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Kalpana A/P Ramachandran
Aisyatul Hanisah Binti Mazri
Mohd Navi Bin Yusof
## AT A GLANCE

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## FACULTIES AND CENTRES

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Geographically, Malaysia is as diverse as its culture. Malaysia is divided into 13 states and 3 Federal Territories, separated by the South China Sea with 11 states and 2 federal territories (Kuala Lumpur and Putrajaya) in Peninsular Malaysia and two states and 1 federal territory (Labuan) in East Malaysia.

Pahang, which covers an area of 35,960 sq.km, is the largest state in Peninsular Malaysia. Pahang has so much to offer the visitor that tourists, both locals and foreign, come back again and again.

Pahang has cool green mountains, rain forests, hill resorts, tranquil fishing villages, long stretches of sandy beaches, mysterious caves and unspoilt lakes.

With a population of 1 million, the state, which lies on the East Coast, offers the finest in beaches such as the famous Cherating Beach, Teluk Chempedak and Beserah Beach. There are the renown hill resorts of Cameron Highlands, Genting Highlands and Fraser’s Hill. If you are looking for adventure, why not visit parks such as Kenong Rimba, Endau-Rompin and Taman Negara (National Park).
Kuantan, the capital of the State of Pahang is the gateway to an adventurous, thrilling and exhilarating tropical holiday. The town located on the east coast of the state facing the blue South China Sea is fast developing into a modern commercial center while still retaining its unique age-old charm and heritage. Modern high-rise structures cohabit harmoniously with pre-war shop houses and colonial buildings. The State Mosque, with its distinctive dome and minarets in a pastel shade of sky blue and mint green stands regal in the middle of the town as a prominent landmark to newcomers to the town.

Places of interests are aplenty in and on the outskirts of Kuantan. A visit to Kuantan is not complete without visiting some of these places, which never fail to arouse the curiosity of the visitors.

The Kuantan river cruise takes visitors through the picturesque landscape of a 500-year mangrove forest reserve that spreads along the Kuantan River. The swamp which covers an area of 340 hectares, is home to a fascinating varieties of estuarine plants, birds and fish species.

Places of interests are aplenty in and on the outskirts of Kuantan. A visit to Kuantan is not complete without visiting some of these places, which never fail to arouse the curiosity of the visitors.
Universiti Malaysia Pahang (UMP) offers a wide range of practical-based higher education programmes in engineering and technology to produce competent engineers. The application-oriented curriculum which integrates theory and practice in the concept of a teaching factory emphasizes experiential and action learning that is task-oriented and concentrated on problem-solving.

**UMP welcomes you**

UMP focuses on applied research and industrial projects to enrich the teaching and learning processes while promoting the commercialization of the research products, thus exposing our students to the latest research and development activities in the industries.

UMP's laboratories have latest equipment resembling those in industries. A 24-hour internet connection serves students through wired & wireless networks throughout the campus, making in a conducive teaching & learning environment.

Our campus is fully-equipped with the latest ICT systems, including a wireless broadband internet connection to facilitate the university's electronic-based e-Learning and e-Management activities. UMP is committed to be development of human capital and technology to fulfill the needs of industries and contribute of national development.
Fast Facts and Figures*

*as on 10 July 2016.

- 2 Campuses
- 9 Faculty
- 1 Center of Language
- 6 Center of Excellence (Coe)
- 2,046 Total Postgraduate Students
- 652 International Students from 30 Countries

<table>
<thead>
<tr>
<th>Professor</th>
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<tr>
<td>Associate Professor</td>
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<tr>
<td>Senior Lecturer</td>
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<td>Lecturer</td>
<td>285</td>
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<td>Language Teacher</td>
<td>41</td>
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Find Us

www.ump.edu.my
http://ips.ump.edu.my/
Institute of Postgraduates Studies UMP
UMP Postgraduate Association
ips@ump.edu.my
UMP now operates at two separate campuses, one in Gambang of about 30 km away from the state capital Kuantan and another in the designated royal residential town of Pekan. Collectively, the University encompasses a land area of 65,000 square meters, accommodating 5,000 students.

The University is only 2.5 hours away from Kuala Lumpur, via the East Coast Expressway. Being strategically located in the East Coast Industrial Belt of Peninsular Malaysia - which hosts a number of multinational corporations (MNCs) in the chemical, petro-chemical, manufacturing, automotive and biotechnology industries. UMP students get extensive exposure to the latest development in the fields of engineering and technology.

UMP’s main campus of 642 acres in Pekan began its operation in July 2009. At present, the campus harbours three engineering faculties, namely the Mechanical, Electrical & Electronics and Manufacturing Engineering faculties. When construction is fully completed, the Pekan campus can accommodate up to a total of 10,000 students and 2,000 staff.

Collectively, the University encompasses a land area of 65,000 square meters, accommodating 5,000 students.
Greetings from Universiti Malaysia Pahang!

Highly committed in pursuing the vision to become a distinguished technological university, three critical aspects are being addressed by the management within the framework of UMP Strategic Plan 2016-2020 – abundant resources, constructive governance and pool of talents.

Here in UMP, we believe in developing intellectual and professional talents at all study levels, thus challenging us to enhance our academic infrastructures and to maintain the quality of our academic talents, with competitive academic packages both at undergraduate and postgraduate levels.

As one of Malaysia’s Public Universities, UMP is also a member of Malaysian Technical Universities Network (MTUN) focusing on the fields of engineering, science, and technology and management with 10,000 students, both locally and internationally, coming from over 30 countries across the globe.

We also look forward to welcoming aspiring students to gain their postgraduate experience at any one of our nine Faculties, six Centres of Excellence and the Centre of Modern Languages and Human Sciences. With state-of-art facilities and industrial-standard equipments, the engineering and science laboratories in UMP provides a conducive research environment for our postgraduates, thus enabling them to experience an exciting and fulfilling academic endeavours.

Join us now and be part of our distinguished intellectual community!

PROFESSOR DATO’ DR DAING NASIR IBRAHIM
Vice-Chancellor, Universiti Malaysia Pahang
VISION
A Distinguished Technological University.

MISSION
We provide high quality education, research and services in engineering and technology in a culture of creativity and innovation.

OBJECTIVES
To produce outstanding graduates by providing competitive engineering and technological programmes.

To spearhead cutting edge industry-relevant research initiatives.

To be a leading service provider to industries and community based on our niche and areas of expertise.

To be recognized as an institution for excellent management and work culture.

PHILOSOPHY
Knowledge, a trust bestowed by Allah to man vicegerent on earth, is to be fully utilized. Emphasis is an applied knowledge guided by Islamic values to develop human capital towards universal harmony and prosperity.

CORE VALUES
Strong bond with the creator.
Steadfast in upholding shared principles.
Creative in making wise decisions.
Resolute in facing challenges.
Proactive in taking actions.
The Malaysian government puts much emphasis on postgraduate studies, both at the Masters and PhD level. This is because with postgraduate education, Malaysia will be able to produce human capital with a first-class mindset who are knowledgeable, have the appropriate skills, and have a superior personality to face developmental challenges in a knowledge and innovation-based economy.

At UMP, we offer PhD, Masters by research and Masters by coursework. UMP is a technological, engineering-based university, and offers social science and business in addition to engineering programs. UMP believes that a combination of soft and hard sciences will be able to bring the university to greater heights.

The areas of research are broadly classified into Engineering and Technology cluster. This Prospectus will explain the type of programs and areas of research that we offer. UMP has students from diverse nationalities. It covers over 23 countries. Over the years, the number of postgraduate students has increased steadily. As of April 2016 UMP has 1176 active postgraduate students which are 691 Master students and 485 PhD Students.

The main objective of Institute of Postgraduate Studies (IPS) is to ensure the quality of postgraduate study and to provide a conducive learning environment for the students. It facilitates postgraduate students from various disciplines to complete their postgraduate studies in UMP. IPS at UMP serves 10 faculties and research. UMP has a Postgraduate Association (PGA) which helps to organize activities for the postgraduate students. Examples of activities organized include 3 MT Competition and, National Conference for Postgraduate Students (NCON) visits to industry, community services and postgraduate dinner.

Graduate studies prepare students to develop a distinctive career. The advance knowledge and skills acquired through graduate studies at Universiti Malaysia Pahang (UMP) would make them leading researchers, consultants and managers in their respective fields.

Whether you’re looking for professional development, a career change, improved job prospects or to grow your knowledge in an area you’re passionate about, I am sure you will find what you are looking for at UMP. UMP is committed towards facilitating highly motivated individuals to develop distinctive career through graduate studies. Thus with great pleasure I welcome aspiring applicants to join us at IPS, UMP in our endeavor to become a world-class technological university.

Professor Dato’ Dr. Hasnah Binti Haron
Dean of Institute of Postgraduate Studies
Internal Grants
- UMP Research Grant Scheme
- UMP Postgraduate Research Grants Scheme (PGRS)
- UMP Seed Money Research Grant
- UMP Flagship Grant Scheme

National Grants
- RACE - Research Acculturation Collaborative EVort
- FRGS - Fundamental Research Grant Scheme
- ERGS - Exploratory Research Grant Scheme
- PRGS - Postgraduate Research Grant Scheme
- LRGS - Long Term Research Grant Scheme
- MOSTI - eR&D (ScienceFund, Technofund & Innofund)
- NRGS – Niche Research Grant Scheme
- RAGS – Dana Pembudayaan Penyelidikan
- MTUN CoE Grants
- Industrial Grants
- R & D & C Grants – Geran Dasar Pandang ke Timur
- TRGS – Transdisciplinary Research Grant Scheme
- CREST R&D Grants

International Grants
- University of Seoul, Korea
- US Civilian Research & Development Foundation Global (CRDF Global)
- DOE-MIT-Goverment of India
- The Long-Term Comprehensive National Plan for Science, Technology and Innovation, Saudi Arabia
- Computational Hydraulic Int. / CHI University Grant Program, Canada
- Aquatech Co Ltd, Japan
- SABIC, King Abdulaziz University, Saudi Arabia
- Ministry of Education and Culture, Indonesia
- SEAMEO Regional Centre for Special Education (SEAMEO SEN)
- Qatar National Research Fund (QNRF)
- TWAS-COMSTECO (O.I.C. Countries)
- APT (Asia Pacific Telecommunity)
- EPICS (IEEE)
- Intel Research Grant (Intel)
- Weener-Gren Foundation
- JSPS Ronpaku
- Nippon Sheet Glass Foundation
- MTSF - The Malaysian Toray Science Foundation
- SEAMEO Jasper
- The Korea Research Foundation
- The Sumitomo Foundation
- Pan Asia ICT R&D Grants Programme
UMP's research are centred around specific Niche Areas which are:
- Chemical Engineering
- Industrial Biotechnology
- Automotive Engineering
- Manufacturing Engineering

The university focuses on applied research and industrial projects to boost the teaching and learning process with four focus groups and six expert groups:

**Focus Group**
- Chemical Engineering
- Biotechnology
- Automotive
- Manufacturing

**Expert Groups**
- Process Instrumentation and Control
- Innovative Construction
- Information Technology
- Human Sciences
- Environmental
- Advanced Material
- Communications

**International Recognition and Achievements**

The University has established links with reputable institutions of higher learning in Germany, United States, Indonesia and more on academic collaboration, student as well as staff exchange, and research. Exhibition of research products by renowned researchers of the University is among the university’s main agenda. UMP has received various awards from the International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), the International Exhibition Ideas – Inventions New Products (IEA 07) in Germany, the Malaysian Invention and Design Society (MINDS) and many more.

i. The International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX)
ii. Malaysia Technology Expo (MTE)
iii. BioMalaysia & Asia Pacific Bioeconomy
iv. British Invention Show & Awards (BIS) – United Kingdom
v. Ideas-Invention New products (IENA) – Germany
vi. The Invention & New Product Exposition (INPEX) – USA
vii. Seoul International Invention Fair (SIIF) – South Korea

A journal published by Universiti Malaysia Pahang (UMP) has been recognized as the best in Asia, registering the highest indices for production and publication of scientific articles in the fields of automotive and mechanical engineering.

