health Promotion
- Health Service Management
- Hospitality
- Housing
- Human Communication
- Human Development
- Human Resource Development
- Human Resource Management



- Journalism
- Land Resource Management
- Landscape Studies
- Leadership Studies
- Literacy Studies
- Literary and Cultural Studies
- Malay Language
- Malay Literature
- Management
- Marketing
- Mass Communication
- Moral Education
- Music
- Natural Resource Policy
- Occupational Safety and Health Management System
- Organizational Communication
- Philosophy and Civilization Studies
- Physical Education
- Politics and Government
- Organizational Communication
- Psychology of Child Development
- Rural Advancement
- Shariah and Halal Laws
- Social Psychology
- Sociology of Education
- Sports Science
- Teaching of English as a Second Language
- Teaching of Malay as a First Language

- Teaching of Malay Literature
- Technical and Vocational Education
- Tourism
- Translation and Interpretation
- Urban Planning and Design
- Youth Studies

### Science and Technology Cluster

- Advanced Materials
- Aerospace Engineering
- Aerospace System Design Engineering
- Agriculture Genomics
- Agricultural Mechanisation and Automation
- Agricultural Process Engineering
- Agricultural Technology
- Agricultural Waste Engineering
- Agronomy
- Analytical and Structural Mathematics
- Analytical Chemistry
- Anatomy and Histology
- Animal Behavior and Welfare
- Animal Biotechnology
- Animal Nutrition
- Animal Physiology
- Animal Production
- Animal Sciences
- Animal Welfare
- Applied and Computational Statistics

- Applied Mathematics
- Applied Physics
- Aquaculture
- Aquaculture Biotechnology
- Aquaculture Engineering
- Aqua informatics
- Aquatic Animal Health
- Aquatic Biotechnology
- Automotive Engineering
- Avian Medicine
- Bacteriology
- Biochemical Engineering
- Biochemistry
- Biocomposite Technology and Design
- Biodiversity and Conservation of Natural Resources
- Bioinformatics and System Biology
- Biomedical Engineering
- Biopolymer, Pulp and Paper Technology
- Bioresource and Technology
- Bioresource Management
- Biotechnology with Bio-entrepreneurship
- Biotherapeutics
- Cancer Biology and Oncology
- Catalysis
- Cell Biotechnology
- Chemical Engineering
- Chemical Pathology
- Clinical Nutrition
- Clinical Pathology
- Clinical Psychology
- Community Nutrition
- Computable Structures and Scientific Computing
- Computational Electromagnetics
- Computational Mathematics
- Computational Methods in Engineering
- Computational Operations Research
- Computer and Embedded Systems Engineering
- Computer Graphics
- Computer Networks
- Computer Vision
- Control System Engineering
- Data Science
- Database Systems
- Computational Electromagnetics
- Ecology
- Electrical Power Engineering
- Electronic Engineering
- Energy
- Engineering and Renewable
- Entomology
- Environmental Biotechnology
- Environmental Engineering
- Environmental Health
- Environmental Hydrology and Hydrogeology

- Environmental Pollution Control Technology
- Environmental Quality and Conservation
- Environmental System and Modelling
- Enzyme Biotechnology
- Epidemiology And Biostatistics
- Epidemiology and Public Health
- Equine Medicine
- Ethnomathematics
- Farm Structures
- Financial Mathematics
- Fisheries Science
- Fluid Dynamics
- Food Biotechnology
- Food Engineering
- Food Safety
- Food Science
- Food Security and Climate Change
- Food Technology
- Forensic Science
- Forest Management and Ecosystem Sciences
- Forestry
- Microbiology
- Molecular Biology and Genetic Engineering
- Molecular Biotechnology
- Molecular Imaging
- Molecular Medicine
- Multimedia Computing
- Nanobiotechnology
- Nanomedicine
- Nanoscience
- Nanotechnology
- Neuroscience
- Numerical Analysis
- Nursing
- Nutrition
- Nutritional Sciences
- Occupational Safety and Health
- Organic Chemistry
- Packaging Engineering
- Parallel and Distributed Computing
- Parasitology
- Pathology
- Pest Management
- Genetics
- Genetics and Breeding
- Geographic Information System
- Geospatial Engineering
- Geotechnical and Geological Engineering
- Gerontechnology
- Green Engineering
- Haematology
- Halal Products Development
- Halal Products Science
- Health and Rehabilitation
- Highway and Transportation Engineering
- Horticulture



- Human Anatomy
- Human Computer Interaction
- Human Factors and Ergonomics
- Human Genetics
- Human Physiology
- Immunobiology
- Immunopharmacology
- Industrial Biotechnology
- Industrial Design
- Industrial Engineering
- Industrial Hygiene
- Information Retrieval
- Information Systems
- Inorganic Chemistry
- Instructional Technology and Innovation
- Integrated Design Studies
- Intelligent Systems
- Laboratory Animal Medicine
- Manufacturing Systems Engineering
- Mariculture
- Marine and Freshwater Ecosystem
- Marine Biology
- Marine Ecology and Biodiversity
- Materials Engineering
- Materials Science
- Mathematics Education
- Mathematical Cryptography
- Mathematical Physics and Engineering
- Mechanical Engineering
- Medical Biotechnology
- Medical Gerontology
- Medical Microbiology
- Medical Parasitology
- Medical Physics
- Medical Sciences
- Medicinal Chemistry
- Metabolomics
- Microbial Biotechnology
- Pharmacology
- Photonics Engineering
- Physical Chemistry
- Physics
- Phytochemistry
- Plant Biotechnology
- Plant Pathology
- Plant Physiology
- Plant Science
- Plantation Technology
- Post-Harvest Technology
- Project Management
- Process Safety and Reliability
- Psychological Medicine/Psychiatry
- Public Health
- Pure Mathematics
- Radiology and Imaging
- Remote Sensing
- Robotic and Automation Engineering
- Ruminant Medicine
- Safety, Health and Emergency Management

- Security In Computing
- Sensor Technology
- Signal Processing
- Small Animal Medicine
- Social Gerontology
- Software Engineering
- Soil and Water Engineering
- Soil Science
- Statistics
- Stem Cell
- Structural Biology
- Structural Engineering
- Surgery
- Sustainable Plantation Management
- Sustainable Recreation and Ecotourism
- Swine Medicine
- Theoretical and Computational Chemistry
- Theoretical and Computational Physics
- Theriogenology and Cytogenetics
- Toxicology
- Tropical Rainforest Ecosystem Services
- Vaccine and Therapeutics
- Virology
- Water Resources Engineering
- Wildlife and Exotic Animal Health
- Wildlife Ecology and Management
- Wireless Communications and Networks Engineering

## Programmes by Coursework

Following is the list of available programmes by coursework, according to the respective faculty/institute/school:

### Faculty of Agriculture

- Master of Land Resources Management
- Master of Plantation Management
- Master in Tropical Soil Science

### Faculty of Computer Science and Information Technology

- Master of Computer Science
- Master of Information Security
- Master of Computer Network
- Master of Software Engineering

### Faculty of Design and Architecture

- Master of Landscape Architecture
- Master of Architecture
- Master in Industrial Design Innovation
- Master of Sustainable Landscape Management
- Master of Tropical Urban Design

### Faculty of Educational Studies

- Master of Education in Guidance and Counselling
- Master of Education in Educational Administration
- Master of Education in Educational Psychology
- Master of Education in Guidance and Counselling

- Master of Education in Instructional Technology and Innovation
- Master of Education in Physical Education
- Master of Education in Sport Science
- Master of Education in Teaching of English as a Second Language
- Master of Education in Malay Language
- Master of Education in Technical and Vocational Education
- Master of Human Resource Development

### Faculty of Engineering

- Master of Communication Engineering
- Master of Emergency Response and Planning
- Master of Engineering Management
- Master of Electrical Power Engineering
- Master of Innovation and Engineering Design
- Master of Manufacturing Systems Engineering
- Master in Process Safety and Loss Prevention
- Master of Remote Sensing and GIS
- Master of Structural Engineering and Constructions
- Master of Highway and Transportation Engineering
- Master of Water Engineering

- Master of Water Management
- Master in Microelectronic System Engineering
- Master in Aerospace System Design Engineering
- Master in Food Process and Packaging Engineering

### Faculty of Forestry and Environment

Master of Environment

### Faculty of Food Science and Technology

- Master of Food Technology
- Master of Food Safety and Quality Assurance
- Master in Functional Food Design

### Faculty of Medicine and Health Sciences

- Doctor of Public Health
- Master of Environmental and Occupational Health
- Master of Medicine (Anesthesiology)
- Master of Medicine (Family Medicine)
- Master of Medicine (Internal Medicine)
- Master of Medicine (Pediatrics)
- Master of Medicine (Psychiatry)
- Master of Medicine (Radiology)
- Master in Nutritional Sciences
- Master of Pathology
- Master of Public Health
- Master of Surgery (General Surgery)
- Master of Surgery (Orthopedics)



## Faculty of Modern Languages and Communication

- Master of Applied Linguistics
- Master of Corporate Communication
- Master of Malay Language
- Master of Malay Literature
- Master of World Literature

## Faculty of Science

- Master of Analytical Chemistry
- Master of Applied Statistics
- Master of Tropical Biology
- Master of Materials Physics
- Master of Mathematical Sciences

## Faculty of Veterinary Medicine

- Master of Veterinary Medicine

## School of Business and Economics

- Master of Economics
- Master of Entrepreneurship
- Master of Finance
- Master of Business Administration

## Faculty of Biotechnology and Biomolecular Sciences

- Master of Science in Biotechnology with Bioentrepreneurship

UPM is also assisted by several institutes in terms of empowering the postgraduate component of the university. The following is the list of institutes that offers field-specific postgraduate programmes:

- Institute of Bioscience
- Institute of Plantation Studies
- Institute of Agricultural and Food Policy Studies
- Institute of Nanoscience and Nanotechnology
- Malaysian Research Institute on Ageing
- Institute for Mathematical Research
- Halal Products Research Institute
- Institute of Tropical Forestry and Forest Products
- Institute for Social Science Studies
- Institute of Tropical Agriculture and Food Security
- International Institute of Aquaculture and Aquatic-Sciences
- Institute of Ecosystem Science Borneo

## FURTHER INFORMATION

### School of Graduate Studies

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 4225

Email: [infosgs@upm.edu.my](mailto:infosgs@upm.edu.my)

Website: [www.sgs.upm.edu.my](http://www.sgs.upm.edu.my)

**A programme jointly developed by UPM with other international universities.**

The **main objective** is to promote and **strengthen bilateral collaboration** between UPM and its partners particularly in the areas of **research** and **supervision**.

# Programmes by Faculty







# FACULTY OF AGRICULTURE

**A**s one of the three founding Faculties of UPM, the faculty of Agriculture is the foremost Agriculture knowledge centre in Malaysia. The faculty assumes a major role in finding solution to current Agriculture problems faced by the country and ensures development of the National Agro- Industry over the long term by an output of trained visionaries and competitive graduates.

The faculty produces professionals characterised by entrepreneurship and high technical capability who can contribute to knowledge, wealth creation and nation building through their, research and commercialisation prowess.

## Programmes Offered

### Bachelor 's Degree

- Bachelor of Agricultural Science with Honours
- Bachelor of Horticultural Science with Honours
- Bachelor of Science in Agribusiness with Honours
- Bachelor of Science in Aquaculture with Honours
- Bachelor of Animal Science with Honours
- Bachelor of Science in Plantation Management with Honours
- Bachelor of Technology in Smart Agriculture with Honours

### Degree without Thesis (Coursework)

- Master in Plantation Management
- Master in Land Resource Management
- Master in Tropical Soil Science

### Degree with Thesis

- Master of Science (MSc.)
- Doctor of Philosophy (PhD)

### Research Focus

- Agriculture and the environment
- Crop and animal breeding
- Pest management
- Post harvest technology
- Supply chain management for food and agriculture
- Sustainable aquaculture production
- Sustainable food crops production for food security







## Career Opportunities

The Faculty of Agriculture strives to produce trained agriculture experts who possess the entrepreneurial spirit and are capable of holding consultations and negotiations anywhere. Graduates are also trained to advance new agricultural technologies as well as apply results from research and commercialisation programmes.

## Achievements

The faculty has produced many award-winning and commercially viable products that add value to agriculture such as:

- Akar PUTRA® - new chicken breed
- BlastBustr RS4 - green technology innovation of an anti-fungal and growth-promoting formulation for seed coating against rice blast disease.
- GanoCare® - a formulation containing organic material and beneficial element for organic or inorganic fertiliser for controlling Ganoderma disease in oil palm caused by *Ganoderma boninense*
- SAPPUTRA Nanoemulsion - saponin based nanoemulsion formulation to control apple snails.
- Premium Mahseer Feed - specifically formulated to optimise empurau or kelah growth.
- FS Feed - micro diet specially design for early feeding of fish and shrimp larvae



### FIND OUT MORE

#### Faculty of Agriculture

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 4802

Emel: dean.agri@upm.edu.my

Website: <https://agri.upm.edu.my>





# FACULTY OF FORESTRY AND ENVIRONMENT

**T**he Faculty of Forestry and Environment is one the result of merging of Faculty of Forestry and Faculty of Environmental Studies, that took effect on 1<sup>st</sup> March 2020.

The faculty has four departments which are Department of Forestry Science and Biodiversity, Department of Wood and Fibre Industries, Department of Nature Parks and Recreation, and Department of Environment. These departments offer bachelor, master and doctoral programmes in forest management, wood technology and Industry management, recreational and ecotourism, and environmental studies.

## Programmes Offered

### Undergraduate

- Bachelor of Forestry Science with Honours
- Bachelor of Wood Science and Technology with Honours

- Bachelor of Parks and Recreation Science with Honours
- Bachelor of Environmental Science and Technology with Honours
- Bachelor of Environmental Management with Honours

### Postgraduate

- Master of Environment (Program by Coursework)
- Master of Science (MS)
- Doctor of Philosophy (PhD)

### Research Programme

- Bioresource and Technology
- Forest Management and Ecosystem Sciences
- Sustainable Recreation and Ecotourism
- Wildlife Ecology and Management



- Environmental Economics, Planning and Management
- Environmental Education and Ethics
- Environmental Policy and Governance
- Marine and Freshwater Ecosystem
- Environmental Hydrology and Hydrogeology
- Environmental Pollution Control Technology
- Environmental Quality and Conservation
- Environmental System and Modeling

## Career Opportunities

Employment opportunities encompass government and non-government agencies, private organizations involved in forest management, wood industries, management of parks and eco-tourism and in the field of environment science and management.

## Sultan Idris Shah Forestry Education Centre (SISFEC)

Sultan Idris Shah Forestry Education Centre (SISFEC) was established on 21<sup>st</sup> March 2012 and officiated by His Majesty, Sultan of Selangor, Sultan Sharafuddin Idris Shah Al-haj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Al-haj, the Chancellor of UPM and Sultan of Selangor.

SISFEC is located in Ayer Hitam Forest Reserve, Puchong approximately 20 kilometers from Universiti Putra Malaysia (UPM). Ayer Hitam Forest Reserve is the forest under the jurisdiction of the Selangor State Forestry Department and has been granted for 99 years long-term lease agreement commenced in 1996 by the State Governance of Selangor to the Universiti Putra Malaysia for the purpose of education, research and extension in forestry.

SISFEC is an on-site class and laboratory of the Faculty of Forestry and Environment UPM, for the students and academic staff of UPM. With SISFEC, the Faculty of Forestry and Environment is able to design, develop and organize various activities in the field of forestry more effectively, in a more organized manner and on a regular basis.

The goals of SISFEC is to enhance the learning skills of various forestry courses in the field by exposing students through practical training in the field. To promote SISFEC as a research site in various areas of forestry and environment. To educate the public on the importance of forest function in life, and to manage the forest sustainability for education, research, development of human resource and infrastructure development.

## Recognition

- Received research grants from both domestic and international sponsors to support research activities in the faculty.
- Faculty members are recognized as the Top Research Scientists Malaysia in 2018 from the Academic of Sciences Malaysia.
- Accreditation of Bachelor of Environmental Science and Technology with Honours, Bachelor of Environmental Management with Honours and Master of Environment Program by IES/CEDHE.

