POSTGRADUATE WELCOMING SESSION

SEMESTER 2, SESSION 2021/2022

UNIVERSITI MALAYA
Faculty of Engineering

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**.

1962

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

University of Malaya Kuala Lumpur

1949

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

UNIVERSITY OF MALAYA

History

1928

Raffles College Singapore

1905

King Edward VII College of Medicine, Singapore

ONE OF THE

WORLD'S TOP 100 UNIVERSITIES

#65

Year	Rank
2015	151
2016	146
2017	133
2018	114
2019	87
2020	70
2021	59
2022	65
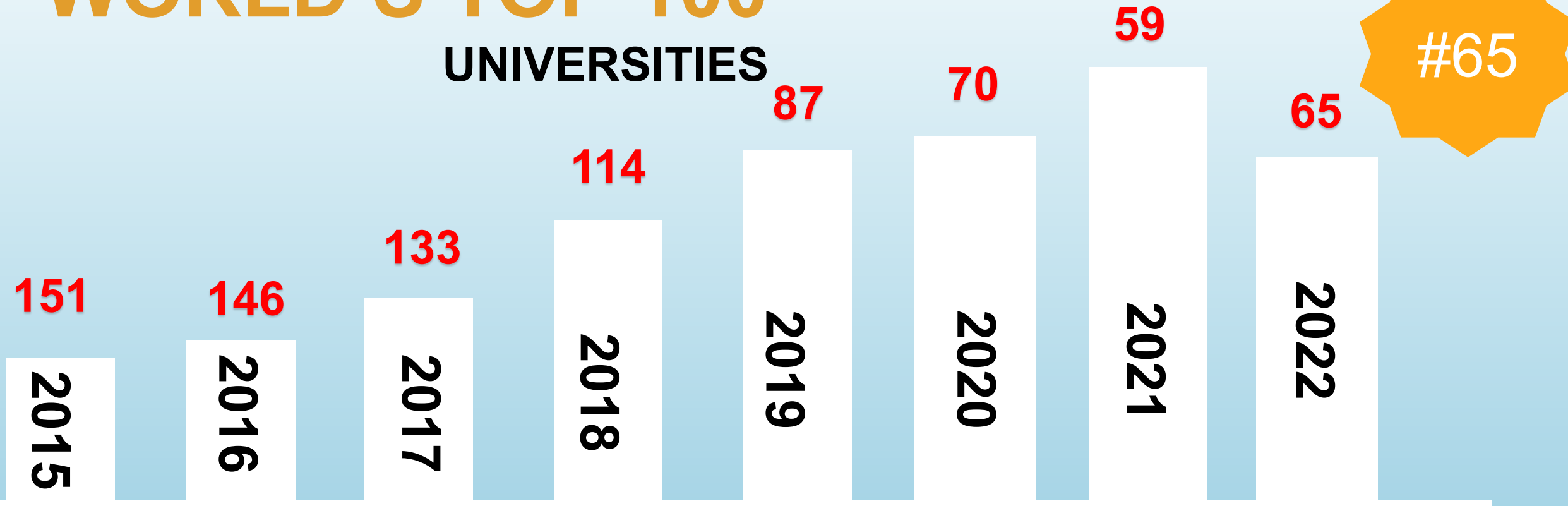
Since 2015, UM has always illustrated positive performance

QS WORLD UNIVERSITY RANKINGS

UM Ranking Performance

Faculty of Engineering

UNIVERSITI MALAYA
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**

02 1954

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

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

The second bachelor degree in **Mechanical Engineering** was offered

05 1959

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

06 1970

The forth bachelor degree in **Chemical 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