International Journal of Automotive and Mechanical Engineering (IJame) topped the category of Automotive Engineering and climbed to third place in the Mechanical Engineering category of SCOPUS Journal Ranking (SCIMAGO) in terms of source normalized impact per paper (Snip).
Central Laboratory

Introduction

• The idea to develop a Central Laboratory in UMP was submitted in 2009 and the lab was completed by 2010. The official launching ceremony was on June, 17th 2011.

• Central Laboratory was developed as proposed by the Department of Higher Education to fulfill university needs of highly centralized facilities, equipped with the latest technology and expertise for analysis and testing.

• To promote optimum usage of analysis and testing facilities among the academia and industry.

• Central Laboratory is divided into 3 departments; Chemistry Department, Biotechnology Department & Material Department.

Contact:
Website: centrallab.ump.edu.my
FB page: Central Laboratory UMP
Email: ucl@ump.edu.my
Tel: 09 - 549 3351  Fax: 09 - 549 3353

Vision

To be a Centre of Excellence in technical services of choice.

Mission

We provide a world class facility for technical services and development of novel process and products in partnership with industry.
Client Charter

• Central Laboratory is committed in providing the best service to our clients.

• Central Laboratory shall provide accurate, reliable and timely test reports to the clients.

• Any request that have been agreed on by both parties in the early stage cannot be changed once the relevant documents have been signed.

• Central Laboratory will be responsible for the test results issued to our clients.

• Central Laboratory shall maintain high professionalism, confidentiality and integrity at all times.

Objective

• To provide services by highly trained and competent personnel.

• To attain and maintain International Standard accreditation.

• To support the Malaysian government policy in developing accredited technical service facilities.

• To support the development of entrepreneurs in commercialization of industrial services, processes and products.

• To generate return on investment to the University through services offered.

• To become the leading testing laboratory in the East Coast area.

What We Offer

We offer analysis and testing services in the area of:

• Food and Animal Feed
• Medical Specimen & Industrial Hygiene
• Agriculture & Natural Product
• Environment
• Pharmaceutical, Toiletries & Cosmetics
• Material, Metal & Mineral
• Petrochemical
Spectroscopy & Chromatography Laboratory

1. Nuclear Magnetic Resonance (NMR) Laboratory
   Services
   • Identification of unknown substances
   • Structure verification and elucidation
   • Verification of compound purity for raw materials
   • Quality control for chemical products
   • Chemical reaction research
   • Development of chemical products
   • The instrument is equipped with Liquid Probe, Capillary Probe and Solid Probe

2. Gas Chromatography (GC) Laboratory
   (i) GC Q-TOF MS
   Services
   • For separating, analyzing & identification of compound that can be vaporized using high resolution and accurate mass spectrometer, Time Of Flight (TOF).

   (ii) GC-MS
   Services
   • To identify different substances within a test sample.
   • Applicable for drug detection, environmental analysis, natural product and unknown samples.

3. Liquid Chromatography (LC) Laboratory
   PREP- LC /LC-MS/MS
   Services
   • To isolate compounds for drug discovery experiments,
   • To isolate unknown impurities or metabolites,
   • To purify standards, natural products and biomolecules.

Elemental Laboratory

1. CHNOS Analyzer
   Services
   • Determine and analyze C,H,N,O,S in organic and inorganic samples.
   • Applicable for solid and liquid samples.

2. MERCURY Analyzer
   Services
   • Mercury detection up to 10 ppm for solid, liquid and gas samples (ex: blood, soil, hair, urine, meat, water etc).
   • Applicable for food, environment, petrochemical, clinical, pharmaceutical, agriculture.

3. X-RAY Fluorescence (XRF)
   Services
   • Bulk chemical analysis of major elements (Be to U)
   • Elemental identification
   • To test various samples types such as loose powder, pressed pallet, liquid and fusion bead samples

4. Inductively Coupled Plasma Mass Spectrometer (ICPMS)
   Services
   • Elemental analysis in solid, liquid and semi-solid
   • Applicable for food, plant, environment, petrochemical, clinical, geological samples, agriculture and pharmaceutical
   *Accredited by Sistem Akreditasi Makmal Malaysia, MS ISO/IEC 17025:2005

Contact Information
For additional information, its services or any other related matter please contact:

Nor Hafizah Zainal Abidin
hafizahz@ump.edu.my 09 - 549 3343

Aimi Ilmar Ramli a
imi@ump.edu.my 09 - 549 3337

Mohd Rafie Rosly
rafie@ump.edu.my 09 - 549 3346
Microscopic Laboratory

1. Field Emission Scanning Electron Microscope (FESEM) Services
   • Provide images at very high magnification & resolution.
   • Elemental identification and element surface mapping via EDX.
   • Possess the ability to study on nano materials.

2. Scanning Electron Microscope (SEM) Services
   • Provides image at high magnification
   • Suitable for surface analysis (morphology)

3. Fluorescence Microscope Services
   • Support a full range of observation methods (bright & dark field, phase contrast, polarized light & flouease-of-use.
   • Capture fluorescence images in high definition and high resolution

Contact Information
For additional information about Material Department, its services or any other related matter please contact:

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Fadhullah Rahman
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Hairunnisa Osman
hairunnisa@ump.edu.my 09-549 3335
Biotechnology Laboratory

1. **Microbiology Laboratory Services**
   - Identification of Microorganism
   - Product Contamination Testing (Total Aerobic Microbial Count, Total Yeast & Mould, Detection of E.coli, S.aureus, P.aeruginosa & Salmonella)*
   - Water Analysis Testing (E.coli & Total Coliform)
   - Antimicrobial susceptibility testing (challenge with 4 microorganisms)

   **Accredited by Sistem Akreditasi Makmal Malaysia, MS ISO/IEC 17025:2005**

2. **Molecular Technology Laboratory Services**
   - Isolation and Detection of DNA: Animal, Plant & Microorganism, Pork Detection (Halal Analysis), Pathogen Detection.

3. **Food Technology Laboratory Services**
   - Proximate Analysis Testing
   - Food Microbiology Testing

Environment & GDP Laboratory

1. **GDP Testing Services**
   - To analyze physical and chemical properties of gas, diesel and petroleum samples.

2. **Water Testing Services**
   - Water Quality Testing
   - Waste water quality testing
   - Based on DOE requirement

3. **ICP-OES Services**
   - Testing for elemental analysis especially in water and oil samples
   - Applicable for environment, petrochemical, clinical, agriculture and pharmaceutical samples

Contact Information
For additional information about Biotechnology Department, its services or any other related matter please contact:

Hairunnisa Osman
hairunnisa@ump.edu.my  09 - 549 3335

Idayu Mat Ali
idayu@ump.edu.my  09 - 549 3342

Fadhlullah Rahman
fadhlullah@ump.edu.my  09 - 549 3352
Institute of Postgraduate Studies (IPS) supervises and promotes the graduate programmes of UMP. This includes administering the admission, appointment of supervisors, candidature reviews, provision of financial assistance and assessment. The centre is headed by a dean who is assisted by administrative officers and administrative assistants.

Graduate Programmes

UMP currently offers two modes of study at the graduate level. The graduate studies by coursework at the Masters level and graduate studies by research are at Master’s and Doctoral levels. These programmes are offered through the respective academic faculties of UMP. The general areas of specialisation are as follows:

- Chemical Engineering
- Bioprocess Engineering
- Biotechnology
- Industrial Chemistry
- Mechanical Engineering
- Automotive Engineering
- Production Engineering
- Electrical Engineering
- Electronic Engineering
- Instrumentation
- Civil Engineering
- Construction Engineering
- Computer Science
- Software Engineering
- Technology Management
- Industrial Safety and Health
- Human Capital Resources
- Project Management and Operations Management.

Potential candidates for the research mode programmes are strongly encouraged to enquire with the respective faculties on the availability of a supervisor to supervise research work in specific subspecialisation areas listed above.
Institute of Postgraduate Studies, Universiti Malaysia Pahang

Organization Structure

Dean
Prof. Dato’ Dr. Hasnah Binti Haji Haron

Deputy Dean
Prof. Datin Dr. Mimi Sakinah Binti Abdul Munaim

Secretary
W Fazilah Binti W Mohd

Academic, Student Affairs & Graduation

Assistant Registrar
Kalpana A/P Ramachandran

Administration, Finance & Viva Voce

Admission, Promotion & Student Development

Senior Assistant Registrar
Shahrizai Bin Haji Sarif

Assistant Registrar
Ahmad Zarif Bin Ahmad Fauzi

Administration & Finance

Senior Adm. Assistant
Fauziah Binti Sabri

Adm. Assistant (Clerical/Operation)
Siti Sharifah Salwa Binti Mohamad Duri

Financial Adm. Assistant
Siti Esah Binti Sulaiman

Adm. Assistant (Clerical/Operation)
Farah Najwa Binti Subli

Adm. Assistant (Clerical/Operation)
Siti Esah Binti Sulaiman

Adm. Assistant (Clerical/Operation)
Baizura Binti Deni

Adm. Assistant (Clerical/Operation)
Mohd Navi Bin Yusof

Viva Voce

Senior Adm. Assistant Officer
Noraini Binti Mohd Tajudin

Adm. Assistant (Clerical/Operation)
Aisyatul Hanisah Binti Mazri

Operation Assistant
Mohamad Rahmad Bin Ya
Admission and Duration of Study

Admission

Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission.

Applicants may apply through UMP’s website http://www.ump.edu.my > Academic > Academic Centre > Institute of Postgraduate Studies > Online application. Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process will take about one (1) month approximately.

Admission Requirements

Doctoral Programme

Masters degree by research or Masters degree by coursework with CPA of at least 3.00.

Master’s Programme

a) Master’s Degree Programme
   (Full Time / Part Time by Research)

A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized or equivalent professional qualifications that are recognised by the University.

*Subject to Faculty's requirement.

b) Master’s Degree Programme
   (Full Time / Part Time by Coursework)

A Bachelor degree with honours (minimum 2.50/4.00)* or a minimum of five (5) years working experience in the relevant fields.

*These conditions apply to all Master degree programme by coursework mode excepts Masters of Business Administration offered by the Faculty of Industry Management UMP (FIM).

MBA program has different requirements due to permit applicants who do not have a degree but have work experience at management level.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

*TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level)
Mode of Study

An applicant may choose to enrol as a full time- or part time student subject to the study programme offered by the Faculty. However, international candidates may only register as full-time students.

Research Programme

<table>
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<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Minimum (Months)</th>
<th>Maximum (Months)</th>
<th>Minimum Semesters</th>
<th>Maximum Semesters</th>
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<td>Part Time</td>
<td>24</td>
<td>60</td>
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<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Minimum (Months)</th>
<th>Maximum (Months)</th>
<th>Minimum Semesters</th>
<th>Maximum Semesters</th>
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<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24</td>
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<td>Part Time</td>
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Coursework Programme

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<td>Maximum Period</td>
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<tr>
<td>Master’s</td>
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<td>3 years</td>
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Note: 1 year denotes two (2) normal semester plus one (1) short semester.
## Course Fees

### Research

Total academic fee per semester (in MYR**)

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<tr>
<th></th>
<th>Full Time</th>
<th>Part Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st</td>
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</tr>
<tr>
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<tr>
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</table>

MYR: Malaysian Ringgit  
**Note: All fees and charges listed are effective January 1.