## Collaboration

- MoU with Guangxi Eco-Engineering Vocational and Technical College (GVETC)
- MoU with Universitas Hasanuddin (UNHAS)
- MoU with Songkhla Rajabhat University, Thailand (SKRU)
- MoA with International Islamic University Malaysia (IIUM)
- MoU with Persatuan Pengusaha Kayu Kayan dan Perabot Bumiputra Malaysia (PEKA)
- Agreement Contract with Yayasan Hijau Malaysia
- MoA with Universitas Mataram (UNRAM)
- Agreement with Henan Institute of Science and Technology, China (HIST)
- MoA with Zhoukou Normal University (ZKNU)

## Upcoming Collaboration

- MoA with Universitas Sumatera Utara (USU)
- MoU with Department of Environment, Federal Territory of Kuala Lumpur (DOE KL)
- MoU with Hiroshima University
- MoU with Nagasaki University
- MoU with Xiamen University Malaysia
- MoU with PETRON
- MoU with KBS Forest Plantation
- Consortium Agreement with Kasetsart University



**FIND OUT MORE**

### Faculty of Forestry and Environment

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7171

Email: [dean.forenv@upm.edu.my](mailto:dean.forenv@upm.edu.my)

Website: <https://forenv.upm.edu.my/>





# FACULTY OF VETERINARY MEDICINE

**T**he faculty of veterinary medicine offers comprehensive veterinary education and training for Doctor of Veterinary Medicine (DVM) programme and postgraduate programmes namely Doctor of Philosophy (PhD), Master of Veterinary Science (MVSc), Master of Science (MS) and Master of Veterinary Medicine (MVM). These programmes are supported by six departments in the faculty which include The Department of Veterinary Pre-Clinical Sciences, Department of Veterinary Pathology and Microbiology, Department of Veterinary Clinical Studies, Department of Companion Animal Medicine And Surgery, Department of Farm and Exotic Animal Medicine and Surgery and Department of Veterinary Laboratory Diagnosis.

In addition, the faculty has established the Centres of Excellence (CoE) in ruminants, wildlife health and conservation, and swiflets.

UPM is the first institution of higher education in Malaysia, with a well-equipped University Veterinary Hospital (UVH) and Veterinary Laboratory Services Unit (VLSU) that provides clinical training for undergraduate and postgraduate students. UVH and VLSU also provide consultation on treatment and surgery, laboratory diagnosis and other veterinary related services to the public, including referrals from veterinary practitioners.

UVH is located within the veterinary complex of the Faculty of Veterinary Medicine. UVH provides professional services by veterinary officers, and paraprofessionals in various disciplines of veterinary medicine. This include but not limited to internal medicine, surgery, anesthesiology, veterinary imaging (CT scan, radiology, ultrasonography), cardiology, ophthalmology, dermatology, neurology, oncology and theriogenology across species. The teaching of undergraduate and

postgraduate students is conducted by academician and supported by UVH clinical and management team.

## Programmes Offered

### Undergraduate

- Doctor of Veterinary Medicine (DVM)

### Postgraduate

- Doctor of Philosophy (PhD)
- Master of Veterinary Medicine (MVM)
- Master of Veterinary Science (MVSc)
- Master of Science (MS)

## Research Focus

- Zoonotic and emerging diseases
- Animal model in biomedical research
- Wildlife health and conservation
- Fish health management
- Diagnostic technology on animal diseases
- Impact of multidrug resistant microbial populations impact on animal and human health
- Veterinary biologics and pharmaceuticals
- Edible bird nest swiflet production, health and product quality
- Ruminant diseases and herd health management
- Non-ruminant diseases of economic importance
- Companion animal health and welfare

- Veterinary and comparative oncology
- Livestock and veterinary reproductive biotechnology
- Impacts of animal metabolism in production
- Animal nutrition

## Career Opportunities

Graduates of the faculty can be employed as Veterinary Officers in government agencies, statutory bodies and private companies that are involved in animal, animal product and by product-related industries. Entrepreneurial graduates can establish and operate their own veterinary clinics. Doctor of Veterinary Medicine graduates are well-trained to serve in other sectors such as the academia, research, animal industries and veterinary institutions as well as medical institutions.

## Achievements

- Received MS ISO 9001:1994 certification in 2000, as the first institution of higher learning to received certification in teaching, research and professional services in Malaysia



- Awarded with MS ISO/ IEC 17025 accreditation for laboratories testing in 2008
- Commercialized four animal vaccines, one diagnostic kit and 10 trademark and copyright
- One spin off company was formed and three commercialized vaccines has been marketed to Malaysia, USA and Europe
- Four professors of the faculty were awarded the prestigious National Academic Awards, Malaysia and one young lecturer manage to get Merdeka Award

## The University Veterinary Hospital (UVH)

The University Veterinary Hospital (UVH) was established in 1975 as part of the Faculty of Veterinary Medicine and Animal Science, Universiti Pertanian Malaysia.

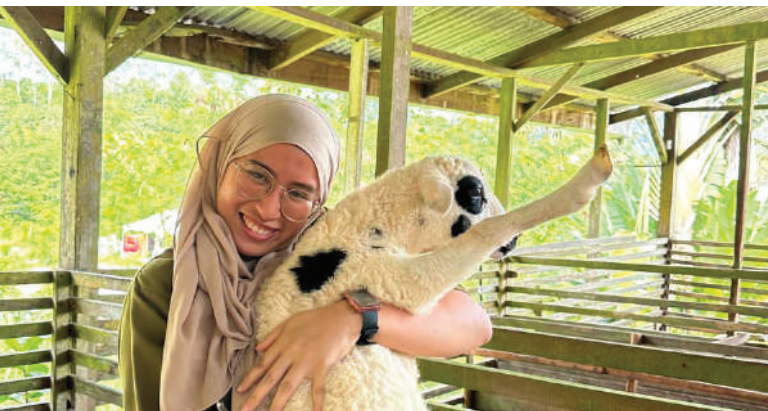
It went through a number of changes until November 1996 when the name UVH was adopted. It started with a small animal and ambulatory large animal clinic as well as laboratory services. It has grown to

encompass hospital ward and outpatient clinic handling various animal species.

UVH is equipped with various diagnostic and laboratory equipment that required in a teaching hospital. Besides routine outpatient consultancy, UVH also offers specialized services in veterinary medicine and surgery, imaging and laboratory diagnosis. UVH has facilities to handle animals with severe or complicated diseases and those requiring intensive care. Plus, UVH provides an ambulatory clinic for large animals.

UVH supports and provides clinical cases and materials for teaching and research in the Faculty of Veterinary Medicine. Research areas include:

- Surgery
- Critical Care
- Epidemiology
- Internal Medicine
- Clinical Medicine and Therapy
- Radiology and Ultrasonography
- Theriogenology and Cytogenetics
- Disease Investigation and Diagnosis



### FIND OUT MORE

#### Faculty of Veterinary Medicine

Universiti Putra Malaysia

43400 UPM Serdang

Selangor Darul Ehsan, Malaysia

Tel: +603 9769 3896

Email: [dean.vet@upm.edu.my](mailto:dean.vet@upm.edu.my)

Website: <https://vet.upm.edu.my>





# FACULTY OF ENGINEERING



**T**oday, the faculty is one of the largest faculties in UPM with student population of over 3,000.

To date, the faculty boasts eight departments - the Department of Aerospace Engineering, the Department of Civil Engineering, the Department of Biological and Agricultural Engineering, the Department of Electrical and Electronic Engineering, the Department of Chemical and Environmental Engineering, the Department of Computer and Communication Systems Engineering, the Department of Mechanical and Manufacturing Engineering; and the Department of Process and Food Engineering - offering eight Bachelor programmes, 16 Master's programmes by coursework, one PhD industry called Doctor of Engineering and 38 fields of study for Programme by Research (PhD / Master).

In line with UPM's inspirational motto, 'With Knowledge We Serve', the engineering faculty is fully committed towards helping students develop holistically, discover cutting edge knowledge, and contribute to the creation of wealth and nation-building.



## Global Recognition through Quality Research

The faculty is also known as one of the country's leading R&D centers for its work in various research focusing on engineering and related fields. The quality of these research findings is tested through international journals, patents, and publications awards. Each year, the faculty produces over 600 publications, including 500 journal articles. One of the objectives of such prodigious research activities is to elevate the faculty's international status in terms of visibility and recognition.

The research activities are supported by public and private research funds awarded locally and internationally amounting more than RM10 million each year. On top of that, the faculty received more than RM10 million cash and in-kind for community projects through

community engagement in the recent year. Notably, the linkages and networks with the alumni, who actively share great ideas and speak critically, indirectly foster the achievement of the Faculty of Engineering.

Faculty of Engineering is currently supported by five main centers of excellence (COE) which are focusing in emerging areas of research with multi disciplinary approaches. The listed centers are Wireless and Photonic Networks (WiPNET), Advanced Lightning, Power and Energy Research (ALPER), Sustainable Process Engineering Research Center (SPERC), Advanced Engineering Materials and Composites (AEMC), and Smart Farming Technology Research Center (SFTRC).



## Programmes Offered

### Bachelor Programme

Faculty of Engineering offers various bachelor degree programmes which cover a diverse fields of engineering as well as providing well-structured fundamental understanding through these eight programmes that have been accredited by Engineering Accreditation Council Malaysia:

### Masters by Coursework

The Faculty of Engineering offers masters by coursework programmes. Students enrolled under these programmes must fulfil a minimum of 40 credits of courses with a minimum study period of one year to two years (full time) two years to four years (part time).



- Bachelor of Aerospace Engineering with Honours
- Bachelor of Agricultural and Biosystems Engineering with Honours
- Bachelor of Chemical Engineering with Honours
- Bachelor of Civil Engineering with Honours
- Bachelor of Computer and Communication Systems Engineering with Honours
- Bachelor of Electrical and Electronic Engineering with Honours
- Bachelor of Mechanical Engineering with Honours
- Bachelor of Process and Food Engineering with Honours
- Master in Aerospace System Design Engineering
- Master of Communication Engineering
- Master of Electrical Power Engineering
- Master of Emergency Response Planning
- Master of Engineering Management
- Master of Environmental Technology Management
- Master of Highway and Transportation Engineering
- Master of Innovation and Engineering Design
- Master of Manufacturing Systems Engineering



- Master of Microelectronic System Engineering
- Master of Remote Sensing and GIS
- Master of Structural Engineering and Construction
- Master of Water Engineering
- Master in Environmental Engineering
- Master in Food Process and Packaging Engineering
- Master in Process Safety and Loss Prevention

## Programmes by Research (PhD/Master)

The Faculty of Engineering also offers more than 30 fields of postgraduate studies with a minimum study duration a years and half (three semesters) and maximum of three years (six semesters) for Master by Research. As for PhD, a minimum study duration of two years (four semesters) and maximum of five years (10 semesters) is required.



## Fields of Study

- Aerospace Engineering
- Agricultural Mechanisation and Automation
- Agricultural Process Engineering
- Agricultural Waste Engineering
- Automotive Engineering
- Biochemical Engineering
- Biomedical Engineering
- Chemical Engineering
- Computational Methods in Engineering
- Computer and Embedded Systems Engineering
- Computer Networks
- Control System Engineering
- Electrical Power Engineering
- Electronic Engineering
- Environmental Engineering
- Farm Structures
- Food Engineering
- Geographic Information System (GIS)
- Geospatial Engineering
- Geotechnical and Geological Engineering
- Highway and Transportation Engineering
- Industrial Engineering
- Manufacturing Systems Engineering
- Materials Engineering

- Mechanical Engineering
- Packaging Engineering
- Photonics Engineering
- Process Safety and Reliability
- Project Management
- Remote Sensing
- Robotic and Automation Engineering
- Safety, Health and Emergency Management
- Sensor Technology
- Signal Processing
- Soil and Water Engineering
- Structural Engineering
- Water Resources Engineering
- Wireless Communications and Networks Engineering

### **Doctor of Engineering (DEng) Programme**

The Faculty of Engineering offers a PhD with industry known as the Doctor of Engineering (DEng). The programme has a minimum study period of five semesters (two and half years) and maximum of 10 semesters (five years). Candidates with relevant First Class Bachelor's degrees and Masters degrees with industrial experience are eligible to apply for this programme. The candidates can apply for the same PhD fields of study and may have a supervisory committee member from the industry. This programme is suited for engineers or researchers who wish to pursue a higher degree in the area of work in which they are employed.

### **Mission**

The Faculty of Engineering UPM aims to be a leading institution for the enhancement of engineering in the world.

To achieve this mission the faculty will:

- Develop the art and science of engineering for the well-being of mankind;
- Educate engineers to high standards of scientific, managerial and professional competence in harmony with the environment; and
- Share our knowledge and skills with communities throughout the world.



#### **FIND OUT MORE**


#### **Faculty of Engineering**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 6262

Email: [eng@upm.edu.my](mailto:eng@upm.edu.my)

Website: <https://eng.upm.edu.my>

A photograph of four students (three men and one woman) sitting around a wooden table, engaged in a study session. They are looking at books and tablets. The text 'FACULTY OF EDUCATIONAL STUDIES' is overlaid in large green letters on the left side of the image.

# FACULTY OF EDUCATIONAL STUDIES

**T**he objectives of the Faculty of Educational Studies are to provide undergraduate teacher education and postgraduate programmes in the fields of educational studies, counselling and human resource development; to provide extension programmes and consultancy services within the university as well as to the community at large; and to conduct research in areas related to educational studies, counselling and human resource development.

## Programmes Offered

### Diploma

- Diploma in Youth in Development Work

### Undergraduate

- Bachelor of Education in Agricultural Science with Honors
- Bachelor of Education in Home Science with Honors

- Bachelor of Education in Physical Education with Honors
- Bachelor of Education in Malay Language with Honors
- Bachelor of Education in Teaching of English as a Second Language with Honors
- Bachelor of Education in Guidance and Counselling
- Bachelor of Counselling with Honors
- Bachelor of Science in Human Resource Development with Honors

### Postgraduate

- Master of Human Resource Development
- Master of Education
- Master of Science and Doctor of Philosophy



- Curriculum and Instruction
- Educational Administration
- Educational Psychology
- Educational Technology
- Guidance and Counselling
- Physical Education
- Sports Science
- Teaching of English as a Second Language (TESL)
- Malay Language Education
- Technical and Vocational Education

### Fields of Study (Master of Education)

- Curriculum and Instruction
- Educational Administration
- Educational Psychology
- Instructional Technology and Innovation
- Guidance and Counselling
- Physical Education
- Sports Science

- Teaching of English as a Second Language (TESL)
- Malay Language Education
- Technical and Vocational Education
- Human Resource Development

### Fields of Study (Master by Coursework)

- Curriculum and Instruction
- Educational Administration
- Educational Psychology
- Sociology of Education, Instructional Technology and Innovation
- Guidance and Counselling
- Physical Education
- Sports Science
- Teaching of English as a Second Language (TESL)
- Malay Language Education
- Teaching of Malay Literature
- Technical and Vocational Education
- Human Resource Development



## Research Focus

- Innovative Learning Sciences Research Centre of Excellence (INNOVATE)
- ICT and Emerging Technologies Technical and Vocational Education and Training (TVET)
- Agricultural Education and Home Economics
- Science, Technology, Engineering and Mathematics Education (STEM)
- Arts and Humanities Education Religious and Moral Education Language and Literacy Education Entrepreneurship Education Educational Leadership, Policy and Administration
- Human Resource Development Continuing Education and Lifelong Learning
- Kinesiology and Sport Studies
- Physical Education and Health Education Educational Psychology and Sociology Counsellor Education and Counselling Psychology
- Teaching of English as a Second Language (TESL)

## Achievements

According to the 2023 rating by QS World University Rankings, Universiti Putra Malaysia (UPM) is recognised as one of the world's top 251<sup>st</sup>–300<sup>th</sup> best universities in the field of education.

This recognition puts Universiti Putra Malaysia among the 300 best universities in the world where UPM has developed an international reputation with regard to academic standards and quality of graduates.

Among the criteria in the rating is the construction of a strong academic profile, high-impact research, research and development in education and service to the public, as well as recognition from key stakeholders.

### FIND OUT MORE

#### Faculty of Educational Studies

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 8210

Email: [dean.educ@upm.edu.my](mailto:dean.educ@upm.edu.my)

Website: <https://educ.upm.edu.my>



# FACULTY OF SCIENCE

**T**he Faculty of Science comprises the Department of Biology, Department of Physics, Department of Chemistry and Department of Mathematics and Statistics. Undergraduate programmes are designed to provide students with solid background in their respective disciplines and to develop their scientific perspectives. Teaching is conducted by well-trained and experienced lecturers using the latest methodology, supported by up-to-date facilities in a conducive learning environment.



