



WITH KNOWLEDGE WE SERVE

PROSPECTUS 2020-2021

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WITH KNOWLEDGE WE SERVE
PROSPECTUS 2020-2021

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WITH KNOWLEDGE
WE SERVE



AGRICULTURE
INNOVATION
LIFE

WHY UPM?



TOP 200

TOP 200 UNIVERSITIES IN THE WORLD FOR 22 SUBJECTS

33rd

QS ASIA UNIVERSITY
RANKINGS

10th

QS QS WORLD TOP 50
UNDER 50

132nd

QS WORLD UNIVERSITY
RANKINGS 2021



UPM
UNIVERSITI PUTRA MALAYSIA
BERILMU BERBAKTI

We are in the top 15 percent
of universities worldwide and
we are aiming higher everyday

28th

**UI GREEN METRIC
(WORLD UNIVERSITY
RANKING)**



601-800



42nd

**U.S NEWS BEST GLOBAL
UNIVERSITIES RANKING
(Agricultural Sciences)**

145th

**THE ASIA UNIVERSITY
RANKINGS**

STUDY ABROAD IN MALAYSIA AND FEEL AT HOME IN UPM

Malaysia is a beautiful and peaceful country that promises you an enriching and exhilarating living and studying experiences.

Malaysia comprises of two regions – Peninsular Malaysia or West Malaysia and East Malaysia located on the island of Borneo – which are separated by the South China Sea. It is unique when it comes to the diversity of its people, for here, the Malays, Chinese, Indians, Ibans, Kadazans and other ethnic groups live in harmony as Malaysians. Even though they are made up of people of different races and faiths speaking a variety of languages, Malaysians practice a great deal of respect and acceptance towards each other which ensures peace and stability that is enduring and meaningful. The multiculturalism that is distinct to Malaysia has also made it home to several colorful festivals which are celebrated grandly throughout the year.

Known for their warm and friendly nature, Malaysians will make your stay with them and share their lives together, an experience that you will cherish forever. Despite being a rapidly developing nation, Malaysia maintains a wonderful cultural balance between modern living and long entrenched traditions, even in a bustling metropolis like Kuala Lumpur. The country's towering modern skyscrapers distinctly contrast with the quaint, traditional wooden houses built on stilts that are found in the numerous villages, located in the rural areas across the country. Experience the best of both worlds when you choose to pursue your education in this enchanting and exotic country of more than 30 million people.

The country experiences a tropical climate with years round temperature ranging from 21°C (70°F) to 32°C (90°F). Bahasa Melayu or Malay is the national language, but English is widely spoken by almost all Malaysians. A fast-developing nation,

Malaysia has the best infrastructure facilities in Asia including ultra-modern airports, huge seaports and multi-lane highways and intercity rail service to provide easy connectivity and access. It is also blessed with a vibrant economy that has made the country an industrial and commercial powerhouse in Southeast Asia.

The busy cities and idyllic villages, combined with the miles of beautiful beaches, emerald islands and verdant forests teeming with myriads of fauna and flora, altogether make the country a learning experience that is unmatched anywhere.

Malaysia is currently ranked as the world's 11th most preferred study destination by UNESCO. This is due to the high standards and quality of education being offered in Malaysia and the Government of Malaysia's clear vision in making Malaysia into a high-quality education destination for students from all over the world. With more than 30 years of experience in international education, and with close to 100,000 international students currently studying in Malaysia, education in Malaysia is taken seriously by its government which has a vision to turn the country into a high-quality educational hub for international students. The country's Ministry of Education closely monitors all institutions to ensure that they adhere to the highest educational standards. Malaysia also declares its qualifications and the quality in relation to its education system through the Malaysian Qualifications Framework (MQF). The MQF is an instrument that develops and classifies qualifications based on a set of criteria that are approved nationally and benchmarked against international best practices.

As a result, many reputable foreign universities from countries like the United States, the United Kingdom, Australia and New Zealand have either opted to set up branch campuses in Malaysia or enter into collaborations with Malaysian educational institutions. Studying in Malaysia does not only mean you stand to obtain quality higher education at very affordable rates; it also translates to having one of the best cultural experiences in the world.



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MESSAGE FROM THE VICE CHANCELLOR

WELCOME TO UNIVERSITI PUTRA MALAYSIA

With your school days coming to an end, you will soon be faced with the need to make some of the most significant decisions of your life. The choices you make - of which qualification to pursue, and of which university you would like to see yourself being a part of - will play formative roles in moulding the entire direction of your adult life.

The university you choose will be the centre around which your world will revolve for the next few years. In it, you will encounter your greatest support system, a second home, your greatest inspirations and the unfolding of an entirely new chapter of your life which will see you maturing into a successful professional all set to take on the world.

At Universiti Putra Malaysia lovingly referred to as UPM, quality and excellence prevail in all areas. Although our niche is in agriculture as our tagline, Agriculture. Innovation. Life.

Suggests, our educational philosophy is highly multidisciplinary in nature. Functioning under the motto, With Knowledge We Serve, our objectives are single-mindedly rooted towards producing exceptionally well-informed, innovative and independent leaders of tomorrow. We pursue, appoint and nurture the finest minds in the country who are entrusted to shape your dreams, guide your academic achievements and steer you into arriving at discerning decisions about your future. Our academics are also our world-class multidisciplinary researchers; hence, the research culture integrating knowledge and innovation that they are steeped in, will also be a legacy you are left with, as you graduate from UPM and move on to build a career of your own.

UPM is now ranked 33rd in Asia and world's number 132nd in the QS World University

Rankings 2021. Our commitment in aiming for excellence in education is well balanced by our concerns for the environment in which our students are groomed in. The 28th world ranking, 3rd in Asia and 1st in Malaysia that UPM achieved in the UI-Greenmetric World University Rankings 2019 speaks volumes about our commitment to sustainability. UPM's campuses, both in Serdang, Selangor (main campus) and Bintulu, Sarawak (branch campus) are among the greenest found in the country; and are perfectly complemented with excellent amenities and state-of-the-art facilities and services.

As one of Malaysia's premier universities with a long-established reputation for teaching and research excellence with approximately 28,098 undergraduate and postgraduate students, UPM has over the years become a favoured choice for international students. And so, when you choose to study at UPM, you will find yourself intellectually networking with students from over 80 countries from all over the world. Imagine the scope of unparalleled cultural knowledge and experience that you stand to gain by choosing to be a part of UPM! And that's not all. Students can also count on UPM to effectively cater to their social needs for there are a wide range of on-campus exciting activities made readily available for students, which include, sports, cultural exchanges, mobility programmes, etc.

What we are eager to offer you is a world of opportunities to meet all your aspirations and goals. Decide today to make Universiti Putra Malaysia your academic home for the next few years and allow us to turn you into a leader and innovator of the future.

Indisputably, UPM is one of the best investments for your future!

Best wishes!

'WITH KNOWLEDGE WE SERVE'

**PROF. DATIN PADUKA SETIA DATO' DR. AINI
IDERIS, FASc.**
SSIS, DPMK, DSIS, PSK, KMN
Vice Chancellor, UPM



INTRODUCING UNIVERSITI PUTRA MALAYSIA

Located approximately 22 kilometres from Malaysia's capital city, Kuala Lumpur, UPM is one of the five designated Research universities (RU) in Malaysia that is deeply committed to the discovery and distribution of knowledge. Founded in 1931 and known internationally as one of the more distinguished universities in the region, its academic disciplines include Engineering; Agriculture; Forestry; Veterinary Medicine; Medicine and Health Sciences; Economics and Management; Educational Studies; Science; Food Science and Technology; Human Ecology; Modern Languages and Communication; Design and Architecture; Computer Science and Information Technology; Biotechnology and Biomolecular Sciences; and Environmental Sciences.

A multidisciplinary university with 89-year history, UPM is strategically located within Malaysia's ambitious Multimedia Super Corridor (MSC), a Malaysian Government designated zone designed to propel the country into the information technology age. As one of the largest universities in Malaysia, UPM is also a key player

in contributing to the growth of learned and skilled human capital in the nation. UPM presently has more than 27,561 students enrolled in its 82 bachelor, 7 diploma, 62 coursework programmes and 5 research programmes at the Masters and PhD levels (with more than 289 fields of studies). Except for the diploma programmes and three undergraduate programmes which are offered exclusively at UPM's branch campus in Bintulu, Sarawak, all other courses are offered at the main campus in Serdang, Selangor. Knowledge is the core of all activities at UPM, as depicted in its slogan "With Knowledge We Serve". By upholding this philosophy in the execution of all its endeavours, UPM aims to inspire its academic community towards teaching and research excellence; and ultimately towards the material and spiritual betterment of society. UPM possesses all the necessary qualities and resources to be at par with renowned local and international institutions of higher learning, your decision to join UPM will promise you a world of opportunities that will certainly enrich your life and future.



27,561
STUDENTS ENROLLED



82
BACHELOR



7
DIPLOMA



62
PROGRAMMES BY
COURSEWORK



5
PROGRAMMES
BY RESEARCH



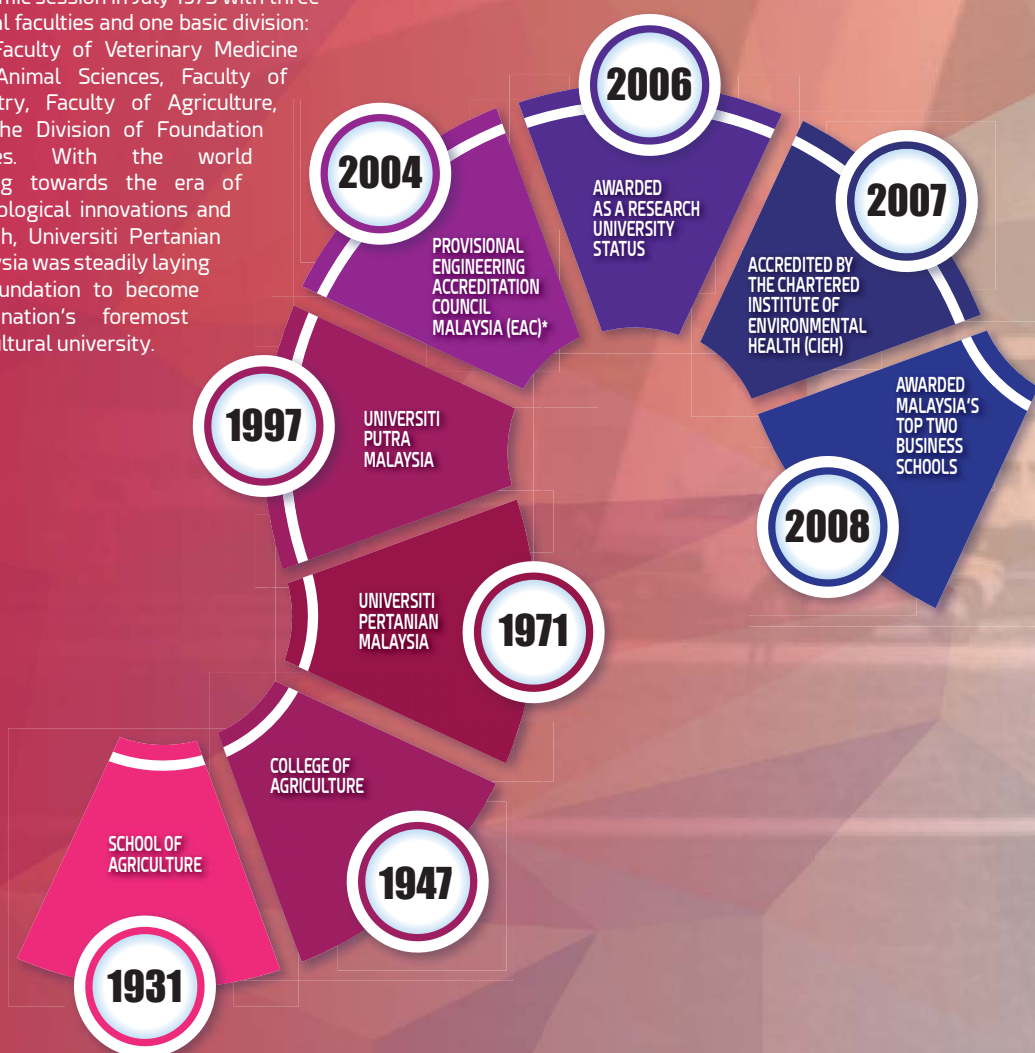
289
FIELDS OF STUDIES



HISTORICAL

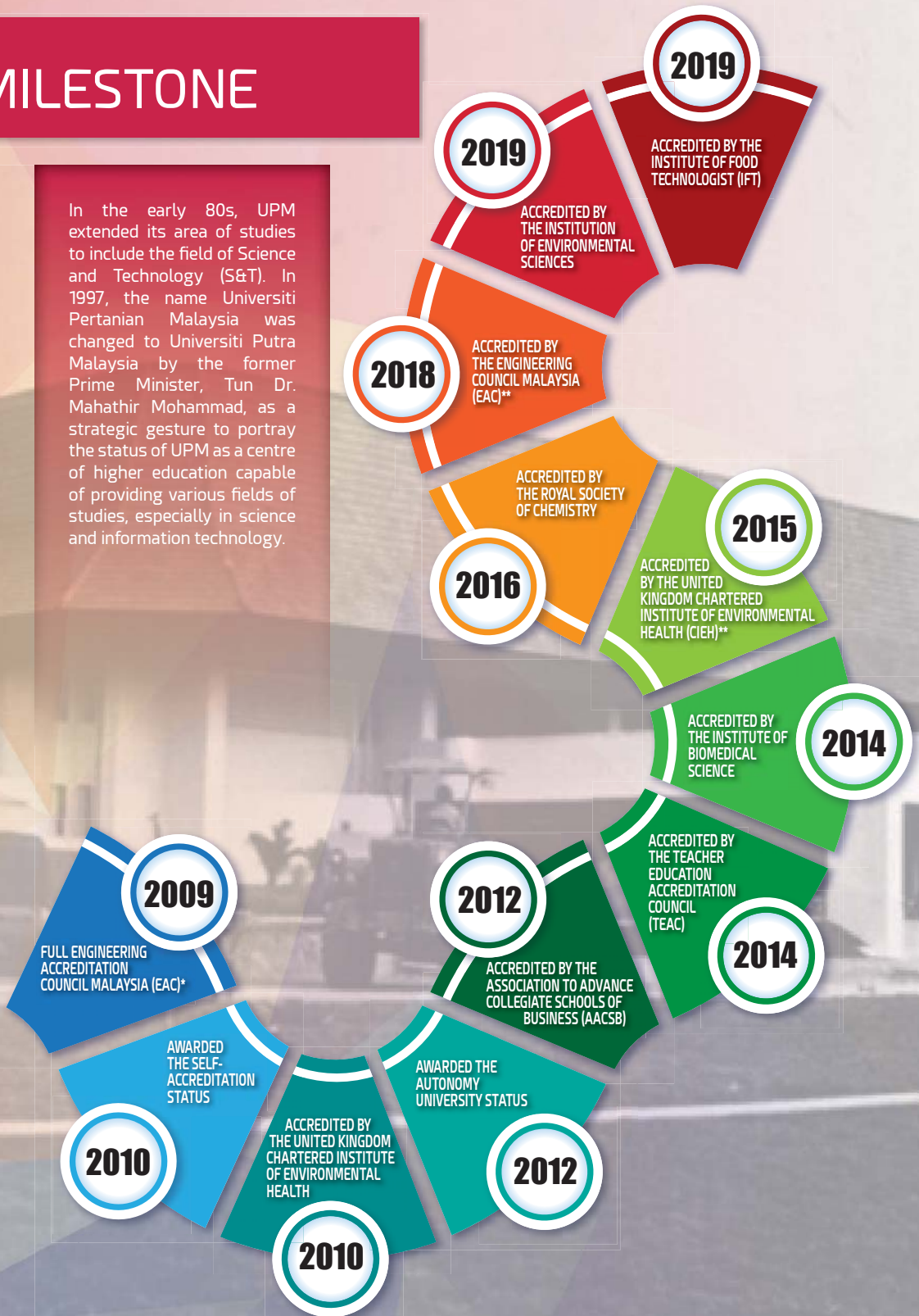
Universiti Putra Malaysia was first established as the School of Agriculture in 1931. The school was located on a 22-acre piece of land in Serdang and offered two programmes - a three-year diploma programme and a one-year certificate course in Agriculture. In 1947, the school was declared the College of Agriculture Malaya by Sir Edward Gent, the then Governor of the Malayan Union. The establishment of Universiti Pertanian Malaysia came about when the College of Agriculture in Serdang merged with the Faculty of Agriculture, University of Malaya. Dr. Mohd. Rashdan bin Haji Baba, the then principal of the College of Agriculture Malaya, was appointed as the first Vice Chancellor by virtue of the provisions of Section 18 of the Universities and University Colleges Act, 1971.