### FEES BY RESEARCH PROGRAMME

#### PhD (Engineering & Technology Cluster)

<table>
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<tr>
<th></th>
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<tbody>
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<td></td>
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<td>International (MYR)</td>
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<td>Sub’s 1st Sem</td>
<td>1st Subsequent</td>
<td>1st Subsequent</td>
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<td>Sub’s 1st Sem</td>
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<tr>
<td>Student Activities</td>
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<tr>
<td>Examination Fees</td>
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<td>1,500</td>
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<td>-</td>
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</tr>
<tr>
<td>Personal Bond</td>
<td>-</td>
<td>-</td>
<td>According to Country</td>
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<td>-</td>
<td>-</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TOTAL (RM)</td>
<td>4,600</td>
<td>2,000</td>
<td>7,580(A)</td>
<td>3,880(B)</td>
<td>4,600</td>
<td>1,250</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

* All international students are required to pay IN FULL their tuition fees for two (2) semesters on registration day which will be (A) + (B) = RM11,460.00 and not inclusive of Personal Bond and other fees.
## Course Fees

### FEES BY RESEARCH PROGRAMME

**Master (Engineering & Technology Cluster)**

<table>
<thead>
<tr>
<th>PER SEMESTER</th>
<th>Full Time</th>
<th>Part Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Local (MYR)</strong></td>
<td><strong>International (MYR)</strong></td>
<td><strong>Local (MYR)</strong></td>
</tr>
<tr>
<td><strong>1st Sem</strong></td>
<td><strong>Subs't</strong></td>
<td><strong>1st Sem</strong></td>
</tr>
<tr>
<td>Tuition fees (MYR)</td>
<td>1,200</td>
<td>3,100</td>
</tr>
<tr>
<td>Services</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Welfare</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Health</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Insurance</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Student Activities</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

| **ONE-OFF** | |
| Examination Fees | 1,000 | 1,000 | 1,000 | - | - |
| Compulsory Course Fees | 500 | 500 | 500 | - | - |
| Orientation Fees | 350 | 350 | 350 | - | - |
| Registration | 100 | 1,200 | 100 | - | - |
| Student Card | 50 | 50 | 50 | - | - |
| Alumni | 100 | 100 | 100 | - | - |
| Personal Bond | - | - | According to Country | - | - |

<table>
<thead>
<tr>
<th><strong>TOTAL (RM)</strong></th>
<th><strong>Full Time</strong></th>
<th><strong>Part Time</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Local (MYR)</td>
<td>3,800</td>
<td>6,780(A)</td>
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<tr>
<td>International (MYR)</td>
<td>3,580(B)</td>
<td>3,800</td>
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</table>

*All international students are required to pay IN FULL their tuition fees for two (2) semesters on registration day which will be (A) + (B) = **RM10,360.00** and not inclusive of Personal Bond and other fees.*
## Course Fees

### FEES BY COURSEWORK PROGRAMME

**Master of Engineering**
- Master of Chemical Engineering with Entrepreneurship (Total 42 Credit Hours)
- Master of Mechanical Engineering (Total 42 Credit Hours)

<table>
<thead>
<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
<th>International Student (MYR 400/credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Semester</td>
<td>2nd Semester</td>
</tr>
<tr>
<td>Tuition Fees (MYR)</td>
<td>C/H x MYR 285</td>
<td>C/H x MYR 285</td>
</tr>
<tr>
<td>Services</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Health</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Welfare</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Insurance</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Student Activities</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Examination Fees</td>
<td>300</td>
<td>300</td>
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<tr>
<td>One Off</td>
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<td></td>
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<tr>
<td>Registration</td>
<td>100</td>
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<tr>
<td>Orientation Fees</td>
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<td>Student Card</td>
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<td>-</td>
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<tr>
<td>Personal Bond</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>Amount according to C/H</td>
<td>Amount according to C/H</td>
</tr>
</tbody>
</table>

**Total Amount Estimated for 3 semesters : Local : MYR 15,045 and International : MYR 20,915**

### Master of Engineering
- Master of Industrial Engineering (Total 40 Credit Hours)

<table>
<thead>
<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
<th>International Student (MYR 400/credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Semester</td>
<td>2nd Semester</td>
</tr>
<tr>
<td>Tuition Fees (MYR)</td>
<td>C/H x MYR 285</td>
<td>C/H x MYR 285</td>
</tr>
<tr>
<td>Services</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Health</td>
<td>75</td>
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<tr>
<td>Welfare</td>
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<tr>
<td>Insurance</td>
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<td>20</td>
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<tr>
<td>Student Activities</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Examination Fees</td>
<td>300</td>
<td>300</td>
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<tr>
<td>One Off</td>
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<tr>
<td>Registration</td>
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<tr>
<td>Orientation Fees</td>
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<tr>
<td>Student Card</td>
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<tr>
<td>Alumni</td>
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<td>-</td>
</tr>
<tr>
<td>Personal Bond</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>Amount according to C/H</td>
<td>Amount according to C/H</td>
</tr>
</tbody>
</table>

**Total Amount Estimated for 3 semesters : Local : MYR 14,475 and International : MYR 20,115**
Course Fees

Master of Science
- Information & Communication Technology (Total 40 Credit Hours)
- Computer Networking (Total 40 Credit Hours)
- Software Engineering (Total 40 Credit Hours)

<table>
<thead>
<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
<th>International Student (MYR 400/credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Semester</td>
<td>2nd Semester</td>
</tr>
<tr>
<td>Tuition Fees (MYR)</td>
<td>300 (C/H x MYR 285)</td>
<td>300 (C/H x MYR 285)</td>
</tr>
<tr>
<td>Services</td>
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<td>75</td>
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<tr>
<td>Health</td>
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<td>30</td>
</tr>
<tr>
<td>Welfare</td>
<td>100</td>
<td>75</td>
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<tr>
<td>Insurance</td>
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<td>75</td>
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<tr>
<td>Student Activities</td>
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<tr>
<td>Examination Fees</td>
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</tr>
<tr>
<td>One Off</td>
<td>Registration</td>
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<td></td>
<td>Orientation Fees</td>
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<tr>
<td></td>
<td>Student Card</td>
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</tr>
<tr>
<td></td>
<td>Alumni</td>
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</tr>
<tr>
<td></td>
<td>Personal Bond</td>
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<tr>
<td>Total</td>
<td>Amount according to C/H</td>
<td>Amount according to C/H</td>
</tr>
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</table>

Total Amount Estimated for 3 semesters : Local : MYR 14,475 and International : MYR 20,115

Master Of Business Administration (Total 45 Credit Hours)

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<tbody>
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<tr>
<td>Services</td>
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<tr>
<td>Welfare</td>
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<td>75</td>
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<tr>
<td>Insurance</td>
<td>300</td>
<td>75</td>
</tr>
<tr>
<td>Student Activities</td>
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<td>75</td>
</tr>
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<td>Examination Fees</td>
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<tr>
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<td>Orientation Fees</td>
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<tr>
<td></td>
<td>Personal Bond</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>Amount according to C/H</td>
<td>Amount according to C/H</td>
</tr>
</tbody>
</table>

Total Amount Estimated for 3 semesters : Local : MYR 19,950 and International : MYR 27,740

**Note: All fees and charges listed are effective January 1, 2017**
Cost of Postgraduate Study and Financial Assistance

Cost of Study

The estimated total cost of studying at UMP (inclusive of tuition and living expenditure) for an 18 month Master degree candidature is RM35,000. The estimated total cost for a 36 month doctoral candidature is about RM70,000.

The bulk of this cost is living cost since the tuition fees charged for both Malaysian and international students are low. As such, the actual total cost depends on the candidates’ lifestyle and preferences.

International students are required to take life insurance of RM300 per year. International students are also advised to take up medical insurance for self and family due to the high cost of medical services in Malaysia.

Financial Assistance

UMP does provide a limited number of financial assistance for deserving candidates. This assistance may cover living cost only or cover both living expenses and tuition fees. The financial assistance by UMP is in two forms, being:

Graduate Research Scheme (GRS)
- The UMP Graduate Research Scheme (GRS) is awarded to outstanding postgraduate students who have a passion for research and are able to demonstrate leadership qualities and soft skills that will benefit their faculty or Centre of Excellence.
- This entitles the student to monthly allowance only as below:

<table>
<thead>
<tr>
<th>Amount (MYR)</th>
<th>Maximum Duration</th>
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</thead>
<tbody>
<tr>
<td>Master Degree</td>
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<tr>
<td>Doctor of Philosophy</td>
<td>MYR1,200.00</td>
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</tbody>
</table>

Note: Maximum appointment and funding for Master’s Degree is up to 2 years. Maximum Appointment and funding for Doctoral Studies is up to 3 years.

UMP Fellowship Scheme

Further information for UMP Fellowship Scheme and application forms can be accessed through website http://lpendaftar.ump.edu.my. Approval for this scheme will be considered through an interview process.

Funding Scheme From Ministry Of Education (MOE)

MyBrain15 programme (MyMaster, MyPhD & MyPhD Industry)

MyBrain15 program is a funding program of study at postgraduate level and become one of the critical agenda projects under the National Higher Education Strategic Plan (PSPTN). The aim of the program is to create a group of highly knowledgeable human resource as a catalyst for research, development and innovation. The implementation of this program will be able to develop a first world talent base that will be one of the initiatives to drive Malaysia into a high income nation.

Under this program, the Government aims to produce 60,000 PhD holders among the people of Malaysia by the year 2023. The programs are implemented through MyBrain15 Program MyPhD, MyMaster, MyPhD Industry.

For further details please visit this website:

MyBrain15: https://biasiswa.mohe.gov.my/MyBrain15/v2/index.php


**Academic Facilities and Resources**

UMP’s laboratories have the latest equipment resembling those in industries. A 24-hour internet connection serves students through the wired and wireless networks throughout the campus, making it a conducive teaching and learning environment.

**Library**

UMP has two libraries, one at each campus. The library of UMP plays an important role in its service for resource in teaching and learning, research and consultancy. It is also a catalyst in promoting culture of knowledge sharing at UMP and the community enriching various knowledge repository.

The Library in Pekan campus started its service since March 2010. UMP’s libraries have a vast collection of books and multimedia for circulation and reference. UMP subscribes to various repository databases such as Physical facilities include discussion rooms, seminar rooms, multimedia room, computer laboratories and audio visual rooms.

The e-Resource of UMP’s Library provides comprehensive access to full-text e-Journals available at the Library. The portal allows you to search for online databases, e-Journals, e-Books by title or browse title by subject. The e-Resource provides both on-campus and off-campus access to the Library’s Electronic Resource.

**Student Support Services**

UMP at MEC City Gambang has been specially refurbished to provide an excellent study and learning environment. The University provides a wide variety of campus facilities for its academic staff and students. UMP has set up facilities to ensure that students enjoy the convenience of travel and accommodation when undertaking a program at the university.

UMP is equipped with wireless internet accesses, which allow students and staff to access the internet from their laptops. Wireless internet access points have been installed at strategic locations on campus to facilitate internet access. UMP students, with notebooks, thus have the advantage of being able to access the internet anywhere, anytime on campus that is within range of the wireless internet access points. This flexibility allows them to access and download material from the web directly to their notebooks at their convenience.

The Student Affairs & Alumni Department (SAFFAD) administers all matters relating to student welfare on campus. There are numerous student clubs and societies to meet the varied interests and recreational needs of the students.

**International Office**

The International Office (IO) serves as a ‘one stop centre’ for all internationalisation activities of the University. IO is committed to provide high quality services to its internal and external clients. The IO will also strive to promote and enrich the academic and cultural experience at UMP by facilitating the exchange of people and ideas.