## Programmes Offered

### Undergraduate

- Bachelor of Science in Biology with Honours
- Bachelor of Science in Physics with Honours
- Bachelor of Science in Instrumentation Physics with Honours
- Bachelor of Science in Materials Science Physics with Honours
- Bachelor of Science in Chemistry with Honours
- Bachelor of Science in Industrial Chemistry with Honours
- Bachelor of Science in Petroleum Chemistry with Honours
- Bachelor of Science in Mathematics with Honours





- Bachelor of Science in Statistics with Honours
- Bachelor of Science in Biology with Education (Honours)
- Bachelor of Science in Physics with Education (Honours)
- Bachelor of Science in Chemistry with Education (Honours)
- Bachelor of Science in Mathematics with Education (Honours)

### Postgraduate

- Doctor of Philosophy (PhD)
- Master of Science (M.S.C)
- Master of Applied Statistics
- Master in Tropical Biology
- Master in Analytical Chemistry (RSC Accredited)
- Master in Materials Physics
- Master in Mathematical Sciences

## Fields of Study

### Biology

- Biodiversity and Conservation
- Ecology
- Genetics
- Physiology

### Physics

- Physics
- Materials Science
- Applied Physics
- Fundamental and Theoretical Physics

### Chemistry

- Analytical Chemistry
- Catalysis
- Theoretical and Computational Chemistry
- Physical Chemistry
- Organic Chemistry
- Inorganic Chemistry

### Mathematics

- Statistics
- Applied Mathematics
- Numerical Analysis
- Pure Mathematics



## Research Areas

### Biology

- Plant Conservation
- Animal Conservation
- Ecotoxicology
- Animal Ecology
- Freshwater and Marine Ecology
- Microbial Ecology
- Developmental and Reproductive Biology
- Plant Physiology
- Genetic of Natural Resources

### Physics

- Condensed Matter Physics
- Theoretical and Computational Physics
- Instrumentation Sciences and Technology
- Applied Optics
- Medical Physics
- Renewable Energy and Green Technology
- Physics/Stem Education

### Chemistry

- Analytical Methods and Materials
- Catalysis
- Inorganic Synthesis
- Materials Chemistry

### Natural Products Chemistry

- Organic Synthesis
- Chemical Biology
- Oleochemistry
- Electrochemistry
- Polymers
- Carbon Chemistry
- Theoretical and Computational Chemistry

### Mathematics

- Algebra
- Applied Mathematics
- Design and Analysis of Experimental
- Functional Analysis



- Graph Theory
- History and Philosophy of Mathematics
- Diagnostics and Inference
- Multivariate Analysis
- Number Theory and Cryptography
- Numerical Analysis
- Operational Research
- Pure Mathematics
- Robust Statistics
- Stability and Optimization

**The quality of the faculty's lecturers and research standards is recognised nationally and internationally.** Each year, the faculty publishes hundreds of research articles and win numerous awards.

- Survival Analysis
- Time Series and Spatial Analysis

## Career Opportunities

Opportunities abound in the public and private sectors for research officers, teachers, science officers, manufacturing engineers, STEM entrepreneurs and many more.

## Achievements

The quality of the faculty's lecturers and research standards is recognised nationally and internationally. Each year, the faculty publishes hundreds of research articles and win numerous awards.

The faculty has been one of the largest recipients of research grants in the university and continuously strives to surpass its excellent records.

### FIND OUT MORE

#### Faculty of Science

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia  
Tel: +603 9769 6601/6602/6603  
Email: [fs.enquiry@upm.edu.my](mailto:fs.enquiry@upm.edu.my)  
Website: <https://science.upm.edu.my>





# FACULTY OF FOOD SCIENCE AND TECHNOLOGY

**T**he Faculty of Food Science and Technology at UPM is a pioneer in the field of food science and technology in Malaysia. It offers academic programs tailored to the needs of the food industry and boasts state-of-the-art teaching and advanced research facilities. Students benefit from innovative curriculums, extracurricular activities, research opportunities, and internships.

The faculty excels in fundamental and translational research, towards commercialization and extension through innovative initiatives. Students are actively involved in ongoing research projects, gaining valuable hands-on experience and insights into real-world challenges and solutions.

The faculty's emphasis on practical learning extends beyond research. Through internships and extracurricular activities, students apply their theoretical knowledge in practical settings, fostering

personal growth and teamwork. This approach, combined with the faculty's commitment to providing a comprehensive education, prepares students to become industry-ready upon graduation.

**The faculty's emphasis on practical learning extends beyond research.** Through internships and extracurricular activities, students apply their theoretical knowledge in practical settings, fostering personal growth and teamwork.

## Programmes Offered

### Undergraduate

- Bachelor of Food Science and Technology with Honours
- Bachelor of Science in Food Studies with Honours
- Bachelor of Science in Food Service Management with Honours
- Bachelor of Science in Food Manufacturing Operations with Honours

### Postgraduate

Master of Science/Doctor of Philosophy by Research

- Food Science
- Food Technology
- Food Safety
- Food Biotechnology
- Food Management
- Food Service Management

Master by Coursework

- Master of Food Technology
- Master of Food Safety and Quality Assurance
- Master in Functional Food Design
- Master in Halal Food Manufacturing Management

## Research Focus

- Food processing and preservation
- Chemical and microbiological food safety
- Food bioprocessing
- Functional foods
- Fats and oils
- Food management
- Food service management

## Career Opportunities

Graduates from the Faculty of Food Science and Technology at UPM have abundant employment prospects in both private and public sectors, including roles as food scientists, food technologists, food analysts, food safety executives, quality assurance executives, research and development executives, marketing executives, technical sales executives, operation management executives, food and beverage managers, restaurant managers, catering and food preparation officers, entrepreneurs, halal executives, regulatory affairs executives, and food inspectors. Their comprehensive education and skills make them well-equipped to excel in various positions within the dynamic and diverse food industries.

## Achievements

The Faculty of Food Science and Technology has an illustrious history of forging extensive research collaborations with renowned universities worldwide in the dynamic field of food science and technology, yielding remarkable achievements. A testament to its excellence, UPM secures an impressive ranking of 51<sup>th</sup>–75<sup>th</sup> in Food Science and Technology according to Shanghai's Global Ranking of Academic Subjects. Collaborating with esteemed institutions like Jiangnan University, South China University of Technology, Tohoku University, and University of Queensland, the faculty pioneers cutting-edge advancements in green extraction technology, non-thermal processing, functional food, food safety, nanotechnology, and enzyme technology. These collaborative endeavors cultivate an environment of knowledge exchange, bolstering the quality of research, expanding student opportunities, and fostering sustainable progress within the food industry.

Within the faculty, state-of-the-art teaching factories showcase a range of cutting-edge facilities equipped with advanced equipment, propelling achievements to new heights. These exceptional facilities provide students with immersive experiences within simulated food factory working environments, while also serving as invaluable resources for research, teaching, and practical training.



Notably, the teaching factories feature pilot plant learning centers dedicated to juice and puree processing, boasting high-pressure processing technology, as well as comprehensive facilities for meat product processing and Supercritical Fluid Extraction. Through utilization of these cutting-edge resources, students gain profound knowledge and essential skills pertinent to factory operations management, positioning them for success in the industry and research

To disseminate research discoveries, the International Food Research Journal (IFRJ) was established by the Faculty of Food Science and Technology since 1993, has been a revered and peer-reviewed open-access journal at the forefront of food science and technology research. Esteemed for its commitment to excellence, IFRJ showcases high-quality



L'apprenti, an esteemed brand nurtured by the **Faculty of Food Science and Technology**, stands as a testament to remarkable achievements.

research articles, reviews, and short communications authored by esteemed researchers from around the globe. The journal's visibility and impact have been significantly elevated, evident through its indexing in prestigious databases such as Scopus, PubMed, and Web of Science. Garnering an official impact factor of 1.169, IFRJ holds a prominent ranking of #126 out of 143 in the Food Science and Technology category. Furthermore, with a 2021 SJR of 0.299 and an impressive h-index of 46, IFRJ remains an invaluable resource for researchers, providing a steadfast standard of quality publication and further contributing to the advancement of the field.

L'apprenti, an esteemed brand nurtured by the Faculty of Food Science and Technology, stands as a testament to remarkable achievements. This brand encompasses L'apprenti@Restaurant, L'apprenti Cafe, and L'apprenti Deli, each showcasing continuous excellence. L'apprenti@Restaurant offers a diverse menu that embraces the art of fine dining, grazing options, tantalizing

appetizers, comforting soups, enticing main courses, and divine desserts. L'apprenti goes beyond culinary mastery by providing a wide range of services, including training modules and ground-breaking innovations in food and beverage. Our prowess extends to catering major events such as convocations, international conferences, meetings, competitions, and exhibitions. With signature dishes that harmonize flavors and captivate palates, L'apprenti has earned its well-deserved reputation for unforgettable destination and gastronomic experiences.



**FIND OUT MORE**

**Faculty of Food Science and Technology**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 8367

Email: [dean.food@upm.edu.my](mailto:dean.food@upm.edu.my)

Website: <https://food.upm.edu.my>



# FACULTY OF HUMAN ECOLOGY

**T**he Faculty of Human Ecology offers multidisciplinary studies focussing on holistic human development and well-being within the context of their environment. At present, the Faculty of Human Ecology comprises of five departments - Human Development and Family Studies, Social and Development Sciences, Resource Management and Consumer Studies, Government and Civilization Studies, and Music.

In accordance with the goals of a Research University, two Research Centres of Excellence were Established namely the Family, Adolescent and Child

Research Centre of Excellence (FACE) and Sustainable Consumption Research Centre (SCORE).

## Programmes Offered

### Undergraduate

The faculty offers five undergraduate programmes:

- Bachelor of Human Development Science with Honours
- Bachelor of Human Development Science with Management (Honours)
- Bachelor of Human Development Science with Information Technology (Honours)
- Bachelor of Consumer Studies with Honours
- Bachelor of Music with Honours

### Postgraduate

The faculty offers 13 programme fields for Master of Science and PhD:



- Community Development
- Consumer Science
- Family Ecology
- Family Economics and Management
- Gender and Development
- Housing
- Human Development
- Music
- Philosophy and Civilization Studies
- Politics and Government
- Psychology of Child Development
- Social Psychology
- Developmental Psychology

## Areas of Expertise

- Child and Adolescent Development
- Adulthood and Ageing
- Family Well-being
- Community Empowerment
- Quality of Life (QoL) and Social Well-being
- Politics and Government
- Philosophy and Civilisation
- Consumer and Well-being
- Family Economics and Finance
- Music and Well-being

## Achievements

The Faculty of Human Ecology was appointed as the lead agency by PERMATA DIVISION under the Ministry of Education to manage and run

the educators training programme under formerly known PERMATA Negara (National Early Childhood Education and Care Programme). This is a recognition of the faculty staff's expertise in the field of child development.

A Memorandum of Understanding (MoU) was signed with Sarakup Indu Dayak Sarawak (SIDS) to establish Tan Sri Empiang Jabu Research Chair in Dayak Women Studies.

A Memorandum of Understanding (MoU) was signed with Islamic Relief Malaysia to strengthen volunteerism among UPM staff and students.

## Career Opportunities

A wide range of career opportunities await our graduates in the government and private agencies. Employment opportunities for each programme among others are as follows:

**Bachelor of Human Development Science with Honours, Bachelor of Human Development Science with Management (Honours), Bachelor of Human Development Science with Information Technology (Honours)**

- Community Development Officer, Youth and Sports Officer, Anti-drug and Enforcement Officer, Medical Social Worker, Welfare Officer, Administrative and Diplomatic Officer, Human Resource Manager, Administrator, IT Officer, System Analyst and Programmer.



### **Bachelor of Consumer Studies with Honours**

- Enforcement Officer (Consumerism), Certified Financial Planner, Bank Officer, Insurance Officer, Marketing Executives and Entrepreneur.

### **Bachelor of Music with Honours**

- Music Teacher, Members of an Orchestra, Composer, Music Therapist, Producer and Audio Expert.

## **Family, Adolescent and Child Research Centre of Excellence (FACE)**

Realizing the importance of family in generating human capital that can meet the aspirations of the country's development, Family, Adolescent and Child Research Center of Excellence

(FACE) was established in 2008 aims to improve the quality of life of families, children and adolescents through research, publications, teaching, and professional services in focus areas.

Our vision is to be an established center for research, services and consultancy in the areas of family, children and adolescents in Malaysia and the region. FACE is dedicated to improve the quality of life of families, children and adolescents through disseminations of research findings, teaching, advocacy and outreach within and outside the country.

Implementation of various activities address the following objectives:

- To be an established, leading center for research in the field of family, children and adolescents.
- To serve as the main resource center in the field of family, children and adolescents in the region.
- To provide training for early childhood educators.
- To disseminate information and research findings through publications, training, workshops, seminars and conferences.
- To provide consultation and professional services to government and private agencies, and the general public.



## Sustainable Consumption Research Centre of Excellence (SCoRE)

The research center was set up in 2008 and is led by a group of researchers to ensure that the mission and vision accomplished. The vision is to become an excellent and active research center on sustainable consumption. The mission is improving the quality of life of Malaysian consumers through research, education, advocacy and establish networking with various parties at both local and international levels.

The objectives of SCoRE are as follow:

- Leading research on sustainable consumption behavior.
- Being a main referral centre on sustainable consumption.
- Providing research opportunity for postgraduate students in area of consumer science programmes.
- Disseminating information and sharing research output through writing activities, seminar, workshop and smart partnership.
- Providing information and advisory services to agencies and ministries.
- Collaborating with overseas institution through exchange activities and research.

## Training, Consultation and Professional Services

FEM offers consultancy services in the field of early childhood development and care, preschool education, adolescents, parenting, marriage and family.

In-service courses in related field are provided through FACE to the target groups at basic and advanced levels.

## Community Outreach Programme

As part of our pledge for both quality of life and quality of environment, we also have outreach programmes with the community such as in Sekolah Kebangsaan Sungai Bumbun (A) in Pulau Carey, Selangor, Kampung Orang Asli Sungai Sampo in Jempol, Negeri Sembilan, Sekolah Menengah Kebangsaan Binjai in Kemaman, Terengganu and GEMS Unit of Hospital Kuala Lumpur.

### FIND OUT MORE

#### Faculty of Human Ecology

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7051

Email: [feminfo@upm.edu.my](mailto:feminfo@upm.edu.my)

Website: <https://eco1.upm.edu.my>



# FACULTY OF MODERN LANGUAGES AND COMMUNICATION

**T**he Faculty of Modern Languages and Communication comprises four departments. The Department of Malay Language offers the following degree programmes: BA in Malay Language and Linguistics (Hons), and BA in Malay Literature (Hons). The Department of English offers the following degree programmes: BA in English Language and Linguistics (Hons), and BA in English Literature (Hons). The Department of Foreign Languages offers the following degree programmes: BA in

Arabic Language (Hons), BA in Chinese Language Studies (Hons), BA in German Language Studies (Hons) and BA in French Language Studies (Hons). The Department of Communication offers the degree in Bachelor of Communication (Hons). There are four areas of specialisation, namely: Corporate Communication, Broadcasting, Journalism, and Human Communication.

## Programmes Offered

### Undergraduate Degree

#### On – campus

Bachelor of Arts in:

- Malay Language and Linguistics (Hons)
- Malay Literature (Hons)
- English Language and Linguistics (Hons)
- English Literature (Hons)
- Arabic Language (Hons)





- Chinese Language Studies (Hons)
- German Language Studies (Hons)
- French Language Studies (Hons)
- Bachelor of Communication (Hons)

### Trimester

Bachelor of Arts in:

- Malay Language and Linguistics (Hons)
- Arabic Language (Hons)
- English Language and Linguistics (Hons)
- Bachelor of Communication (Hons)

### Postgraduate Degree

#### Programme by Research

Master of Arts/Master of Science/ Doctor of Philosophy in:

- Malay Language
- Malay Literature
- English Language
- English Literature
- Chinese Literature
- Arabic Language
- Discourse Studies
- Applied Comparative Linguistics
- Literary and Cultural Studies
- Translation and Interpretation
- Literacy Studies
- Communication Technology (Master Only)

- Development Communication (Master Only)
- Journalism (Master Only)
- Organisational Communication (Master Only)
- Human Communication (PhD and Master)
- Mass Communication (PhD Only)
- Corporate Communication (PhD Only)

#### Programme by Coursework

- Master of Malay Language
- Master of Malay Literature
- Master of Applied Linguistics
- Master of World Literature
- Master of Corporate Communication

### Areas of Expertise

- Language Studies (Malay, English, Arabic, Chinese, German, French and Japanese)
- Applied Linguistics
- Literature, Culture and Gender Studies
- Media Communication, Communication Technology and Development
- Corporate Communication
- Human Communication
- Discourse Studies
- Journalism
- Translation and Interpretation

## Career Opportunities

The Bachelor of Arts Degree Programmes offered by the Faculty of Modern Languages and Communication prepare graduates for a wide array of careers across diverse sectors. Graduates emerge ready to excel in domains such as public affairs, customer relations, and international diplomacy, as well as to carve their path in the fields of writing, editing, and human resource management. For Bachelor of Communication graduates, a broad spectrum of career prospects awaits in the dynamic realms of Communication and Media.

