



**UNIVERSITI
MALAYA**
Faculty of Engineering

POSTGRADUATE WELCOMING SESSION

SEMESTER I, SESSION 2021/2022



Prof. Ir. Dr. Ngoh Gek Cheng

Deputy Dean

(Postgraduate Studies)



The King Edward VII College of Medicine was founded in 1905 to train the first Malaysian (Malayan) doctors. The College later became known as the University of Malaya in Singapore.



The University of Malaya Kuala Lumpur campus was established in 1959. The University Hospital was opened in 1968.



UNIVERSITY OF MALAYA History

1905



King Edward VII College of Medicine, Singapore

1928



Raffles College Singapore

1949



Raffles College was merged with King Edward VII College of Medicine to become the University of Malaya.

1962



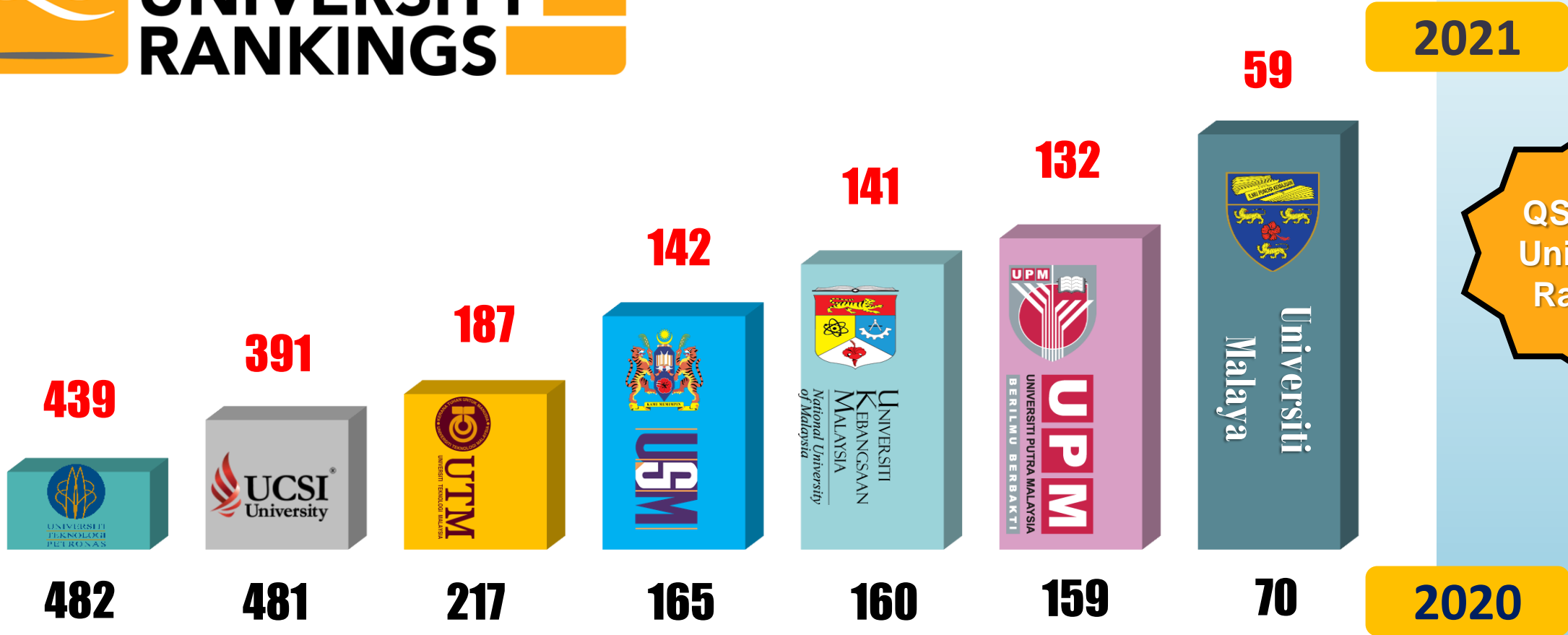
University of Singapore (now known as National University of Singapore)