With the first intake of 1,559 students, Universiti Pertanian Malaysia had its first academic session in July 1973 with 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. With the world moving towards the era of technological innovations and growth, Universiti Pertanian Malaysia was steadily laying its foundation to become the nation's foremost agricultural university.



MILESTONE

In the early 80s, UPM extended its area of studies to include the field of Science and Technology (S&T). In 1997, the name Universiti Pertanian Malaysia was changed to Universiti Putra Malaysia by the former Prime Minister, Tun Dr. Mahathir Mohammad, as a strategic gesture to portray the status of UPM as a centre of higher education capable of providing various fields of studies, especially in science and information technology.



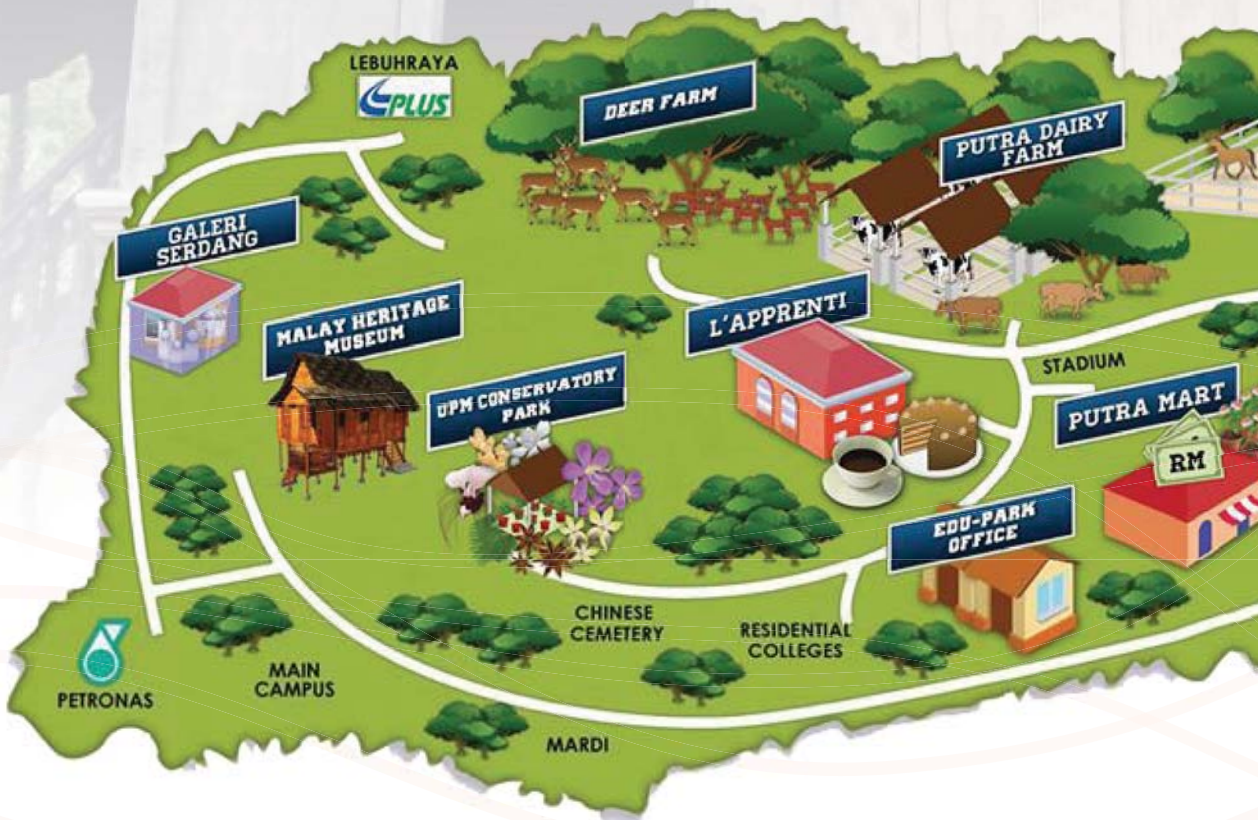




CAMPUS LIFE

eDU-PARK®

Within the campus grounds is located an experiential learning park which is an amazing gateway to a visual and interactive learning experience that is unmatched by any other centres 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 experience with animals, plants and visually exciting exhibitions.

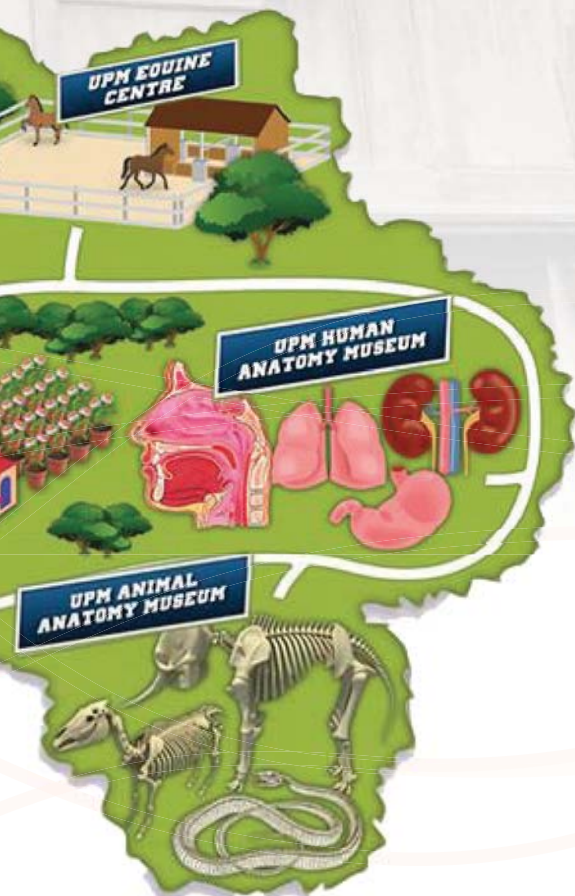


Open to adults and children of all ages, the eDU-PARK® comprises an Equine Centre where you can learn everything you need to know about horses and even ride them, a Dairy Farm that offers a deep insight into cattle farming, breeding and production of dairy products and an awe-inspiring Deer Farm where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



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 agricultural produce from the **PUTRA**® Mart and also go on a tour of UPM's 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 L'apprenti Restaurant and Café at the eDU-PARK®, probably the only one of its kind in the region.



Contact us:
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Tel: +603- 9769 1413 / +603- 9769 1414
Email: edupark.upm@gmail.com
Website: <https://sciencepark.upm.edu.my/>

CAMPUS FACILITIES



STUDENT PORTAL

The InfoComm Development Centre (iDEC) has developed the **PUTRA®** Student Portal as the main gateway for the students to easily access their personal information with a single-ID login. This ICT service is available to all students. They are provided with a username and password the moment they enrol.

UPM has also moved towards virtual identification technology whereby students are currently provided with the **PUTRA®** Virtual Identity (**PUTRA®** VID) instead of the conventional matric card.



ICT FACILITY

UPM's ICT infrastructure and infostructure provide a range of facilities and services to support students with their ICT-related needs. Wireless hotspots, access to Internet, software and other online resources including the library e-resources/e-journals and student portals are readily available throughout the University.

SULTAN ABDUL SAMAD LIBRARY

The Sultan Abdul Samad Library comprises of the Main Library and 4 branch libraries i.e The Medical and Health Science Library, Engineering and Architecture Library, Veterinary Medicine Library and Bintulu Campus Branch Library. It has a seating capacity that can accommodate up to 2,000 students at any one and is fully WIFI enabled. In order to support the university's learning, teaching and research activities, the library provides an immense amount of over half a million of educational and research materials and resources in both print and electronic formats. Beside this, the library users can conveniently access within campus and remotely via Ezaccess to online databases in various fields subscribed by the library. The Library also development its' in-house resources to enhance its visibility and to provide more resources to its users, among which is the UPM Institutional Repository (UPMIR) which is indexed by Google Scholar, UPM e-Theses, MyAgric and Memory@Serdang. A set of Liaison Librarians, librarians assigned to a department(s) on campus and Research Librarians will serve as a communication bridge between the library system and its users to provide support for teaching, learning, and research. The Library is easily followed through Facebook, Twitter and Instagram for its latest update.

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.





UNIVERSITY AGRICULTURAL PARK

Set up in 2001, the park is designed to facilitate on-site teaching and learning and conduct research in agriculture. The park provides students with actual practical assignments in an eco-system that serves as an ideal training ground.

TRANSPORTATION

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 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

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 a main stadium for track and field events, a multipurpose hall (for indoor games such as squash, netball, sepak takraw, volleyball, basketball), a 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

There are many choices of cafeteria, restaurants and food stalls available within the campus and in the surrounding neighbourhood. Food can be obtained at any hour, because besides the cafeterias at faculties, many eateries in the vicinity are open 24 hours. Among well-known fast-food joints available in the vicinity are McDonalds, Kentucky Fried Chicken, Secret Recipe, Texas Chicken to name a few.

HEALTH AND WELFARE

All international students can access outpatient clinic services provided at the University Health Centre which is located within the campus. The health centre provides a comprehensive array of health services and is well-equipped with modern facilities and pharmaceutical amenities which enable the efficient provision of effective health and dental services to all registered students and staff. Among facilities and services available at the centre are medical, dental, x-ray, physiotherapy, ambulance service, dispensary, laboratory.

COUNSELLING SERVICES

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

Counseling is an interaction process between a professional counselor and a client whose counselors 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.



UPM LIVING

THIS IS A HOME WITH THE EXPERIENCE THAT STUDENTS WILL WANT TO TAKE AWAY WITH THEM WHEN THEY GRADUATE. THE EXPOSURE HERE IS STIMULATINGLY FUN AND THROUGHOUT YOUR STAY AT UPM, YOU WILL ENJOY INTERACTING WITH YOUR PEERS, MAKING DECISIONS, 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.

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.

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 (2) 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 USD65 (one week) – USD250 (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;

- | | | | |
|-----------------------|---------------------------------|--------------------------|------------------|
| 1) Afghanistan | 21) Sweden | 41) Nigeria | 61) Rwanda |
| 2) Japan | 22) Chad | 42) Tunisia | 62) Yemen |
| 3) Singapore | 23) Libya | 43) Ethiopia | 63) Iran |
| 4) Algeria | 24) Syrian Arab Republic | 44) Oman | 64) Saudi Arabia |
| 5) Jordan | 25) China | 45) Uganda | 65) Zimbabwe |
| 6) Somalia | 26) Macedonia | 46) Fiji | 66) Iraq |
| 7) Bangladesh | 27) Taiwan | 47) Pakistan | 67) Sierra Leone |
| 8) Kazakhstan | 28) Cocos (Keeling) Island | 48) Ukraine | 68) Qatar |
| 9) South Africa | 29) Maldives | 49) Gambia | 69) Senegal |
| 10) Brunei Darussalam | 30) United Republic of Tanzania | 50) Palestine | 70) Seychelles |
| 11) Kyrgyzstan | 31) Colombia | 51) United Arab Emirates | 71) Somalia |
| 12) Sri Lanka | 32) Mauritania | 52) Germany | 72) Australia |
| 13) Cambodia | 33) Thailand | 53) Philippines | 73) Bahrain |
| 14) Kenya | 34) Cote Divoire | 54) United States | 74) Eritrea |
| 15) Sudan | 35) Mauritius | 55) Ghana | 75) Guinea |
| 16) Cameroon | 36) Turkey | 56) Puerto Rico | 76) France |
| 17) Korea | 37) Djibouti | 57) Uzbekistan | 77) Liberia |
| 18) Swaziland | 38) Myanmar | 58) India | 78) Macau |
| 19) Canada | 39) Turkmenistan | 59) Russia | 79) Morocco |
| 20) Laos | 40) Egypt | 60) Indonesia | 80) New Zealand |

INTERNATIONAL SUPPORTS

According to QS Top Universities Ranking 2019, Malaysia is the top 1 best country to study in Asia and University Putra Malaysia is in the top 3. Over the years UPM has received increasing numbers of international students for full-time study and mobility. 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 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 RM1,500.00 – RM2,000.00 (USD400 – USD530) 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 apparels, books, transportation, travelling and etcetera.

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 readily 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. This effective January 1st 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 can be applied online and take approximately 6-8 weeks to complete. Once the student receives an e-VAL from the EMGS, they then need to obtain Single Entry Visa (SEV) at overseas Malaysian Embassy/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 (intlupm.edu.my) or via phone +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's 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 and to university's vision.

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 historic 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 4,000 international students currently enrolled in UPM.

SAFETY

The safety of its student is the utmost priority hold by UPM. In order to keep everyone safe on campus, UPM's security personnel patrols the campus round the clock and are always ready to provide their assistance whenever and wherever necessary.

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 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 = RM4.10 (as of January 2019) 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, exception can be given on a case by 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.

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Social Media: @putrainternational_upm

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

ASSOCIATIONS / CLUBS

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 Christians

ASSOCIATION OF ARTS, CULTURE AND RAKAN MUDA

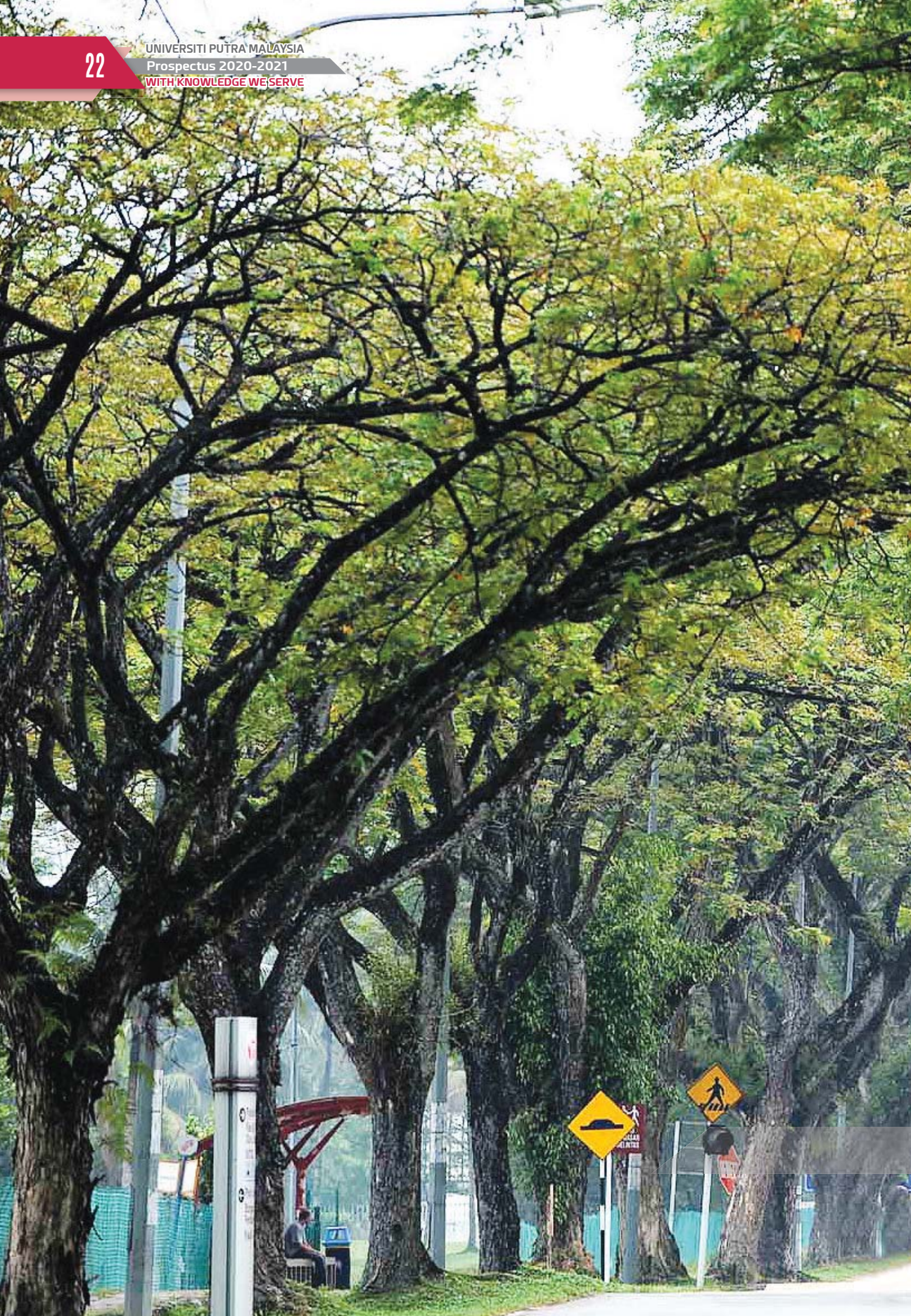
UPM is home to a large percentage of foreign students. Combined with the various ethnic groups of Malaysia, UPM offers an opportunity for students to mix, learn and understand their common values without harping on their differences. Here students celebrate their cultures by participating in various 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