Graduates can pursue fulfilling careers as Journalists, TV/Radio Producers, Script Writers, Corporate Communication Executives, Public Administrative Executives, Communication Researchers, Broadcasting and more.



## PUTRA FM Radio Station

Immerse in the rich auditory landscape of Universiti Putra Malaysia's campus with the captivating experience offered by Putra FM Radio Station – the renowned Campus Radio Station of UPM.

Inaugurated in 2002 as Malaysia's pioneering digital campus radio station, broadcasting at FM 90.7, this radio station has served as a cornerstone for UPM students, guiding them into the intricate realm of radio broadcasting.

For more information, please visit PutraFM's official social media via:

Facebook: <https://www.facebook.com/PUTRAfm>

T I k T o k: <https://www.tiktok.com/@putrafm907>,

Instagram: <https://www.instagram.com/putrafm907>

Twitter: <https://twitter.com/putrafm907> search for

PUTRA FM 907 at <http://www.putrafm.upm.edu.my>

## Malay Heritage Museum, Faculty of Modern Languages and Communication

The museum, established in January 2013, has a noble mission: to collect, conserve, and preserve ancient Malay artifacts. It plays a pivotal role in documenting, creating awareness among the public about Malay wisdom through exhibitions and various engaging activities, as well as collaborating to ensure the safeguarding of these precious artifacts. This museum places a strong emphasis on the collection and preservation of treasures and artifacts representing the rich heritage of Malay civilizations in Peninsular Malaysia. These include:

- Malay Traditional Architecture
- Malay Manuscripts
- Clothing and Textiles
- Weaponry
- Malay Household Equipment

Step into a realm where history comes to life and explore the profound cultural significance of these artifacts.

The museum warmly welcomes the public to visit. For additional information, please refer to our website at <https://muziumwarisanmelayu.upm.edu.my>.



### Faculty of Modern Languages and Communication

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 8661

Email: [fbmk@upm.edu.my](mailto:fbmk@upm.edu.my)

Website: <https://fbmk.upm.edu.my/>





# FACULTY OF DESIGN AND ARCHITECTURE

**T**he Faculty of Design and Architecture was officially established in June 1996 and began its operation with offering of the Bachelor of Landscape Architecture and Master of Landscape Architecture Programmes under the new Department of Landscape Architecture. Subsequently, the Department of Architecture was established in 1999 and later the Department of Industrial Design in 2002. The faculty today is a complex of stylish buildings which houses the faculty and students with up to date learning facilities and equipment. The faculty began with an enrolment of 40 students.

Today, it has expanded rapidly offering nine programmes with an enrolment of more than 1000 students at the undergraduate, master and doctoral levels. The faculty aims to:

- To become a reputable and excellent institution for the advancement of design, build environment and sustainability,
- To contribute towards wealth creation, nation building and

universal human advancement through the exploration, dissemination and application of knowledge in design and built environment.

## Programmes Offered

### Undergraduate Degree

- Bachelor of Landscape Architecture with Honours
- Bachelor of Science in Architecture with Honours
- Bachelor of Industrial Design with Honours

### Postgraduate Degree

- Master of Landscape Architecture (MLA)
- Master of Architecture (M.Arch)
- Master of Tropical Urban Design (MTUD)
- Master of Sustainable Landscape Management (MSLM)
- Master in Industrial Design Innovation (MIDI)

- Master in Construction Technology Management (McTeM)
- Industrial Design Innovation
- Culture and Heritage
- Urban Design

### **Master of Science (MS) with thesis**

- Landscape Studies
- Architectural Studies
- Urban Planning and Design
- Integrated Design Studies
- Industrial Design Studies

### **Doctor of Philosophy (PhD)**

- Landscape Studies
- Architectural Studies
- Urban Planning and Design
- Integrated Design Studies
- Industrial Design Studies

### **Research Focus**

- Sustainable Design
- Environmental Design and Behaviour
- Environmental Design Technologies and Systems

### **Career Opportunities**

Qualified graduates may aspire to become professional architectural consultant and industrial designers. Graduates may also be hired in government sectors and various fields related to landscape, architecture and industrial design, and also as project managers in construction and development sectors as well as researchers sensitive to architectural design and sustainability.

### **Achievements**

*Established Alam Cipta International Journal on Sustainable Tropical Design Research*, a reference for research and practice on sustainable design in tropics. It positions designers as the “creative integrators” of advance technologies with the everyday needs of users and their communities.







Improved and strengthen the quality of expertise and research output among academic staff.

Produced award-winning design works by students and staff at local and international competitions and exhibitions.

Granted fundings for research and consultancies in the area of expertise and produced intellectual properties which include patent, industrial design, copyright and trademark.



## FIND OUT MORE

### Faculty Of Design and Architecture

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 4090

Email: [korporatfrsb@upm.edu.my](mailto:korporatfrsb@upm.edu.my)

Website: <https://frsb.upm.edu.my>





# FACULTY OF MEDICINE AND HEALTH SCIENCES

**T**he Faculty of Medicine and Health Sciences offers programmes in both disciplines, comprising Medical and Health Science undergraduate programme, clinical specialists programme and other postgraduate programme. The faculty is located at an academic complex next to Hospital Sultan Idris Shah and Hospital Sultan Abdul Aziz Shah. The faculty facilitates active learning of over 2,000 undergraduate and postgraduate students through the dissemination of knowledge and practical training as well as in research.

The complex has many facilities which include an administrative building, a Library, Lecture Halls, Tutorial Rooms, and Teaching and Research Laboratories. In addition, the Faculty is Equipped with a Teaching Hospital to support Academic, Research and Clinical Services in the field of Medicine and Health Sciences.

## Programmes Offered

### Undergraduate Degrees

- Doctor of Medicine
- Bachelor of Biomedical Science with Honours
- Bachelor of Science in Dietetic with Honours
- Bachelor of Science in Nutrition and Community Health with Honours
- Bachelor of Science Environmental and Occupational Health with Honours
- Bachelor of Nursing with Honours

### Postgraduate Degrees

- Doctor of Philosophy
- Master of Science
- Master of Public Health
- Doctor of Public Health

- Master of Pathology
- Master of Psychiatry
- Master of Paediatrics
- Master of Family Medicine
- Master of Internal Medicine
- Master of Orthopaedics
- Master of Anaesthesiology
- Master of Radiology
- Master of Surgery (General Surgery)
- Master of Nutritional Sciences
- Master in Environmental and Occupational Health

## Research Focus

- Genetics
- Nutrition
- Neuroscience
- Stem Cells
- Molecular Diagnostics
- Community Health
- Cancer
- Nutrition and Health
- Infectious Diseases
- Allergies
- Mental Health
- Cardiovascular Disease
- Environmental and Occupational Health

## Career Opportunities

The programmes produce professional graduates who fulfill the demands of the public and private sectors in the field of medicine and health sciences. They qualify as medical doctors, dieticians, laboratory consultants, clinical nurses, nursing experts, science officers, safety and health executives, health inspectors, consultants, quality officers, researchers, lecturers, projects coordinators relating to health sciences and many more.

## Achievements

The faculty has been bestowed with numerous awards including but not limited to clinical and lab research or teaching and is also globally recognised in the academic field for its publication.



### Faculty of Medicine and Health Sciences

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 2300

Email: [dean.medic@upm.edu.my](mailto:dean.medic@upm.edu.my)

Website: <https://medic.upm.edu.my>



# FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

**T**he global evolution and significance of computer studies and research were strategically harnessed by UPM in the 1980s. Since then, the Faculty of Computer Science and Information Technology has kept pace with the rapid growth of the industry. What began with only courses in Diploma and Bachelor of Computer Science has now expanded significantly to meet the demands of industry.

The unique factors of the faculty are its offering of rigorous treatment of all core topics in computer science – both theoretical and practical with wide range of technical and analytical skills. It also provides hands on experience with comprehensive syllabus and fascinating applications of computer science in emerging areas like Artificial Intelligence, Security, Embedded Systems, Cloud Computing, Distributed Network, as well as immersive technologies such as AR/VR. Small classes also enable students to receive personal attention and guidance from the faculty members.

Currently, the faculty constitutes four departments: Department of Multimedia, Department of Computer Science, Department of Software Engineering and Information Systems and Department of Communication Technology and Networks.

## Programmes Offered

### Undergraduate

- Bachelor in Computer Science with Honours
- Bachelor of Computer Science (Multimedia Computing) with Honours
- Bachelor of Computer Science (Computer Network) with Honours
- Bachelor of Software Engineering with Honours



## The **unique factors of the faculty**

are its offering of rigorous treatment of all core topics in computer science – both theoretical and practical with wide range of technical and analytical skills.

### **Postgraduate Programmes by Coursework**

- Master of Computer Science
- Master of Software Engineering
- Master of Information Security
- Master in Computer Network

### **Programme by Research**

- Doctor of Philosophy (PhD)
- Master of Science (MSc)

### **Fields of Study**

- Computer Graphics
- Computer Networks
- Computer Vision
- Data Science
- Database Systems
- Human-Computer Interaction

- Information Retrieval
- Information Systems
- Intelligent Systems
- Multimedia Computing
- Parallel and Distributed Computing
- Security in Computing
- Software Engineering

### **Research Focus**

- Data Science and Big Data Analytics
- Database Technology
- Artificial Intelligence and Machine Learning
- Information Security
- Knowledge Management
- Information Systems
- Software Engineering
- Human Computer Interaction
- Computer Graphics
- Information Retrieval



- Natural Language Processing
- Computer Vision
- Multimedia Computing
- Computer Networking
- Parallel and Distributed Computing
- Wireless and Mobile Computing
- Quantum Computing

## Career Opportunities

The employment potential for this programme is vast with graduates seeking to be systems analysts or information systems officers, data scientist, database administrators, multimedia software developers, software engineers, networks and distributed systems managers, network programmers, cyber security analyst, software consultants, knowledge database engineers, lecturers, researchers and many more that enables graduates to thrive in the working world and be leaders in their own niches.

The **faculty holds seven patents, 99 copyrights, and one trademark** in its name, along with a **variety of published works** that are shared with the industry.

## Achievements

The faculty holds seven patents, 99 copyrights, and one trademark in its name, along with a variety of published works that are shared with the industry.

Based on the Graduates Tracking Study Report for the year 2022 issued by the Center for Entrepreneurship and Graduate Employability Development (CEM), the employment status of FSKTM graduates is 100%, with a total of 139 individuals (79.4%) employed, 6 individuals (3.4%) continuing their studies, 9 individuals (5.1%) enhancing their skills, and 20 individuals awaiting job placement (11.4%). Additionally, only 1 individual (0.6%) of FSKTM graduates is currently unemployed.



**FIND OUT MORE**

### Faculty of Computer Science and Information Technology

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 6501

Email: [dean.fsktm@upm.edu.my](mailto:dean.fsktm@upm.edu.my)

Website: <https://fsktm.upm.edu.my>

# FACULTY OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES

**T**he Faculty of Biotechnology and Biomolecular Sciences (BioTech UPM) was established in 2004 with the merger of two well-established Departments, Biotechnology (established in 1986) and Microbiology and Biochemistry (established in 1976). BioTech UPM comes with well- equipped laboratories and experienced academic staff, all holding PhD Degrees in their respective fields and possessing broad and deep scientific knowledge. BioTech UPM has four departments –

- Department of Biochemistry,
- Department of Bioprocess Technology,

- Department of Cell and Molecular Biology; and
- Department of Microbiology.

## Programmes Offered

### Undergraduate

- Bachelor of Science in Biotechnology with Honours
- Bachelor of Science in Biochemistry with Honours
- Bachelor of Science in Microbiology with Honours
- Bachelor of Science in Cell and Molecular Biology with Honours

### Postgraduate

#### Master Programme by Coursework

- Master of Science in Biotechnology with Bioentrepreneurship

#### Master of Science / Doctor of Philosophy (with Thesis – Research)

- Biochemistry
- Bioinformatics and Systems Biology







- Cell Biotechnology
- Environmental Biotechnology
- Enzyme Biotechnology
- Industrial Biotechnology
- Microbial Biotechnology
- Microbiology
- Molecular Biology and Genetic Engineering
- Nanobiotechnology
- Plant Biotechnology
- Structural Biology
- Food Security and Climate Change

## Career Opportunities

Career opportunities exist in the industries related to biotechnology and biomolecular sciences. These include private companies, research institutes, government departments and institutes of higher learning. Some of the companies and institutions involved in industries related to biotechnology and biomolecular sciences are Unilever, Ajinomoto, Novo Nordisk, Sartorius, Guinness, Glaxo, Setron, Asia Green, Green Note, MPOB, MARDI, FRIM, RRIM, MNA (Malaysian Nuclear Agency), the Prime Minister's Department; Ministry of Science, Technology and Innovation; Ministry of International Trade and Industry; Ministry of Education; and Ministry of Agriculture and Agro-based Industry.

## Achievements

The active research activities in various disciplines under BioTech UPM have resulted in a number of awards won and patents filed every year, as well as publication in refereed journals with high impact factors. The faculty has 11 patents, eight copyrights, one trademark and three commercialized products that add value to biotechnology and biomolecular sciences research fields.



**FIND OUT MORE**

### Faculty of Biotechnology and Biomolecular Sciences

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1047

Email: [dean.biotech@upm.edu.my](mailto:dean.biotech@upm.edu.my)

Website: <https://biotech.upm.edu.my/>

# FACULTY OF AGRICULTURAL AND FORESTRY SCIENCES @ UPM BINTULU CAMPUS



**T**he Faculty of Agricultural and Forestry Sciences is unique as it is in Universiti Putra Malaysia Bintulu Sarawak Campus (UPMKB) in East Malaysia. The faculty consists of three academic departments namely the Department of Crop Science, the Department of Forestry Science, and the Department of Animal and Fishery Sciences. The programme offered by faculty has high graduate employability due to its programme relevance in accordance with the needs of the local industries.

Today, the faculty is one of its kind to focus on agro-bio fields, supporting UPMKB five academic and research thrusts, namely agriculture, forestry, renewable energy, industrial chemistry and engineering, ethnic and social economics. Relevant and competitive academic programmes in agriculture and bio-resource fields are offered, in addition to the substantial investments made in the faculty's R&D systems to produce multi-talented graduates. A collaborative network with the private and public sectors of the industrial community has also been established to ensure faculty's academic programmes are in line with educational philosophies and fulfil the market demands.

## Programmes Offered

### Diploma

- Agriculture
- Food Estate Management
- Fishery
- Animal Health and Husbandry
- Forestry







## Bachelor

- Bachelor of Bioindustry Science with Honours
- Bachelor of Science in Aquaculture with Honours
- Bachelor of Forestry Science with Honours

## Postgraduate

Master of Science and Doctoral Degree (by Research)

- Agronomy
- Animal production
- Agricultural Technology
- Aquaculture
- Aquatic Biology
- Aquatic Ecology
- Biochemistry
- Biodiversity and Conservation of Natural Resources
- Bioinformatic and System Biology
- Bioresource and Technology
- Botany
- Ecology
- Entomology
- Hydrogeology
- Environmental Quality and Conservation
- Fishery Science
- Food Biotechnology
- Food Science
- Forestry
- Forest Management and Ecosystem Sciences
- Genetics and Breeding
- Horticulture
- Land Resource Management
- Landscape Studies
- Marine Ecology and Biodiversity
- Marine and Freshwater Ecosystem
- Microbial Biotechnology
- Microbiology
- Molecular Biotechnology
- Molecular Biology and Genetic Engineering
- Plant Biotechnology
- Plant Pathology
- Plant Physiology
- Pest Management
- Soil Science
- Sustainable recreation and Ecotourism
- Wildlife Ecology and Management
- Wood Science



## Research Focus (UPMKB)

- Agriculture
- Forestry
- Renewable Energy
- Industrial Chemistry and Engineering
- Ethnic and Social Economics

## Career Opportunities

Possible careers for graduates of this programme are in the manufacturing (livestock and crops) sectors, processing industries, industries related to industrial waste management, officers in agriculture, fishery, livestock, and forestry.



## Achievements

The active research activities in various disciplines under agriculture and forestry have resulted in a number of awards won, as well as publication in refereed journals with high impact factors.