University of Malaya Kuala Lumpur



QS WORLD UNIVERSITY RANKINGS

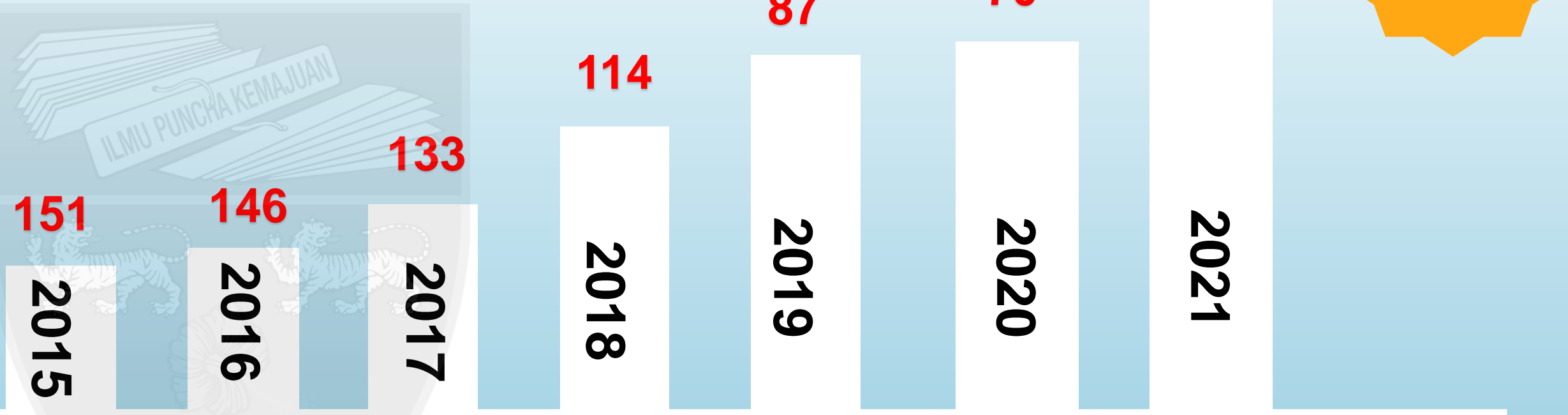


#59
QS World
University
Ranking

University Ranking

ONE OF THE

WORLD'S TOP 100 UNIVERSITIES



Since 2015, UM has always illustrated positive performance



UM Ranking Performance



Faculty of Engineering

The History

01 1950

The Board of Studies was set up by the University of Malaya, located in Bukit Timah, Singapore to recommend the **establishment of an Engineering Department**

03 1956

The first bachelor engineering course in **Civil Engineering** was offered

04 1958

The department was **upgraded to a Faculty of Engineering** when UM relocated its campus to Lembah Pantai, Kuala Lumpur

06 1970

The forth bachelor degree in **Chemical Engineering** was offered

02 1954

The Engineering Department was setup and **C.A.M. Gray** was appointed as the **First Professor** of Engineering

05 1959

The third bachelor degree in **Electrical Engineering** was offered

07 1974

All the four engineering divisions were **upgraded to Departments**

1993 08

The **Department of Engineering Design & Manufacture**, which was once known as the CAD/CAM unit was established

2013 12

The Department of Engineering Design & Manufacturing **merged** into the Department of Mechanical Engineering

2009 11

The **Bachelor of Biomedical Engineering (Prosthetics and Orthotics)** was offered

2001 10

The **Department of Biomedical Engineering** was established

1996 09

In the Session 1996/97, six other courses namely in **Telecommunication Engineering**, **Environmental Engineering**, **Materials Engineering**, **Computer Aided Design & Manufacturing Engineering**, and **Biomedical Engineering** were offered