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

Contact us:
STUDENT AFFAIRS DIVISION
Ground Floor, Canselor PUTRA® Building
43400 UPM Serdang
Selangor Darul Ehsan

Tel: +603-9769 6075
Email: 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

UPM RESEARCH CLUSTERS

1. Agriculture and Food (AF)
2. Applied Sciences and Engineering (ASE)
3. Biosystems and Biotechnology (BB)
4. Business, Economics and Governance (BEG)
5. Environment and Energy (EE)
6. Forestry and Biodiversity (FB)
7. Humanities and Nation Building (HNB)
8. Halal Sciences and Management (HSM)
9. Health and Well-being (HWB)
10. Mathematical Sciences and ICT (MSICT)
11. Materials Sciences and Technology (MST)



SCIENCE PARK



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 RM65 million in 2019 from the government agencies, industry sectors and international bodies, which is used for multidisciplinary research besides creating the right environment for students to carry out quality research. This has yielded some exciting discoveries, most notably ZAPPA – rice seeds germination enhancer and VITO GROW, which promotes plentiful yield. These findings have generated about RM23.7 million in sales and boosted the production capacity of rice farmers in the country and region. Other notable UPM developed commercialised products and technologies are:

- Fowl Pox Vaccine - Tissue Culture Adapted
- Newcastle Disease Vaccine
- V4-UPM - Heat Resistance Strain
- FAST TARGET - White Spot Virus Detection Kit

- StellarLac - Chicken Probiotic Technology
- Fibre / Duplexer Module (FDM)
- Stone Mastic Asphalt with Cellulose Oil-palm Fibre
- MyVACUPM93 - Infectious Bursal Disease Vaccine
- MRTLatex - for Rapid Measurement of Dry Rubber Content
- BACTERIOCIN UL4 - Anti-microbial Compound
- KUSTEMVax - Mannheimiosis Vaccine
- Trichogreen - Biocontrol Agent and Growth Enhancer (Oil-palm)
- AJIB - Crystalline Water Soluble Fertiliser
- EDU-enzyme Assay Educational Kit
- Biotropics Palm Leaf Extract
- Cattle Breeding
- Monogastric Animal Feed
- CNG Composite Tank
- Satiri Superdwarf - Turf Grass
- High Quality Orchid Micro-propagation
- Biogas and Biomass Solid Wastes
- Composting of Bio-acids and Bio-plastic
- Composting from Sewage Wastes



STUDENT MOBILITY PROGRAMMES

MOBILITY PROGRAMMES (INBOUND & OUTBOUND)

UPM 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® 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 PROGRAMME

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 1-week programme to 12 months of duration.

1. Semester Exchange (1-2 sem)

In this type of programme, the inbound student spends a whole semester attending classes together with full-time students. They can then transfer the course credits earned at UPM back to their home university. That means that the home university accepts that the courses taken by their students while with UPM are of an equivalent standard to the courses in their own university.

2. 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.

3. 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.

4. Visits/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 School is a mobility programme designed and managed by University Putra Malaysia, offering a well-structured and diverse learning experience for its participants. With modules offered by 16 faculties and the Centre for the Advancement of Language Competence (CALC), the programme offers an array of academic and authentic cultural experiences.

Each module takes a minimum duration of 14 days to complete. The fee for the programme ranges from USD700 to USD3,600 per participant. The fee is inclusive of accommodation, meals, transportation, learning materials and outdoor activities.

1. **PUTRA®** Agriculture Summer Programme
2. Tropical Forest Trail
3. Vet Summer Programme 2018



4. Kuala Lumpur Summer Business Program @ UPM
5. ExplorENG Summer Programme (True Engineer Thru Exploration)
6. Traditional Malay Sports, Culture and Nature
7. Malaysian Food Heritage Summer
8. Embracing Malaysian Cultural Diversity and Heritage
9. Escapade: An Interactive Multicultural Journey through Languages
10. Bio-Trek: The Life Science Experience
11. Summer School for Environmental and Occupational Health Professionals
12. The CSIT_TEX Summer Programme
13. **PUTRA®** Architecture Summer School 5 (PASS 5.0)
14. **PUTRA®** Architecture Summer School 2 (PASS 2.0)
15. Fun with Nature
16. ISS: An Interactive Multicultural Journey through Biodiversity
17. Language & Culture Course
18. Malay and Language Culture Course
19. **PUTRA®** BioXplore

SEMESTER IN UPM

UPM practices the semester system with two for the academic session. Every semester consists of fourteen 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.intLupm.edu.my. Few documents are needed upon application as per below:

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

student level of English.

- d. Scanned copy of student passport.

CLOSING DATES FOR APPLICANTS

UPM's 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 3 months prior to the semester begins. The deadline for submission is as follows:

Semester 1 (September intake): 30th April

Semester 2 (February intake): 30th 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.intLupm.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.

For more info, kindly contact mobility section at:

PUTRA® INTERNATIONAL CENTRE
43400 UPM Serdang
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 7972

Email: mobility@upm.edu.my /

intl@upm.edu.my/ head.intl@upm.edu.my

Website: <https://intlupm.edu.my/>

Social Media: @putrainternational_upm



UNDERGRADUATE PROGRAMMES

UPM HAS 16 FACULTIES AND A CENTRE OFFERING A VARIETY OF ACADEMIC PROGRAMMES TO MEET THE CURRENT NEEDS OF STUDENTS. 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 OFFERED 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 related services to academic matters such as the Senate Management, Curriculum Management, Student Admission, Course Registration, Lecture Final Examination Scheduling, Preparation of Final Examination Venue and Final Examination Results, electronic Student Management System, Graduation and Convocation Ceremony Management.

UPM practices the semester system, with two semesters for every academic session. Every semester consists of fourteen weeks of study and students will be evaluated via continuous evaluation inclusive of the 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 a bachelor programme is 120 credits 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 | (Honours) Second Class Upper Honours |
| 2.250 – 2.999 | (Honours) 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
- Have fulfilled special requirements for the programme i.e. attaining 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 the details please visit www.esmp.upm.edu.my/promosi.

International Candidates Requirement:

Entry requirement for international candidates can be accessed at www.akademik.upm.edu.my/ad_bac#ad_bac.

Diploma Programme

A candidate must have obtained a Malaysian Certificate of Education (SPM) or its equivalent with minimum 5 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.

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 Sciences
Faculty of Computer Science and Information Technology
Faculty of Biotechnology and Biomolecular Sciences
Faculty of Environmental Studies
Faculty of Agriculture and Food Sciences
@ Bintulu Campus
School of Business and Economics



PROGRAMMES OF STUDY

FACULTY OF AGRICULTURE

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

FACULTY OF FORESTRY AND ENVIRONMENT

Bachelor of Forestry Science (4 years)
Bachelor of Wood Science and Technology (4 years)
Bachelor of Parks and Recreation Science (4 years)
Bachelor of Environmental Science and Technology (4 years)
Bachelor of Environmental Management (4 years)

FACULTY OF VETERINARY MEDICINE

Doctor of Veterinary Medicine (5 years)

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)

FACULTY OF EDUCATIONAL STUDIES

Bachelor of Science Human Resource Development (4 years)
Bachelor of Physical Education (4 years)
Bachelor of Education in Guidance and Counselling (4 years)
Bachelor of Education (Teaching of Malay as the First Language) (4 years)
Bachelor of Education in Teaching English as A Second Language [TESL] (4 years)
Bachelor of Education (Home Science) (4 years)
Bachelor of Education in Agricultural Science (4 years)
Bachelor of Counselling (4 years)

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 with Education (Honours) Major in (4 years)

- Biology
- Physics
- Chemistry
- Mathematics
- Statistics

FACULTY OF FOOD SCIENCE AND TECHNOLOGY

Bachelor of Food Science and Technology (4 years)
Bachelor Science (Food Studies) (4 years)
Bachelor Science (Food Service Management) (4 years)

FACULTY OF HUMAN ECOLOGY

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

FACULTY OF MODERN LANGUAGES AND COMMUNICATION

Bachelor of Communication (3 ½ years)
Bachelor of Arts (3 ½ years) - Major in

- English Language
- Malay Language and Linguistics
- Malay Literature
- English Literature

Bachelor of Arts (Foreign Language) (3 ½ years)
- Major in

- Mandarin
- Arabic
- French
- German

FACULTY OF DESIGN AND ARCHITECTURE

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

FACULTY OF MEDICINE AND HEALTH SCIENCE

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

FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

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

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 AGRICULTURE AND FOOD SCIENCES (UPMKB, SARAWAK)

Bachelor of Bioindustrial Science (4 years)
Bachelor of Agriculture (Aquaculture) (4 years)
Bachelor of Forestry Science (4 years)
Diploma in Agriculture (2 years)
Diploma in Fisheries (2 years)
Diploma in Forestry (2 years)
Diploma in Animal Health and Husbandry (3 years)
Diploma of Food Estate Management (2 years)
Diploma in Agribusiness (3 years)
Diploma in Agricultural Engineering (3 years)

SCHOOL OF BUSINESS AND ECONOMICS

Bachelor of Accounting (4 years)
Bachelor of Economics (4 years)
Bachelor of Business Administration (4 years)

FOUNDATION STUDIES FOR AGRICULTURAL SCIENCE

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.

Foundation for Agricultural Science 1 year.

APPLICATION DEADLINE

All applications for undergraduate admission from local applicants must be made online through the Student Admission Management Division, Department of Higher Education, Ministry of Education, Malaysia subject to the deadline.

All applications from International applicants must be submitted online via www.smp.upm.edu.my/admissionUG and the complete supporting documents must reach the Admission Division, Universiti Putra Malaysia latest by 30th June for the September intake or 30th November for the February intake. However, please be informed that only selected programmes are offered for the February intake and the details can be accessed at www.akademik.upm.edu.my.

All enquiries pertaining to undergraduate programmes in UPM can be sent to:

DIVISION OF ADMISSION & DIVISION OF ACADEMIC GOVERNANCE
43400 UPM Serdang
Selangor Darul Ehsan, Malaysia

Tel: +603 9769 6060

Email: akd@upm.edu.my

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

POSTGRADUATE PROGRAMMES



UNIVERSITI PUTRA MALAYSIA (UPM) 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 in the country. There are various postgraduate programmes offered by UPM's faculties and institutes. The modes of degree programmes available are by research and coursework. These programmes are offered by all the faculties as listed on page 34 and the following research institutes as below:

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

PROGRAMME STRUCTURE

- **Programmes by Research**
 - Masters (MS, MA, M.V.Sc.)
 - PhD
- **Programmes by Coursework**
 - Masters only (47 programmes)
 - Minimum of 40 credits of courses
 - Doctor of Public Health

- **Programmes with Industry**
 - Doctor of Engineering (DEng)
 - Industrial PhD
- **International Collaborative Programmes**
 - Jointly Awarded Degree
 - Dual Degree
 - Double Degree

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/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/Institute.

MASTERS DEGREE PROGRAMMES BY COURSEWORK

Students pursuing the Masters 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 REQUIREMENTS

Masters Degree Programme

- The applicant shall possess a recognised Bachelor's degree in a relevant field with a minimum CGPA of 3.000; or
- The applicant with CGPA lower than 3.000 can be admitted into the programme subject to any other requirement specified by the MQA/Faculty/Institute.
- An applicant who is in the final semester of his undergraduate study programme may be considered for provisional admission provided his current CGPA or equivalent qualification fulfils the graduate programme admission requirements.

Doctoral Degree Programme

The applicants should possess:

- a Masters Degree by research in a relevant field; or
- a Masters Degree by coursework in a relevant field and obtained a minimum CGPA of 3.00 or equivalent, or minimum requirement set by programme standard/faculty/ university; or
- any other qualification approved by an authorised body.

Language Requirement

- Malaysian candidates must have obtained at least a credit in English for Sijil Pelajaran Malaysia, or have passed English courses at the Diploma or Bachelor level.
- All international candidates from countries where English is not a medium of instruction must have obtained a minimum score of 550 for TOEFL or Band 6 for IELTS or any other English test equivalent to the Common European Reference for Languages (CEFR). For Malay and Foreign Language Studies, the candidate must have obtained a minimum score of 400 for TOEFL or Band 4.0 for IELTS.
- Provisional admission may be granted to applicants who have obtained a score of 500-549 for TOEFL or Band 5.5 for IELTS or its equivalent. Upon registration, applicants are required to enrol and pass the University English programme.

FIELDS OF STUDY FOR PROGRAMMES BY RESEARCH

There are 269 fields of study offered for programmes by research.