**Accommodation**

UMP provides ample accommodation for undergraduate and graduate students in five residential colleges. Available allocation is for 70% students only. Rooms type available are single, twin sharing and quad sharing. Bus service is provided to students who are living at nearby housing estates for commuting to the campuses. An inter-campus bus service is also provided every 15 minutes in the morning and another series in the evening.
There is no allocation for family houses or apartments. However, the SAFFAD can assist in the search for local private houses for rent in the vicinity, within a 25km radius. Rentals for unfurnished 2-4 bedroom houses are usually set between RM500.00 - RM1,000.00 (USD140.00 - USD280.00) per month.

Transit houses are available for students with families (spouse and children) while they search for house to rent. The maximum period given for each student family to stay at a Transit house is six months only. Transit house is not part of the students' residential facilities.

**Sports Facilities**

Sport facilities in UMP campus: gymnasium, badminton court, squash court, table tennis, tennis court, basketball, soccer field, volleyball and takraw court. The sports complex building has the biggest capacity in Pahang with twelve badminton courts. UMP also has a jogging track with exercise equipment.

**Health Services**

UMP has a medical centre that gives outpatient services to the students and staff of UMP. It is situated strategically in the centre of the campus with easy access for all students.

**Postgraduate Association (PGA)**

PGA whose membership comprise of all graduate students has been formed. The main objective of the association is to help create an environment conducive for graduate studies. The association provides support to new students to settle down in UMP and organize recreational and leisure activities for its members. IPS also provides allocation to help finance the association's activities.
### Doctor of Philosophy

**Engineering : Cluster**
- Automotive
- Bio-Process
- Chemical
- Civil
- Construction
- Electrical
- Electronic
- Gas
- Industrial
- Instrumentation
- Manufacturing
- Mechanical
- Mechatronic

**Technology : Cluster**
- Advanced Materials
- Biotechnology
- Chemistry
- Computer Science
- Environmental Technology
- Environmental Management
- Food Science
- Food Technology
- Humanities Technology
- Industrial Chemistry
- Mathematics
- Physics
- Software Engineering
- Statistics
- Technology Management

### Master of Science

**Engineering : Cluster**
- Automotive
- Bio-Process
- Chemical
- Civil Engineering
- Construction
- Electrical
- Electronic
- Gas
- Industrial
- Instrumentation
- Manufacturing
- Mechanical
- Mechatronic

**Technology : Cluster**
- Advanced Materials
- Biotechnology
- Chemistry
- Computer Science
- Environmental Management
- Environmental Technology
- Food Science
- Food Technology
- Industrial Chemistry
- Mathematics
- Physics
- Software Engineering
- Statistics
- Human Capital Resources
- Industrial Safety & Health
- Operation Management
- Project Management
- Techno-preneurship
- Human Sciences
- Islamic Studies
- Historical Studies
- Language Teaching and Learning
- Language Studies

**Human Sciences**
- Islamic Studies
- Historical Studies
- Language Teaching and Learning
- Language Studies
UMP Faculties and Centres

Pekan Campus

- Faculty of Electrical & Electronics Engineering
- Faculty of Manufacturing Engineering
- Faculty of Mechanical Engineering
- Centre for Modern Languages & Human Sciences
- Automotive Engineering Centre, AEC

Gambang Campus

- Faculty of Industrial Sciences & Technology
- Faculty of Chemical & Natural Resources Engineering
- Faculty of Civil Engineering & Earth Resources
- Faculty of Computer Systems & Software Engineering
- Faculty of Technology
- Faculty of Industrial Management
- Bio-Aromatic Research Center of Excellence (Bio-Aromatic CoE)
- Center For Earth Resources Research & Management (CERRM)
- Centre of Excellence for Advanced Research Fluid Flow (CARIFF)
- IBM Centre of Excellence (IBM CoE)
- Rare Earth Research Center (RERC)
How To Apply

Application needs to be done online through our website http://ips.ump.edu.my. All supporting documents as well as qualifications to satisfy the entry requirements, such as academic transcripts and degree scrolls, English language proficiency as well as your identity documents and proof of payment. These documents must be sent in hardcopy (certified by an academic or your employer) as soon as the online application is made. IPS will acknowledge receipt of your documents and you will receive an offer letter if your application is successful.

When To Apply

Registration for programmes by coursework is opened twice a year, usually in February and September. It is important to check the deadline for your chosen programme. Applications received before the deadlines will be processed promptly, while applications received past the deadlines, will be offered for the next intake.

Applications for graduate studies programmes by research and coursework mode is open throughout the year.

Processing Fees

Applicant can submit more that one application and every application will be charged a processing fees as follow :-

- **Malaysia** : RM 50
- **International** : USD 30 @ RM 100

For international candidate, you may able to pay the above fee via Telegraphic Transfer to:

- **Bank** : Maybank
- **Beneficiary** : Bendahari UMP
- **Maybank Account No** : 556235301457
- **Swiss code** : MBBEMYKL
- **Address** :
  Institute of Postgraduate Studies
  Universiti Malaysia Pahang
  Lebuhraya Tun Razak
  26600 Gambang
  Kuantan, Pahang Darul Makmur
  Malaysia.
For local candidate, you may able to pay the above fee via:

1. Payment through Maybank Atm Machine
Insert your Maybank ATM Card at any Maybank ATM Machine
• Select menu : PAYBILLS
• Select Registered Payee Corp
• Enter amount
• Select Current / Savings Account
• Select your bill : UNIVERSITI MALAYSIA PAHANG
• Message prompt ‘CONTINUED’: YES
• Keep your receipt for future reference.

2. Payment through Maybank M2u
Steps :-
• Login MAYBANK2U
• Select BILL PAYMENT
• Select MAKE A ONE OFF PAYMENT
• Select PAYEE BY CATEGORY > EDUCATION & EDUCATION LOANS
• Select COMPANY > UNIVERSITI MALAYSIA PAHANG
• Enter :-
  i. Payment amount
  ii. IC Number / Passport
  iii. Phone Number
• Keep your statement for future reference.

3. Payment through E-Pos Terminal
   (Bank Muamalat)
Students/Staffs/Vendors can use any of their local ATM card. You can use this facility at our Student Finance Unit and other strategic locations that we will inform from time to time.

Terms And Conditions

If you accept the offer of a place at the Universiti Malaysia Pahang a contract is formed. The terms of this contract include the following conditions, and your acceptance of a place is expressly subject to them.

As a condition of enrolment you will need to:
• Produce a proof of identity
• Produce documentary evidence that you satisfy the entry requirements of the course, or have qualifications deemed equivalent by the University
• Pay the fees prescribed for the course in accordance with published payment schedules, or produce acceptable evidence of sponsorship

As a condition of enrolment you must also abide by the University’s Memorandum and Articles, Statutes, Regulations, Rules, Procedures and Codes of Conduct as amended from time to time under the authority of the Court of Governance or the Senate.

Student Visa

• The visa charge and rate will be differ and charged accordingly to the new rates implemented by the Education Malaysia Global Services. The university through International Office will notify the student through email in regards to the exact amount to be paid (fee details and the payment method) once receiving the documents of visa application from the student.

• The student shall provide the updated email address during submission of documents for visa application to International Office, Universiti Malaysia Pahang. The visa application process will only be started once the International Office receiving the documents from the student.

• It is recommended for you to apply the Visa Approval Letter 3 months prior to UMP admission. All the documents required for visa application shall be couriered to:
  International Office (Visa Unit)
  Universiti Malaysia Pahang
  Lebuhraya Tun Razak
  26300 Gambang, Kuantan, Pahang, Malaysia
  Phone : +609-549 2721/ 2722 Fax : +609-549 2729
  Email : io_visa@ump.edu.my
Faculties and Centres
Faculty of Chemical and Natural Resources Engineering (FKKSA) of UMP was established in 2002 with the aim of providing engineering programmes in the field of chemical and natural resources engineering.

The faculty is also tasked to embark on research and development activities, particularly in the area of fine and specialty chemicals, chemical process up-scaling and biotechnology-related processes in order to generate expertise relevant to the needs of the industry especially the nearby Gebeng, Kerteh and Paka Industrial Area.

Various research activities in the chemical engineering and industrial biotechnology-related area have been conducted with the aim of developing indigenous resources.

The broad areas of research in the faculty are as follows:
- Industrial Biotechnology
- Renewable Energy
- Separation Processes
- Fluid Flow
- Advance Material
- Reaction Engineering
- Food/Pharmaceutical/Drug
- Combustion/Explosion Engineering
- Process Control, Instrumentation and Optimization
- Environmental Engineering
- Computational Fluid Dynamic (CFD)

The research and development activities are supported by the state-of-art facilities in the Chemical Engineering Laboratory and the expertise in various research areas. The details of the facilities and expertise could be obtained through the FKKSA's website.
MASTER OF CHEMICAL ENGINEERING WITH ENTREPRENEURSHIP

- Coursework

Course Structure
- Transport Phenomena
- Catalytic Reaction Engineering
- Chemical Product Design and Management
- Research Methodology
- Managing Business Intelligence
- Finance for Entrepreneurship Decision
- Separation Process Engineering
- Process Modelling and Control
- Marketing Intelligence
- Entrepreneurship Business Plan
- Thesis/Master Project I
- Thesis/Master Project II

Electives
- Environmental Technology
- Bioprocess Technology
- Oil & Gas Processing Technology

Admission Requirements
- Recognized degree with CPA2.50/4.00 and above or
- Recognized degree with CPA lower than 2.50/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

*TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required to attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

Duration

<table>
<thead>
<tr>
<th>Programme</th>
<th>Minimum Period</th>
<th>Maximum Period</th>
<th>Minimum Period</th>
<th>Maximum Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Coursework</td>
<td>1 year</td>
<td>3 years</td>
<td>2 years</td>
<td>6 years</td>
</tr>
</tbody>
</table>

Note: 1 year denotes two (2) normal semester plus one (1) short semester.

Course Fees

<table>
<thead>
<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
<th>International Student (MYR 400/credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>1st Semester</td>
<td>2nd Semester</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>5,700</td>
<td>5,100</td>
</tr>
<tr>
<td>TOTAL (MYR)</td>
<td>15,045</td>
<td></td>
</tr>
</tbody>
</table>

MYR: Ringgit Malaysia
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Thrust Areas
Chemical Engineering
- Catalyst and Reaction Engineering
- Chemical Engineering Design
- Chemical Process Simulation
- Chemical/Physical Modification
- Fluid Mechanics
- Heat/Mass Transfer Operations
- Indigenous Raw Materials Processing
- Industrial Chemical Production
- Plant Design and Testing
- Polymerisation Process
- Process Control

Bio-Process Engineering
- Bioconversion
- Biofertilizer
- Biofuel
- Bioplastic
- Bioprocess Design
- Bioseparation
- Design Technology
- Downstream Processing
- Enzyme Technology
- Fermentation Technology
- Immobilized Technology
- Product Recovery

Environmental Technology
- Waste of Wealth/Resource Recovery
- Environmental Monitoring and Characterization
- Environmental Engineering & Hydrodynamic

GIS & Remote Sensing
- River Basin and Flood Control

Gas Engineering

Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

*Subject to Faculty requirement

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.
**English Language Requirements**

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.  
*TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required to attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

**Admission**

Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission. Applicants may apply through UMP’s website [http://www.ump.edu.my > Academic > Academic Centre > Institute of Postgraduate Studies > Online application](http://www.ump.edu.my). Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.