Ranking by Subjects



54
ENGINEERING &
TECHNOLOGY



ranked
43
ELECTRICAL
ENGINEERING

QS WORLD UNIVERSITY RANKINGS
by subject



ranked
107
MECHANICAL
ENGINEERING

QS WORLD UNIVERSITY RANKINGS
by subject



ranked
69
CHEMICAL
ENGINEERING

QS WORLD UNIVERSITY RANKINGS
by subject



ranked
51-100
CIVIL
ENGINEERING

QS WORLD UNIVERSITY RANKINGS
by subject

QS WORLD UNIVERSITY RANKINGS

2022



17 | BEST GLOBAL UNIVERSITIES
& WORLD REPORT
U.S. News
2020
FOR ENGINEERING



65
THE WORLD UNIVERSITY RANKINGS
TIMES HIGHER EDUCATION



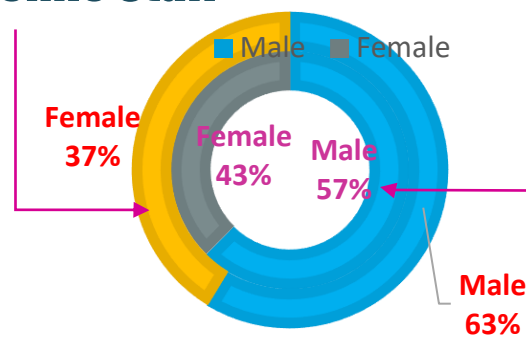


TOTAL 153
Academic staff

Male 96
Female 57

Academic Staff

Non-Academic Staff

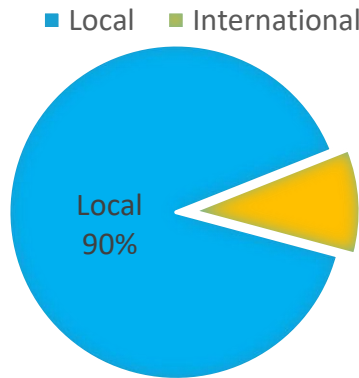


TOTAL 141
Non-Academic Staff

77 Male
64 Female



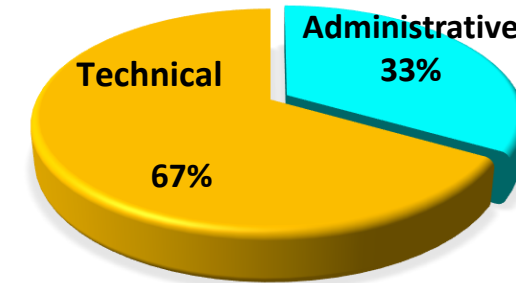
Lecturer	4
Senior Lecturer	84
Associate Professor	42
Professor	23



International (10%)

1. Egypt (1)
2. India (1)
3. Iran (4)
4. Sudan (1)
5. Bangladesh (4)
6. Indonesia (2)
7. New Zealand (1)
8. Yemen (1)
9. Netherland (1)

NON -ACADEMIC STAFF



Chartered Engineer 78

6 14 10 17 31
Civil Biomedical Chemical Electrical Mechanical

Professional Engineer 53

5 11 10 13 14
Civil Biomedical Chemical Electrical Mechanical



THE MANAGEMENT

FACULTY OF ENGINEERING



Prof. Ir. Dr. Kaharudin Dimiyati

Dean



Prof. Ir. Dr. Hazlie Bin Mokhlis

Deputy Dean (Undergraduate)



Prof. Ir. Dr. Ngoh Gek Cheng
Deputy Dean (Postgraduate)



Assoc. Prof. Ir. Dr. Lai Sai Hin
Deputy Dean (Research)



Assoc. Prof. Ir. Dr. Ahmad Khairi Bin Abdul Wahab
Deputy Dean (Development)