### FIND OUT MORE

#### Faculty of Agricultural and Forestry Sciences

Universiti Putra Malaysia Bintulu  
Sarawak Campus  
97008 Bintulu Sarawak, Malaysia

Tel: +6086855209

Email: [dean.fsph\\_btu@upm.edu.my](mailto:dean.fsph_btu@upm.edu.my)

Website: [www.btu.upm.edu.my](http://www.btu.upm.edu.my)

# FACULTY OF HUMANITIES, MANAGEMENT, AND SCIENCE @ UPM BINTULU CAMPUS



**T**he Faculty of Humanities, Management, and Science (FKPS) was established on 1<sup>st</sup> July 2020, at the University's Branch Campus in Bintulu Sarawak. Since its founding, the faculty has actively begun its effort in helping the University towards realising the four main areas set forth for the Branch Campus, i.e., Agriculture, Forestry, Industrial Chemistry, Renewable Energy, and Socio-Economic.

The faculty is headed by a dean who coordinates all academic and administrative matters within the faculty. Presently, the faculty consists of two academic departments: Department of Social Sciences and Management and Department of Science and Technology. The programmes offered by the faculty have high graduate employability as these programmes have been tailored to the need of the industries. Students are taught through classroom instructions that are supplemented by practical and industrial exposure to give them a rounded learning. Majority of the academic staff

in the faculty are Ph.D. holders who have received their education from Malaysia and universities abroad in the United States, the United Kingdom (UK) and Europe and Australia.

## Programmes Offered

### Bachelor

- Bachelor of Science in Industrial Chemistry with Honours
- Bachelor of Human Development Science with Management (Honours)
- Bachelor of Business Administration with Honours (Trimester Bachelor Programme)

### Diploma

- Diploma in Agribusiness
- Diploma in Human Development
- Diploma in Agricultural Engineering Technology
- Diploma in Computer Science

- Diploma in Business Management
- Diploma Preparatory Science Programme

## Pre-Diploma

- Foundation for Diploma Programme

## Postgraduate

Master of Science and Doctor of Philosophy (by Research) in the following areas/fields:

- Accounting
- Agribusiness
- Agricultural Economics
- Advanced Materials
- Aerospace Engineering
- Agricultural Technology
- Analytical Chemistry
- Applied Mathematics
- Biodiversity and Conservation of Natural Resources
- Bioprocess Engineering
- Broadcasting
- Catalysis
- Communication
- Computational Methods in Engineering
- Development Communication
- Drone
- Early Childhood Studies and General Education
- Economic Development
- Economics
- Educational Technology
- Energy
- Entrepreneurship
- Ethnic Studies
- Finance
- Food Biotechnology
- Food Management
- Food Safety
- Food Science
- Forest Management and Ecosystem Sciences
- Genetics and Breeding
- Guidance and Counselling/  
Counseling Psychology
- Health Behavioral
- Human Development





- Human Resources Development
- Information System
- Land Resource Management
- Literary and Cultural Study
- Management
- Mass Communication
- Materials Science
- Mathematical Cryptography
- Mathematics Education
- Mental Health
- Microbial Biotechnology
- Microbiology
- Molecular Biotechnology
- Persuasive Communication
- Philosophy and Civilisation
- Physical Chemistry
- Physics
- Plant Biotechnology
- Psychology (Developmental and Social Psychology)
- Pure Mathematics
- Renewable Energy
- Safety, Health, and Environment
- Youth Studies
- Master in Renewable Energy (By Coursework)
- Master in Business Administration (By Coursework, from School of Business and Economics)

## Research Focuses

- Communication Studies
- Community Development
- Ethnic and Socio-Cultural Studies
- Chemistry
- Engineering and Renewable Energy

## Career Opportunities

Graduate from the faculty and in the various fields/ areas offered have good opportunities to join government and private sectors as well as setting up their own business. These graduates can leave to with various expertise that can help to enhance the development of the four main thrusts of the branch campus such as in agriculture, industrial chemistry, renewable energy, and socio-economic development.



### FIND OUT MORE

#### **Faculty of Humanities, Management and Science**

Universiti Putra Malaysia Bintulu  
Sarawak Campus  
97008 Bintulu Sarawak, Malaysia

Tel: +6086855221

Email: dean.fkps\_btu@upm.edu.my

Website: www.btu.upm.edu.my



# SCHOOL OF BUSINESS AND ECONOMICS

(FORMERLY KNOWN AS THE FACULTY  
OF ECONOMICS AND MANAGEMENT)

**T**he demand for highly skilled professionals in the field of agribusiness and resource economics prompted the establishment of the Faculty of Economics and Management in 1974. In line with its vision to become a leading Asian business school, the faculty was rebranded as the School of Business and Economics on 1<sup>st</sup> March 2020, aiming to meet global excellence in education, research, and societal engagement.

## Programmes Offered

### Undergraduate

- Bachelor of Accounting (Honours)
- Bachelor of Economics with Honours
- Bachelor of Business Administration with Honours

### Postgraduate

- Master of Economics
- Master of Entrepreneurship
- Master of Finance



- Master of Business Administration (MBA)
- Master of Science (MSc)
- Doctor of Philosophy (PhD)

### Programme by Specialisation

Accounting, Business Economics, Business Law, Corporate Leadership, Economics, Finance, Hospitality, Human Resource Management, Management, Marketing, and Tourism.

## Learning Opportunities in Evening Mode

The Trimester Bachelor Programme offers flexible scheduling with classes conducted after weekday office hours (evening mode). These programs follow a trimester system, with three intakes per year (July, November, and March), allowing students to complete their degrees within three years to three and a half years.

Students can also apply for PTPTN and MARA loans through this programme. Furthermore, international students are welcome to apply to this programme.

### Trimester Bachelor Programme

- Bachelor of Accounting (Honours)
- Bachelor of Economics with Honours
- Bachelor of Business Administration with Honours

Our postgraduate programs are designed for working professionals and fresh graduates. Classes are conducted on weekdays, after office hours, mostly from 6:30 pm to 9:30 pm. Students enrolling in these programs can graduate as early as one year (three trimester) for MBA, one year (two semesters) for Master of Science, one and a half years (three semesters) for master by coursework, and two years (four semesters) for Doctor of Philosophy programs.

## Research Focus

### Business and Management

Management Studies, Marketing Studies, Human Resource Management and Industrial Relations, Consumer Behaviour, Supply Chain Management and Logistic Studies, Management Science, Business Law, Corporate Leadership, and International Business.

**Our postgraduate programs** are designed for **working professionals** and **fresh graduates**.

Classes are conducted on weekdays, after office hours, mostly from 6:30 pm to 9:30 pm.

### Economics

Industrial Economics, Financial Economics, Public Finance, Development Economics, Monetary Economics, International Economics, Resource and Environmental Economics, Health Economics, and Labour Economics.



## Entrepreneurship, Hospitality and Tourism

Entrepreneurship Studies, International Entrepreneurship, Tourism Marketing, Tourism Management, Hospitality Management, Hospitality Marketing, Tourism Sustainability, and Event Management.

## Accounting and Finance

Financial Accounting, Management Accounting, Financial Reporting, Financial Engineering, Financial Derivatives, Corporate Finance, Islamic Finance, Audit, Taxation, Corporate Governance, Banking, Investment, Public Sector Accounting, Management Accounting, Accounting Information System, Sustainability Accounting, and Reporting and Data Analytics.

## Career Opportunities

Our graduates can pursue a diverse range of occupations in the public and private sectors, such as economists, economic planners, chartered accountants, auditors, tax advisors,

management consultants, company secretaries, academicians, researchers, entrepreneurs, bankers, and executives in the fields of marketing, finance, operations, and human resources. Other potential career paths include banking, real estate, manufacturing, commerce, telecommunication, and various industries, both locally and internationally.

## Achievements

The School of Business and Economics holds the distinction of being the first business school in Malaysia to attain both Association to Advance Collegiate Schools of Business (AACSB) and EFMD Quality Improvement System (EQUIS) accreditations, placing it among the top 2% of business schools worldwide to have achieved this feat. The initial AACSB accreditation, earned in 2012, is a mark of excellence in business education obtained by less than 5% of business schools globally. Additionally, in 2022, the School received its initial EQUIS accreditation, further underscoring its commitment to delivering exceptional education and meeting international standards of excellence.

These significant achievements exemplify the School's dedication to providing outstanding business education and affirm its status as a leading institution in the field. As a result of these prestigious accreditations, the School has experienced a significant increase in international student enrolment and established fruitful collaborations with



Additionally, in 2022, the **School received its initial EQUIS accreditation**, further underscoring its commitment to delivering exceptional education and meeting international standards of excellence.

renowned global institutions. Our student body comprises individuals from various countries, including France, Germany, China, Taiwan, Saudi Arabia, Jordan, Iraq, Nigeria, Libya, Pakistan, Bangladesh, Indonesia, and many more. This diverse and vibrant community enriches the academic environment, fostering cross-cultural understanding and global perspectives.

Moreover, to strengthen our international standing and provide enhanced learning opportunities, we have established collaborations with renowned international institutions such as Boise State University (USA), Indian Institute of Management Kozhikode (India), Minhaj University Lahore (Pakistan), National Tsing Hua University (Taiwan), Ajou University (Korea), Universitas Widyatama (Indonesia), The University of Groningen (Netherlands), University of Dubai (Dubai), Ritsumeikan University & Ritsumeikan Asia Pacific University (Japan), Lanzhou University of Finance and Economics (China), Hong Kong Baptist University (Hong Kong), and University of Economics Ho Chi Minh (Vietnam).

These collaborations facilitate student exchanges, joint research projects, and academic collaborations, providing our students with a global perspective and enriching their educational experience.



#### FIND OUT MORE

##### **School of Business and Economics**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7777

Email: [spe@upm.edu.my](mailto:spe@upm.edu.my)

Website: <https://econ.upm.edu.my>

# Programme by Institute







# INSTITUTE OF BIOSCIENCE (IBS)

**T**he Institute of Bioscience (IBS) is a premier research centre that offers a conducive and world class research environment. The institute houses one of the best facilities for biomedical and biotechnology related research in the university. Currently, IBS is steered by more than 30 scientists with expertise in various fields such as veterinary, marine and biomedical sciences, biotechnology and agriculture who are actively pursuing innovative research.

IBS research niche is molecular biomedicine and therapeutics, focusing on cutting edge interdisciplinary research in diagnostics and therapeutics against infectious diseases including cancer; discovery of new entities, such as drugs, nutraceuticals and nutri-cosmeceuticals from natural resources; development of vaccines; and marine biotechnology.

IBS also works in tandem with prestigious universities and agencies around the world in search of novel ideas and to generate beneficial innovations for the benefit of the global community. IBS is

also recognised by the ministry of higher education as higher institution centres of excellence (HICoE) in the country for research in animal vaccines and therapeutics.

## Laboratories

- Laboratory of Vaccines and Biomolecules (VacBio)
- Aquatic Animal Health and Therapeutics Laboratory (AquaHealth)
- Natural Medicines and Products Research Laboratory (NaturMeds)
- UPM-MAKNA Cancer Research Laboratory (CANRES)

## Strategic Units

- Biodiversity Unit (UBD)
- Comparative Medicine & Technology Unit (COMeT)
- Microbial Culture Collection Unit (UNiCC)
- Microscopy Unit (EM)

## Research Programmes

- Fish Vaccine Technologies and Therapeutics
- Aquatic Health Management and Diagnostics
- Vaccine Technology and Diagnostic
- Biomolecular Engineering
- Microbiome and Therapeutics
- Omics Bioinformatics
- Natural Product Chemistry and Metabolomics
- Drug Discovery, Delivery and Therapeutics
- Pharmacogenomics, Nutrigenomics and Nutraceuticals
- Cancer Stem Cell Biology
- Cancer Immunology and Therapeutics
- Comparative Cancer Biology

## Fields of Study

- Aquatic Biotechnology
- Biotherapeutics
- Cancer Biology and Oncology
- Marine Ecology and Biodiversity
- Medical Biotechnology
- Medicinal Chemistry
- Metabolomics
- Molecular Biotechnology
- Nanomedicine
- Phytochemistry
- Vaccine and Therapeutics

## Achievements

- Recognised by the Ministry of Higher Education as Higher Institution Centres of Excellence (HiCoE) in the country for research in animal vaccines and therapeutics.
- Produced five commercial products, 22 patents and 117 patents pending.
- Accredited and recognised by WFCC-MIRCEN World Data Centre for Microorganism (WDCM), World Federation of Culture Collection (WFCC) and Malaysian Code of Practice for The Care and Use of Animals for Scientific Purposes (My Code).
- Maintains a 2-ha UPM Conservatory Park which has a collection of more than 500 species of medicinal plants for research and teaching.

### CONTACT US

#### Institute of Bioscience

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 03 9769 3047

Email: [dir.ibs@upm.edu.my](mailto:dir.ibs@upm.edu.my)

Website: <https://ibs.upm.edu.my/>



# INSTITUTE OF NANOSCIENCE AND NANOTECHNOLOGY (ION2)

**T**he Institute of Nanoscience and Nanotechnology (ION2), formerly known as the Institute of Advanced Technology (ITMA) is a prominent research institute in UPM established in November 1999. Our establishment was initially founded to spearhead research and development in cutting-edge domains encompassing physical sciences, information technology, and engineering. Over the years, we've undergone multiple phases of restructuring to ensure that our institute remains competitive and at the forefront of current research developments. In 2012, we shifted our primary focus to nanotechnology and advanced materials-based research.

After 22 years of establishment, on 1<sup>st</sup> November 2021, we embarked on a transformative journey by rebranding our institute as the Institute of Nanoscience and Nanotechnology (ION2). This rebranding, as ION2, represents a pivotal moment in our evolution, geared towards enhancing our visibility and empowering our institute. Our aspiration is to become a leading research centre of excellence,

specialising in nanotechnology and advanced materials, with a particular emphasis on niche areas like nano-scale green synthesis and applications.

ION2 is committed to promoting environmentally friendly and sustainable research and development, aligning with the future needs of both society and industry, especially in the context of Industrial Revolution 5.0 (IR5.0) and Society 5.0.

We also place a strong emphasis on achievements that support the 17

**This rebranding, as ION2, represents a pivotal moment in our evolution, geared towards enhancing our visibility and empowering our institute.**



Sustainable Development Goals (SDGs) and the Malaysian Science, Technology, Innovation, and Economy (MySTIE) 10-10 framework. This approach is designed to ensure that our advancements in science and technology keep pace with the national economy while reducing dependence on foreign technology.

Furthermore, our dedicated researchers at ION2 have achieved significant success by commercialising their products in collaboration with Putra Science Park under the Innohub program. Some of our notable products include organic conductive pastes for printable circuits, Nanoderm technology for treating oil palm diseases, copper-removing water filters, and a photosynthesis enhancer using carbon dots. The Institute consistently supports UPM's efforts to foster technopreneurs capable of developing new emerging technologies and creating innovations for the marketplace.

Beyond research and development, ION2 engages in various other essential activities, including the training of future research leaders through Postgraduate programmes (Master and Doctor of Philosophy), the dissemination of research findings and expertise through publications and workshops/seminars, as well as networking initiatives with industry and the community. Additionally, we offer testing and calibration services, with two of our laboratories accredited with MS ISO/IEC 17025 by the Department of Standards Malaysia.

## Laboratories

- Nanomaterials Synthesis and Characterisation Laboratory (NSCL)
- Nanomaterials Processing and Technology Laboratory (NPTL)
- Functional Nanotechnology Devices Laboratory (FNDL)

## Research Programmes

- Nanomaterials and Carbon Nanomaterials
- Functional and Structural Nanomaterials
- Nanomaterials Processing
- Nanomaterials Technology
- Sensor Technology
- Electron Devices
- Foundry of Reticular Materials for Sustainability (FORMS)



## Fields of Study

ION2 provides opportunities for postgraduates to enhance their knowledge and training in research and development (R&D) by pursuing higher degree studies at the Master and PhD levels. ION2 offers various fields of study:

- Nanotechnology
- Sensor Technology
- Nanoscience
- Energy
- Advanced Materials
- Green Engineering
- Analytical Chemistry
- Chemical Engineering
- Electronic Engineering
- Materials Engineering
- Materials Science
- Environmental Engineering



## Facilities and Services

ION2 has various laboratory facilities and provides testing services using a wide range of equipment to meet research needs, especially in the field of nanotechnology and advanced materials.

The testing services offered include molecular analysis, thermal analysis, particle size analysis, mechanical testing, chromatographic testing, and magnetisation characterisation. In addition to testing services, we also offer calibration services for electronic balances and standard weights.

We are dedicated to delivering excellent service and have obtained MS ISO/IEC 17025 laboratory accreditation certification for two of our service laboratories.