**Duration**

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Period of Candidature</th>
<th>Minimum (Months)</th>
<th>Semester</th>
<th>Maximum (Months)</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters Degree</td>
<td>Full Time</td>
<td>12 months</td>
<td>2</td>
<td>36 months</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>24 months</td>
<td>4</td>
<td>60 months</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Degree Program</td>
<td>Type of Candidature</td>
<td>Period of Candidature</td>
<td>Minimum (Months)</td>
<td>Semester</td>
<td>Maximum (Months)</td>
<td>Semester</td>
</tr>
<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24 months</td>
<td>4</td>
<td>72 months</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>36 months</td>
<td>6</td>
<td>96 months</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**Course Fees**

Total academic fee per semester (in MYR***)

<table>
<thead>
<tr>
<th></th>
<th>Full Time</th>
<th></th>
<th></th>
<th></th>
<th>Part Time</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Local (MYR)</td>
<td>1st</td>
<td>Subsequent</td>
<td>International (MYR)</td>
<td>1st</td>
<td>Subsequent</td>
</tr>
<tr>
<td>Master</td>
<td>3,800</td>
<td>1,700</td>
<td>6,780</td>
<td>3,580</td>
<td>3,800</td>
<td>1,100</td>
</tr>
<tr>
<td>PhD</td>
<td>4,600</td>
<td>2,000</td>
<td>7,580</td>
<td>3,880</td>
<td>4,600</td>
<td>1,250</td>
</tr>
</tbody>
</table>

*MYR: Ringgit Malaysia*
The Faculty offers postgraduate programmes in Innovative Construction, Geotechnical & Transportation and Environmental Engineering. Other supportive areas of research include potable water supply and smart traffic engineering. The Environmental and Chemical Laboratory at the faculty has been accredited and it is the centre for testing sample sin the eastern region of Peninsular Malaysia. The Faculty provides excellent research opportunities for students in all fields of science, engineering and technology.

Structurals & Materials
Focus Areas
• Computational Mechanics and Advanced Structural Analysis
• Structural Retrofitting and Strengthening
• Green Building Index (GBI)
• Industrialized Building System (IBS)

Led by: Dr Cheng Hock Tian

Water Resources & Environmental
Focus Areas
• Hydraulic Engineering
• Hydrology & Water Resources
• Sustainable Water & Waste Water Treatment & Re-use
• Sustainable Management of Municipal & Industrial Waste

Led by: Dr Edriyana binti A. Aziz

Building & Lifecycle Constructions
Focus Areas
• Innovative Construction
• Building Information Modelling & Construction Informatics
• Sustainable Construction
• Construction Industry Value Chain
• Innovative Construction Materials

Led by: Dr Muzamir bin Hasan

Contact
Dean
Faculty of Civil Engineering and Earth Resources
Universiti Malaysia Pahang
Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang, MALAYSIA
Tel: 6(09) - 549 2999  Fax: 6(09) - 549 2998
http://fkasa.ump.edu.my
Geotechnical & Transportation
Focus Areas
- Sustainable Highway & Transportation Engineering
- Highway Safety
- Highway Materials
- Soil Improvement
- GIS & Remote Sensing
- Geotechnical Engineering

Led by: Dr Muzamir bin Hasan

MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Thrust Areas
- Structures and Materials
  Industrialized Building System
  • Steel Frames and Trusses
  • Interlocking load bearing blocks

- Sustainable Construction
  • Structural Engineering
  • Building Engineering

- Innovative Construction Material
  • Fibre Reinforced Concrete
  • High Strength Concrete
  • In Field Treatment Process
  • Concrete Materials

- Geotechnical and Infrastructures
  • Sustainable Highway & Transportation Index
  • Highway Safety
  • Highway Material
  • Soil Improvement
  • GIS & Remote Sensing

Information Technology in Construction
- Finite Element Analysis
- Database & Information Systems
- Building Information Modeling
- Building & Construction
- Sustainable Construction
- Facilities Management
- Building Maintenance
- Construction Industry Value Chain
- Construction Project Management
- Green Building Index

Water Resources & Environmental
- Sustainable Water & Wastewater Treatment & Reuse
- Sustainable Management & Municipal & Industrial Wastes

Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.
*Subject to Faculty requirement

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.
*TOEFL ITP is not acceptable by admission.

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Admission

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<th>Masters Degree</th>
<th>Part Time</th>
<th>PhD Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Full Time</td>
<td>12 months</td>
<td>24 months</td>
</tr>
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<td></td>
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</tbody>
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Course Fees

Total academic fee per semester (in MYR***)

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<th>Part Time</th>
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</tr>
<tr>
<td>Master</td>
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</tr>
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<td>4,600</td>
<td>7,580</td>
</tr>
</tbody>
</table>

MYR: Ringgit Malaysia
The Faculty of Computer Systems and Software Engineering graduate program is designed to offer advanced knowledge in the specific aspects of computer science. The purpose of our graduate program is to provide the continuous learning environment as well as to fulfil the need of postgraduate students at the East Coast of Malaysia. Currently, there are 5 research groups under the faculty which strongly reflect our expertise and research. These research groups’ areas are as follows:

**Information System Group (INSYS)**

Information System (IS) group focuses on Data Mining and Knowledge Management. Data mining is seen as an increasingly important tool by modern business to transform data into business intelligence giving an informational advantage. It is currently used in a wide range of profiling practices, such as marketing, surveillance, fraud detection, and scientific discovery. Knowledge management has been widely studied to explore concepts, methodologies, mechanisms and tools to facilitate the success of implementation in organizations. However, many organizations adopting knowledge management face significant challenges to balance between technologies, contents, processes and humans in the implementation. As such, continuous researches on the success models with holistic approach influence the research movements and focus.

**Software Engineering Research Group (SERG)**

Software Engineering Research Group (SERG) has given strong focus on two main research areas namely Requirement Analysis and Design as well as Software Quality Assurances. For requirement analysis and design, SERG investigates relevant issues related to requirements quality problems that arise in any typical software applications such as inconsistency, incorrectness, incompleteness and ambiguity. SERG also explores on sustainable design and high maintainability software that promote low cost solutions mainly through reusability of design patterns and architectural...
Concerning software quality assurances, SERG is now looking into novel techniques and methodology to improve the current state-of-practice particularly on new strategies for software verification and validation as well as configuration management.

**Soft Computing and Intelligent System Group (SPINT)**

Soft Computing & Intelligent System Research Group (SPINT) focuses on intelligent system, decision support system and soft computing. These researches are closely related in broad areas of chemical engineering, biotechnology, automotive, and manufacturing. SPINT is taken from the word Dutch which relates to spider. The spider web resembles network connection to other fields relating to optimization problem. This is suitable with Soft Computing and Intelligent System fields such as Traveling Salesman Problem (TSP), Time Tabling Problem, Vehicle Routing Protocol (VRP), Scheduling, Modeling and Simulation.

**System Network and Security (SYSNet)**

System Network and Security Research Group (SysNet) was formed to initiate and encourage research activities in the area of computer systems and network security. Research projects in the group focus on various aspects of network and computer security. The aim of the group is to collaborate with industries and participate in academic research activities, as well as to provide an active base for postgraduate and postdoctoral research.

**Multimedia Computing & Visualization (MCVIS)**

As the name suggest, the Multimedia Computing and Computer Vision (MCVIS) group focuses on the field of multimedia computing, computer vision, image processing and visualization. The vision of this group is to discover new understanding, developing new techniques as well as the addressing their applications and spreading excellence through teaching and implementation. This group takes a holistic and integration approaches since there are no clear boundaries within the other sub area.

**MASTER OF SCIENCE (COMPUTER NETWORKING)**

- **Coursework**

  **Course Structure**
  **Core Structure**
  - Current Issues in Networking
  - Advanced Network Analysis and Design
  - Network Security
  - Network Performance
  - Internetwork Concept
  - Reserach Methodology & Project Proposal
  - Project Management
  - Elective I
  - Elective II
  - Project

  **Electives (2)**
  - Software Process Improvement and Control
  - Software Testing and Verification

**MASTER OF SCIENCE (SOFTWARE ENGINEERING)**

- **Coursework**

  **Course Structure**
  **Core Structure**
  - Software Engineering For Professional Practices
  - Human Aspect of Software Engineering
  - Architectures for Software System Software Configuration and Management
  - Research Methdology & Project Proposal
  - Project Management
  - Elective I
  - Elective II
  - Project

  **Electives (2)**
  - Software Process Improvement and Control
  - Software Testing and Verification
MASTER OF SCIENCE (INFORMATION AND COMMUNICATION TECHNOLOGY)
- Coursework

Course Structure
Core Structure
- Problem Solving in ICT
- Data Management
- Data Communication & Networking
- Software Design & Development
- Current Issues in ICT
- Web Technologies
- Information Security
- Research Methodology & Project Proposal
- Project Management
- Elective 1
- Project

Electives
- Software Engineering For Professional Practices
- Information Security

Admission Requirements

- Recognized degree with CPA2.50/4.00 and above or
- Recognized degree with CPA lower than 2.50/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

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Duration

<table>
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<tr>
<th>Programme</th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum Period</td>
<td>Maximum Period</td>
</tr>
<tr>
<td>Master Coursework</td>
<td>1 year</td>
<td>3 years</td>
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Note: 1 year denotes two (2) normal semester plus one (1) short semester.

Course Fees

<table>
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<tr>
<td>Semester</td>
<td>1st Semester 2nd Semester 3rd Semester</td>
<td>1st Semester 2nd Semester 3rd Semester</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>5,700 5,100 3,675</td>
<td>8,505 6,805 4,805</td>
</tr>
<tr>
<td>TOTAL (MYR)</td>
<td>14,475</td>
<td>20,115</td>
</tr>
</tbody>
</table>

MYR: Ringgit Malaysia
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

**Research Thrust Areas**

**Information System (INSYS)**
- Business Intelligence & Data Analytic application in IS / Enterprise Systems and Business Process Management
- Information and Knowledge Management (KM)
- Green IT/IS and Sustainability
- Social Media and Business/Society Impact
- Governance, Risk and Compliance in IS
- IS Implementation, Adoption and Diffusion
- Human, Social, and Organizational Aspects & Human Computer Interaction (HCI) in IS
- IS Education and Learning

**Multimedia Computing and Computer Vision**
- Geographical Information System
- Remote Sensing
- Geospatial Science
- Hydrological Modelling
- Image Processing
- Computer Vision
- Object Recognition
- Digital Watermarking
- Texture Classification
- Virtual Reality
- Augmented Reality

**Software Engineering (SERG)**
- Software Requirement
- Software Design
- Software Constructions
- Software Testing
- Software Maintenance
- Software Configurations Management
- Software Engineering Management
- Software Quality
- Software Engineering Models and Methods
- Software Engineering Economics
- Software Engineering Professional Practices

**Soft Computing and Intelligent System (SPINT)**
- Supervised Neural Networks
- Unsupervised Neural Networks
- Fuzzy Systems
- Genetic Algorithms and Evaluative Strategies
- Support Vector Machines
- Feature Selection and Extraction
- Pattern Recognition
- Neural networks
- Evolutionary computation
- Fuzzy logic
- Bioinformatics,
- Multi agent systems

**System Network And Security (SYSNETS)**
- Data Communication
- Network Security
- Network Forensic and Cybercrime Investigation
- Security issues related to wireless communications
- Mobile Ad-Hoc network (MANET)
- Vehicular Ad-Hoc Network (VANET)
- Cognitive Radio Enabled Networks
- 5G Mobile and Wireless communications
- Machine to Machine Communications
- Distributed and Parallel Systems
- Garde Computing
- Load Balancing
- Internet of Things
- Green Communications
- Wireless network coding
- Cross-layer design on Wireless Communications
Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

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Admission

Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission. Applicants may apply through UMP’s website http://www.ump.edu.my > Academic > Academic Center > Institute of Postgraduate Studies > Online application. Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.