Ir. Dr. Nasrul Anuar Bin Abd Razak
Head of Dept. Biomedical Engineering



Dr. Mahar Diana Binti Hamid
Head of Dept. Chemical Engineering



Prof. Ir. Dr. Faridah Othman
Head of Department Civil Engineering



Prof. Ir. Dr. Sulaiman Wadi Harun
Head of Department Electrical Engineering



Assoc. Prof. Dr. Farazila Yusof
Head of Department Mechanical Engineering



Mdm. Noor Lailatul Marini Kamal Amir
Principal Assistant Registrar

PROGRAMME COORDINATORS

COURSEWORK PROGRAMMES



Master of Biomedical Engineering

- **Assoc. Prof. Ir. Dr. Ting Hua Nong**



Master of Mechanical Engineering
Engineering

- **Dr. Khoo Shin Yee**



Master of Safety, Health and
Environment Engineering Engineering

- **Ir. Dr. Jegalakshimi Jewaratnam**



Master of Systems Engineering

**Dr. Tengku Faiz Bin Tengku
Mohmed Noor Izam**

PROGRAMME COORDINATORS

RESEARCH PROGRAMMES



Doctor of Philosophy

Assoc. Prof. Dr. Roslina Binti Ahmad



Master of Engineering Science

**Assoc. Prof. Dr. Hendrik Simon Cornelis
Metselaar**

Deputy Dean (Postgraduate Studies) Office



DEPUTY DEAN
PROF. IR. DR. NGOH GEK
CHENG

*Deputy Dean's Office (Postgraduate Studies),
Faculty of Engineering*

Tel: +603-7967 4477 (Administration)/
4480 (Master Coursework)/
4481 (PhD & Master Research)/
4482 (Assistant Registrar)
Faks: +603-7956 1378



JUNAINAH BINTI
JAMALUDDIN
SENIOR ASST.
REGISTRAR N44

NUUR HAKIMAH BINTI
MOHD DIN
SECRETARY



General inquiries

NOOR HAFIZA BINTI
HALIM
ASST. ADMINISTRATIVE
OFFICER



Admission

NORHANIS BINTI
AHMAD
SENIOR ADMIN ASST.



Candidature Defence, Thesis
Seminar

MAZNAH BINTI
MOHAMMAD ZIN
SENIOR ADMIN ASST.



Coursework Programme

HALIJAH BINTI RAMLAN
SENIOR ADMIN ASST.



Research Programme

MEENA SUBRAMANIAM
ADMIN ASST.



Research Programme

SITI KHAIRIAH BINTI
IBRAHIM
ADMIN ASST.



Research Programme

Learning Outcomes

1

- Demonstrate continuing advanced knowledge and apply the knowledge in solving complex engineering problems.

2

- Analyze and evaluate complex engineering problems or issues critically and provide solutions through the application of engineering concepts.

3

- Formulate and design solutions for the complex engineering problems using appropriate methods and tools

4

- Communicate critically based on the engineering knowledge using oral or written medium as individual or in a group.

5

- Demonstrate competency incorporating advanced numerical concept and adopt relevant digital technologies in solving complex engineering problems.

6

- Demonstrate significant leadership skills in project management and technical project in the context of complex engineering application.

7

- Identify the need for continuous professional development and entrepreneurial element in the context of engineering discipline.

8

- Plan and execute technical or research project ethically and professionally as a socially responsible engineer.

Program Structure

- Master of Biomedical Engineering

COURSE	CREDIT
Core Courses	21
Elective Courses	9
Research Project	12
TOTAL CREDITS	42

- Master of Safety, Health and Environment Engineering

COURSE	CREDIT
Core Courses	21
Elective Courses	12
Research Project	10
TOTAL CREDITS	43

- Master of Mechanical Engineering

COURSE	CREDIT
Core Courses	21
Elective Courses	9
Research Project	12
TOTAL CREDITS	42

- Master of System Engineering

COURSE	CREDIT
Core Courses	15
Elective Courses	15
Research Project	12
TOTAL CREDITS	42