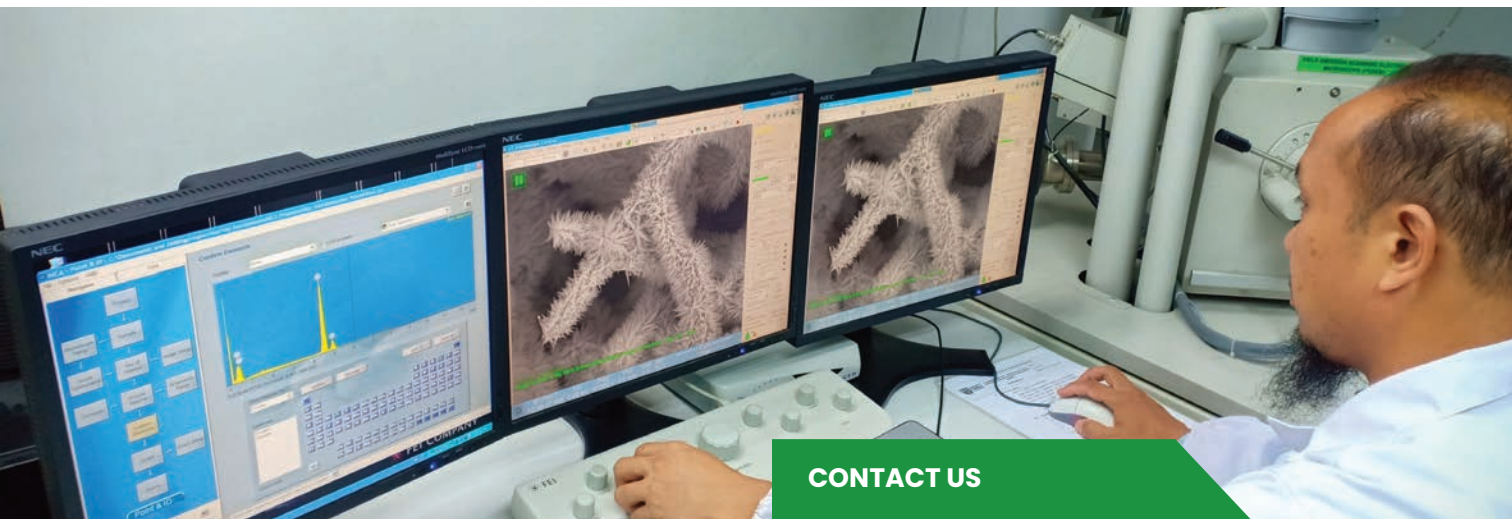
Highlighting our state-of-the-art resources, some of the main equipment includes:

- Field Emission Scanning Electron Microscope (FESEM)
- Energy Dispersive X-Ray (EDX)
- X-Ray Diffractometer (XRD)

- RAMAN Spectroscopy
- Simultaneous Thermal Analysis (TGA/DSC)
- BET Surface Area Analysis

## Achievements

- Supported by over 40 outstanding researchers: including 10 full professors
- Engaged with over 14 industries/universities with active MoU/MoA to date



## CONTACT US

### Institute of Nanoscience and Nanotechnology (ION2)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7533

Email: [dir.ion2@upm.edu.my](mailto:dir.ion2@upm.edu.my)

Website: <https://ion2.upm.edu.my>

- 70% of journal publications are in the JCR Q1 and Q2 journals
- 12, 082 citations in five-year total citation (2018-2022)
- Three commercialised products and five start ups





# MALAYSIAN RESEARCH INSTITUTE ON AGEING (MYAGEING™)



**T**he Institute of Gerontology (IG), Universiti Putra Malaysia was founded on 1<sup>st</sup> April 2002. In recognition of its contribution and role in the field of ageing, (IG) was rebranded as The Malaysian Research Institute on Ageing (MyAgeing™) in 2015. The rebranding heralds a new chapter in the field of gerontology for the nation and the region. MyAgeing™ functions as the national centre for research in gerontology, geriatrics and gerontechnology as well as driving innovations to address the multidimensional challenges and opportunities of population ageing. The institute aims to be an intellectual and physical hub for research, development, commercialisation, and innovation (RCDI) on ageing.

Under the 11<sup>th</sup> Malaysia Plan, the institute was mandated to conduct research to support active and productive ageing, by focusing on multi and interdisciplinary research with a life span approach to the study of old age and ageing to better understand the risk factors and outcomes

of diseases and conditions affecting older adults. The institute monitors and coordinates development of the research fields through collaborations and networking with various agencies, with the establishment of MoU and MoA.

The institute also offers postgraduate study opportunities to train future gerontologist, as well as research laboratories facilities to ensure the successful conduction of ageing related research based on the unique needs of older persons.

## Graduate Studies

- Master of Science
- Doctor of Philosophy

## Fields of Study

- Social Gerontology
- Medical Gerontology
- Gerontechnology



## Laboratories

- Laboratory of Social Gerontology
- Laboratory of Medical Gerontology

## Research Programs

Research focus and programs were based mainly under the niche areas under these laboratories:

### Social Gerontology

- Demographic and Population
- Economic and Finance
- Lifelong Learning
- Long-term Care
- Gender Analysis
- Employment
- Aged Care

### Medical Gerontology

- Health Care System Services and Facilities Health Promotion (physical activity, health literacy, mental health, etc.)
- Treatment and Services (nutrition, diet, genetics, etc.)

### Gerontechnology

- Smart Technology
- Wearable Device
- Assistive Devices

## Mobility and Transportation

- Environment
- Communication
- Digital Literacy

## Achievements

MyAgeing™ functions as focal point for policy, research, and practice on ageing in the country.

The institute has completed 86 interdisciplinary research projects with a total grant value of RM15 million from local and international funding agencies and has published over 300 journal publications.

The institute is the only entity offering postgraduate programmes (MSc & PhD) in the field of Gerontology in Malaysia. It also runs regular training programmes for professional development in the field of ageing.

## CONTACT US


### Malaysian Research Institute on Ageing (MyAgeing™)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 2750 / 2755

Emel: [myageing@upm.edu.my](mailto:myageing@upm.edu.my)

Website: <https://myageing.upm.edu.my>



# INSTITUTE FOR MATHEMATICAL RESEARCH (INSPEM)

INSPEM or the Institute for Mathematical Research focuses on its main activities in planning, identifying and implementing research in cryptography, analysis and structures, computational statistics, operations research, computational sciences, mathematical physics, ethnomathematics and didactics.

The institute serves a two-way conduit between public and private agencies through which problems requiring mathematical solutions can be channeled and examined in depth. At the same time we also aggressively engage in collaborative research with agencies from inside and outside UPM. One of our main functions is to identify and invite bright, young researchers with the potential to carry out research and to nurture their talents as they pursue their postgraduate degrees with us.

## Research Programmes

- Cryptography and Computational Number Theory
- Analytical Structural Modelling and Topological Networking

- Computational Mathematics and Scientific Computing
- Mathematical Physics and Engineering
- Modelling and Computational Statistics
- Computational Operations Research
- Mathematical Values in Society
- Pedagogical Developments in Mathematics

## Fields of Study

- Mathematical Cryptography
- Analytical and Structural Mathematics
- Computational Operations Research
- Applied and Computational Statistics
- Computational Mathematics
- Fluid Dynamics
- Mathematical Physics and Engineering



- Financial Mathematics
- Computable Structures and Scientific Computing
- Mathematics Education
- Ethnomathematics

## Laboratories

- Laboratory of Cryptography, Analysis and Structure
- Laboratory of Computational Sciences and Mathematical Physics
- Laboratory of Computational Statistics and Operations Research
- Laboratory of Ethnomathematics and Didactics
- Laboratory of Statistical and Computational Services

## Achievements

Recognition from the Italian counterpart as a Malaysia-Italy Centre of Excellence for Mathematical Sciences (MICEMS) on 10<sup>th</sup> March 2016.

Recognition from the European Mathematical Society (EMS) as an 'Emerging Regional Center of Excellence' for the duration of 2014-2018 and renewed for another five years for the duration of 2021-2025.

## Section of High Performance Computing Services

Section of High Performance Computing Services (HPCS), was established on July, 2011 under the Laboratory of Computational Sciences and

Mathematical Physics and started operations since November 2011 after the acquirement of a new IBM server. The primary objective of the section is the delivery and support of a large HPC resource available for deployment to UPM research community. HPC is a basic research division where the computer scientists, mathematicians, researchers, students collaborate to advance the state of the art of scientific computing. Our goals are to discover, adapt and apply computational techniques that promise to be useful in solving complex problem. The main of objectives of the section are:

- Provide consultations to all researchers regarding parallel computing and any relevant user applications or software required for scientific computing purposes.
- Analyze, design, develop improve, commission, test and implement High Performance Computing for UPM researchers
- Introduce the technique to evaluate the performance of parallel computing

## CONTACT US

### Institute for Mathematical Research (INSPERM)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 / 6878

Email: [dir.inspem@upm.edu.my](mailto:dir.inspem@upm.edu.my)

Website: <https://inspem.upm.edu.my>

# INSTITUTE FOR SOCIAL SCIENCES STUDIES (IPSAS)

**T**he Institute for Social Science Studies (IPSAS) is dedicated to the study of socio-economic well-being among youth and community both in Malaysia and internationally. IPSAS works with government bodies, non-governmental organizations (NGOs), community groups, and program providers to produce relevant, high impact research aimed at enhancing life outcomes for young people and the communities in which they live. IPSAS is comprised of three social laboratories under which research and graduate studies are carried out. The laboratories are:

- Youth and Community Well-Being
- Youth in Leadership, Politics and Citizenship
- Cyber Generation

Each laboratory comprises research fellows, post-doctoral researchers, research associates, research officers and social research officers. Every research programme in IPSAS is headed by an academic expert in the particular research field. Research conducted by IPSAS is facilitated by a conducive academic environment driven by critical linkages and networks.

Through its multidisciplinary approach, IPSAS aims to address critical social issues and trends affecting young people



and their communities including youth development and leadership, ICT and social communication, and community development. IPSAS also collaborates with other universities and training providers to deliver high-quality training activities, consultation, and seminars in a variety of research-related topics.

IPSAS also offers graduate studies programmes at the Master and Doctor of Philosophy (PhD) levels in the fields of community education and development, youth studies, rural advancement, and leadership studies. Postgraduate students at IPSAS are from various professions, local and international.

Through its multidisciplinary approach, **IPSAS aims to address critical social issues and trends affecting young people and their communities including youth development and leadership, ICT and social communication, and community development.**



#### CONTACT US

##### **Institute of Social Science Studies (IPSAS)**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1872

E-mail: [ipsas@upm.edu.my](mailto:ipsas@upm.edu.my)

Website: <https://ipsas.upm.edu.my/>



# HALAL PRODUCTS RESEARCH INSTITUTE (IPPH)



**T**he Halal Products Research Institute is the first academic institution in the world that offers master and doctorate programmes in the halal sector.

The Halal Products Research Institute was established to spearhead research and development on halal products and services. Our research work has become extremely important especially with the demand of halal products increasing globally and increased complexity of determining the source. There are increasing concerns on the product authenticity and quality among the Muslim consumers. Thus, the vision of The Halal Products Research Institute is **“Upholding the Sanctity of Halal through Research and Services”**.

## Laboratories

- Laboratory of Halal Science Research
- Laboratory of Halal Policy and Management
- Laboratory of Halal Services



## Research Programmes

- Halal Products Analysis and Authentication
- Halal Products Innovation
- Business and Halal Management
- Shariah and Halal Laws

## Area of Expertise

- Halal Business and Management
- Shariah and Law
- Halal Slaughtering
- Halal Supply Chain Management
- Halal Logistics
- Halal Consumerism
- Halal Tourism
- Halal Standards and Policy
- Administration and Islamic Law
- Proteomic
- Food Authenticity and Traceability
- Molecular Biology
- Food Science and Technology
- Food Engineering
- Sensor Technology
- Alternative Product Development
- Data Science
- Machine Learning
- Blockchain

## Achievements

- Global leader in Halal related research and publications based on science geometric analysis.
- ISO17025 accredited laboratory.
- Developed a HaFYS Porcine DNA Test Kit for the detection of porcine DNA in food and non-food products using portable PCR.
- Developed rapid amplification kit based on isothermal detection

technique for porcine DNA detection in various food and non-food products.

- JAKIM certified Halal Training Provider.
- Halal slaughtering subject matter expert.
- Commercialised “Thohira” Muslim friendly animal feed and supplements.
- Commercialised “Trichobiome” organic biocontrol for agriculture.

## Linkages

- International linkages- SEARCA, King Saud University, Majlis Ugama Islam Singapura, Korea Halal Authority Corporation, Kazan State Agrarian University (Russia), Universiti Islam Sultan Sharif Ali (Brunei), Bioeconomy Corporation, King Faisal and Fahad Award (Saudi Arabia).
- Community engagement on halal awareness and halal certification.

### CONTACT US

#### Halal Products Research Institute (IPPH)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1426

Email: [halal@upm.edu.my](mailto:halal@upm.edu.my)

Website: <https://halal.upm.edu.my>



# INSTITUTE OF TROPICAL FORESTRY AND FOREST PRODUCTS (INTROP)

**M**alaysia has vast amounts of untapped natural fibre resources available from both forestry and agriculture sectors. These bioresources range from forest-based wood, bamboo and rattan to agriculture plantation, rice husks, coconut trunks, coir oil palm fibres including oil palm trunks (OPT), oil palm fronds (OPF), empty fruit bunches (EFB) and pineapple leaf and kenaf. These materials can serve as the future alternative fibre raw materials in a wide range of applications, e.g. plywood, glulam, laminated veneer lumber (LVL), cross laminated timber (CLT), and fibreboard in construction, fibre-filled thermoplastic and thermoset composites in automotive, and wood/fibre composite in furniture. The advancement in processing technology also has enabled these fibre resources to be converted into biopolymers and bioenergy. The institute of tropical forestry and forest products aims to be a referral centre in tropical bioresources and biobased materials of international

repute. That could be achieved by spearheading the utilisation of tropical plant biofibres through efficient and sustainable bioresource management via screening and production of planting materials, processing technology, product development and end use application. Supported with a pool of experts from plant physiology, tree improvement, fibre quality, processing technology, product enhancement, forest management, and economic and environmental valuation disciplines, the centre is unique and one of its kind.

## Fields of Study

- Biocomposite Technology and Design
- Bioresource Management
- Biopolymer, Pulp and Paper Technology
- Tropical Rainforest Ecosystem Services



## Research Programmes

- Pulp and Paper Technology and Products
- Biomass Industry Pollution Control
- Biopolymer and Derivatives
- Biofibre Characterisation, Treatment and Processing Technology
- Biocomposite Manufacturing and Production Technology
- Advance Hybrid Biocomposite Technology
- Biocomposite Product Design for Manufacturing
- Tropical Rainforest Management and Ecosystem Services
- Phytoresources, Selection and Plantation

## Areas of Expertise and Research Scope

- Bioresource Screening and Plantation Development
- Bioresource Processing Technology
- Biocomposite Technology and Design
- Fibre Characterisation and Processing
- Forest Plantation Plant Resource Selection, Improvement and Management
- Environmental Suitability for Forest Plantation Establishment
- Plant Nursery Management
- Plant Physiology and Environmental Interaction
- Environmental Impact of Forest Plantation
- Ecosystem Goods and Services
- Planted Forest Management
- Forest and Community Assessment
- Forest Management & Economic Valuation
- Geographic Information System (GIS) in Forest Management
- Remote Sensing Application
- Internet of Things (IoT) for Forest Protection
- Supply Chain and Market Analysis
- Biofibres Physical, Mechanical, and Non-Destructive Testing



- Biofibres Modification and Treatment
- Retting and Textiles
- Biofibres Deterioration and Preservation
- Biocomposite Modification and Treatment
- Biomimetic Biocomposites
- Recycling of Biocomposites
- Bionanocomposites
- Green Composites
- Hybrid Metal-Biocomposite
- Smart Biodegradable Material and Functional Biocomposite
- High Performance Hybrid Biocomposites
- Green Design
- Bioinspired Design
- Material Selection of Biocomposite
- Smart Biocomposite Manufacturing
- Biocomposite Furniture Industrial Design
- Biopolymers
- Biodegradable Polymers
- Bio-Based Laminating Materials
- Biochar-Based Functional Materials
- Pulping, Bleaching and Papermaking Technology
- Nanocellulose
- Specialty Papermaking
- Sustainable Conversion of Biomass Industry Waste into Value-Added Products
- Wastewater Treatment



## Laboratories

- Sustainable Bioresource Management
- Biocomposite Technology
- Biopolymer and Derivatives

## Our Strengths

- INTROP has been recognized of a HICoE in the field of Fibre and Tropical Wood.
- Dealing with a complete product value chain starting from the upstream to midstream and downstream programmes.
- Integrated research with a prime objective to produce fibre resources of desirable attributes for various applications by using efficient and environmental friendly technology.
- Multidisciplinary research approach encompassing bioresource selection, fibre characterisation and processing, biocomposite technology and design, biopolymer and derivatives, pulp and paper, and economic and environmental impact analysis.
- Laboratory of Technology Biocomposite has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC17025:2017).