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

2001 10

The **Department of Biomedical Engineering** was established

2009 11

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

2013 12

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

UNIVERSITI
MALAYA
Faculty of Engineering

54
ENGINEERING &
TECHNOLOGY

QS WORLD
UNIVERSITY
RANKINGS

2022

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

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

65
THE WORLD
UNIVERSITY
RANKINGS
TIMES HIGHER EDUCATION

MALAYA
Faculty of Engineering

TOTAL **153**
Academic staff

Male	96
Female	57

Academic Staff / Non-Academic Staff

- Male
- Female

Female 37%

Female 43%

Male 57%
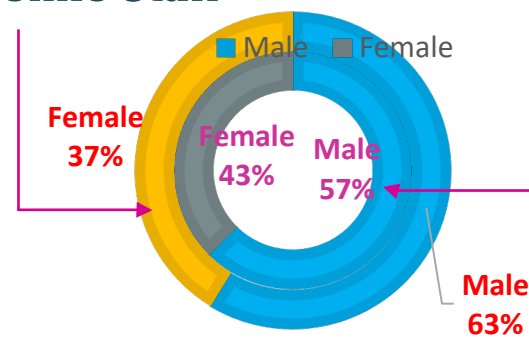
Male 63%

TOTAL **141**
Non-Academic Staff

77	**Male**
64	**Female**

Lecturer	4
Senior Lecturer	84
Associate Professor	42
Professor	23

- Local
- International

Local 90%
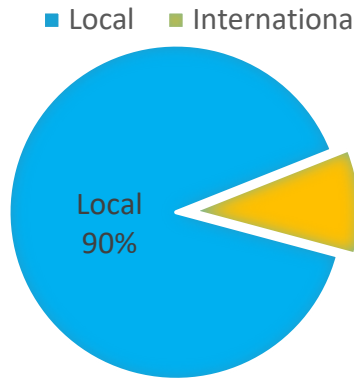
International (10%)
1. Egypt (1)
2. India (1)
3. Iran (4)
4. Sudan (1)
5. Bangladesh (4)
6. Indonesia (2)
7. New Zealand (1)
8. Yemen (1)
9. Netherland (1)

NON –ACADEMIC STAFF

Technical 67%

Administrative 33%
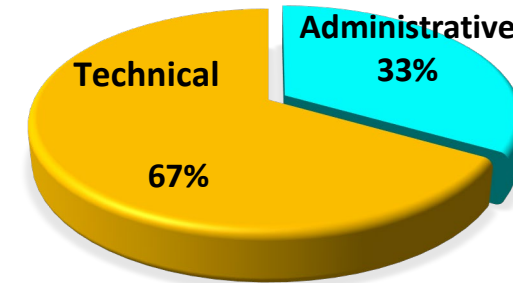
Chartered Engineer **78**

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

PROGRAMME COORDINATORS

COURSEWORK PROGRAMMES

Master of Biomedical Engineering

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

tinghn@um.edu.my

Master of Mechanical Engineering

- **Dr. Khoo Shin Yee**

khooshinyee@um.edu.my

Master of Safety, Health and Environment Engineering

- **Ir. Dr. Jegalakshimi Jewaratnam**

jegalaxmi24@um.edu.my

Master of Systems Engineering

Dr. Tengku Faiz Bin Tengku Mohmed Noor Izam

tengkufaiz@um.edu.my

PROGRAMME COORDINATORS

RESEARCH PROGRAMMES

Doctor of Philosophy

Assoc. Prof. Dr. Roslina Binti Ahmad

roslina@um.edu.my

Master of Engineering Science

Assoc. Prof. Dr. Hendrik Simon Cornelis Metselaar

h.metselaar@um.edu.my

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	NOOR HAFIZA BINTI HALIM ASST. ADMINISTRATIVE OFFICER	NORHANIS BINTI AHMAD SENIOR ADMIN ASST.	MAZNAH BINTI MOHAMMAD ZIN SENIOR ADMIN ASST.	SENIOR ADMIN ASST.	NOR HARYATI BINTI MUEN SENIOR ADMIN ASST.	SITI KHAIRIAH BINTI IBRAHIM ADMIN ASST.
General inquiries	Admission	Candidature Defence, Thesis Seminar	Coursework Programme	Research Programme	Research Programme	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.