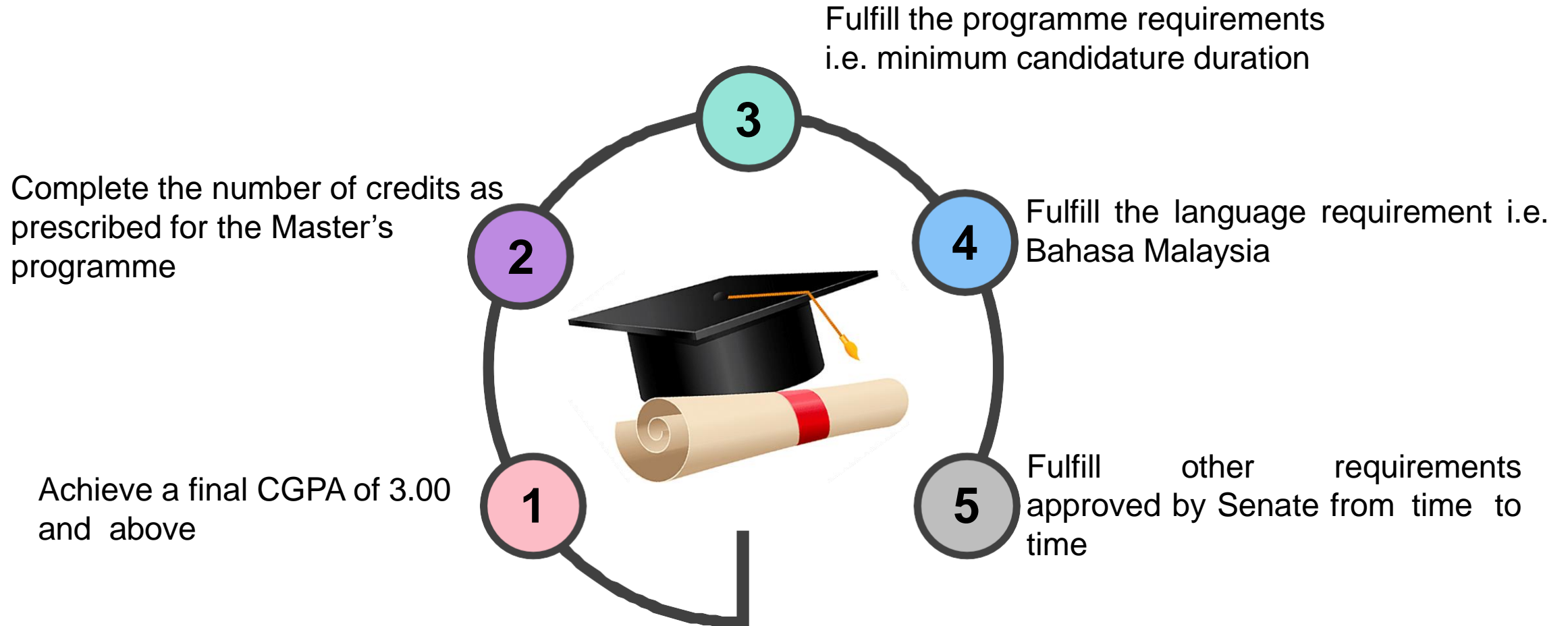
MARKING SCHEME AND GRADE POINT AVERAGE

Marks	Grade	Grade Point	Meaning
90.00 - 100.00	A+	4.00	High Distinction
80.00 - 89.99	A	4.00	Distinction
75.00 - 79.99	A-	3.70	Distinction
70.00 - 74.99	B+	3.30	Pass
65.00 - 69.99	B	3.00	Pass
60.00 - 64.99	B-	2.70	Fail
55.00 - 59.99	C+	2.30	Fail
50.00 - 54.99	C	2.00	Fail
45.00 - 49.99	C-	1.70	Fail
40.00 - 44.99	D+	1.30	Fail
35.00 - 39.99	D	1.00	Fail
00.00 - 34.99	F	0.00	Fail

Note:

Grade 'P' is given every semester for progressive courses which are conducted consecutively until the total credit of the course is completed. Other than medical reasons, any candidate who does not complete grade P will be given grade F.