## Multidisciplinary research approach encompassing bioresource

selection, fibre characterisation and processing, biocomposite technology and design, biopolymer and derivatives, pulp and paper, and economic and environmental impact analysis.

### CONTACT US

#### Institute of Tropical Forestry and Forest Products (INTROP)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1880

Email: [dir.introp@upm.edu.my](mailto:dir.introp@upm.edu.my)

Website: <https://introp.upm.edu.my>





**T**he Institute of Tropical Agriculture and Food Security (ITAFOS) is a focal point for impactful multidisciplinary research to achieve food security. In line with the mission to enhance sustainable tropical agriculture production and food security through effective, innovative and high impact research, the institute has made significant contributions in terms of high quality research outputs and has been declared as a Higher Institution Centre of Excellence (HICoE) by the Malaysian Ministry of Education in 2017. This recognition makes ITAFOS a destination of choice for highly talented researchers, academics and postgraduate students in tropical agriculture research.

Researches carried out are multidisciplinary in nature. Yet in selected focus areas, the high value chain aspects are taken into account. Emphasis is also given to close collaboration with international institutions and industrial players. ITAFOS is carving a name for itself as an internationally recognised research centre of excellence in tropical agriculture and food security. The institute has been

awarded three long term research grant scheme (LRGS) projects by the ministry of education, Malaysia amounting to RM 23,063,532 to undertake research on enhancing sustainable production of rice and poultry feed in Malaysia.

The institute has a wide array of modern research facilities which included crop breeding and greenhouses, molecular laboratory, poultry and ruminant research farm including feed mill, supercritical fluid extractor and temperature control chambers for animal studies. The facilities are used to address both applied and fundamental problems related to crop and animal production, and food safety.

## Laboratories

- Laboratory of Climate-Smart Food Crop Production
- Laboratory of Sustainable Animal Production and Biodiversity
- Laboratory of Food Safety and Food Integrity
- Laboratory of Agricultural and Food Policy Studies

## Research Programmes

### Laboratory of Climate-Smart Food Crop Production

- Improvement and sustainable rice production for food security.
- Production of high value vegetables under protected cultivation in the tropics.
- Improving the quality of food crops and the products.

### Laboratory of Sustainable Animal Production and Biodiversity

- Strategic feed technology and nutrigenomics.
- Sustainable animal production through enhanced environmental, welfare and farm management practices.
- Improving the quality of animal and the products.

### Laboratory of Food Safety and Food Integrity

- Strategies on the reduction of hazard during supply chain of agriculture and food.
- Safety improvement of plant and animal and based-products.
- Identification of compounds and agents in relation to authentication and contamination.

### Laboratory of Agricultural and Food Policy Studies

- Strategies to enhance informed policy making in addressing issues and future challenges in agriculture and food.
- Analyse the impact of the public policy changes on the agriculture and food sectors.
- Provide policy options to the major problems in the agriculture and food sectors.



## Field of Studies

- Agronomy
- Agricultural Policy
- Agriculture Technology
- Animal Biotechnology
- Animal Nutrition
- Animal Physiology
- Animal Production
- Animal Waste Management
- Animal Welfare
- Food Safety
- Food Security and Climate Change
- Genetics and Breeding
- Horticulture
- Microbial Biotechnology
- Natural Resource Policy
- Pest Management
- Plant Physiology
- Post-Harvest Technology
- Soil Science
- Weed Science

## Major Achievement

### ***PadiU Putra Programme***

Paddy research was conducted through the Long Term Grant Scheme (LRGS) programme for food securities niche areas spearheaded by UPM from 2011-2016. This research has resulted in several innovations that contributed to the increase in rice production at several research sites of KADA, MADA and IADA. As a result of this success, the PadiU Putra

research programme was developed to transfer the high impact LRGS research findings technology to benefit the farming communities. The technology transfer programme that was implemented in 2017, received cooperation from the Department of Higher Education Malaysia and the Ministry of Agriculture and Agro-Based Industry, Malaysia.

The PadiU Putra research programme which was conducted by ITAFoS researchers has resulted in high impact findings such as the production of new Putra 1 and Putra 2 varieties that are distinctively superior compared to the current rice varieties. The Putra 1 and Putra 2 rice varieties for commercial cultivation by paddy farmers are expected to be launched in July 2021. Approval for commercialisation from the Ministry of Agriculture and Food Industries (MAFI) was obtained on 8 September 2020. Putra 1 which is a blast resistant rice variety and Putra 2 which is a submerged tolerant variety are expected to increase up to 30% of the national rice production, thus providing increased income to the farmers.

### CONTACT US

#### **Institute of Tropical Agriculture and Food Security (ITAFoS)**

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1043  
Email: [itafos@upm.edu.my](mailto:itafos@upm.edu.my)  
Website: <https://itafos.upm.edu.my/>





# INSTITUTE OF PLANTATION STUDIES (IKP)

**I**nstitute of Plantation Studies (IKP) is a new institute in UPM that brings together researchers of different expertise to focus on the Malaysian plantation sector. Many UPM graduates are leaders in the plantation industry or are directly involved in the sector's various activities. Through IKP, the contribution of UPM to this industry which plays a critical role in the Malaysian economy will be enhanced through research activities and professional services.

The focus of IKP is not limited to oil palm and rubber plantations but covers also other crops such as cocoa, pepper and coconut. The institute emphasises on multidisciplinary leading-edge research encompassing various fields such as agronomy, agricultural engineering, biotechnology, precision agriculture, plant protection, economic and policies. This holistic approach is essential in obtaining impactful beneficial research findings.

IKP strives to generate new knowledge and provide expertise to be utilised by the industry. This will be achieved through training of postgraduates, advisory

services and organisation of seminars and workshops that highlight new ideas and technologies. The institute will work closely with its various stakeholders including government and private agencies, NGOs and smallholders in ensuring that its activities are relevant to the needs of the plantation industry.

**The institute emphasises on multidisciplinary leading-edge research encompassing various fields such as agronomy, agricultural engineering, biotechnology, precision agriculture, plant protection, economic and policies.**



## Academic Programmes

Institute offers both Master of Sciences and Doctor of Philosophy degrees with thesis in the respective fields of study offered by two laboratories.

## Fields of Study

- Pest Management
- Plant Pathology
- Plant Biotechnology
- Sustainable Plantation Management
- Agribusiness
- Agricultural Economics
- Agricultural Mechanization and Automation
- Agricultural Process Engineering
- Agricultural Technology
- Plantation Technology
- Chemical Engineering
- Green Engineering
- Energy
- Catalysis
- Environmental Biotechnology
- Industrial Biotechnology
- Microbial Biotechnology
- Microbiology

## Laboratories

- Laboratory of Sustainable Agronomy and Crop Protection
- Laboratory of Plantation System Technology and Mechanization
- Laboratory of Processing and Product Development

**Laboratory of Sustainable Agronomy and Crop Protection** is established to support government policies such as National Agro-Food Policy and National Commodity Policy. Research and development program is aimed at increasing the productivity and competitiveness of the national plantation sector for the purpose of strengthening and expanding the existing market up to international level, making UPM as one of the centre of excellence in research and development of plantation management technology and finally further developing plantation sector in a sustainable manner.

Combination of various field of study and expertise in the laboratory is able to produce and enhance the quality of the country's workforce at the MS and PhD levels. IKP graduates are able to further accelerate the process of transitioning from conventional agricultural and agro-based sector to a modern, dynamic



and viable along the supply-chain and development of the agricultural sector.

### **Laboratory of Plantation System Technology and Mechanization (PSTM)**

has been established to carry out research and development in mechanization and automation, digital technology and smart farming technology for plantation industry in Malaysia. Research in this field is very important to support the implementation of National Agrofood Policy and National Commodity Policy. Research and development program in the field of mechanization and plantation technology can reduce nation's dependency on foreign labours and improve farm productivity as well as competitiveness of our plantation sector. An application of simple and affordable digital technologies seems to be able to attract younger generation to involve in plantation sector.

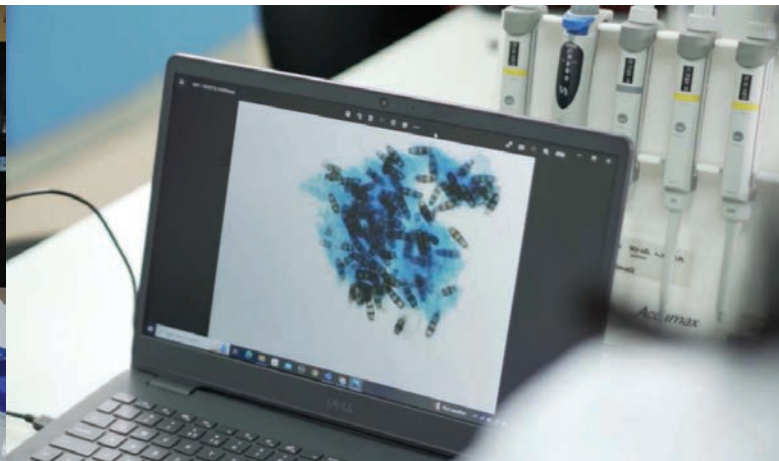
Diverse range of expertise of researchers in this laboratory are able to provide

sustainable solutions for issues in plantation. Research activities in this laboratory is in line with the aim of UPM to be one of the research centre of excellence in plantation technology. To achieve the objective, this laboratory offers research program at master and PhD levels in order to produce more professional workers to modernise the plantation sector in the country.

### **Laboratory of Processing and Product Development**

at its best addressing sustainability issues on the plantation by focusing on research activities that manage and utilise natural resources efficiently, support the human environment and preserve nature is the main goal of the institute.

This laboratory develops green products and processes using renewable raw materials, clean energy and improves existing industrial processes to reduce their carbon and energy footprint. The rapid increase in carbon emissions is





a major challenge, mainly due to the increase in energy demand worldwide. Through plans and effective research and development, we are committed to conducting basic and applied research on downstream plantation products, developing, applying and transferring relevant knowledge, findings and research technology to enhance plantation processing and customized downstream product development. Sustainable development in oil processing makes it possible to introduce new products in the market (e.g. biodiesel, bio-lubricants, bio-jet oils and biosurfactants).

The strong emphasis on bio-based products is driven by a number of factors including climate change and global warming which caused by the releases of greenhouse gaseous, increased energy demand, dependence on fossil fuels, and the need to increase the efficiency of biomass utilisation for specific applications. Diversifying these new products and improving processing technology will definitely add value to plantation products.



## CONTACT US

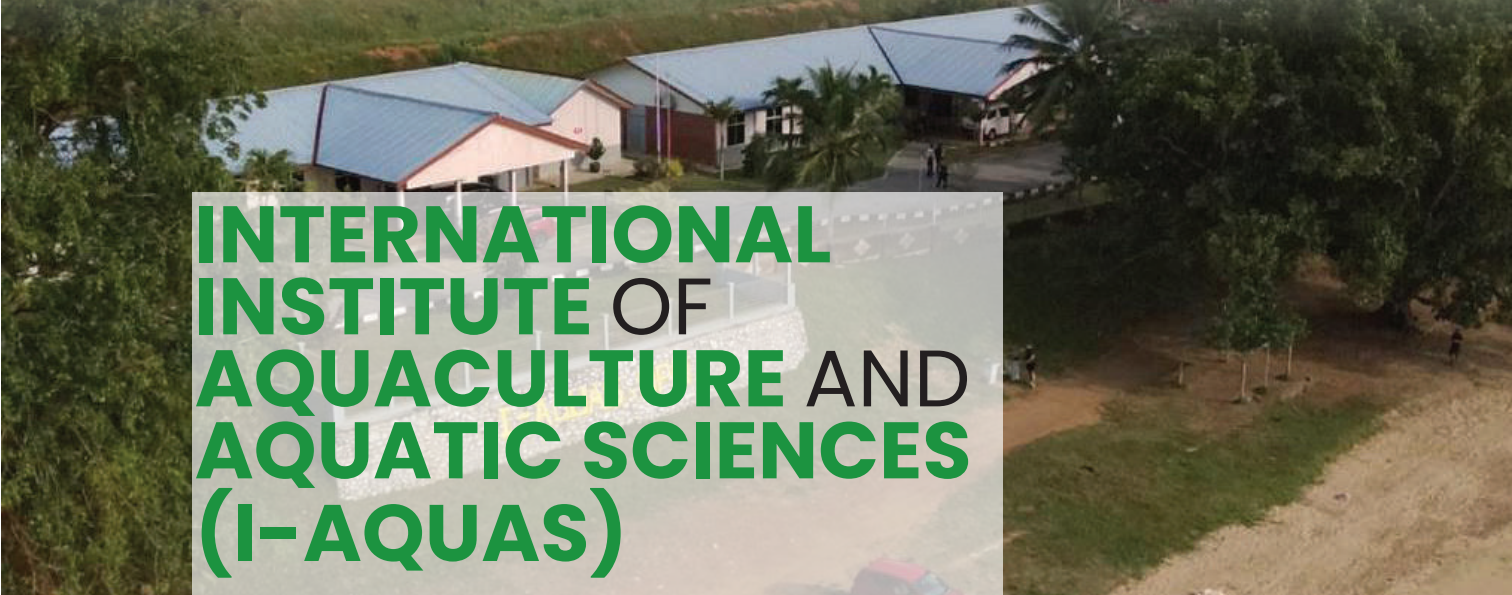
### Institute of Plantation Studies (IKP)

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1044

Email: [ikp@upm.edu.my](mailto:ikp@upm.edu.my)

Website: <https://ikp.upm.edu.my>



# INTERNATIONAL INSTITUTE OF AQUACULTURE AND AQUATIC SCIENCES (I-AQUAS)

**T**he International Institute of Aquaculture and Aquatic Sciences (I-AQUAS) is the newest research institute (established in December 2017) at UPM, offering a research platform in a wide range of disciplines pertaining to aquaculture and aquatic sciences. The institute has two research laboratories that are equipped with research facilities, including marine and freshwater hatcheries, for researchers to pursue their interest in aquaculture and ecosystem

**I-AQUAS specializes in aquaculture technology and the management of aquatic resources, with a primary focus on hatchery production targeting commercially significant**

management research. Currently, the institute accommodates scientists specialising in aquaculture, aquatic sciences, environmental studies, and engineering.

I-AQUAS specializes in aquaculture technology and the management of aquatic resources, with a primary focus on hatchery production targeting commercially significant species such as finfish, crustaceans, and molluscs, as well as ecosystem management in both marine and freshwater environments. Our interdisciplinary research in aquaculture is extensive, covering a range of areas, including fish and shellfish breeding, advanced nutrition, disease management, and culture systems. Additionally, our robust expertise in aquatic ecosystem management enables us to effectively assess the impacts of climate change, address the challenges of water pollution, and utilize aquainformatics technologies to improve our understanding and management of aquatic environments.





Despite being a recent establishment, I-AQUAS already has a solid history of collaboration with other academic institutions, government and industry on research, continuing a tradition inherited from the Centre of Marine Science (COMAS). This extensive network of international partnerships has significantly enhanced our research capabilities, positioning I-AQUAS as a prominent figure in aquaculture and aquatic sciences research in the region. Our connections with both local and international agencies and industries have been instrumental in securing research grants and technical assistance. At I-AQUAS, we are committed to becoming a globally recognized institute, dedicated to excellence and embracing the full spectrum of diversity in all its forms.

## Laboratories

- Laboratory of Sustainable Aquaculture
- Laboratory of Aquatic Ecosystem and Management

## Research Focus

- Breeding, Larval Rearing and Production System
- Nutrition, Live Food Culture and Feed Technology
- Aquaculture Technology
- Aquaculture Health Management
- Aquatic Ecosystem Health and Climate Change
- Aquatic Resources Management
- Aquainformatics Technology

## Fields of Study

- Aquaculture Biotechnology
- Aquaculture Engineering
- Aquainformatics
- Mariculture
- Marine Biology







## Achievements

I-AQUAS has made significant strides in advancing sustainable production practices for key aquatic species, including blue swimming crabs, giant freshwater prawns, and oysters. The incorporation of Internet of Things (IoT) technology into these practices has notably enhanced productivity and sustainability, marking a progressive step in the field of aquaculture. In addition to these advancements, I-AQUAS has also been actively involved in cultivating seagrass and seaweed. This diversifies and enriches the aquatic farming landscape, bolstering environmental sustainability and adding substantial value to the industry. Through collaborative research with industry partners, I-AQUAS has positioned itself as an influential player in the aquaculture sector. These partnerships ensure the practical relevance and application of its research, aligning with the needs of the industry. The organization's success is further underlined by the substantial research funding it has secured: RM4

million from international sources and over RM1.5 million from local grants. This financial support is essential for the continuation and expansion of its innovative research activities. Overall, I-AQUAS's approach, which combines cutting-edge technology like IoT with sustainable aquaculture practices, is innovative and impactful. It addresses key challenges in modern aquaculture while contributing to global food security and environmental stewardship.