Duration

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Period of Candidature</th>
<th>Minimum (Months)</th>
<th>Semester</th>
<th>Maximum (Months)</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters Degree</td>
<td>Full Time</td>
<td>12 months</td>
<td>2</td>
<td>36 months</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>24 months</td>
<td>4</td>
<td>60 months</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24 months</td>
<td>4</td>
<td>72 months</td>
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<td></td>
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<td>96 months</td>
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</tr>
</tbody>
</table>

Course Fees

Total academic fee per semester (in MYR**)

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Full Time</th>
<th>Part Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Local (MYR)</td>
<td>International (MYR)</td>
</tr>
<tr>
<td></td>
<td>1st</td>
<td>Subsequent</td>
</tr>
<tr>
<td>Master</td>
<td>3,800</td>
<td>1,700</td>
</tr>
<tr>
<td>PhD</td>
<td>4,600</td>
<td>2,000</td>
</tr>
</tbody>
</table>

MYR: Ringgit Malaysia
The Faculty of Electrical and Electronics Engineering offers:
1. Master by research
2. PhD by research

The research activities focus into three main areas that usually capture the broad range of research activities within it. The main research areas are as follow:

Sustainability Energy & Power Electronics
The focus areas of research include machine & drives, real-time monitoring systems, electric vehicles, smart grid, alternative energy, power electronics application, renewal energy, power quality and energy efficiency.

Applied Electronics & Computer Engineering
The focus areas of research include industrial electronics, RF & wireless communication and embedded system design. In addition, the expertise of the members is relevant to areas in microcomputer, data communication, computer system, data, image and video processing, speech processing and vision system. Biomedical instrumentation, RF & wireless communication are also in the field of research areas

Instrumentation & Control Engineering
The focus areas of research include instrumentation & control system for industries in the fields of manufacturing, petrochemical and biotechnology. It is also capable in giving expert support in biotech industries especially in the identification of appropriate instrument for specific purpose and also designing an effective control system. In addition, research in robotics and unmanned system are also actively being carried out.

Contact
Dean
Faculty of Electrical & Electronics Engineering
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26600 Pekan, Pahang, MALAYSIA
Tel: 609 - 424 6000 Fax: 609 - 424 6111
http://fkee.ump.edu.my/
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Applied Electronics & Computer Engineering
- Emerging Techniques for Next Generation Video/Image Coding
- Image/Video Processing
- Audio/Signal Processing
- Image Formation and Scanning
- Visual Communications
- Image/Video Storage, Retrieval, and Authentication
- Systems And Techniques for Human Interaction
- Embedded Systems and Architecture Implementations
- Cloud Multimedia Systems, Applications and Services

Applications: Biomedical Sciences, Mobile Imaging, Document Image Processing And Analysis, other Applications

Sustainable Energy & Power Electronics
- Energy Storage
- Energy Management, Policy and Economics
- Power System Engineering
- Power Electronics and Drives
- Applications of Computational Intelligence in Engineering
- Electric Vehicle Power and Propulsion
- High Voltage Engineering, Dielectric Material and Plasma Application
- Power Quality, Protection and Electromagnetic Compatibility
- Current Engineering Issues and Industrial Experience
- Electrical Machines Design
- Power Engineering Education

Instrumentation & Control Engineering
- Robot Design
- Development and Control
- Underactuated Systems and Control
- Legged/Multi-Legged Systems
- Tele Robotics and Teleoperation
- Human-Robots Interfaces
- Space and Marine Robotics
- Surveillance
- Fault Detection and Diagnosis
- Robotics in Medical
- Bioinspired/Biomimetic System
- Haptic System
- Process Control
- Thermographics
- Photonic Sensors
- Gas-Based Sensors
- Virtual Instrument
- E-Nose
- Metrology and Instrumentation
- Electromagnetic Measurement
- Biosensors
- Agent-Based Modeling
- Swarm Intelligence
- Evolutionary Computation
- Biometric Systems / Bioinformatics
- Computational Intelligence
- Cybernetics for Informatics
- Knowledge-Based Systems
- Heuristic Algorithms
- Hybrid Models of NN
- Fuzzy Systems
- Self-Organization
Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements
Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

*TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required to attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

Admission
Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission. Applicants may apply through UMP’s website http://www.ump.edu.my > Academic > Academic Center > > Institute of Postgraduate Studies > Online application. Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.

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Course Fees
Total academic fee per semester (in MYR***)

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MYR: Ringgit Malaysia
The Faculty offers postgraduates programs that are relevant to today's industry with aim to address the increasing need of skillful manpower in the field of Science and Technology.

It is also aligned to the national goal to increase knowledgeable and competent human capital, namely Research Scientists and Engineers (RSE).

The Faculty is equipped with state-of-the-art facilities to support graduate students in their research. There are four main research clusters within the Faculty which established based on our strength and identified niches namely, Advances Materials, Green Technology, Drug Discovery & Diagnostics, and Applied & Industrial Mathematics.

The details of the research clusters are follows:

**Advanced Materials**
This group conducts research on Functional Materials, Photonic Materials, and Catalysis. The group is led by Professor Dr. Jose Rajan.

**Drug Discovery and Diagnostics**
This group conducts research on Omics Technology, Biodiagnostics, Organic Synthesis, and Natural Products. The group is led by Dr. Jaya Vejayan A/L Palliah.

**Green Technology**
This group conducts research on Biomass Conversion, Bioremediation, Renewable Energy, and Plant, Soil & Microbe. The group is led by Dr. Essam Abdellatif Makky Saleh.

**Applied and Industrial Mathematics**
This group conducts research on Market & Trends and Dynamical System. The group is led by Dr. Mohd Sham Bin Mohamad.

---

**Contact**

*Dean*

**Faculty of Industrial Sciences & Technology**

Universiti Malaysia Pahang

Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang, MALAYSIA

Tel: 609 - 549 2767/2765  Fax: 609 - 549 2766

# MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
## - Research

### Industrial Chemistry
- Natural Products
- Organic Synthesis
- Fine & Specialty Chemicals
- Catalysis
- Oleochemical
- Petrochemical
- Polymer Chemistry
- Analytical Chemistry
- Environmental Monitoring and Characterization
- Food Chemistry
- Organometallic Chemistry
- Other Chemistry Related Field

### Industrial Biotechnology
- Bioprocess and Fermentation
- Enzyme/Protein Technology
- Biochemistry
- Industrial Microbiology
- Bionanotechnology
- Biosensor/Diagnostic Kits
- Bioremediation
- Cell Culture Technology
- Food Microbiology
- Pharmaceutical
- Omics Technology
- Plant Biotechnology
- Carbohydrate Technology
- Bioinformatics
- Molecular Biology
- Other Biotechnology Related Fields

### Advanced Materials
- Nanostructured Materials
- Materials For Energy Conversion
- Materials For Energy Storage Devices
- Solid State Ionics
- High Temperature Superconductor Materials
- Quantum Chemical Calculations
- Microwave Materials
- Lignocellulosic Materials
- Biobased Adhesives
- Conducting Polymers
- Sensors
- Polymer Synthesis
- Polymer Composites
- Molecular Physics
- Emulsion Polymerization
- Biomaterials
- Photonic Materials
- Other Advanced Materials Related Fields

### Mathematics and Statistics
- Fluid Dynamic and Mechanics
- Solid Mechanics
- Heat Mass Transfer
- Numerical Analysis
- Group Analysis
- Bio-mathematics
- Computer Aided Geometric Design (CAGD)
- Mathematical Modelling/Fluid Flows
- Mathematical Education
- Pattern Recognition
- Stochastic Modelling
- Time Series Analysis
- Multivariate Analysis
- Operational Research
- Circular Statistics
- Rainfall Modelling
- Environmental Statistics
- Medical Statistics
- Other Mathematical Related Fields
Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.
*TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required attend the English Course - Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

Admission

Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission. Applicants may apply through UMP’s website http://www.ump.edu.my > Academic > Academic Centre > Institute of Postgraduate Studies > Online application. Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.
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<td></td>
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<td></td>
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## Course Fees

Total academic fee per semester (in MYR**)

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MYR: Ringgit Malaysia
The Faculty of Industrial Management (FIM) is a new entity established in July 2014 through a rebranding process of the Faculty of Technology which was established in 2011 and was formerly known as Faculty of Manufacturing Engineering and Technology Management.

Over the years, FIM continues to grow and change but still keep its original goals in mind whilst developing ones to meet the challenges of the globalized environment.

The faculty has a vision “To nurture future innovative leaders through applying business and technological knowledge” with a mission “To provide enriching teaching and learning experience through creative convergence of business and technology”.

Contact
Dean
Faculty of Industrial Management,
Universiti Malaysia Pahang
Lebuhraya Tun Razak, 26300 Gambang,
Kuantan, Pahang, MALAYSIA
Tel: 609 - 549 2166   Fax: 609 - 549 2167
http://fim.ump.edu.my/
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Operation Management
- Simulation Modeling
- Public Transport Modeling
- Stochastic Modeling
- Forecasting
- Product Development
- Business Process Design, Analytical & Mining
- Modeling Software
- Supply Chain Management

Project Management
- Project Scope Management
- Project Quality Management
- Project Cost Management
- Project Time Management
- Project Risk Management
- Project Integration Management
- Project Human Resource Management
- Project Communication Management

Human Capital Resources
- Human Environment
- Industrial Psychology
- Organizational Behaviour

Duration

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Period of Candidature</th>
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</thead>
<tbody>
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<td></td>
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<td>12</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>24</td>
</tr>
<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>36</td>
</tr>
</tbody>
</table>

Course Fees
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<tr>
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<tbody>
<tr>
<td></td>
<td>Local (MYR)</td>
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</tr>
<tr>
<td></td>
<td>1st Subsequent</td>
<td>1st Subsequent</td>
</tr>
<tr>
<td>Master</td>
<td></td>
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</table>

MYR: Ringgit Malaysia

Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.
**English Language Requirements**

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

*TOEFL ITP is not acceptable by admission.*

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required attend the English Course - Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

**Admission**

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**MASTER OF BUSINESS ADMINISTRATION**

- **Coursework**

**Programme Structure**
- Managerial Economics
- Management Accounting for Control and Decision Making
- Organisational Behaviour
- Innovation Management & Entrepreneurship
- Operation Management
- Strategic Management
- Strategic Marketing
- Financial Management
- Strategic Leadership & Business Transformation
- Managerial Decision Modelling

**Mode A – Project**
- Business Research Methods
- Project I
- Project II

**Mode B**
- Elective I
- Elective II
- Elective III
- Elective IV
- Elective V

**Elective : Business Engineering**
- Supply Chain & Logistics Management
- Product Management
- Service Management
- Risk Management
- Financial Derivatives
- Investment Management
- Business Ethics
- Business Law
- International Business

**Elective : Technology Management**
- Technology Assessment
- Engineering Technology & Technology Innovation
- Knowledge Management
- Technology Management: Emerging Concept & Issues
- Sustainable Development & Green Technology

**Elective : Engineering Management**
- Quality Management
- Production Planning & Control
- Lean Management
- Industrial Engineering
- Safety, Health & Environment
Admission Requirements

- Recognized degree with CPA 2.50/4.00 and above; or
- Recognized degree with minimum 5 years working experience in related fields; or
- Proficient in English.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

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Duration

<table>
<thead>
<tr>
<th>Programme</th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum Period</td>
<td>Maximum Period</td>
</tr>
<tr>
<td>Master Coursework</td>
<td>1 year</td>
<td>3 years</td>
</tr>
</tbody>
</table>

*Note: 1 year denotes two (2) normal semester plus one (1) short semester.