GRADUATION – Programme of Study by Coursework



For more details please refer to <https://engine.um.edu.my/postgraduate-programmes>

CANDIDATURE REQUIREMENTS

MASTER BY RESEARCH

- (a) FULFILL the **University Bahasa Malaysia** course before graduation (INTERNATIONAL candidates only)
 - (b) PASS **Research Methodology Course** not later than the **second (2nd) semester** of candidature
 - (c) PRESENT research proposal in **Proposal Defence** not later than the **second (2nd) semester** of candidature
 - (d) PRESENT research progress in **Candidature Defence** not later than the **third (3rd) semester** of candidature
 - (e) PUBLISH **at least one (1) article** in **journals indexed by Thomson Reuters Web of Science (WoS)** (according to the criteria set in the publication guidelines), prior to graduation
 - (f) PASS dissertation examination and Viva Voce
 - (g) FULFILL residential requirement for **at least six (6) months***
-

CANDIDATURE REQUIREMENTS

DOCTOR OF PHILOSOPHY

- (a) FULFILL the **University Bahasa Malaysia** course before graduation (INTERNATIONAL candidates only)
 - (b) PASS **Research Methodology Course not later than the second (2nd) semester** of candidature
 - (c) PRESENT research proposal in **Proposal Defence not later than the second (2nd) semester** of candidature
 - (d) PRESENT research progress in **Candidature Defence not later than the fifth (5th) semester** of candidature
 - (e) PRESENT **Thesis Seminar** before the submission of thesis for examination
 - (f) PUBLISH **at least two (2) articles in journals indexed by Thomson Reuters Web of Science (WoS)** (according to the criteria set in the publication guidelines), prior to graduation
 - (g) PASS thesis examination and Viva Voce
 - (h) FULFILL the residential requirement for **at least six (6) months**
-

CANDIDATURE REQUIREMENTS

DOCTOR OF PHILOSOPHY (FAST TRACK)

- (a) FULFILL the **University Bahasa Malaysia** course before graduation (INTERNATIONAL candidates only)
 - (b) PASS **Research Methodology Course not later than the second (2nd) semester** of candidature
 - (c) PRESENT research proposal in **Proposal Defence not later than the second (2nd) semester** of candidature
 - ***(d) PRESENT research progress in PhD Confirmation Defence not later than the third (3rd) semester of candidature**
 - (e) PRESENT research progress at **Candidature Defence not later than the fifth (5th) semester** of candidature
 - (f) PRESENT **Thesis Seminar** before the submission of thesis for examination
 - (g) PUBLISH **at least two (2) articles in journals indexed by Thomson Reuters Web of Science (WoS)** (according to the criteria set in the publication guidelines), prior to graduation
 - (h) PASS thesis examination and Viva Voce
 - (i) FULFILL the residential requirement for **at least six (6) months**
-

Lecture Hall and Rooms

Lecture Hall	No of Rooms	Capacity
Auditorium	2	200 - 400 pax
Lecture Hall	9	100 – 240 pax
Tutorial Room	11	80 pax
The Cube	12	40 – 50 pax
Computer Labs	7	30 – 60 pax
Teaching and research labs	175	