### CONTACT US

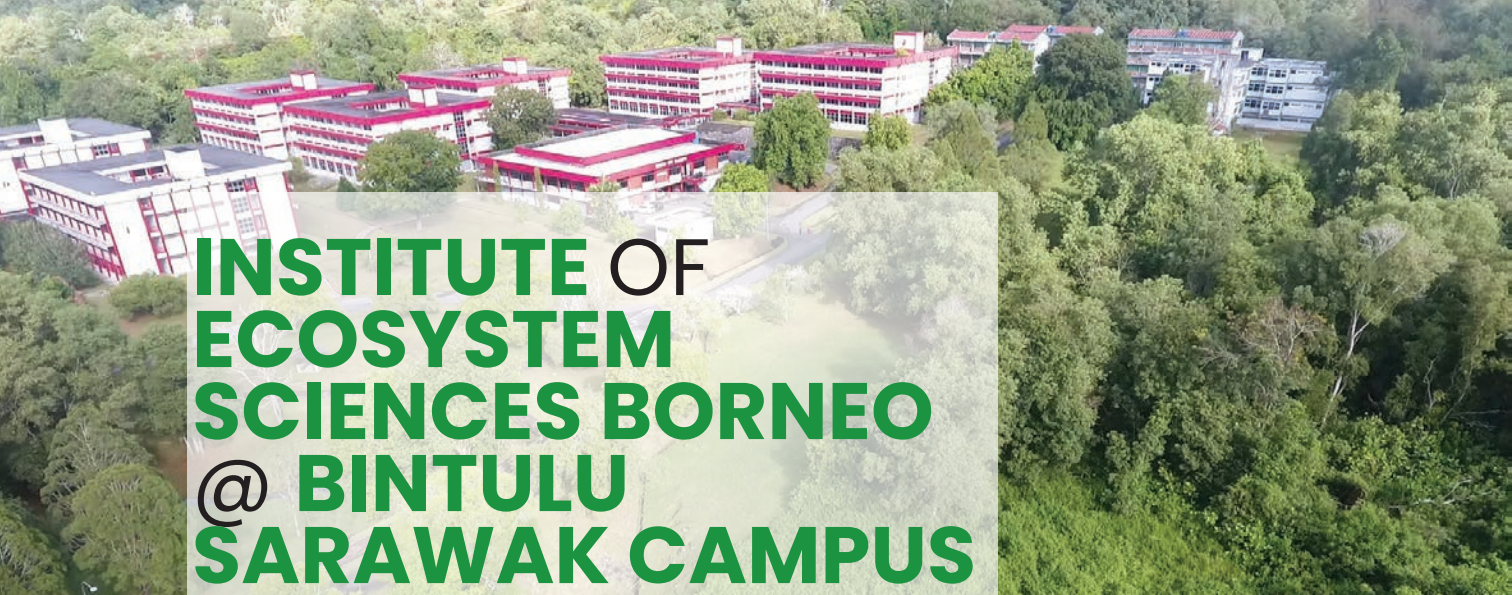
#### **International Institute of Aquaculture and Aquatic Sciences (I-AQUAS)**

Lot 960 Jln Kemang 6  
71050 Port Dickson  
Negeri Sembilan, Malaysia

Tel: +603-9769 8100

Email: [dir.i-aquas@upm.edu.my](mailto:dir.i-aquas@upm.edu.my)

Website: <https://i-aquas.upm.edu.my>



# INSTITUTE OF ECOSYSTEM SCIENCES BORNEO @ BINTULU SARAWAK CAMPUS

**I**nstitute of Ecosystem Science Borneo (IEB) at Universiti Putra Malaysia Bintulu Sarawak Campus, Malaysia is a research institute located on the island of Borneo in the central region of Sarawak, Malaysia. It was established on 15<sup>th</sup> March 2020.

There are two laboratories namely Biodiversity Borneo and Ethnic Borneo with research associates, research fellows, postdoctoral researchers, and research officers. The institute began as a Centre of Excellence in Tropical Forest Ecosystem Science (TROFES) in 2008 currently focuses on ecosystem quality. With its well-represented multidisciplinary researchers, several integrated and holistic studies are ongoing to improve ecosystem quality of forest and agricultural systems (soil, flora, fauna, and related communities)

## Research Focus Ecosystem Quality

### Enhancement of Ecosystem Quality

To improve ecosystem quality of forest and agriculture land through:

- Soil biodiversity knowledge
- Forestry practices
- Selected ethnic crops production (agronomic, post-harvest practices, and no waste management)

### Measuring Ecosystem Quality

To monitor and improve ecosystem quality of forest and agriculture land through:

- The use and improvement of agronomic and health indicators
- Application of Internet of Things (IoT)

### Socio-Economic Valuation of Ecosystem Quality

To evaluate the quality of ecosystem through:

- Socio-economic studies of communities involved of living in the vicinity of such community



## Research

### Biodiversity Borneo Laboratory

#### Programme

Organic and mineral soils interactions with plants

#### Synopsis

The Biodiversity Borneo Laboratory focuses on improving ecosystem quality using modern technology and new methods in agriculture and forestry which do not interfere with natural systems and do not cause harm with time. In addition, the existing health indicators will be thoroughly looked into to either improve them or come out with new ones.

The indicators could be within the interactions among soil, plant, water, and environmental factors. Also, there will be a focus on monitoring and improving ecosystem quality of forestry and agricultural systems using for example Internet of Things (IoT) in addition to adopting advance approaches such as restoring degraded forest through drone seeding of encapsulated viable seeds followed by long-term site specific management. This monitoring will enable us to improve or develop health indicators for effective and efficient management of forestry and agronomic quality.

### Ethnic Borneo Laboratory Programme

Sarawak Hill Paddy and Ethnic Crops' Ecosystem

#### Synopsis

Sarawak is a state rich in hill paddy varieties. Hill paddy is planted by ethnic farmers through traditional methods which result in low yield compared to national average. Thus, to improve the productivity and sustainability of Sarawak ethnic rice, we embark on the research in enhancing soil quality through biofertilizer application, producing biochar from hill paddy waste for soil improvement and improving soil management through optimal planting techniques. We will also seek to improve seed germination through seed priming, characterising the quality and varieties of hill paddy, improving post-harvest handling, and biocontrolling pests and diseases. This study will finally access the productivity, efficiency, and economic benefit among hill paddy farmers for future improvement of the farm's performance and management. Other selected Sarawak ethnic crops will also be researched to tap into their full economic potential for domestic and international markets.

#### Programme

Conservation of Traditional Knowledge for Paddy Planting in Sarawak





## Synopsis

Sarawak is well known for its diverse ethnicity and unique culture. Their traditional customs are known to be closely related to agriculture especially paddy planting, where every year Sarawakians celebrate the harvest festival locally known as Gawai Dayak. However, with modernisation, traditional customs face a threat of change which may influence their paddy planting practices. This programme will identify the traditional cultural practice of Sarawak's many ethnics in the aspect of paddy planting. Ethnic culture practices that may have positive and negative influences in sustainable paddy planting will be also identified. The conservation of traditional knowledge for a successful paddy planting in the state of Sarawak will be explored.

## Programmes Offered

### Postgraduates Studies

#### Master and PhD

- Agribusiness
- Agriculture Economics
- Agriculture Technology
- Agronomy
- Aerospace Engineering
- Biodiversity and Conservation of Natural Resources
- Bioresource Science and Technology
- Business Economics
- Catalysis
- Economics

- Entomology
- Environmental Hydrology and Hydrogeology
- Environmental Quality and Conservation
- Food Biotechnology
- Food Safety
- Forest Management and Ecosystem Sciences
- Land Resource Management
- Microbial Technology
- Microbiology
- Pest Management
- Renewable Energy
- Safety, Health, and Environment
- Soil Science



### CONTACT US

#### **Institute of Ecosystem Sciences Borneo@Bintulu Sarawak Campus**

Universiti Putra Malaysia Bintulu Sarawak Campus  
Nyabau Road,  
97008 Bintulu, Sarawak  
Malaysia

Tel: +6086 855 201

Email: [upmkb@upm.edu.my](mailto:upmkb@upm.edu.my)

Website: <https://btu.upm.edu.my>

# UPM Alumni Centre



# UPM ALUMNI RELATIONS CENTRE

In all graduation, hundreds of graduates had gathered their way to greater experiences in their younger days in UPM. They are ready to become a leader in society, industry and economy. Becoming professionals with the knowledge, skills and mindsets to move their respective countries ahead towards the next level. With empowered graduates returning to their hometown, the output from these graduates also benefits UPM in terms of improving our programme, facilities, teaching and learning modules, making UPM a popular choice by both local and global students.

UPM Alumni Relations Centre provides and facilitates strategic partnerships between UPM, the UPM Alumni Association (PAUPM), the public and other relevant parties. The Alumni Relations Centre also provides the platform for alumni and various industries to participate in UPM activities which strengthen and inspire alumni to excel in their personal and professional endeavours.

- Build a lifelong relationship with alumni and strengthen the bond with UPM Alumni nationally and internationally. Strengthen UPM to

pursue academic excellence with the support of alumni.

- Coordinate and manage income generation and help increasing the funding for scholarships and students' financial assistance.
- Develop and maintain the alumni corporate and public databank for UPM strategic advancement.
- Function as the liaison office to UPM Alumni Association (PAUPM) in branding UPM, while fostering a sense of pride and loyalty to the alma mater.

## UPM 50<sup>th</sup> Years Golden Jubilee Celebrations

In conjunction with the 50<sup>th</sup> anniversary of UPM establishment in 2021, the Golden Jubilee Celebrations were organised and promoted by the Alumni Relations Centre. This celebration was in line with UPM's achievements in strengthening its reputation internationally and consistently improving its position in world university rankings.



## UPM Alumni Day – 21<sup>st</sup> May

UPM Alumni Day is celebrated on 21<sup>st</sup> May every year. Founded on 21<sup>st</sup> May 1931 as School of Agriculture, this was the historical foundation for the establishment of College of Agriculture Malaya and UPM later on. Since then, it has transformed into a world-class university with students enrolling from over 70 countries. The Alumni Day was celebrated with events such as Musaadah Ramadan, Serdang Heritage Forum and alumni friendly sports like bowling, golf, rugby, badminton, netball, cycling and futsal. The main event for these celebrations were the ceremonies of Homecoming and Hi-Tea Alumni UPM Dulu-dulu.



## Homecoming and MEKAR

Homecoming is a tradition of celebrating UPM's alumni which serves as a platform for the alumni to meet old friends and acquaintances, strengthening friendships among alumni and alma mater, thus fostering the sense of belonging among alumni. In this event, the alumni will have a tour down memory lane together with former course mates, lecturers and new alumni.

MEKAR is a program with an objective to reunite the group of UPM alumni and have a reunion at the campus of Universiti Putra Malaysia. The first MEKAR was organised on 17<sup>th</sup> December 2021 at UPM Sport Stadium in which the UPM Alumni Serdang Bees gathered. The Alumni Relations Centre is committed to engage with the alumni for the sustainability of the UPM's legacy as outlined in the UPM Vice Chancellor's Narrative on 11<sup>th</sup> February 2022. Currently, a total of 13 MEKAR series has been organised and successfully gathered 595 alumni.

## UPM Alumni – Local and International Chapters

The growing number of local and international students in UPM has prompted the Alumni Relations Centre to develop a strong link with local and international alumni. They play a pivotal role in networking locally and in the internationalisation of UPM, which is in line with the UPM vision to be a globally renowned Research University. Several local chapters have been set up and are actively connected to UPM, such as Alumni UPM Association (PAUPM), Alumni Kolej Ketiga (FORTIGA) Association, Alumni Chapter UPMKB, Alumni UPM Chapter Sarawak, Kolej Pertanian Malaya '72 – '75, PK Intan '90, Alumni YOSH, Alumni PALAPES U-Putra Association (ALPUTRA), Cyperus, Alumni UPM Chapter Sabah, Alumni Medik Putra Association, Alumni UPM Chapter JPPPL, Alumni UPM Chapter OKU, Alumni UPM Chapter Astaka Seni, Alumni UPM Chapter Sastera dan Budaya and UPM International Alumni Chapter (UPMIAC).

CSA was initiated by ARCUPM in 2014 by appointing students from the College Representative Council (which is responsible for the Alumni secretariat) at their respective colleges and also open to all the students who are interested to participate.



## Warisan Budi Putra Clock Tower

The Warisan Budi Putra Clock Tower is the manifestation of appreciation towards the contribution of UPM alumni to its alma mater. This tower was officiated by His Royal Highness Tuanku Canselor UPM and will be located at open space near the Canselori Putra and Main Hall of The Sultan Salahuddin Abdul Aziz Shah Arts and Cultural Centre. Alumni names and contributors to the project since 2006 will be embedded to the 21 metre tower and this tower is estimated to be materialised in 2024.

## Alumni Information System (AIS)

AIS is a web portal developed by the Alumni Relations Centre to collect and update the data and profiles of UPM Alumni. This portal is intended to ensure that the information and profiles are always current, active and easily accessible for the announcements and publicise activities/programmes organised by UPM.

## Alumni Giving Back

We appreciate and highly value all the contributions and services done by the UPM alumni. The contributions from the UPM alumni illustrate a strong alumni community with a desire to develop the university to become a world class university.

Alumni Scholarships and Alumni Sponsorship are created to provide an opportunity for the alumni to join forces with their alma mater, providing a creative and innovative educational experience which will further strengthen the university success. The contribution and donation will be channelled to the Alumni Contribution Fund for the purpose of student's scholarship and financial assistance to students.

To date, 23 UPM alumni scholarships have been successfully established with 67 students' recipients. Deepest appreciation and gratitude goes to the UPM alumni scholarship sponsors namely Soh Kim Mee, Yayasan Said, Amco Niaga, Chapter

Cyperus 92', 2 Generasi, Norzack, Nuaim Corp, Pertubuhan Kebajikan Salak, Agrisc '94, Baktiga, TMJ, and the Chief Minister of Selangor.

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### CONTACT US

#### Alumni Relations Centre

Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 1017

Email: [alumni@upm.edu.my](mailto:alumni@upm.edu.my)

Website: <https://alumni.upm.edu.my>



# Contact Us

## GENERAL INFORMATION

Centre for Corporate Strategy & Relations  
3<sup>rd</sup> Floor, Canselori PUTRA® Building  
43400 UPM Serdang,  
Selangor Darul Ehsan, Malaysia  
Tel: +603-9769 6021  
Email: [pspk@upm.edu.my](mailto:pspk@upm.edu.my)  
Website: <https://upm.edu.my/>

## UNDERGRADUATES PROGRAMMES INFORMATION

Division of Admission & Division of Academic Governance  
1<sup>st</sup> Floor, Canselori PUTRA® Building  
43400 UPM Serdang,  
Selangor Darul Ehsan, Malaysia  
Tel: +603-9769 6060  
Email: [akd@upm.edu.my](mailto:akd@upm.edu.my)  
Website: <https://akademik.upm.edu.my/>

## POSTGRADUATE PROGRAMMES INFORMATION

School of Graduate Studies  
43400 UPM Serdang,  
Selangor Darul Ehsan, Malaysia  
Tel: +603-9769 4225  
Email: [dean.sgs@upm.edu.my](mailto:dean.sgs@upm.edu.my)  
Website: <https://sgs.upm.edu.my/>

## MOBILITY PROGRAMMES INFORMATION

PUTRA® International Centre  
43400 UPM Serdang,  
Selangor Darul Ehsan, Malaysia  
Tel: +603-9769 7972  
Email: [mobility@upm.edu.my](mailto:mobility@upm.edu.my) / [intl@upm.edu.my](mailto:intl@upm.edu.my) / [head.intl@upm.edu.my](mailto:head.intl@upm.edu.my)  
Webiste: <https://intl.upm.edu.my/>

## Social Media

Facebook and Instagram: [@iputraupm](#)  
Youtube: [iputraupm](#)







 UniPutraMalaysia  @uputramalaysia  uniputramalaysia  Putra TV  uniputramalaysia

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