Credit Hours

- Total credit hours: 45 (15 courses)
- Full time: 12 credits per semester
- Part time: 6 credit hours

Course Fees

<table>
<thead>
<tr>
<th>Component</th>
<th>On campus (Gambang)</th>
<th>Off campus (Menara Atlan, Kuala Lumpur)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Student (MYR 375/credit hour + Admin Fees)</td>
<td></td>
<td>Local Student (MYR 500/credit hour + Admin Fees)</td>
</tr>
<tr>
<td>International Student (MYR 525/USD169/credit hour + Admin Fees)</td>
<td></td>
<td>NA</td>
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<th>Component</th>
<th>Local Student (MYR 375/credit hour)</th>
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<tbody>
<tr>
<td>On campus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Semester</td>
<td>7,050</td>
<td>10,380</td>
</tr>
<tr>
<td>2nd Semester</td>
<td>6,450</td>
<td>8,680</td>
</tr>
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<td>3rd Semester</td>
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</tr>
<tr>
<td>Sub-Totals</td>
<td>19,950</td>
<td>27,740</td>
</tr>
</tbody>
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MYR: Ringgit Malaysia
Faculty of Manufacturing Engineering

The Faculty of Manufacturing Engineering was established in 2008 with the target to produce competent professionals for the manufacturing industry. Being an industry-driven faculty, the faculty offers several academic programs which are significant in preparing students with essential engineers attributes such as solid scientific foundation, psychomotor skills, critical thinking skills, communication skills, and entrepreneurship.

MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Focus Areas
Mechatronics & System Design
- Green Energy
- Electrical Drive
- Biomedical Electronic
- Cybernetics Intelligence
- Wireless Cognative System
- Wireless and Mobile System
- Robotic and Control System
- Micro-Electronics and Digital System

Contact
Dean
Faculty of Manufacturing Engineering
Universiti Malaysia Pahang
Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang, MALAYSIA
Tel: 609-424 5800 Fax: 609-424 5888
http://fkp.ump.edu.my/
Research Focus Areas

Advanced Manufacturing Process & Design
- CAD/CAM/CAE
- Machining Mechanics
- Sheet Metal Processes
- Product Design & Manufacturing
- Tool & Die Technologies
- Rapid Prototyping & Manufacturing

Innovative Materials
- Polymer & Composite Material
- Sustainable Material
- Surface Engineering
- Smart Materials
- Alloy Design

Innovative Manufacturing, Mechatronics and Sports
- Hot Stamping Process
- Sustainable Manufacturing
- Vision based Robotics
- Lower Limb Exoskeleton
- Sports Related Head Injury
- Custom-made Sports Equipment
- Sports Performance Monitoring Devices

Manufacturing System & Optimization
- Production System Optimization
- Production Planning & Control
- Ergonomics/Human Factor
- Manufacturing Simulation
- Manufacturing Quality

Admission Requirements

Master Applicant
Must possess a Bachelor’s Degree (Honors) with CPA at least 2.75/4.00 in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.
English Language Requirements

Candidates should have a good command of English equivalent to IELTS Band 5.0 or TOEFL 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

If you have obtained a lower result or have not taken the IELTS Band 5 and/or TOEFL 500 and below must attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

Admission

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<td></td>
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<td>24 months</td>
<td>4</td>
<td>60 months</td>
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<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24 months</td>
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<td>72 months</td>
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<td></td>
<td>Part Time</td>
<td>36 months</td>
<td>6</td>
<td>96 months</td>
<td>16</td>
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Course Fees

Total academic fee per semester (in MYR***)

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<tr>
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<th>Full Time</th>
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<td>Master</td>
<td>3,800</td>
<td>1,700</td>
<td>6,780</td>
<td>3,580</td>
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<tr>
<td>1st</td>
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<td>1,700</td>
<td>6,780</td>
<td>3,580</td>
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<tr>
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<td>1,700</td>
<td>6,780</td>
<td>3,580</td>
<td>3,880</td>
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<td>PhD</td>
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<td>3,880</td>
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<tr>
<td>1st</td>
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<td>7,580</td>
<td>3,880</td>
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MYR: Ringgit Malaysia
MASTER OF INDUSTRIAL ENGINEERING
- Coursework

Course Structure
Core Structure
• Research Methodology
• Advanced Operation Research
• Manufacturing Systems
• Faculty Planning and Design
• Advanced Engineering Economy
• Industrial Ergonomics
• Simulation of Industrial Systems
• Industrial Safety, Health and Environment Management
• Advanced Production Planning and Control
• Project I & Project II

Elective
Sustainable Manufacturing
• Reliability and Maintainability Engineering
• Lean Manufacturing
*Choose one (1) only

Duration

<table>
<thead>
<tr>
<th>Programme</th>
<th>Minimum Period</th>
<th>Maximum Period</th>
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<tr>
<td>Master Coursework</td>
<td>1 year</td>
<td>3 years</td>
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</table>

Note: 1 year denotes two (2) normal semester plus one (1) short semester.

Course Fees

<table>
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<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
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<tr>
<td></td>
<td>1st Semester</td>
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<td>Sub-Total</td>
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<td>5,700</td>
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<td>TOTAL(MYR)</td>
<td>14,475</td>
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MYR: Ringgit Malaysia
Admission Requirements

• Recognized degree with CPA 2.50/4.00 and above or
• Recognized degree with CPA lower than 2.50/4.00, the candidates must have minimum of 5 years working experience in related fields.

*Subject to approval by Faculty Council

English Language Requirements

Candidates should have a good command of English equivalent to IELTS Band 5.0 or TOEFL 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

If you have obtained a lower result or have not taken the IELTS Band 5 and/or TOEFL 500 and below must attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).
Faculty of Mechanical Engineering

The Faculty of Mechanical Engineering, Universiti Malaysia Pahang is situated in the Royal town of Pekan in the State of Pahang. It is located at the waterfront facing the South China Sea, approximately 270km to the east of the capital city of Kuala Lumpur. The university was established more than a decade ago and has since made big strides as a research and learning institution, equipped with high-end facilities and driven by capable faculties. Apart from undergraduate programmes in Mechanical Engineering, the faculty offers postgraduate degrees in a wide range of research fields including:

- Advanced Structural Integrity & Vibration
- Automotive
- Computational Analysis
- Corrosion & Fracture
- Energy Sustainability
- Human Engineering
- Manufacturing Process

The Faculty has strong links with automotive, manufacturing as well as oil & gas industry in the East Coast Region. Most of our undergraduate students add value to their studies through our structured soft-skill development, industrial placement scheme, gaining vital professional experience and enhancing their employment prospects.

The faculty embarks on research and development activities in the areas of automotive, structural integrity & vibration, manufacturing, computer simulation, product design and development, corrosion & fracture and material engineering to generate technologies relevant to the needs of the industry. The faculty aims to be a centre for industries particularly in the East Coast region.
Research: Focus Groups

**Energy Sustainability Focus Group (ESFG)**
The Energy Sustainable Focus Group (ESFG) aims at producing quality research, products and services in energy sustainability. The group is committed to identifying potential areas for renewable energy (RE) and energy efficient (EE) initiatives in all sectors. In particular, the group strives to conduct research and development in biomass, tidal energy, wind energy, and greenhouse gas emission.

[http://esfg.ump.edu.my](http://esfg.ump.edu.my)

**Human Engineering Group**
The Human Engineering Group (HEG) conducts research related to biomechanics, ergonomics, bio-nano, health, and safety. In addition, HEG works in the design and specific application areas such as medical devices and development of technology for diverse user groups. The group believes that the combination of engineering, technology, and human can work together in order to improve the lifestyle.

[http://heg.ump.edu.my](http://heg.ump.edu.my)

**Structural Materials and Degradation**
Our focus group consists of mechanical and materials engineers who share common interest in structural materials and its degradation. The current research focus is on corrosion, investigation, and protection of metals alloys, failure analysis, and production of natural fibre composites.

[http://smd.ump.edu.my](http://smd.ump.edu.my)

**Advanced Structural Integrity & Vibration Research (ASIVR)**
The Advanced Structural Integrity and Vibration Research Group (ASIVR) was founded with a vision of becoming a leading research group in vibration & structural integrity area, particularly in the oil and gas sector. The ASIVR undertakes both fundamental and applied research projects and specializes in vibration, structural dynamics, fatigue, and acoustic. The ASIVR has established local and overseas research partnerships both from universities and industries.

[http://asivr.ump.edu.my](http://asivr.ump.edu.my)

**Automotive Engineering Research Group (AERG)**
Automotive Engineering Research Group (AERG) is established to provide high quality and appropriate solution in automotive niche related research and development. Some of the main research interest include renewable fuels, ride, handling, comfort, and combustion technology. Supported with state-of-the-art and high-end laboratory equipment along with the commitment from the experience and vibrant associates, the AERG group aims to be the national and international reference centre to automotive industry.

[http://aerg.ump.edu.my](http://aerg.ump.edu.my)

**Manufacturing Process Focus Group (MPFG)**
The Manufacturing Process Focus Group (MPFG) conducts activities related to the area of manufacturing processes. The main objective of this group is to enhance manufacturing productivity as well as minimizing the environmental impact of manufacturing process. Research areas undertaken include joining & welding, machining, sheet metal forming, casting, non-traditional processing, and powder metallurgy and process automation.

[http://mpfgfk.ump.edu.my](http://mpfgfk.ump.edu.my)
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Thrust Areas

**Advanced Materials And Structure**
- Acoustic Emission
- Advanced Material
- Automotive Noise, Vibration, and Harshness
- Computational Mechanics and Design Simulation
- Condition based Monitoring and Maintenance
- Coupled Fluid-Structural Interface (FSI)
- Damage Detection
- Dynamics Design Verification
- Experimental Mechanics (EMA,ODS)
- Human Vibration
- Neural Network Artificial Intelligence
- Room Acoustics
- Virtual instrumentation
- Vibration Control/Suspension System
- Virtual Prototyping

** Structural Materials & Degradation (SMD)**
- Advanced Materials-metal
- Fatigue and Fracture
- Corrosions
- Finite Element Analysis
- Structural Design
- Failure Analysis
- Composite

**Computational Analysis**
- Computational Mechanics Design Simulation
- Computational Fluid Dynamics
- Fluid Flow
- Thermal Energy
- Heat Transfer
- Finite Element Analysis

**Manufacturing Focus Group (MFG)**
- Joining & Welding
- Non-Conventional Processing
- Casting/Foundry
- Metal Forming
- Machining
- Powder Metallurgy
- Failure Analysis
- Intelligence Manufacturing
- Machine Design
- Coating Technology
- Laser Processing
- Automation
- Manufacturing System

**Automotive Focus**
- Diesel/Gasoline/Hydrogen Engine
- Hybrid Engine
- Sterling Engine
- Turbo Jet
- Biofuel
- Emission Control
- Fuel Additives
- Fueling, Intake, Exhaust
- Clean Combustion Technology
- Engine Testing and Instrumentation
- Ride Control & HVAC
- Steering/Breaking System
- Vehicle Safety
- Powertrain Engineering/Chassis Engineering
- Drivetrain
- Tyre Slips & Performance
- Vehicle Stability Control

**Energy Sustainability Focus Group (ESFG)**
- Solar Energy
- Biomass
- Wind Energy
- Natural gas
- Hydropower
- Petroleum
- Industrial Burner & Furnace
- Solid Propulsion
- Energy Storage

**Human Engineering Focus**
- Image Processing
- Biosensors & Instrument
- Ergonomics
- Biomechanics
- Sports Equipment
Admission Requirements

**Master Applicant**
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

**PhD Applicant**
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

**English Language Requirements**
Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

* TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required to attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

**Admission**
Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing their search proposal that is required for admission. Applicants may apply through UMP’s website [http://www.ump.edu.my > Academic > Academic Centre > Institute of Postgraduate Studies > Online application](http://www.ump.edu.my). Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.