AGRICULTURE

Agribusiness
Agricultural Economics
Agricultural Extension
Agricultural Technology
Agronomy
Animal Behaviour and Welfare
Animal Biotechnology
Animal Nutrition
Animal Physiology
Animal Production
Animal Science
Animal Waste Management
Animal Welfare
Aquaculture
Biodiversity and Conservation of Natural Resources
Entomology
Environmental Pollution Control Technology
Environmental Quality and Conservation
Farm Structures
Fisheries Science
Food Biotechnology
Food Safety
Food Science
Food Technology
Genetics
Genetics and Breeding
Halal Products Development
Halal Products Management
Halal Products Science
Horticulture
Land Resource Management
Marine Ecology and Biodiversity
Microbial Biotechnology
Microbiology
Molecular Biology and Genetic Engineering
Molecular Biotechnology
Nutrition
Pest Management
Plant Pathology
Plant Science
Soil Science
Theriogenology and Cytogenetics
Wildlife and Exotic Animal Health
Wildlife Ecology and Management



AGRICULTURE AND FOOD SCIENCES (BINTULU SARAWAK CAMPUS)

Agribusiness
Agricultural Technology
Agronomy
Analytical Chemistry
Animal Production
Applied Mathematics
Aquaculture
Biodiversity and Conservation of Natural resources
Bioinformatics and System Biology
Bioresource and Technology
Business Economics
Ecology
Economics
Entomology
Environmental Hydrology and Hydrogeology
Environmental Quality and Conservation
Fisheries Science
Food Biotechnology
Food Science
Forest Management and Ecosystem Sciences
Genetics and Breeding
Horticulture
Human Development
Land Resource Management
Landscape Studies
Marine and Freshwater Ecosystems
Marine Ecology and Biodiversity
Materials Science
Microbial Biotechnology
Microbiology
Molecular Biology and Genetic Engineering
Molecular Biotechnology
Pest Management
Philosophy and Civilisation Studies
Physics
Plant Biotechnology
Plant Pathology
Plant Physiology
Pure Mathematics
Soil Science
Sustainable Recreation and Ecotourism
Wildlife Ecology and Management

BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES

Biochemistry
Bioinformatics and System Biology
Cell Biotechnology
Environmental Biotechnology
Enzyme Biotechnology
Food Biotechnology
Industrial Biotechnology
Microbial Biotechnology Microbiology
Molecular Biology and Genetic Engineering
Nanobiotechnology
Plant Biotechnology
Structural Biology

COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Agricultural Technology
Bioinformatics and System Biology
Computer and Embedded Systems Engineering
Computer Networks
Database Systems
Human Computer Interaction
Information Systems
Intelligent Systems
Multimedia Computing
Parallel and Distributed Computing
Security in Computing
Signal Processing
Software Engineering
Wireless Communications and Networks Engineering

DESIGN AND ARCHITECTURE

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

ECONOMICS AND MANAGEMENT

Business Economics
Economics
Financial
Tourism Hospitality

EDUCATIONAL STUDIES

Curriculum and Instruction
Educational Administration
Educational Psychology
Educational Technology
Extension Education
Guidance and Counselling
Human Resource Development
Health Education and Communication
Moral Education
Physical Education
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

ENGINEERING

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
Geospatial Engineering
Geotechnical and Geological Engineering
Highway and Transportation Engineering
Industrial Engineering
Manufacturing Systems Engineering
Materials Engineering
Mechanical Engineering
Packaging Engineering
Photonics Engineering
Project Management
Remote Sensing
Safety, Health and Emergency Management
Sensor Technology
Signal Processing
Soil and Water Engineering
Structural Engineering
Water Resources Engineering
Wireless Communications and Networks Engineering

ENVIRONMENTAL STUDIES

Environmental Education and Ethics
Environmental Hydrology and Hydrogeology
Environmental Economics, Planning and Management
Environmental Policy and Governance
Environmental Pollution Control Technology

Environmental Quality and Conservation
Environmental System and Modeling
Marine and Freshwater Ecosystem

FOOD SCIENCE AND TECHNOLOGY

Food Technology
Food Service Management
Food Science
Food Safety
Food Management
Food Biotechnology
Hospitality
Halal Products Management
Molecular Biology and Genetic Engineering

FORESTRY

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

HUMAN ECOLOGY

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



MEDICINE AND HEALTH SCIENCES

Applied Physics
Biochemistry
Bioinformatics and System Biology
Cancer Biology and Oncology
Chemical Pathology
Clinical Nutrition
Community Nutrition
Environmental Health
Epidemiology and Biostatistics
Forensic Science
Haematology
Health Education and Communication
Health Promotion
Health Service Management
Human Anatomy
Human Genetics
Human Physiology
Immunobiology
Immunopharmacology
Materials Science
Medical Microbiology
Medical Parasitology
Medical Sciences
Microbial Biotechnology
Molecular Biology and Genetic Engineering
Molecular Biotechnology
Molecular Imaging
Molecular Medicine
Neuroscience
Nursing
Nutritional Sciences
Occupational Safety and Health
Pharmacology and Toxicology
Psychological Medicine
Public Health
Radiology and Imaging
Safety, Health and Emergency Management
Social Gerontology
Stem Cell
Structural Biology
Youth Studies

MODERN LANGUAGES AND COMMUNICATION

Applied Comparative Linguistics
Arabic Language
Chinese Literature
Communication Technology
Development Communication
Discourse Studies
English Language
English Literature
Human Communication
Journalism (Masters only)
Literary and Cultural Studies
Literacy Studies
Malay Language
Malay Literature
Mass Communication
Organisational Communication
Translation and Interpretation

SCIENCE

Advanced Materials
Agricultural Extension
Agricultural Technology
Analytical Chemistry
Animal Physiology
Animal Production
Applied Mathematics
Applied Physics
Aquaculture
Aquatic Animal Health
Aquatic Biotechnology
Bacteriology
Biochemistry
Biocomposite Technology and Design
Biodiversity and Conservation of Natural Resources
Bioresource Management
Biotherapeutics
Cancer Biology and Oncology
Catalysis
Ecology
Energy
Entomology
Environmental Biotechnology
Environmental Health
Environmental Quality and Conservation
Enzyme Biotechnology
Epidemiology and Biostatistics
Epidemiology and Public Health
Fisheries Science
Food Engineering
Genetics
Halal Products Development
Industrial Biotechnology
Inorganic Chemistry
Marine and Freshwater Ecosystem
Materials Science
Medical Parasitology
Medicinal Chemistry



Metabolomics
Microbial Biotechnology
Microbiology
Molecular Biotechnology
Nanomedicine
Nanoscience
Nanotechnology
Neuroscience
Numerical Analysis
Organic Chemistry
Pest Management
Pharmacology and Toxicology
Physical Chemistry
Physics
Phytochemistry
Plant Biotechnology
Plant Pathology
Plant Physiology
Pure Mathematics
Sensor Technology
Statistics
Stem Cell
Structural Biology
Theoretical and Computational Chemistry
Theoretical and Computational Physics
Wildlife Ecology and Management

VETERINARY MEDICINE

Agribusiness
Anaesthesiology and Analgesic+ Anatomy and Histology
Animal Biotechnology
Animal Physiology
Animal Production
Animal Science
Animal Welfare
Aquaculture
Aquatic Animal Health
Avian Medicine
Bacteriology
Biochemistry
Cancer Biology and Oncology
Clinical Pathology
Epidemiology and Public Health
Equine Medicine
Genetics and Breeding
Immunobiology
Laboratory Animal Medicine+ Molecular Biology and Genetic Engineering
Nutrition
Parasitology
Pathology
Pharmacology and Toxicology
Radiology and Imaging+
Ruminant Medicine+
Small Animal Medicine+
Surgery+
Swine Medicine

Theriogenology and Cytogenetics
Vaccine and Therapeutics
Virology
Wildlife and Exotic Animal Health
+fee rate is equivalent to medical field

HALAL PRODUCTS RESEARCH

Halal Products Science
Halal Products Development
Halal Products Management+
Shariah and Halal Laws+
+fee rate is equivalent to social science field

MATHEMATICAL RESEARCH

Analytical and Structural Mathematics
Applied and Computational Statistics
Computable Structures and Scientific Computing
Computational Electromagnetics
Computational Mathematics
Computational Operations Research
Ethnomathematics
Financial Mathematics
Fluid Dynamics
History and Philosophy of Mathematics
Mathematical and Computational Biology
Mathematical Cryptography
Mathematical Physics and Engineering
Mathematics Education
Parallel and Distributed Computing
Security in Computing

ADVANCED TECHNOLOGY

Advanced Materials
Agricultural Mechanisation and Automation
Analytical Chemistry
Chemical Engineering
Electronic Engineering
Energy
Green Engineering
Materials Engineering
Materials Science
Nanoscience
Nanotechnology
Sensor Technology

AGRICULTURAL AND FOOD POLICY STUDIES

Agricultural Policy
Natural Resource Policy



BIOSCIENCE

Aquatic Biotechnology
Bioinformatic and System Biology
Biotherapeutics
Cancer Biology and Oncology
Cell Biotechnology
Enzyme Biotechnology
Genetics
Human Genetics
Immunobiology
Industrial Biotechnology
Marine and Freshwater Ecosystem
Marine Ecology and Biodiversity
Medical Biotechnology
Medicinal Chemistry
Metabolomics
Microbial Biotechnology
Molecular Biotechnology
Nanomedicine
Pharmacology and Toxicology
Phytochemistry
Vaccine and Therapeutics

GERONTOLOGY

Gerontechnology
Medical Gerontology
Social Gerontology

SOCIAL SCIENCE STUDIES

Community Education and Development
Leadership Studies
Rural Advancement
Youth Studies

TROPICAL AGRICULTURE AND FOOD SECURITY

Agronomy
Animal Behaviour and Welfare
Animal Biotechnology
Animal Nutrition
Animal Physiology
Animal Production
Animal Waste Management
Bioinformatics and System Biology
Food Safety
Genetics and Breeding
Horticulture
Microbial Biotechnology
Molecular Biology and Genetic Engineering
Plant Biotechnology
Plant Pathology
Plant Physiology
Post-harvest Technology
Soil Science
Weed Science

TROPICAL FORESTRY AND FOREST PRODUCTS

Biocomposite Technology and Design
Biopolymer, Pulp and Paper Technology
Bioresource Management
Environmental Quality and Conservation
Forest Management and Ecosystem Sciences
Materials Science
Microbial Biotechnology
Nanobiotechnology
Natural Resource Policy
Tropical Rainforest Ecosystem Services



PROGRAMMES BY COURSEWORK

FACULTY OF AGRICULTURE

Master of Land Resources Management
Master of Plantation Management

FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Master of Computer Science

FACULTY OF DESIGN AND ARCHITECTURE

Master of Landscape Architecture

FACULTY OF EDUCATIONAL STUDIES

Master of Education (Curriculum and Instruction)
Master of Education (Educational Administration)
Master of Education (Educational Psychology)
Master of Education (Educational Technology)
Master of Education (Guidance and Counselling)
Master of Education (Physical Education)
Master of Education (Sport Science)
Master of Education (Teaching of English as a Second Language (TESL))
Master of Education (Teaching of Malay as a First Language)
Master of Education (Technical and Vocational Education)
Master of Human Resource Development

FACULTY OF ENGINEERING

Master of Emergency Response and Planning
Master of Engineering Management
Master of Environmental Engineering
Master of Environmental Technology Management
Master of Highway and Transportation Engineering
Master of Innovation and Engineering Design
Master of Manufacturing Systems Engineering
Master of Process Safety and Loss Prevention
Master of Remote Sensing and GIS
Master of Structural Engineering and Constructions
Master of Water Engineering
Master of Water Management

FACULTY OF FORESTRY AND ENVIRONMENT

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

FACULTY OF FOOD SCIENCE AND TECHNOLOGY

Master of Food Technology
Master Food Safety and Quality Assurance

FACULTY OF MEDICINE AND HEALTH SCIENCES

Master of Medicine (Anaesthesiology)
Master of Medicine (Family Medicine)
Master of Medicine (Paediatrics)
Master of Medicine (Psychiatry)
Master of Medicine (Internal Medicine)
Master of Medicine (Radiology)
Master of Medicine
Master of Surgery (Orthopaedics)
Master of Public Health
Doctor of Public Health

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 Applied Statistics

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

APPLICATION FOR ADMISSION (ON-LINE ONLY)

For online admission and further information about the programmes, please visit:

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An aerial photograph of the Universiti Putra Malaysia campus. The image shows a large green field, several buildings, and a parking lot. In the foreground, there is a large building with a red roof and a sign that reads "CANDIGOR PUTRA". To the right, there is a large parking lot with many cars. In the background, there are hills and a city skyline. The sky is cloudy.

PROGRAMME BY FACULTY

FACULTY OF AGRICULTURE

AS ONE OF THE THREE FOUNDING FACULTIES OF UPM, THE FACULTY OF AGRICULTURE IS THE FOREMOST AGRICULTURAL KNOWLEDGE CENTRE IN MALAYSIA. THE FACULTY ASSUMES A MAJOR ROLE IN FINDING SOLUTIONS TO CURRENT AGRICULTURAL 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 Degrees

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

Degree Without Thesis

- Master in Plantation Management
- Master in Land Resource Management

Degree With Thesis (Coursework And Research)

- 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 advanced 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:

- i. A-GrowAL
- ii. Akar **PUTRA**® Breed
- iii. GanoCare –organic fertiliser ganoderma disease control
- iv. SAPPUTRA – water-based nanoemulsion pesticide formulation of Saponin to control Apple Snail
- v. The Mahseer Feed alternative fish food that speeds up fish growth, reduces cost and increases breeder profitability
- vi. BlastBustr RS4 green technology innovation in the production of anti- fungal formula to prevent cholera while acting as a growth-boosting agent

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FACULTY OF FORESTRY AND ENVIRONMENT

THE FACULTY OF FORESTRY AND ENVIRONMENT IS THE RESULT OF MERGING OF FACULTY OF FORESTRY AND FACULTY OF ENVIRONMENTAL STUDIES, EFFECTIVELY ON THE 1ST MARCH 2020.

THE FACULTY HAS 4 DEPARTMENTS, WHICH ARE, DEPARTMENT OF FORESTRY SCIENCE AND BIODIVERSITY, DEPARTMENT OF NATURAL RESOURCE INDUSTRY, DEPARTMENT OF NATURE PARKS AND RECREATION, AND DEPARTMENT OF ENVIRONMENT. THESE DEPARTMENTS OFFER BACHELOR, MASTER AND DOCTORAL PROGRAMS IN FOREST MANAGEMENT, WOOD TECHNOLOGY AND INDUSTRY MANAGEMENT, RECREATIONAL AND ECOTOURISM, AND ENVIRONMENTAL STUDIES.

PROGRAMMES OFFERED

Undergraduate

- Bachelor of Forestry Science
- Bachelor of Wood Science and Technology
- Bachelor of Parks and Recreation Science
- Bachelor of Environmental Science and Technology
- Bachelor of Environmental Management

Postgraduate

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

Research Programs

- Biodiversity Conservation and Sustainable Management
- Sustainable Tourism and Recreation
- Tropical Forest Ecosystem Services and Valuation
- Biofibre Sciences and Technology
- Environmental Ethics and Education
- Environmental Economics, Planning and Management
- Environmental Policy and Governance
- Marine and Freshwater Ecosystem
- Environmental Quality and Conservation
- Environmental Pollution Control Technology
- Environmental System and Modeling
- Environmental Hydrology and Hydrogeology

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 21st March 2012 and officiated by His Majesty, Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, the Chancellor of UPM and Sultan of Selangor. SISFEC is located in Ayer Hitam Forest Reserve, Puchong approximately 20 kilometres 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 Government 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 sustainably 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.
- Academic members of the faculty are recognized as the Top Research Scientists Malaysia in 2018 from the Academic of Sciences Malaysia.
- Accreditation of Master of Environment Program by CHESS.

COLLABORATION

- MoU UPM - Zhong Ma Consortium Sdn. Bhd. (20 universities in China)
- MoA with Zhoukou Normal University
- MoU with Gwangju Institute of Science and Technology, Korea
- MoU with National Yunlin University of Science and Technology, Taiwan
- MoA with Perbadanan Pengurusan Sisa Pepejal dan Pembersihan Awam (SWCorp)
- Asia Pacific Forestry Research Institutions (APAFRI)
- Asia Pacific Forestry Education Network – University of Melbourne, Australia
- Southeast Asia Agroforestry Education Network (SEANAFE) – Bogor, Indonesia
- Faculty of Forestry, Kasetsart University, Thailand
- Faculty of Forestry, University of the Philippines at Los Banos

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FACULTY OF VETERINARY MEDICINE

THE FACULTY OF VETERINARY MEDICINE OFFERS COMPREHENSIVE VETERINARY EDUCATION AND TRAINING IN THE 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 OF THE FACULTY- 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) NAMELY COE OF RUMINANTS, COE OF WILDLIFE HEALTH AND CONSERVATION, AND COE OF SWIFLETS.

UPM IS THE FIRST AND ONLY 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 DVM UNDERGRADUATES AND POST GRADUATE STUDENTS, AND COMPREHENSIVE CONSULTATION, TREATMENT AND SURGERY, LABORATORY DIAGNOSIS AND OTHER VETERINARY- RELATED SERVICES TO THE PUBLIC, INCLUDING REFERRALS FROM VETERINARY PRACTITIONERS. UVH IS SITUATED WITHIN THE VETERINARY COMPLEX OF THE FACULTY OF VETERINARY MEDICINE. TEACHING OF DVM AND POSTGRADUATE STUDENTS, AND PROFESSIONAL SERVICES FOR THE PUBLIC AT UVH ARE CONDUCTED BY OUR EXPERTS: THE PROFESSORS AND LECTURERS, AND SUPPORTED BY OUR VETERINARY OFFICERS, AND PARAPROFESSIONALS FROM THE DIFFERENT DEPARTMENTS WITH EXPERTISE IN VARIOUS DISCIPLINES OF VETERINARY MEDICINE, NAMELY INTERNAL MEDICINE, SURGERY AND ANAESTHESIOLOGY, VETERINARY IMAGING (CT, RADIOLOGY, ULTRASONOGRAPHY), CARDIOLOGY, NEUROLOGY, ONCOLOGY AND REPRODUCTION ACROSS THE SPECIES.