For more information please refer to <https://engine.um.edu.my/facilities>



THE CUBE, BLOCK L



LECTURE HALL



COMPUTER LAB



STUDENT WORKSHOP



STUDY CORNER



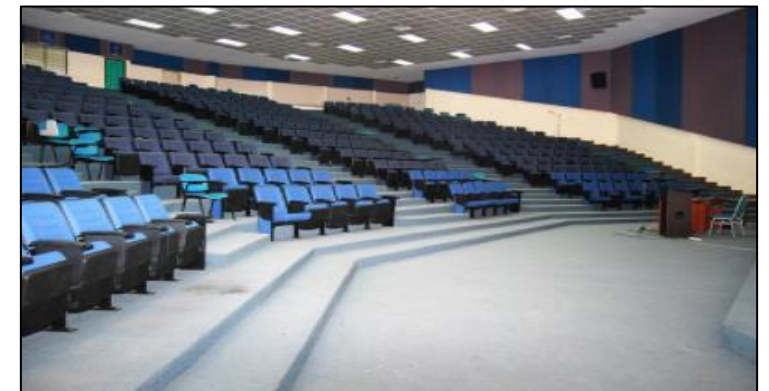
CAFETERIA



ENGINEERING LIBRARY



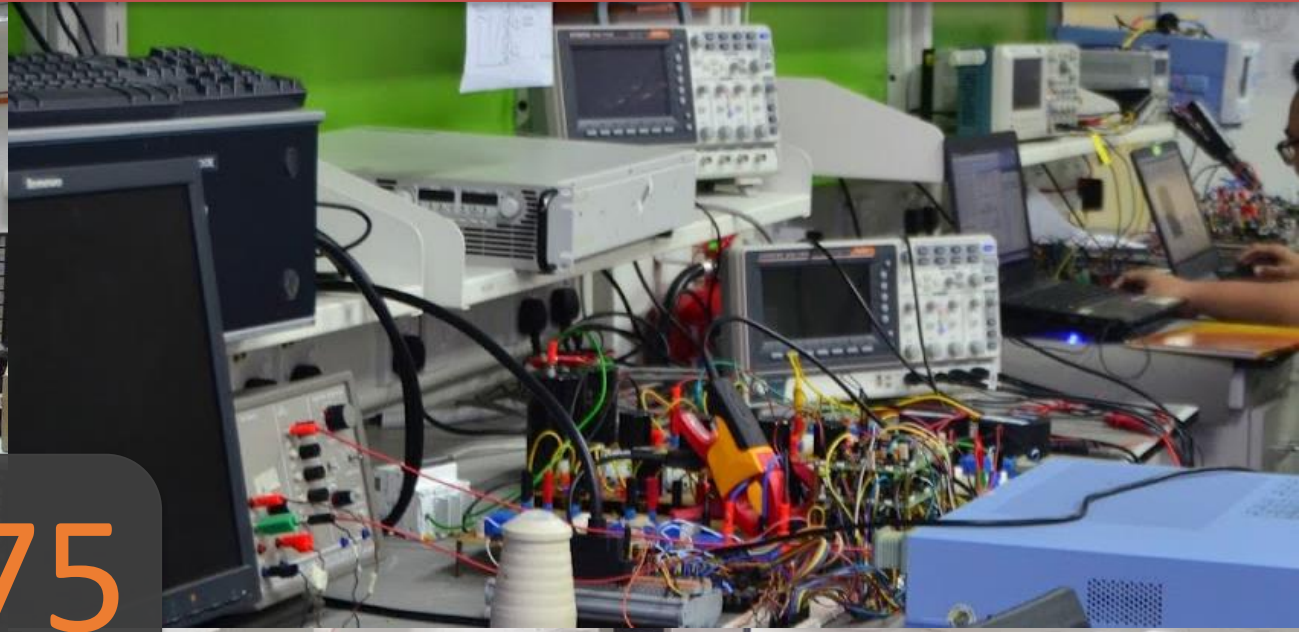
AUDITORIUM



High Voltage Lab



Power Electronics and Renewable Energy Lab



175
Laboratories



Tribology Lab



Advanced Manufacturing Lab

Heavy Structure Lab



Body Performance and Motion Analysis Lab



175
Laboratories

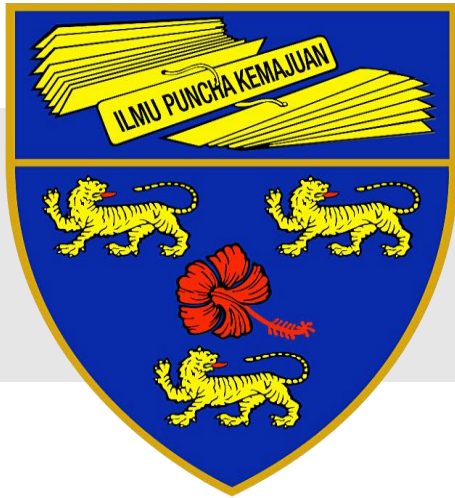


Environmental Lab



Mass Transfer Lab





Important Points

Important Points

Research Project

*Determination of field of research
Appointment of supervisor(s)
Confirmation of title
Meet submission dateline*

Research Methodology

Join the class according to the mode of studies (please refer to the Handbook)