**Duration**

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Minimum (Months)</th>
<th>Semester</th>
<th>Maximum (Months)</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters Degree</td>
<td>Full Time</td>
<td>12 months</td>
<td>2</td>
<td>36 months</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>24 months</td>
<td>4</td>
<td>60 months</td>
<td>10</td>
</tr>
<tr>
<td>PhD Degree</td>
<td>Full Time</td>
<td>24 months</td>
<td>4</td>
<td>72 months</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Part Time</td>
<td>36 months</td>
<td>6</td>
<td>96 months</td>
<td>16</td>
</tr>
</tbody>
</table>

**Course Fees**
Total academic fee per semester (in MYR***)

<table>
<thead>
<tr>
<th></th>
<th>Full Time</th>
<th>Part Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Local</td>
<td>International</td>
</tr>
<tr>
<td></td>
<td>1st</td>
<td>Subsequent</td>
</tr>
<tr>
<td>Master</td>
<td>3,800</td>
<td>1,700</td>
</tr>
<tr>
<td></td>
<td>3,800</td>
<td>Subsequent</td>
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<tr>
<td>PhD</td>
<td>4,600</td>
<td>2,000</td>
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<tr>
<td></td>
<td>4,600</td>
<td>Subsequent</td>
</tr>
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</table>

MYR: Ringgit Malaysia
MASTER OF ENGINEERING (MECHANICAL ENGINEERING)
- Coursework

Course Structure
- Research Methodology
- Efficient Energy Utilization
- Numerical Method
- Mechanical Engineering Design
- Environmental and Regulatory Issues
- Industrial Management System
- Elective I
- Elective II
- Elective III
- Project Dissertation

Elective
- Instrumentation & Control System
- Corrosion and Degradation
- Advanced Manufacturing
- Advanced Material
- Advanced Thermodynamic
- Computational Fluid Dynamics
- Design for Manufacture and Assembly
- Optimization Techniques

Admission Requirements
- Recognized degree with CPA 2.50/4.00 and above or
- Recognized degree with CPA lower than 2.50/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements
Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature.

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</thead>
<tbody>
<tr>
<td>Master Coursework</td>
<td>1 year</td>
<td>3 years</td>
<td>2 years</td>
<td>6 years</td>
</tr>
</tbody>
</table>

Note: 1 year denotes two (2) normal semester plus one (1) short semester.

Course Fees

<table>
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<tr>
<th>Component</th>
<th>Local Student (MYR 285/credit hour)</th>
<th>International Student (MYR 400/credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>1st Semester</td>
<td>2nd Semester</td>
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<tr>
<td>Sub-Total</td>
<td>5,700</td>
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<tr>
<td>TOTAL (MYR)</td>
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MYR: Ringgit Malaysia
Faculty of Engineering Technology was established on 1st April 2014 to support the national agenda on TVET education. This faculty offers various Engineering Technology degree programs in the field of electrical, energy & environment, manufacturing, infrastructure management, pharmaceutical and occupational safety & health. Engineering Technology programs emphasize on practical and the application of theory to solve real-world problems. Through strong collaboration and strategic global partnership from leading international universities and industries, our Engineering Technology graduates are well equipped to cater all industrial needs. We believe that teaching and learning session based on practical learning and hands on will develop a more competitive, creative and innovative graduate.

MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Thrust Areas
- Electrical & Electronics, Instrumentation, Sensor
- Manufacturing, Maintenance, Metal Forming
- Energy & Environment, Bio Energy, Bio Fuel
- Pharmaceutical, Chemical, Waste Water, Membrane
- Infra Management, Construction, Traffic, Soil Mechanic
- Occupational Health and Safety

Contact
Dean
Faculty of Engineering Technology
Universiti Malaysia Pahang
Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang, MALAYSIA
Tel: 609 - 549 2688/ 2636 Fax: 609 - 549 2689
http://ftek.ump.edu.my/
Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

Candidates should have a good command of English equivalent to IELTS 5.0, TOEFL* 500 points (for international students only). The certification should not be more than 2 years from the date test taken and registration of candidature. *TOEFL ITP is not acceptable by admission.

If you have obtained a lower result or have not taken the TOEFL / IELTS test, you are required to attend the Pre-sessional English Course (PEC). Students need to sit for the assessments and a final test, and must achieve at least B (the passing mark at postgraduate level).

Admission

Application for a research-based degree is open throughout the year. Interested applicants should first visit the website of the respective faculties to identify a potential supervisor. IPS encourages applicants to communicate with their potential supervisor in the course of preparing the research proposal that is required for admission. Applicants may apply through UMP’s website http://www.ump.edu.my > Academic > Academic Centre > Institute of Postgraduate Studies > Online application. Applicants are encouraged to follow-up with IPS on the status of their application at least one (1) month after submitting their application. The duration of an application process is one (1) month approximately.
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</table>

**MYR: Ringgit Malaysia**
The Centre for Modern Languages and Human Sciences (CMLHS) was established to complement the development of students’ technical and engineering knowledge; as knowledge and skills in engineering alone are insufficient to produce competitive graduates. There are four departments at the CMLHS, which are the Human Sciences Department, Modern Languages Department, Foreign Languages Department and Soft Skills Department.

As a service centre, the role that we play comprises providing trainings for students and academic and administrative staff, which include language courses such as MUET, IELTS, English and Communication courses, human sciences courses namely Islamic and soft skills courses, and research-related courses such as Biofeedback course. We also provide external trainings and consultancies to local and multinational organisations.

At the postgraduate level, CMLHS offers postgraduate courses on humanities with the integration of technology. Through the process, the graduate programmes offered at CMLHS is up-to-date, which meet the current needs of the industries and the demands of the local communities.

Being an excellent centre, CMLHS offers postgraduate courses combining humanities, technologies and engineering. Through the process, the graduate programmes offered by CMLHS are the most updated which meet the current needs of the industries and the demands of the local communities.

**Expert Groups and Niche Areas**

Here at CMLHS, our knowledge, skills and niche areas are classified and manifested through 6 significant Expert Groups which are:

- **Halal Management** led by Assoc. Prof. Dr. Hasan Ahmad
- **Human Environment & Civilization** led by Dr. Mansor Sulaiman
- **Pahang & Malaysian Heritage** led by Dr. Muhammad Hilmi Mat Said
- **Technology Enhanced Language Education** led by Dr Zuraina Ali
- **Language Studies** led by Dr Asiah Kassim

**Contact**

*Dean*

Centre for Modern Languages & Human Sciences

Universiti Malaysia Pahang

Kuala Pahang, 26600 Pekan,

Pahang, MALAYSIA

Tel: 609 - 424 6800  Fax: 609 - 424 6888

http://pbmsk.ump.edu.my/
MASTER OF SCIENCE and DOCTOR OF PHILOSOPHY
- Research

Research Thrust Areas

Human Sciences
- Cognitive and Creativity Studies
- Human Development
- Human Performance
- Human Resource Development
- Industrial and Psychology
- Organisational Management
- Soft Skills
- Traditional and Complementary Medicine

Language Teaching and Learning
- English as the International Language
- English for Specific Purposes (ESP)
- Language Education
- Teaching and Learning of Arabic
- Teaching and Learning of Bahasa Malaysia
- Teaching English as a Foreign Language (TEFL)
- Teaching English as a Second Language (TESL)
- Technology-enhanced Language Teaching and Learning

Islamic Studies
- Fiqh Science and Technology
- Islamic Civilisation
- Islamic Laws
- Islamic Muamalat
- Islamic Management
- Sciences of the Quran and Hadith
- Halal Studies and Management

Language Studies
- Applied Linguistics
- Cognitive Linguistics
- Corpus Linguistics
- Second Language Acquisition

Historical Studies
- Ethnic Relation
- Malaysian History
- Pahang Heritage

Literature Studies
- Arabic Literature
- English Literature
- Malaysian Literature

Admission Requirements

Master Applicant
A Bachelor degree with honours (minimum 2.75/4.00)* in the relevant area from recognized universities or equivalent professional qualifications that are recognized by the University Senate.

PhD Applicant
Masters degree by research or Masters degree by coursework with CPA of at least 3.00/4.00. Recognized degree with CPA lower than 3.00/4.00, the candidates must have minimum of 5 years working experience in related fields.

English Language Requirements

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Admission

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Duration

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<tr>
<th>Degree Program</th>
<th>Type of Candidature</th>
<th>Period of Candidature</th>
<th>Minimum (Months)</th>
<th>Maximum (Months)</th>
<th>Semester</th>
</tr>
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<tbody>
<tr>
<td>Masters Degree</td>
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<td></td>
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</tr>
</tbody>
</table>

Course Fees

Total academic fee per semester (in MYR**)

<table>
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<tr>
<th>Degree Program</th>
<th>Type of Cand.</th>
<th>Local (MYR)</th>
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<th>Local (MYR)</th>
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<td></td>
<td>1st</td>
<td>Subsequent</td>
<td>1st</td>
<td>Subsequent</td>
</tr>
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<td>Master</td>
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<td></td>
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<td></td>
<td>4600</td>
<td>2000</td>
<td>7580</td>
<td>3880</td>
</tr>
</tbody>
</table>

MYR: Ringgit Malaysia
**Pre-Sessional English Course (PEC)**

**PEC Structure**

Students who start with the Proficiency Module must go through all three modules, and must pass each module before proceeding to the next module. Students need to sit for the assessments and a final test, and must achieve at least a B grade. Students are allowed to repeat the course until they obtain the required grade. If students fail a module, they must continue the module until they pass, and so forth.

<table>
<thead>
<tr>
<th>Description</th>
<th>Skills</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Proficiency Module</strong></td>
<td>This module exposes students to basic language skills namely reading, writing, speaking and listening for communication purposes. Grammar input is also included.</td>
<td>6 weeks (100 hours)</td>
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<tr>
<td><strong>Academic Module</strong></td>
<td>This module is an enhancement of the Proficiency Module. In this module, students are exposed to academic based content and language skills appropriate for tertiary level. Grammar input is also included.</td>
<td>6 weeks (100 hours)</td>
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<tr>
<td><strong>Enhancement Module</strong></td>
<td>This module emphasizes on critical reading and writing skills, i.e. Literature Review and Research Proposal, to prepare them for their research proposal. It also includes enhancement of the presentation skills of research purposes such as proposal defence and seminar presentation.</td>
<td>6 weeks (100 hours)</td>
</tr>
</tbody>
</table>

**Flow Process of PEC Students**

- **Offer**
  - Receive Conditional Offer Letter from IPS unit.

- **Register**
  - Register as student of the PEC unit.

- **Placement**
  - Sit for English placement test to determine the module to enroll in.

- **Training**
  - Attend PEC based on the determined module.

- **Grading**
  - Need to for all assessments and a final test.
  - Need to obtain grade B to move to the next module.

- **Completion**
  - Award students with a transcript for each module.
  - At the end of Enhancement Module, certification of completion is awarded.
  - Proceed to register with IPS for postgraduate programmes.
Flow Chart for Pre-sessional English Course (PEC)

1. Review of application forms of international students at the IPS
2. The IPS forwards the names of the students who do not meet the English requirements to PEC Unit
3. Offer letter for PEC course will be issued by the IPS Unit
4. Students will enrol in PEC course
5. Students without IELTS or TOEFL results
   - Sit for UMP-EPT Test to determine their competency module
   - Enrol in the required PEC course - based on their competency module
7. The PEC Unit will issue results of test to students
8. The PEC Unit will inform the IPS of the result of the successful candidates
9. Students register as mainstream student with IPS
10. End

PEC Fees

- RM2100/level
- Students have to pay for three (3) level supon registration.
- If they exit at any time within the three levels, the fees will be absorbed as their tuition fees.

PEC Coordinators

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