PROGRAMMES OFFERED

Undergraduate

- Degrees Doctor of Veterinary (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



- Multidrug Resistant Microbial Populations Impact on Veterinary and Public Health
- Veterinary Biologics and Pharmaceuticals
- Edible Bird Nest Swiftlet Production, Health and Product Quality
- Ruminant Diseases and Herd Health Management
- Non-ruminant Disease of Economic Importance
- Companion Animal Health and Welfare
- Veterinary and Comparative Oncology
- Livestock and Veterinary Reproductive Biotechnology
- Impacts of Animal Metabolism in Disease Production

CAREER OPPORTUNITIES

Graduates of the faculty can gain employment as Veterinary Officers or Veterinary Practitioners in government agencies, statutory bodies and private companies involved in animal, animal product and by product-related industries. Entrepreneurial graduates can establish and operate their own veterinary clinics. The DVM graduates are well-trained to serve in other sectors such as academic, research, animal industries and veterinary as well as medical institutions.

ACHIEVEMENTS

- Received the MSISO 9001:1994 certification in 2000, making the Faculty the first institution of higher learning in the nation to receive comprehensive certification in the teaching, research and professional services.

- Awarded MSISO 17025:2005 accreditation for laboratories testing in 2008.
- Commercialised 4 animal vaccines and 1 diagnostic kit.
- One spin off company was formed and 12 research products patented in Malaysia, USA and Europe.
- Six professors of the faculty were awarded the prestigious National Academic Awards, Malaysia.

THE UNIVERSITY VETERINARY HOSPITAL (UVH)

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

It went through a number of changes until November 1996 when the name of UVH was adopted. It started with a small animal and ambulatory large animal clinics as well as laboratory services, and has since grown into what it is today, with hospital wards and outpatient clinics handling various animal species.

UVH is equipped with the type of diagnostic and laboratory equipment found in a teaching hospital designed for the training of undergraduate and postgraduate students. Besides routine outpatient consultancy, UVH also offers specialised services in veterinary medicine and surgery, imaging as well as laboratory diagnosis. UVH has facilities to handle animals with severe or complicated diseases and those requiring intensive care. UVH also provides an ambulatory clinic for large animals.

UVH supports and provides clinical cases and materials for studies and research of 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

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FACULTY OF ENGINEERING

THE FACULTY OF ENGINEERING WAS ESTABLISHED IN 1975 AS THE FACULTY OF AGRICULTURAL ENGINEERING. FROM ONLY FOUR DEPARTMENTS, IT HAS GROWN INTO EIGHT DEPARTMENTS, FOCUSING ON SOME ADVANCED TECHNOLOGICAL FIELDS.

TODAY, THE FACULTY IS ONE OF THE LARGEST FACULTIES AT UPM WITH A STUDENT POPULATION OF OVER 3,000 STUDENTS. ITS LOCATION AT THE HEART OF THE MULTIMEDIA SUPER CORRIDOR (MSC) PROVIDES THE FACULTY WITH ACCESS TO THE ARRAY OF IT AND MULTIMEDIA FACILITIES AVAILABLE IN THE CORRIDOR.

TO DATE, THE FACULTY BOASTS EIGHT DEPARTMENTS - THE DEPARTMENT OF AEROSPACE ENGINEERING, DEPARTMENT OF CIVIL ENGINEERING, DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING, DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING, DEPARTMENT OF CHEMICAL AND ENVIRONMENTAL ENGINEERING, DEPARTMENT OF COMPUTER AND COMMUNICATION SYSTEMS ENGINEERING, DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING; AND DEPARTMENT OF PROCESS AND FOOD ENGINEERING - OFFERING 8 BACHELOR PROGRAMMES, 12 MASTERS PROGRAMMES BY COURSEWORK, 1 PHD PROGRAMME WITH INDUSTRY AND 34 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 centres for its work in various research centres focussing 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 1,000 publications, including 250 journal articles. One of the objectives of such prodigious research activities is to elevate the faculty's international status in order to receive its due recognition.

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 8 programmes that have been accredited by Engineering Accreditation Council Malaysia:

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

Masters without Thesis

The Faculty of Engineering also offers Masters by coursework programmes. Students enrolling under these programmes must fulfill a minimum of 40 credits for coursework with a minimum study period of 1 ½ years (3 semesters) and maximum of 2 years (4 semesters):

- Master of Emergency Response Planning
- Master of Engineering Management
- Master of Environmental Engineering
- Master of Environmental Technology Management
- Master of Highway and Transport Engineering
- Master of Innovation and Engineering Design
- Master of Manufacturing Systems Engineering
- Master of Process Safety and Loss Prevention
- Master of Remote Sensing and GIS
- Master of Structural Engineering and Construction
- Master of Water Engineering
- Master of Communication Engineering

Masters with Thesis and Phd Programme by Research (Master/PhD) The Faculty of Engineering also offers 34 fields of postgraduate studies with a minimum study duration of 1 ½ years (3 semesters) and maximum of 3 years (6 semesters) for Masters with Thesis Programmes. As for Phd, a minimum study duration of 2 years (4 semesters) and maximum of 5 years (10 semesters) is required.



Fields of Study

- Aerospace Engineering
- Computational Methods in Engineering
- Agricultural Mechanisation and Automation
- Agricultural Waste Engineering
- Farm Structures
- Agricultural Process Engineering
- Safety, Health and Emergency Management
- Soil and Water Engineering
- Biochemical Engineering
- Chemical Engineering
- Environmental Engineering
- Materials Engineering
- Geotechnical and Geological Engineering
- Geographic Information System (GIS)
- Highway and Transportation Engineering
- Project Management
- Remote Sensing
- Geospatial Engineering
- Structural Engineering
- Water Resources Engineering
- Wireless Communications and Networks Engineering
- Computer and Embedded Systems Engineering
- Signal Processing
- Photonics Engineering
- Biomedical Engineering
- Control System Engineering
- Electrical Power Engineering
- Electronic Engineering
- Industrial Engineering
- Manufacturing Systems Engineering
- Mechanical Engineering
- Automotive Engineering
- Food Engineering
- Packaging 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 5 semesters (2 ½ years) and maximum of 10 semesters (5 years). Candidates with relevant Bachelor 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 we 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

WIND TUNNEL (DEPARTMENT OF AEROSPACE ENGINEERING, FACULTY OF ENGINEERING UPM)

The Faculty of Engineering has been at the forefront of innovation, creating pivotal technologies that have transformed the world of aerospace, mechanical, civil, electrical, electronics, computer communications engineering, chemical environmental engineering, biology agriculture engineering and food process engineering. As expert in engineering, the faculty offers full range of high technology engineering equipment. The wind tunnel is one of the most high technology facility in the faculty representing a significant aerospace and mechanical engineering technology in our faculty. The wind tunnel owned by the Aerodynamic Laboratory of Aerospace Engineering Department which is designed to support for learning, research, consultation and testing services. It is monitored by laboratory experts whom are consist of professors, lecturers, technical experts and researchers within the department. The research interests include a wide range of fluid dynamic, combustion and propulsion problems and experiment on aerodynamics studies.

Currently, the department offers two types of subsonic wind tunnels. One is an open circuit type which was built in 2002 in a joint effort with the University of Gajah Mada Indonesia. A single return tunnel with a 1 m wide by 1 m high by 2 m long test section is capable of continuous operation at velocities of over 45 m/s. While the other is a closed circuit type which was built in 2015 with the same size test section. It is designed to operate at velocities of over 50 m/s. Tunnels were initially designed to study the effects of gusts on scaled model aircraft but has since been upgraded to suit a variety of applications. It is now fully owned by the university and used for education and research to serve government and local industry as a well-equipped and useful subsonic wind tunnel resource. Both are built with large windows on the side of the test section to allow for excellent model viewing. Force and moment data are obtained from a below-floor balance system capable of supporting models having specific gross weights. It resolves all six force and moment components. The wind tunnel facility also has an instrumentation for the measurement and recording of operating pressures, the angle of attack or angle of yaw, tunnel static pressure, dynamic pressure and temperatures. A computer or data acquisition system is used to average and record the results.



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FACULTY OF EDUCATIONAL STUDIES

THE OBJECTIVES OF THE FACULTY OF EDUCATIONAL STUDIES ARE TO PROVIDE UNDERGRADUATE TEACHER EDUCATION PROGRAMMES AND POSTGRADUATE PROGRAMMES IN THE FIELDS OF EDUCATIONAL STUDIES 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 AND HUMAN RESOURCE DEVELOPMENT.

PROGRAMMES OFFERED DIPLOMA

Diploma in Youth in Development Work

Undergraduate

- Bachelor of Education Agricultural Science
- Bachelor of Education Home Science
- Bachelor of Education Physical Education
- Bachelor of Education Malay Language
- Bachelor of Education Teaching of English as a Second Language
- Bachelor of Education Guidance and Counselling
- Bachelor of Education Moral Education
- Bachelor of Science Human Resource Development

Postgraduate

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

Fields of Study

- i. Curriculum and Instruction
- ii. Educational Administration
- iii. Educational Psychology
- iv. Educational Technology
- v. Guidance and Counselling
- vi. Physical Education
- vii. Sports Science
- viii. Teaching of English as a Second Language
- ix. Teaching of Malay as a First Language
- x. Technical and Vocational Education

Fields of Study

- i. Curriculum and Instruction
- ii. Educational Administration
- iii. Educational Psychology
- iv. Sociology of Education
- v. Instructional Technology and Innovation
- vi. Extension Education
- vii. Guidance and Counselling
- viii. Human Resource Development
- ix. Moral Education
- x. Physical Education
- xi. Sports Science
- xii. Teaching of English as a Second Language
- xiii. Teaching of Malay Language
- xiv. Teaching of Malay Literature
- xv. Technical and Vocational Education
- xvi. Health Education and Communication



RESEARCH FOCUS

- Entrepreneurship and Leadership in Education
- Guidance and Counselling
- Vocational and Technical Education
- Extension and Continuing Education
- Potential Enhancement and Caring Education (PEaCE)
- Human Resource Development
- Innovative Teaching and Learning

ACHIEVEMENTS

- According to the 2018/2019 rating by QS World University Rankings, Universiti Putra Malaysia (UPM) is recognised as one of the world's top 100 best universities in the field of education.
- This recognition puts Universiti Putra Malaysia among the 100 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.

THE TEACHER EDUCATION ACCREDITATION COUNCIL (TEAC)

- Universiti Putra Malaysia (UPM) became the first institution of higher learning in Asia to receive accreditation for its teacher education programmes from an international organisation, The Teacher Education Accreditation Council (TEAC), which is based in Washington DC, USA.
- This recognition places the teacher education programmes at UPM comparable with teacher education programmes of several leading universities in the US, which receive accreditation from TEAC, such as University of Virginia, University of Nebraska, University of Michigan, Temple University and Rutgers University.
- The accreditation received for the Bachelor of Education programmes has highlighted UPM as an excellent higher learning institution in producing Bachelor of Education graduates at international level. A graduate possessing a Bachelor of Education degree from Universiti Putra Malaysia (UPM) is eligible to teach in the United States or countries that acknowledge TEAC as an accreditor of teacher-preparation programmes. TEAC is an agency recognised by the US Department of Education and Council for Higher Education Accreditation United States.
- The TEAC accreditation process underwent by the Faculty was a three-year comprehensive procedure in assuring the quality of teacher education programmes offered meets the standard criteria of TEAC. The accreditation obtained by the Faculty of Educational Studies is the highest endorsement receives from an international body of accreditation with the aim of producing competent, caring and qualified teachers.



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FACULTY OF SCIENCE

THE FACULTY OF SCIENCE COMPRISES THE DEPARTMENT OF BIOLOGY, DEPARTMENT OF PHYSICS, DEPARTMENT OF CHEMISTRY AND DEPARTMENT OF MATHEMATICS. 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 CONDUCTIVE LEARNING ENVIRONMENT.

PROGRAMMES OFFERED

Undergraduate

- Bachelor of Science in Biology with Honours
- Bachelor of Science in Physics with Honours
- Bachelor of Science with Honours in Instrumentation
- Bachelor of Science with Honours in Materials Science
- 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)
- Bachelor of Science in Statistics with Education (Honours)

Postgraduate

- Doctor of Philosophy
- Master of Science
- Master of Applied Statistics

Fields of Study:

- Biology
 - Biodiversity and Conservation
 - Ecology
 - Genetics
 - Physiology
- Chemistry
 - Analytical Chemistry
 - Catalysis
 - Theoretical and Computational Chemistry
 - Physical Chemistry
 - Organic Chemistry
 - Inorganic Chemistry
- Physics
 - Physics
 - Materials Science
 - Applied Physics
 - Theoretical and Computational Physics
- Mathematics
 - Statistics
 - Applied Mathematics
 - Numerical Analysis
 - Pure Mathematics

RESEARCH AREAS

- Biology
 - Biodiversity and Conservation
 - Ecology
 - Genetics
 - Physiology
- Chemistry
 - Analytical Methods and Materials
 - Catalysis
 - Computational Chemistry
 - Chemical Biology
 - Carbon Chemistry
 - Electrochemistry
 - Inorganic Synthesis
 - Organic Synthesis
 - Polymers
- Mathematics
 - Numerical Methods
 - Mathematical Physics
 - Mathematical Finance
 - Operational Research
 - Optimisation
 - Cryptography
 - Algebra
 - Analysis
 - Geometry and Topology
 - Number Theory
 - Reliability
 - Statistical Modelling
- Physics
 - Condensed Matter Physics
 - Instrumentation Sciences and Technology
 - Magnetic and Superconducting Materials
 - Theoretical and Computational Physics

CAREER OPPORTUNITIES

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



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FACULTY OF FOOD SCIENCE AND TECHNOLOGY

THE FACULTY OF FOOD SCIENCE AND TECHNOLOGY AT UPM IS THE OLDEST AND THE MOST ESTABLISHED FOOD RELATED TEACHING AND LEARNING INSTITUTION IN MALAYSIA. IT OFFERS A RANGE OF ACADEMIC PROGRAMMES THAT FIT THE NEEDS OF THE FOOD MANUFACTURING AND FOOD SERVICE INDUSTRIES, WITH STATE-OF-THE-ART TEACHING AND RESEARCH FACILITIES AVAILABLE. STUDENTS WILL BE EXPOSED TO VALUABLE EXPERIENCE THROUGH INNOVATIVE CURRICULUM, VARIED EXTRACURRICULAR ACTIVITIES, RESEARCH OPPORTUNITIES AND INTERNSHIPS.

THE FACULTY HAS ALSO CONTINUOUSLY RETAINED ITS POSITION AS ONE OF THE TOP RESEARCH ENTITY OF THE UNIVERSITY WITH ITS FOOD INNOVATION EFFORTS AND FACILITIES. WITH NEARLY 30 YEARS OF EXPERIENCE, BOTH THE UNDERGRADUATE AND POSTGRADUATE PROGRAMMES OFFERED AT THE FACULTY ARE RECOGNISED THROUGHOUT THE WORLD.



PROGRAMMES OFFERED

Bachelor

- Bachelor of Food Science and Technology
- Bachelor of Science (Food Studies)
- Bachelor of Science (Food Service Management)

Postgraduate

Master of Science / Doctor of Philosophy in:

- Food Safety
- Food Science
- Food Technology
- Food Biotechnology
- Food Management
- Food Service Management Postgraduate by Coursework
- Master of Food Technology
- Master of Food Safety and Quality Assurance

RESEARCH FOCUS

- Functional Foods
- Fats and Oils
- Food Safety and Quality
- Food Processing
- Food Bioprocessing
- Food Service and Management

CAREER OPPORTUNITIES

There are many employment opportunities for our graduates in both the private and public sectors. These include jobs such as food technologist, food analysts, food safety officer, Halal food enforcement officers, quality assurance executives, research and development executives, food marketing executives, technical sales executives, food operation management executives, food promoters, food and beverage managers, restaurant managers, menu planners, food waiters, and entrepreneurs.