Plan schedule for examinations

Strictly follow the examination schedule

Bahasa Malaysia Module

International student must fulfill the course before graduation (approach the Faculty of Languages and Linguistics for more information)

Enrolment Status

*Confirm registration and ensure status is **ACTIVE***

Add and Drop Modules

No add and drop module is allowed after confirmation of registration

Confirmation Letter for Visa

*Apply at least **ONE MONTH** before the expiry date of Visa
(**NO Last Minute!**)*

Siswamail

Check regularly for important updates and notification i.e. reminder on Progress Report, Deadlines , change of timetable & etc.

Teaching and Learning

Due to current pandemic situation, teaching and learning activities will be conducted online or in hybrid mode

REGISTRATION

REGISTRATION DATES FOR POSTGRADUATES (BY COURSEWORK)

Online Registration
(Self-Enrolment) **20th September –
27th September 2021**

Online Module
Registration and
Confirmation **29th September –
8th October 2021**
via Maya Portal at <https://maya.um.edu.my>

REGISTRATION DATES FOR POSTGRADUATES (BY RESEARCH)

Online Registration
(Self-Enrolment) **20th September 2021 –
28th January 2022**

Research Methodology
Module Registration and
Confirmation **4th October –
29th October 2021**

Thesis/ Dissertation
Module Registration and
Confirmation **4th October 2021 –
28th January 2022**

If you have any issue related to login, do visit [UMSITS FAQ](#)
For help and support, please go to [UM Help Desk](#) via Maya Portal at <https://maya.um.edu.my>

UMSITS ENROLMENT

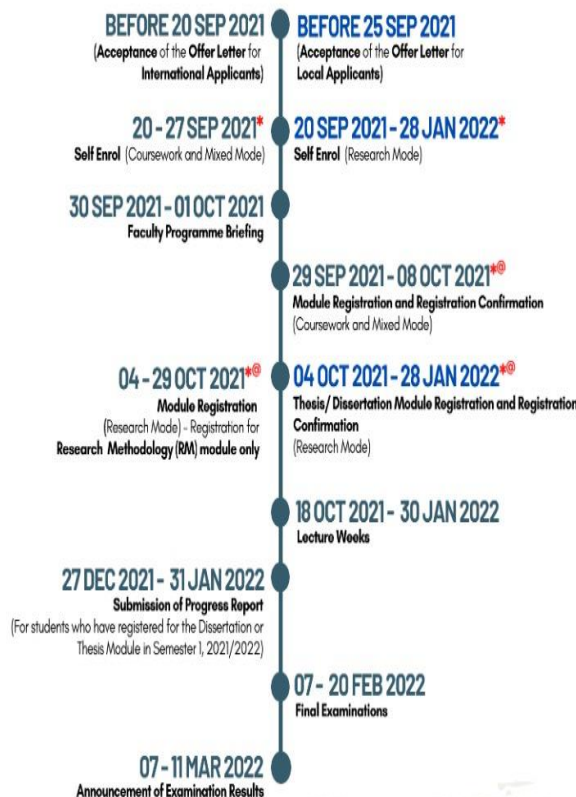
Dear Students,

To ensure the registration process runs smoothly, it is advisable for students to complete the Module Registration first. You are encouraged to Generate Pre-Invoice during non peak hours followed by Enrolment Activation.



REGISTRATION SCHEDULE FOR NEW STUDENTS SEMESTER I, 2021/2022 ACADEMIC SESSION

NEW POSTGRADUATE STUDENTS



- * Self Enrol on the 20th September 2021 will start at 8.30 a.m. (Malaysia time)
- Registration on the 29th September 2021 will start at 8.30 a.m. (Malaysia time)
- @Final date for registration confirmation (Status will remain as **NOT REGISTERED** if registration is not confirmed)
- Students are **not allowed to ADD and/or DROP** any module once registration is confirmed within the stipulated dates.
- Please note that the registration schedule is subject to change. (Updated 15th September 2021)



MENARA
KEJURUTERAAN

THANK YOU