ACHIEVEMENTS

- The Ministry of Health Malaysia has selected the Faculty of Food Science and Technology as the institution of choice to establish its National Food Safety Research (NFSR) Centre due to the renowned research expertise of the faculty members in food safety. This was immediately followed by the recognition and appointment of the NFSR as the information network coordinator in the field of microbiological risk assessment (MRA) for the Asia-Pacific region by the Food and Agriculture Organisation (FAO) of the United Nations regional office for Asia and the Pacific.
- Another historic milestone was the establishment of the institute for research on halal products. The institute is now playing a major role in the instituting of halal issues in products marketed in Malaysia and for export.
- The Faculty of Food Science and Technology was selected as the custodian for the Supercritical Fluid Technology acquired by the Malaysian Biotechnology Corporation. The Supercritical Fluid Technology Centre (SFC) established in UPM has proven to be a valuable green technology platform for production of functional foods, fine chemicals, nutraceuticals and pharmaceuticals.



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FACULTY OF HUMAN ECOLOGY

THE FACULTY OF HUMAN ECOLOGY OFFERS MULTIDISCIPLINARY STUDIES FOCUSING ON HOLISTIC HUMAN DEVELOPMENT AND WELL-BEING WITHIN THE CONTEXT OF THEIR ENVIRONMENT. AT PRESENT, THE FACULTY OF HUMAN ECOLOGY COMPRISES FIVE (5) 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 (2) 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 5 undergraduate programmes:

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

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 GENIUS Section 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, Bachelor of Human Development Science with Management, Bachelor of Human



Development Science with Information Technology

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**
Enforcement Officer (Consumerism), Certified Financial Planner, Bank Officer, Insurance Officer, Marketing Executives and Entrepreneur.
- **Bachelor of Music**
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:

1. To be an established, leading center for research in the field of family, children and adolescents.
2. To serve as the main resource center in the field of family, children and adolescents in the region.
3. To provide training for early childhood educators.
4. To disseminate information and research findings through publications, training, workshops, seminars and conferences.
5. 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 as 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:

- a) Leading research on sustainable consumption behavior.
- b) Being a main referral centre on sustainable consumption.
- c) Providing research opportunity for postgraduate students in area of Consumer Science Programmes.
- d) Disseminating information and sharing research output through writing activities, seminar, workshop and smart partnership.
- e) Providing information and advisory services to agencies and ministries.
- f) 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.

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FACULTY OF MODERN LANGUAGES AND COMMUNICATION

THE 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, AND BA IN MALAY LITERATURE. THE DEPARTMENT OF ENGLISH OFFERS THE FOLLOWING DEGREE PROGRAMMES: BA IN ENGLISH LANGUAGE AND LINGUISTICS, AND BA IN ENGLISH LITERATURE. COURSES IN ARABIC, CHINESE, FRENCH AND GERMAN LANGUAGES ARE OFFERED AS MAJOR COURSES BY THE DEPARTMENT OF FOREIGN LANGUAGES. 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 Degrees

A. On-campus

Programmes Bachelor of Arts in

- Malay Language and Linguistics
- Malay Literature
- English Language and Linguistics
- English Literature
- Arabic Languages
- Chinese Language Studies
- German Language Studies
- French Language Studies
- Bachelor of Communication (Hons)

B. Executive

- Programmes Bachelor of Arts in
- Malay Language and Linguistics
- Bachelor of Communication (Hons)

Postgraduate Degrees

A. 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)





B. 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)
- Applied Linguistics
- Language Testing
- Language Acquisition
- Language for Specific Purposes
- Literature, Culture and Gender Studies
- Media Communication, Communication Technology and Development
- Communication Excellence in Organisation and Culture
- Corporate Communication
- Human Communication

CAREER OPPORTUNITIES

The Bachelor of Arts Degree Programmes at the Faculty of Modern Languages and Communication prepare graduates for a range of careers in various sectors including the domains of public, customers and international relations; writing and editing, as well human resource management. For Bachelor of Communication graduates, there is a broad career opportunity in the fields of Communication and Media.

One can become a Journalist, TV/ Radio Producer, Script Writer, Corporate Communication Executives, Public Administrative Executives, Communication Researcher, etc.

MALAY HERITAGE MUSEUM, FACULTY OF MODERN LANGUAGES AND COMMUNICATION

The museum was officially established in January 2013 with the significant purpose of collecting, conserving and preserving ancient Malay artifacts to document and exhibit these artifacts to the public and invite researchers to investigate these artifacts. The emphasis of this museum is placed on the collection and preservation of artifacts and treasures of Malay civilisations in Peninsular Malaysia, including::

- Malay traditional architecture
- Malay manuscripts
- Clothing and textiles
- Weaponry
- Malay household equipments

This museum is open to the public. For more details, please visit our website.

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FACULTY OF DESIGN AND ARCHITECTURE

THE 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 800 STUDENTS AT THE UNDERGRADUATE, MASTER AND DOCTORAL LEVELS. THE FACULTY AIMS TO; i) BECOME A FACULTY OF INTERNATIONAL REPUTE IN THE FIELDS OF SUSTAINABLE DESIGN AND BUILT ENVIRONMENT, ii) CONTRIBUTE TOWARDS WEALTH CREATION, NATION BUILDING AND UNIVERSAL HUMAN ADVANCEMENT THROUGH THE EXPLORATION, DISSEMINATION AND APPLICATION OF KNOWLEDGE IN SUSTAINABLE DESIGN AND BUILT ENVIRONMENT.



PROGRAMMES OFFERED

Undergraduate Degrees

- Bachelor of Landscape Architecture
- Bachelor of Science in Architecture
- Bachelor of Design (Industrial Design)

Postgraduate Degrees

- Master of Landscape Architecture (MLA)
- Master of Architecture (M.Arch)
- Master of Tropical Urban Design (MTUD)
- Master in Sustainable Landscape Management (MSLM)
- Master of Science (MS) with thesis
 - a) Landscape Studies
 - b) Architectural Studies
 - c) Urban Planning and Design
 - d) Integrated Design Studies
 - e) Industrial Design Studies
- Doctor of Philosophy (PHD)
 - a) Landscape Studies
 - b) Architectural Studies
 - c) Urban Planning and Design
 - d) Integrated Design Studies
 - e) Industrial Design Studies



RESEARCH FOCUS

- Sustainable Design
- Environmental Design and Behaviour
- Environmental Design Technologies and Systems
- Industrial Design Innovation
- Culture and Heritage
- Urban Design

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.
- Established Sustainable Tropical Design Exhibition (STEdex). An indexed exhibition to disseminate creative and innovative ideas and sustainable solutions in the field of Built Environment and Industrial Design.
- 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.

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FACULTY OF MEDICINE AND HEALTH SCIENCES

THE FACULTY OF MEDICINE AND HEALTH SCIENCES OFFERS PROGRAMMES IN BOTH DISCIPLINES, COMPRISING 16 DEPARTMENTS. THE FACULTY IS LOCATED AT AN ACADEMIC COMPLEX NEXT TO SERDANG HOSPITAL. THE FACULTY FACILITATES THE ACTIVE LEARNING OF OVER 2,000 UNDERGRADUATE AND POSTGRADUATE STUDENTS THROUGH THE DISSEMINATION OF KNOWLEDGE AND PRACTICAL TRAINING TOGETHER WITH OPPORTUNITIES IN RESEARCH.

THE COMPLEX HAS MANY FACILITIES WHICH INCLUDE ADMINISTRATIVE BUILDING, LIBRARY, LECTURE HALLS, TUTORIAL ROOMS, AND TEACHING AND RESEARCH LABORATORIES. IN ADDITION, THERE ARE FOUR BLOCKS OF STUDENT HOSTELS WITH THE CAPACITY TO ACCOMMODATE 2,000 STUDENTS, A STUDENT CENTRE AND A FOOD COURT.



PROGRAMMES OFFERED

Undergraduate Degrees

- Doctor of Medicine (accredited by Malaysian Medical Council)
- Bachelor of Science
- Dietetics
- Nutrition and Community Health
- Environmental and Occupational Health
- Biomedical Science (accredited by the Institute of Biomedical Sciences and Chartered Institute of Environmental Health)
- Bachelor of Nursing (accredited by Malaysia Nursing Board)

Postgraduate Degrees

- Master of Science
- Master of Public Health
- Doctor of Public Health
- Master of Pathology
- Master of Psychiatry
- Master of Paediatric
- Master of Family Medicine
- Master of Internal Medicine
- Master of Orthopaedic
- Master of Anaesthesiology
- Master of Radiology
- Doctor of Philosophy



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, dietitians, 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.



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FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

THE GLOBAL EVOLUTION AND SIGNIFICANCE OF COMPUTER STUDIES AND RESEARCH WERE STRATEGICALLY HARNESSSED 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 THE DIPLOMA AND BACHELOR OF COMPUTER SCIENCE HAS NOW EXPANDED SIGNIFICANTLY TO MEET THE DEMANDS OF INDUSTRY.

THE UNIQUE FACTORS OF THE FACULTY ARE ITS METHODS IN APPLYING KNOWLEDGE MANAGEMENT AND THE PROMOTION OF ONLINE TEACHING MATERIAL. 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 of Computer Science (Computer System)
- Bachelor of Computer Science (Multimedia)
- Bachelor of Computer Science (Computer Network)
- Bachelor of Software Engineering

Postgraduate

- Master Programme by Coursework
 - Master of Computer Science
 - Master of Software Engineering
 - Master of Information Security
- Master of Science / Doctor of Philosophy (with Thesis - Research)
 - Database Systems
 - Security in Computing
 - Software Engineering
 - Information Systems
 - Computer Networks
 - Parallel and Distributed Computing
 - Intelligent Systems
 - Multimedia Computing
 - Human Computer Interaction
 - Data Science
 - Computer Graphics
 - Computer Vision
 - Information Retrieval

RESEARCH FOCUS

- Applied Informatics
- Computer Graphics, Vision and Visualisation
- Database Technologies and Application
- Digital Information Computation and Retrieval
- Human Computer Interaction
- Information Security
- Intelligence Computing
- Network, Parallel and Distributed Computing
- Software Engineering
- Wireless, Mobile and Quantum Computing
- Big Data and Data Analytic

CAREER OPPORTUNITIES

The employment potential for this programme is vast with graduates seeking to be systems analysts or information systems officers, database administrators, multimedia software developers, software engineers, networks and distributed systems managers, network programmers, systems engineers, software consultants, knowledge database engineers, lecturers, researchers, and many more.

ACHIEVEMENTS

The faculty has 2 patents, 46 copyrights and 1 trademark under its name and also a range of published works that are shared with the industry.

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FACULTY OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES

THE 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 – (I) DEPARTMENT OF BIOCHEMISTRY, (II) DEPARTMENT OF BIOPROCESS TECHNOLOGY, (III) DEPARTMENT OF CELL AND MOLECULAR BIOLOGY; AND (IV) 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 of Science / Doctor of Philosophy in various fields of study:
 - 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





RESEARCH FOCUS

- Industrial Biotechnology
- Plant Biotechnology
- Microbial Biotechnology
- Environmental Biotechnology
- Biomedical Biotechnology
- Fundamental Biotechnology

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.

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.



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FACULTY OF AGRICULTURE AND FOOD SCIENCES @ BINTULU CAMPUS

THE FACULTY OF AGRICULTURE AND FOOD SCIENCES IS UNIQUE AS IT IS LOCATED IN UNIVERSITI PUTRA MALAYSIA BINTULU SARAWAK CAMPUS (UPMKB) IN EAST MALAYSIA. TODAY, THE FACULTY IS ONE OF ITS KIND TO FOCUS ON AGRO-BIO FIELDS, SUPPORTING OUR 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 UPMKB'S ACADEMIC PROGRAMMES ARE IN LINE WITH EDUCATIONAL PHILOSOPHIES AND FULFILL THE MARKET DEMANDS. THE DEPARTMENTS THAT MAKE UP THE FACULTY ARE CROP SCIENCE, FORESTRY SCIENCE, ANIMAL SCIENCES AND FISHERY, BASIC SCIENCE AND ENGINEERING, AND SOCIAL SCIENCES.

PROGRAMMES OFFERED

Pre- Diploma

- Pre-Diploma Science

Diploma

- Agriculture
- Fishery
- Animal Health and Production
- Food Estate Management
- Forestry
- Agricultural Engineering
- Agribusiness
- Bachelor
- Bachelor of Bioindustrial Science
- Bachelor of Science in Aquaculture with Honours
- Bachelor of Forestry Science

Postgraduate

Master of Science and Doctoral Degree (by Research):

- Agribusiness
- Agricultural Economics
- Agronomy

- Analytical Chemistry
- Animal Production
- Anthropology
- Aquaculture
- Aquatic Biology
- Aquatic Ecology
- Biochemistry
- Botany
- Chemistry
- Entomology
- Environmental Chemistry
- Food Biotechnology
- Forestry
- Horticulture
- Land Resource Management
- Material Science
- Mathematics
- Microbiology
- Molecular Biotechnology
- Plant Biotechnology
- Plant Pathology
- Soil Science
- Wildlife Ecology
- Wood Science



RESEARCH FOCUS

- 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, forestry, farming, agricultural engineering and agricultural businesses.



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SCHOOL OF BUSINESS AND ECONOMICS

(formerly known as the Faculty of
Economics and Management)

THE NEED FOR COMPETENT PROFESSIONALS IN THE FIELDS OF AGRIBUSINESS AND RESOURCE ECONOMICS LED TO THE FORMATION OF THE FACULTY OF ECONOMICS AND MANAGEMENT IN 1974. AS OF 1ST MARCH 2020, THE FACULTY WAS REBRANDED TO SCHOOL OF BUSINESS AND ECONOMICS TO CATER TO THE INCREASING DEMAND AND NEEDS OF VARIOUS INDUSTRIES AND PUBLIC SECTORS AS WELL AS INTERNATIONAL INSTITUTIONS.

PROGRAMMES OFFERED

Undergraduate

- Bachelor of Accounting
- Bachelor of Economics
- Bachelor of Business Administration

Postgraduate

- Master of Economics
- Master of Entrepreneurship
- Master of Finance
- Master of Business Administration
- Master of Science (MSc)
- Doctor of Philosophy (PhD)

Executives Programmes

- Bachelor of Economics
- Bachelor of Accountancy
- Bachelor of Business Administration

PROGRAMME BY RESEARCH'S SPECIALISATIONS

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

Courses offered in Economics and Econometrics
Mathematical Economics, Microeconomics, Macroeconomics, Econometrics, Research Methodology, Current Issues in Economics, Financial Economics, Monetary Economics, International Finance, Applied Time Series Analysis, Economic Growth and Development, Economic Planning and Policy, Labour Economics,

Health Economics, General Equilibrium Technique, Industrial Structure and Competition, Competition and Public Policy, Theory and Policy of International Trade, Natural Resource Economics, Environmental Economics.

COURSES OFFERED IN BUSINESS STUDIES

Economic Analysis for Business Decisions, Behavioural Management, Business Intelligence and Analytics, Case Development and Analysis, Business Research Application, Human Talent Management, Business Decision Strategy, Managerial Communication, Organisation Development, Social and Ethical Responsibilities of Business, Management and Policy of International Business, Strategic Marketing Management and Business Law and Governance.

COURSES OFFERED IN ENTREPRENEURSHIP, HOSPITALITY AND TOURISM

Business Law and Governance, Entrepreneurial Marketing, Strategic Entrepreneurship, Business Venture, Innovation, Technology Management and Commercialization, Business Plan, Research Methods in Business, Strategic Human Resource Management and Organizational Behaviour and Cultural Intelligence.

Courses offered in Accounting and Finance
Corporate Finance, Islamic Finance, Research Methods in Finance, Financial Market and Institution, Financial Econometrics, Financial Derivatives, Investment and Portfolio Analysis, Islamic Economics System, Islamic Finance Products and Services, Shariah Compliant



Financial Planning and Investment Management, Accounting for Islamic Financial Transactions, Fiqh Muamalat, International Finance and Accounting, Financial Management, and Accounting for Decision Making.

RESEARCH FOCUS

Business Studies:

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

Economics and Business 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

Occupations can be sought in the public and private sectors as economists, economic planners, chartered accountants, auditors, tax advisors, management consultants, company secretaries, academicians, researchers, entrepreneurs, bankers and executives in the field of marketing, finance, operation and human resource. Other functional areas in local and international organizations also include banking, real estate, manufacturing, commerce, telecommunication and various industries.

LEARNING OPPORTUNITIES FOR WORKING ADULTS

Facilitating the learning needs of working adults, the Executive Programme offers part-time bachelor degree programmes in the field of Economics, Business Administration and Accounting for those working in the public as well as the private sectors. These programmes are exactly the same as the programmes offered to full-time students. Classes are conducted after office hours during weekdays. Students follow the trimester system and they complete their studies in 4 years.

Meanwhile, the Postgraduate Programs are offered to those who are working in the public and private sectors, as well as for fresh graduates. Classes are conducted weekdays, after office hours, mostly from 6.00-9.00pm. Students who enrolled in these postgraduate programs may graduate as early as three semesters (one and half years) for master programs and four semesters (two years) for Doctor of Philosophy programs.

ACHIEVEMENTS

School of Business and Economics (formerly known as the Faculty of Economics and Management) is the first university in the country and sixth in Southeast Asia to receive an accreditation from the international body, Association to Advance Collegiate Schools of Business (AACSB). AACSB accreditation is a mark of excellence in business education which is only obtained by less than five percent of business schools in the world. Since obtaining AACSB'S initial accreditation in 2012, School of Business and Economics has achieved yet another milestone in 2018 by attaining re-accreditation under a new set of standards implemented by AACSB in 2013. Engagement, Innovation and Impact are the 3 pillars of the 2013 standards achieved by School of Business and Economics through demonstrating competent and innovative curriculum design; impactful and relevant research programmes; and community and corporate engagement initiatives.

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PROGRAMME BY INSTITUTE

INSTITUTE OF BIOSCIENCE

THE INSTITUTE OF BIOSCIENCE (IBS) IS A PREMIER RESEARCH CENTRE THAT OFFERS A CONDUCIVE AND WORLD CLASS RESEARCH ENVIRONMENT. THE CENTRE 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, NUTRICEUTICALS 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 Natural Products
- Laboratory of Marine Biotechnology
- Laboratory of Molecular Biomedicine
- Laboratory of Vaccines and Immunotherapeutics
- Laboratory of Cancer Research UPM-MAKNA



RESEARCH PROGRAMMES

- Natural Products Discovery
- Natural Products Metabolomics
- Aquatic Diagnostics and Health Management
- Nutri-cosmeceutical, Nutrigenomics and Nanodelivery
- Therapeutics and Engineered Proteins
- Vaccines and Diagnostic Technologies
- Immunotherapeutics and Bioceuticals
- Translational Genomics Research
- Cancer Diagnostics and Research Therapeutics

FIELD OF STUDIES

- 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 5 commercial products, 22 patents and 117 patents pending.
- Established a few core facilities for research and services such as the Microscopy Unit, Rodent Testing Facility, High-end Spectroscopy Facility, Microbial Culture Collection Facility and Genomics and Gene Expression Facility.
- Maintains a 2-ha UPM Conservatory Park which has a collection of more than 500 species of medicinal plants for research and teaching.

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INSTITUTE OF ADVANCED TECHNOLOGY

INSTITUTE OF ADVANCED TECHNOLOGY (ITMA), UNIVERSITI PUTRA MALAYSIA WAS ESTABLISHED IN 1999 AS AN INTERDISCIPLINARY ADVANCED RESEARCH INSTITUTE. IN LINE WITH THE UNIVERSITY'S RESEARCH RESTRUCTURING IN 2012, ITMA HAS REFORMED ITS NICHE AREA TO ADVANCED MATERIALS AND NANOTECHNOLOGY FOCUSSED ON AREAS SUCH AS MATERIALS SYNTHESIS AND CHARACTERISATION, MATERIALS PROCESSING AND TECHNOLOGY, AND MATERIALS APPLICATIONS IN SENSORS AND FUNCTIONAL DEVICES.

ITMA DEVELOPS WORLD-CLASS RESEARCH LABORATORIES, ATTRACTS RENOWNED RESEARCHERS AND TRAINS FUTURE RESEARCH LEADERS IN NICHE AREAS RELATED TO ADVANCED MATERIALS AND NANOTECHNOLOGY. ITMA SHARES ITS RESEARCH FINDINGS, EXPERTISE AND FACILITIES WITH RESEARCH COMMUNITIES AND INDUSTRIES THROUGHOUT THE WORLD.

RESEARCH PROGRAM

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

FIELD OF STUDIES

- Nanotechnology
- Sensor technology
- Nanosciences
- Energy
- Advanced materials
- Green engineering



INSTITUT TEKNOLOGI MAJU

<http://www.itma.upm.edu.my>

LABORATORIES

Three well-equipped laboratories are available in facilitating research which support the advancement in advanced materials and nanotechnology through interdisciplinary programmes, and collaboration with research communities throughout the world.

- Materials Synthesis and Characterisation Laboratory (MSCL)
- Materials Processing and Technology Laboratory (MPTL)
- Functional Devices laboratory (FDL)

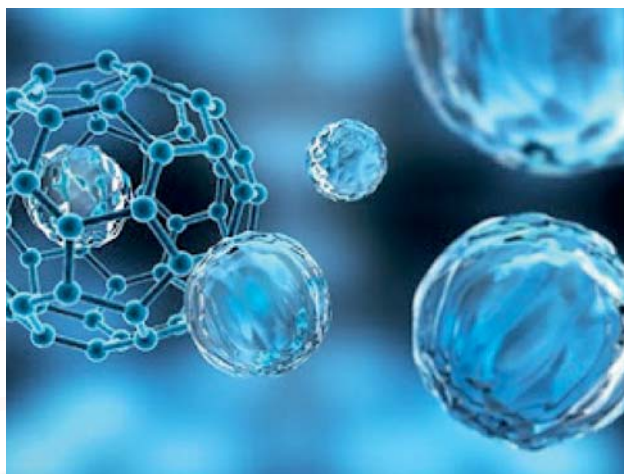
ANALYTICAL LABORATORY

Institute of Advanced Technology (ITMA) provides an analytical laboratory which accommodates various equipments and offer testing services to meet the needs of research, especially in the areas of advanced materials and nanotechnology. Testing services offered are as follows:

1. Molecular analysis
2. Thermal analysis
3. Particle size analysis
4. Porosity testing
5. Mechanical testing
6. Chromatography testing
7. Magnetic characterisation

LIST OF EQUIPMENTS

- Ultra High Resolution Scanning Electron Microscope (FESEM) with Energy Dispersive X-Ray (EDX) (with International Standard ISO/IEC 17025:2005 recognition)
- RAMAN Spectroscopy
- Thermo Gravimetric Analyser (TGA/ DSC)
- Nano Sizer
- Fourier Transform Infrared (FTIR)
- Surface Area Analyser (BET)
- Universal Testing Machine (UTM)
- UV Visible Spectro Photometer (UV- Vis)
- Rheometer
- Vector Network Analyser (VNA)
- Hysteresis Graph System
- Gas Chromatography (GC-FID, GC- TCD)



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MALAYSIAN RESEARCH INSTITUTE ON AGEING

THE INSTITUTE OF GERONTOLOGY (IG), UNIVERSITI PUTRA MALAYSIA WAS FOUNDED ON 1ST 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 A NATIONAL CENTER 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, COMMERCIALIZATION AND INNOVATION (RCDI) ON AGEING.

Under the 11th Malaysia Plan, the institute was mandated to conduct research to support active and productive ageing. MyAgeing™ focuses 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 that affect older adults. The institute monitors and

coordinates development of the field through national, regional and international networks. MyAgeing™ has achieved major accomplishments in ageing research, training and social innovations through the support of global partners such as the United Nations Population Fund (UNFPA), the United Nations International Institute on Ageing (INIA), Malta and the Citi Foundation.

The institute offers postgraduate study opportunities to train future generations of gerontologist by harnessing the expertise of university-wide faculty members. It is also engaged in professional as well as community outreach activities that translate research into action through partnership with the government, industry and civil society.

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 PROGRAMMES

1. Functioning in Old Age

Research focusses on identifying the multifactorial domains associated with improved physical, cognitive, mental as well as social functions and its relationships to quality of life and well-being. The aim of this research programme is to show how research and technology could be used in maintaining and improving the health of older persons.

2. Aged Care

Research programme on care in later life focusses on the conveyance of what is needed for holistic health and social care, welfare and social protection of older persons. Since aged care is directly influenced by policy and legislative frameworks, the research plays a role in providing evidence-based information for key actors in the public and private sector.

3. Empowerment of Older Person

The aim of this research programme is to empower older persons to exert greater control in the decision-making of choices and on all other aspects of their lives to lead an active, productive, and positive old age. Studies focus on human potential in later life and improving the capability and opportunities for seniors to contribute to the family, community and society

ACHIEVEMENT

- 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 & Ph.D) in the field of Gerontology in Malaysia. It also runs regular training programmes for professional development in the field of ageing.



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INSTITUTE FOR MATHEMATICAL RESEARCH

INSPEM OR THE INSTITUTE FOR MATHEMATICAL RESEARCH FOCUSSES 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 AS TWO-WAY CONDUIT BETWEEN PUBLIC AND PRIVATE AGENCIES THROUGH WHICH PROBLEMS REQUIRING MATHEMATICAL SOLUTIONS CAN BE CHANNELLED AND EXAMINED IN DEPTH. AT THE SAME TIMES 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 POTENTIAL TO CARRY OUT RESEARCH AND TO NURTURE THEIR TALENTS AS THEY PURSUE THEIR POSTGRADUATE DEGREES WITH US.





IN ESTABLISHING INSPERM AS A WORLD- CLASS MATHEMATICS RESEARCH INSTITUTE, THE INSTITUTE HAS PUBLISHED WELL-RECEIVED WORKS IN VARIOUS SOURCES AND RECEIVED EVER-GROWING GRANTS AND CONSISTENTLY PRODUCED AWARD- WINNING RESEARCHES LOCALLY AND INTERNATIONALLY.

RESEARCH PROGRAMMES

- Analytical Structural Modelling and Topological Networking
- Cryptography and Computational Number Theory
- Computational Operations Research
- Statistical Modelling and Computational Statistics
- Numeric and Algorithmic
- Mathematical Structures and Techniques in Physical Sciences
- Mathematical Values in Society
- Pedagogical Developments in Mathematics

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

ACHIEVEMENT

- Recognition from the European Mathematical Society (EMS) as an "Emerging Regional Center of Excellence" on 26th May 2014.
- Recognition from the Italian counterpart as a Malaysia-Italy Centre of Excellence for Mathematical Sciences (MICEMS) on 10th March 2016.

INSPERM GALLERY

Materials which are exhibited at the INSPERM Gallery include research posters, INSPERM Publications, awards and other similar materials.

ULUGH BEG COMPUTER LABORATORY

This laboratory equips with 40 desktops for use in activities organised by INSPERM. Among the softwares provided in this laboratory include LaTeX, SPSS, Minitab, SAS, R and other mathematical and statistical software.

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INSTITUTE OF AGRICULTURAL AND FOOD POLICY STUDIES

THE INSTITUTE OF AGRICULTURAL AND FOOD POLICY (IKDPM) FOCUSES ON PROVIDING SOLUTIONS TO SUSTAINABLE AGRICULTURAL DEVELOPMENT IN THE FACE OF GROWING COMPLEXITY OF CURRENT CHALLENGES SUCH AS RESOURCE DEPLETION, CLIMATE CHANGE AND GLOBALISATION. IT PROVIDES ALTERNATIVE PERSPECTIVES AND POLICY OPTIONS TO POLICY MAKERS AND THE PUBLIC AT LARGE.

IKDPM'S CORE ACTIVITIES ARE RESEARCH, CONSULTANCY, AND PUBLIC SERVICE WITH THE FOLLOWING OBJECTIVES:

- TO ANALYSE THE IMPACT OF MACRO POLICY CHANGES ON THE AGRICULTURE AND FOOD SECTOR;
- TO PROVIDE POLICY OPTIONS FOR MAJOR ISSUES CONSTRAINING THE AGRICULTURE AND FOOD SECTOR; AND
- TO IDENTIFY AND ANALYSE CURRENT AND FUTURE ISSUES IN AGRICULTURE, FOOD AND NATURAL RESOURCES.

LABORATORIES

- Bio-resource and Environmental Policy Laboratory
- Quantitative Methods for Policy Analysis Laboratory
- Agricultural Production, Marketing and Trade Policy Laboratory

RESEARCH PROGRAMMES

- The Economics of the Agricultural Marketing and Trade Policy
- The Prospects and Sustainability of Food Security in Malaysia
- System Dynamics Analysis of the Malaysian Agricultural Sector
- Natural Resources and Environmental Policy for Sustainable Development

FIELD OF STUDIES

- Agricultural Policy
- Natural Resource Policy

ACHIEVEMENTS

- Appointed as the consultant to assist the Economic Planning Unit of Selangor in developing the "Agricultural Development Master Plan" for the state.
- Commissioned by the Department of Fisheries, Malaysia to study the marketing and trade of sharks and rays in Sabah.
- Collaborated with SME Corp. to develop the Input-Output Table for SMEs in Malaysia.
- Collaborated with the Department of Statistics Malaysia and United Nations Statistics Division to develop the Roadmap for System of Environmental-Economic Accounting (SEEA), 2016-2020

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INSTITUTE OF SOCIAL SCIENCES STUDIES

DEDICATED TO THE STUDY OF SOCIO-ECONOMIC ISSUES ON YOUTH AND COMMUNITY. THE INSTITUTE FOR SOCIAL SCIENCE STUDIES (IPSAS) MAKES MEANINGFUL CONTRIBUTION TO THE NATION AND POLICY MAKERS THROUGH RESEARCH FINDINGS AND RECOMMENDATIONS. IPSAS'S ORGANISATIONAL STRUCTURE INCLUDES HEADS OF LABORATORIES WHO ARE RESPONSIBLE FOR MANNING THE RESEARCH AND GRADUATE STUDIES ACTIVITIES WITHIN THE LABORATORY LEVEL. CURRENTLY, THERE ARE THREE LABORATORIES:

- LABORATORY OF YOUTH SOCIAL HEALTH AND WELL-BEING
- LABORATORY OF YOUTH CITIZENSHIP AND LEADERSHIP
- LABORATORY OF CYBER-GENERATION

EVERY RESEARCH PROGRAMME IS HEADED BY AN ACADEMIC EXPERT IN THE PARTICULAR RESEARCH FIELD. EACH LABORATORY COMPRISES A RESEARCH FELLOW, POST-DOCTORAL RESEARCHERS, RESEARCH ASSOCIATES, RESEARCH OFFICERS AND SOCIAL RESEARCH OFFICERS. THE VARIOUS RESEARCH PROJECTS CONDUCTED BY THE INSTITUTE CREATE A CONDUCIVE ACADEMIC ENVIRONMENT AS WELL AS THE PROMOTION OF LINKAGES AND NETWORKS AMONG INTELLECTUALS, PHILOSOPHERS AND THE COMMUNITIES.

As a social science research-based institute and multidisciplinary in its approach, IPSAS focusses on youth development and leadership, ICT and social communication, and community development. IPSAS also collaborates with local government agencies, non-governmental organisations, including universities in research activities, consultation and seminar in local and international arena.

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.



**Institut Pengajian
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HALAL PRODUCTS RESEARCH INSTITUTE

THE 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





ACHIEVEMENTS

- The 1st Halal Analytical Services Laboratory in Malaysia under the Prime Minister's department.
- Developed a method and kit for extracting and identifying gelatine protein known as GelExt KIT.
- Developed a HaFYS Porcine DNA Test Kit for the detection of porcine DNA in food and non-food products using portable PCR.
- Won numerous awards locally and internationally.
- Achieved Certificate of Filing on patent of "A Device for Identifying Source of Fat, a System and a Method Thereof".
- IPPH has numerous linkages and collaborations with outstanding international institutions and agencies such as Kuwait Institute of Scientific Research (KISR), Kuwait; Nippon Express and Functional Food Creation of Japan, Japan; and Asia Biotech, China.
- Awarded "Halal Training Provider" by Jabatan Kemajuan Islam Malaysia (JAKIM).
- Awarded Halal Research and Science Award 2018 by the Halal Industry Development Corporation (HDC).
- Commercialised "Thohira" muslim friendly animal feed and supplements.
- Commercialised "Trichobiome" organism biocontrol for agriculture.



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INSTITUTE OF TROPICAL FORESTRY AND FOREST PRODUCTS

MALAYSIA 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 BEING CONVERTED INTO BIOPOLYMERS AND BIOENERGY. THE INSTITUTE OF TROPICAL FORESTRY AND

FOREST PRODUCTS AIMS TO SPEARHEAD THE UTILISATION OF TROPICAL PLANT BIOFIBRES THROUGH EFFICIENT AND SUSTAINABLE BIORESOURCE SCREENING AND PRODUCTION, 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, AND ECONOMIC AND ENVIRONMENTAL VALUATION DISCIPLINES, THE CENTRE IS UNIQUE AND ONE OF ITS KIND.



FIELD OF STUDIES

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

RESEARCH PROGRAMMES

- Pulp and Paper, and Pollution Control
- Biopolymer and Derivatives
- Fibre Characterisation and Processing Technology
- Biocomposite Technology and Design
- Tropical Rainforest Ecosystem Services
- Phytoresources, Selection and Plantation

AREAS OF EXPERTISE

- Bioresource Screening and Plantation Development
- Bioresource Processing Technology
- Biocomposite Technology and Design
- Biopolymer and Derivatives
- Pulp and Paper Technology
- Pollution Control
- Economic Valuation and Accounting
- Environmental Impact Assessment

LABORATORIES

- Sustainable BioResource Management
- Biocomposite Technology and Design
- Biopolymer and Derivatives

OUR STRENGTHS

- The only institute 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 & paper, and economic and environmental impact analysis.
- The only biocomposite centre for tropical wood and fibres with state-of-the-art equipment.
- 60% of our publication is in Q1 and Q2 journals.
- Annual research grants with an average of RM 1.8 million from various sectors.
- Holds 3 National patents.
- Linked with 56 National and International bodies.



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INSTITUTE OF TROPICAL AGRICULTURE AND FOOD SECURITY

THE INSTITUTE OF TROPICAL AGRICULTURE AND FOOD SECURITY (ITAFoS) IS A FOCAL POINT FOR IMPACTFUL MULTIDISCIPLINARY RESEARCH TO ACHIEVE FOOD SECURITY. 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 MAKING ITAFoS A DESTINATION OF CHOICE FOR HIGHLY TALENTED RESEARCHERS, ACADEMICS AND POSTGRADUATE STUDENTS IN TROPICAL AGRICULTURE RESEARCH.



RESEARCHERS 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. THE INSTITUTE HAS BEEN AWARDED TWO LONG-TERM RESEARCH GRANT SCHEME (LRGS) PROJECTS BY THE MINISTRY OF EDUCATION, MALAYSIA AMOUNTING TO RM 21,683,532 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

RESEARCH PROGRAMMES

- Laboratory of Climate-smart Food Crop Production
 - i. Improvement and Sustainable Rice Production for Food Security
 - ii. Production of High Value Vegetables under Protected Cultivation in Tropics
- Laboratory of Sustainable Animal Production and Biodiversity
 - i. Strategic Feed Technology and Nutrigenomics
 - ii. Sustainable Animal Production through Enhanced Environmental and Welfare Management Practices
- Laboratory of Food Safety and Food Integrity
 - i. Improvement of safety, quality and authenticity of food and feed for sustainable development
 - ii. Development of methods and strategies for the detection of adulteration and production of safe foods

FIELD OF STUDIES

- Agronomy
- Agriculture Technology
- Animal Welfare
- Animal Biotechnology
- Animal Nutrition
- Animal Physiology
- Animal Production
- Animal Waste Management
- Bioinformatics and Systems Biology
- Food Safety
- Genetics and Breeding
- Horticulture
- Microbial Biotechnology
- Molecular Biology and Genetics Engineering
- Pest Management
- Plant Biotechnology
- Plant Pathology
- Plant Physiology
- Post-harvest Technology
- Soil Science
- Weed Science



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INSTITUTE OF PLANTATION STUDIES

INSTITUTE 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.





ACADEMIC PROGRAMMES

The 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

- Agricultural Genomics
- Sustainable Plantation Management
- Plantation Technology
- Bioinformatics and System Biology
- Pest Management
- Agribusiness

POLICY AND ECONOMY LABORATORY

Research areas include production economics, marketing, management, value chain, trade and the socio-economics of smallholders and plantation workers as well as sustainability of the plantation sector. Research in production economics observe issues related to efficiency, productivity and best practices in addressing sustainable issue. Research in value chain refers to evaluating the roles and structure of "chain actors" including smallholders, along commodity value chain and propose suitable intervention to enhance industrial commodity sector's value added.

SCIENCE AND TECHNOLOGY LABORATORY

The laboratory focusses on crop care and improvement as well as precision agriculture and automation. Crop care and improvement look at sustainable plantation production and main challenges faced by the plantation industry players such as greenhouse gases, pest and disease as well as poor plant nutrition, soil quality and water supply. Precision agriculture and automation focuses on employing geospatial technologies such as remote sensing images, unmanned aerial vehicle (UAV), proximal and remote sensors and geospatial modelling that eventually aim to promote efficient plantation management.



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INTERNATIONAL INSTITUTE OF AQUACULTURE AND AQUATIC SCIENCES

THE INTERNATIONAL INSTITUTE OF AQUACULTURE AND AQUATIC SCIENCES (I-AQUAS) IS THE NEWEST RESEARCH INSTITUTE (DECEMBER 2017) FORMED IN UPM OFFERING A RESEARCH PLATFORM ON WIDE RANGE OF DISCIPLINES PERTAINING TO AQUACULTURE AND AQUATIC SCIENCES. THE INSTITUTE HAS TWO RESEARCH LABORATORIES THAT ARE EQUIPPED WITH RESEARCH FACILITIES INCLUDING A MARINE AND FRESHWATER HATCHERIES FOR RESEARCHERS TO PURSUE THEIR INTEREST IN TROPICAL AQUACULTURE AND ECOSYSTEM MANAGEMENT RESEARCH. AT PRESENT THE INSTITUTE ACCOMMODATES 12 SCIENTISTS MAINLY IN THE SUBJECT AREAS OF AQUACULTURE AND AQUATIC SCIENCES.

I-AQUAS RESEARCH NICHE IS AQUACULTURE AND AQUATIC SCIENCE WITH A SPECIFIC FOCUS ON THE HATCHERY PRODUCTION OF COMMERCIALLY IMPORTANT FINFISH, CRUSTACEAN AND MOLLUSK AND ECOSYSTEM MANAGEMENT OF BOTH MARINE AND FRESHWATER SYSTEMS. OUR AQUACULTURE INTERDISCIPLINARY RESEARCH STRENGTH ENCOMPASSES GENETIC SELECTION AND SELECTIVE BREEDING, FISH NUTRITION AND FEED TECHNOLOGY, ALTERNATIVE SOURCES OF DIETARY PROTEIN, BIOFLOC TECHNOLOGY, PROBIOTICS AND PREBIOTICS, FORMULATED FEED ALTERNATIVES TO ARTEMIA AND LIVE FOODS DEVELOPMENT. LIKEWISE, OUR STRENGTH IN AQUATIC SCIENCES ALLOWS US TO UNDERTAKE RESEARCH AND

PROVIDES ADVISORY SERVICES IN WETLANDS MANAGEMENT PARTICULARLY SEAGRASS AND MANGROVE ECOSYSTEMS.

I-AQUAS DESPITE ITS NEW ESTABLISHMENT STATUS HAS A LONG PERIOD OF COLLABORATIVE RESEARCH WITH INTERNATIONAL PARTNERS SUCH AS JSPS, JICA AND GHENT UNIVERSITY THROUGH ITS PREVIOUS COMAS SET UP. THESE NETWORKING AND RESEARCH PARTNERSHIP HAVE ENABLED US TO GREATLY ENHANCE OUR RESEARCH CAPABILITIES AND AT THE SAME TIME PORTRAYING I-AQUAS AS ONE OF THE BIG PLAYER IN AQUACULTURE AND AQUATIC SCIENCES RESEARCH INSTITUTE IN THE REGION. OUR LINKAGES WITH INTERNATIONAL AGENCIES INDUSTRY HAVE ALSO BENEFITED US IN TERM





RESEARCH GRANT ACQUISITION AND TECHNICAL ASSISTANCE. BEING A NEW INSTITUTE, WE ASPIRE TO BE AN INTERNATIONAL INSTITUTE THAT PURSUES EXCELLENCE AND EMBRACES AND LEVERAGES DIVERSITY IN ALL OF ITS FORMS.

LABORATORIES

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

RESEARCH PROGRAMMES

- Breeding and Genetic Selection
- Fish and Shellfish Nutrition
- Sustainable Aquaculture Production Systems
- Larval and Post Larval Culture
- Live Food Culture
- Biofilm Development and Quorum Sensing
- Biodiversity, Ecosystem Management and Conservation
- Aquatic Pollution and Ecotoxicology
- Seaweed, Seagrass Biology and Ecology

FIELD OF STUDIES

- Aquatic Ecology and Biodiversity
- Aquaculture Biotechnology
- Fish Nutrition and Feed Technology
- Aquatic Microbial Ecology
- Fish Genetic and Breeding
- Sustainable Aquaculture
- Aquatic Pollution and Ecotoxicology
- Environmental Chemistry

ACHIEVEMENTS

Being a newly established institute, we are still gathering our needed resources and manpower to move forward progressively in realising our goal to be an international institute with excellent achievement in research, and publication. For the next 3 years (2019 – 2022), our researchers have managed to secure RM 4.0 million international research funding and in addition, we have at this juncture also accumulated more than RM 1.5 million of local research grants to fund our research activities.



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UPM ALUMNI CENTRE

WITH EACH GRADUATION, HUNDREDS OF GRADUATES HAVE PASSED THROUGH UPM ON THEIR WAY TO GREATER EXPERIENCES IN EVERY FACET OF THEIR YOUNG LIVES. THEY GO ON TO BECOME LEADERS OF SOCIETY, INDUSTRY, ECONOMY AND BE PROFESSIONALS WITH THE KNOWLEDGE, SKILLS AND MINDSETS TO DRIVE THEIR RESPECTIVE COUNTRIES FORWARD TO THE NEXT LEVEL. WHILST THE GRADUATES GO HOME EMPOWERED, UPM TOO HAS GAINED A LOT BY CONTINUOUS IMPROVING OUR PROGRAMMES, FACILITIES, TEACHING AND LEARNING MODULES AND MAKING UPM A MORE POPULAR AND GRACEFUL PLACE FOR STUDY BY BOTH LOCAL AND GLOBAL STUDENTS.

UPM Alumni Centre provides and facilitates strategic partnerships between UPM, the UPM Alumni Association (PAUPM), the public and other relevant parties. The Centre also provides the platform for alumni and various industries to participate in UPM activities that 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 pursuit of academic excellence through the support of alumni.
- Coordinate and manage income generation and help increase funding for scholarship 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 ALUMNI DAY – 21ST MAY

UPM Alumni Day is celebrated with zest code 21 May of each calendar year. The day has a special historical value to UPM for on this auspicious day UPM was declared open, to be precise on 21st May 1931. UPM was then known as the School of Agriculture Malaya and since then Malaysia's first university has transformed itself into a world-class university with students from over 70 countries worldwide. To celebrate the grand day, a number of events are held such as: Tautan Mahabbah, Serdang Heritage Forum and friendly sports like bowling, golf and rugby. The grand finale is of course the Homecoming and Alumni Day Dinner.





DISTINGUISHED UPM ALUMNI LECTURE SERIES: LIVING THE SERDANG STORY

A Knowledge Transfer Partnership platform through a lecture series created for UPM alumni to share their knowledge and experiences with the campus community specifically with the faculty they are associated with before. Branded as 'Distinguished UPM Alumni Lecture Series' or DALS in short, this lecture series are a showcase of alumni engagement with UPM. Distinguished UPM Alumni which identified by the faculty will be invited to be a speaker to share their skills in career and life experience since graduating from the university. This platform is an avenue for alumni to give back to the alma mater, through the faculty and is held yearly by each faculty. DALS' which is basically a forum to showcase alumni engagement with UPM, and a platform for them to give back to their alma mater through their empowerment as rightful ambassadors of UPM without measure of loyalty or time. It is hoped that this programme will demonstrate the role of future UPM Alumni as ambassador of UPM, the keepers of tradition of excellence, supporters of the university, and at the same time inculcate a sense of pride and belonging to UPM.

THE ALUMNI MENTORSHIP PROGRAMME

This programme involves students, senior alumni and academic staff and serves to build bonding among students, which allows them to bond better between students and the university, including a 'love' for their alma mater. This session is usually held during semester period in a spirit of interaction with the UPM motto: 'With Knowledge We Serve'. Student's gains confidence, which enhances their career options and interfacing with potential employers.

HOMECOMING AND REUNIONS

Homecoming is a tradition of celebrating UPM's alumni to foster the sense of belonging among alumni, to enable alumni to meet old friends and acquaintance to strengthen friendships among alumni and alma mater. It is also seen as the platform for alumni to share memories they have experiences together with course mates, lecturers, and new alumni. The Homecoming in UPM started from the year 2001 and involves close cooperation between the UPM Alumni Centre together with the UPM Alumni Association and the Homecoming. The programme has been incorporated as one of the recurring events in the Celebration of the UPM Alumni Day on 21st of May.



UPM ALUMNI - LOCAL AND INTERNATIONAL CHAPTERS

The growing number of local and international students in UPM has prompted the Alumni 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 Segenggam Putra (Silat Cekak Hanafi), Diploma Pertanian87/90, Sains Pertanian UPM (85ERS), Cyperus, x-UPMCS, Golden Girls of Serdang, Last Kopek, Great Serdang Debate, Semenggok, CAMC' 71, Counselling, Sabah, Sarawak, Northern, Johor and International chapters, UPM Alumni Chapter Indonesia based in Jakarta, Padang, Medan and Riau; Alumni Chapter Mauritius and Alumni Chapter Iran.



YAYASAN PAK RASHID UPM

ACUPM acts as the secretariat for Yayasan Pak Rashid (YPR). The foundation was established in 2000 and named after Mohd Rashid Ahmad (Dip. Agri, 1937) or fondly known as Pak Rashid to his colleagues and students. He was a lecturer and the Farm Director during the days of the College of Agriculture Malaya. He was among the pioneers during the establishment of the agricultural university, Universiti Pertanian Malaysia. YPR supports the vision of UPM towards education excellence through development programmes in agricultural education. The Foundation disburses research grants to young researchers, scholarships and bursaries to excellent and needy students. YPR awards the YPR Gold Medal to the excellent students annually during the Convocation Ceremony.



ALUMNI VOLUNTEER AMBASSADOR (AVA)

Alumni Volunteer Ambassador is a new programme where it focuses on volunteering involvement among UPM alumni in programme and activities organised either by Alumni Centre UPM or from external entities.

There are four (4) clusters under AVA known as Alumni Speaker Opportunities (ASO), Alumni Mentoring (AM), Alumni Community (AC), and Alumni Visibility (AV).

i. Alumni Speaker Opportunities (ASO)

The essence of ASO is to encourage alumni participation to be speakers for seminar, workshop, forum, talk to UPM students, UPM staff or even invitation from external entities appropriate to the content. Examples of programmes that can be run under ASO are Town Hall Session, Alumni Sharing Knowledge or public lecture series.

ii. Alumni Mentoring (AM)

Mentoring concept program aims to encourage participation from UPM alumni to provide mentoring sessions to UPM students, UPM staff or mentoring sessions to external entities based on agreed mutual agreement. Examples of programmes that can be execute under AM are Alumni Mentorship, training session for UPM staff to improve their soft skills as well as English language training session.



iii. Alumni Community (AC)

In general, community based programs are CSR programs. These CSR programs will be involving UPM alumni to join programs and activities organized by ACUPM or external entities. Alumni Community is expected to boost ACUPM and UPM visibility. Example of activities that can be executed under AC are beach cleaning, visit and give contribution to the orphanage, elderlies or *tahfiz* students.

iv. Alumni Visibility (AV)

UPM alumni helps in programs organized by ACUPM in terms of promotions to boost ACUPM and *Alma Mater* visibility. Moreover, UPM alumni plays a role as UPM ambassador through executed programs and activities.



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