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

UNIVERSITI MALAYA

Fulfill the programme requirements i.e. minimum candidature duration

3

Complete the number of credits as prescribed for the Master's programme

2

4 Fulfill the language requirement i.e. Bahasa Malaysia

Achieve a final CGPA of 3.00 and above

1

5 Fulfill other requirements approved by Senate from time to time
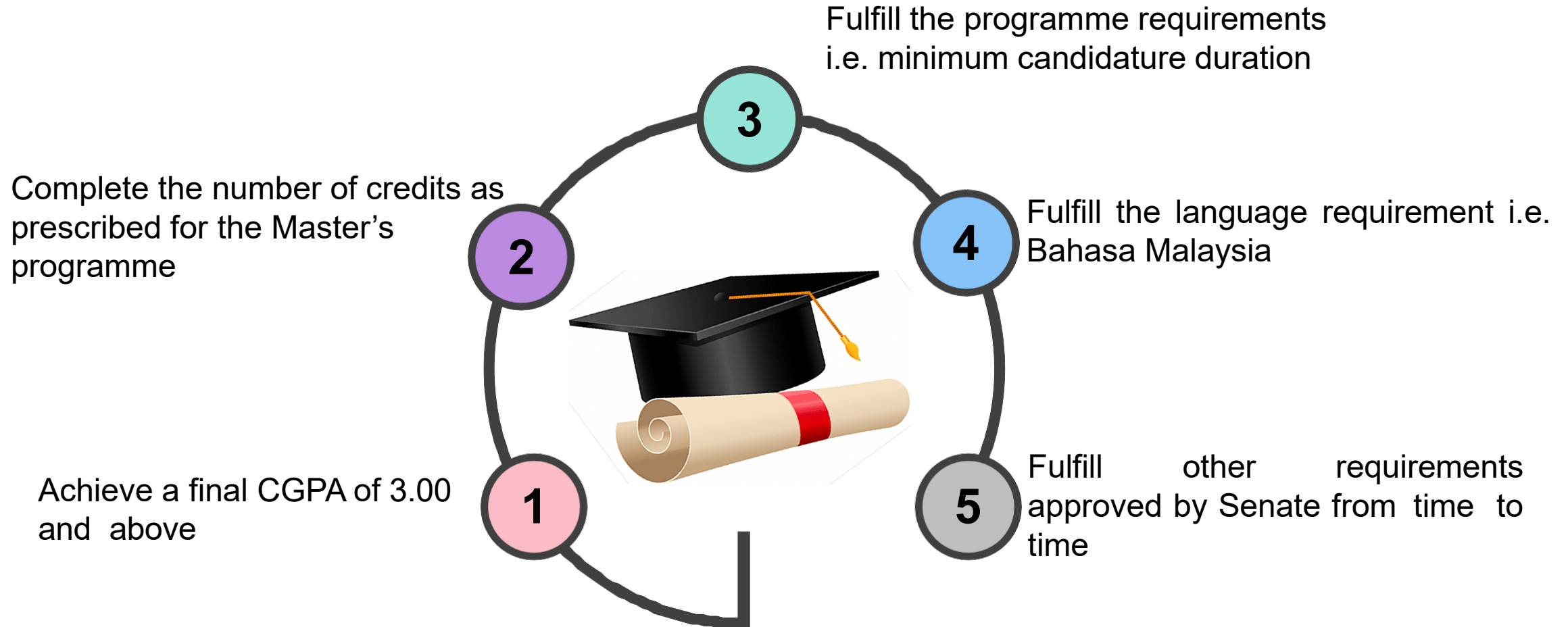
For more details please refer to https://engine.um.edu.my/postgraduate-programmes

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

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

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

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

UNIVERSITI MALAYA
Faculty of Engineering

THE CUBE, BLOCK L

LECTURE HALL
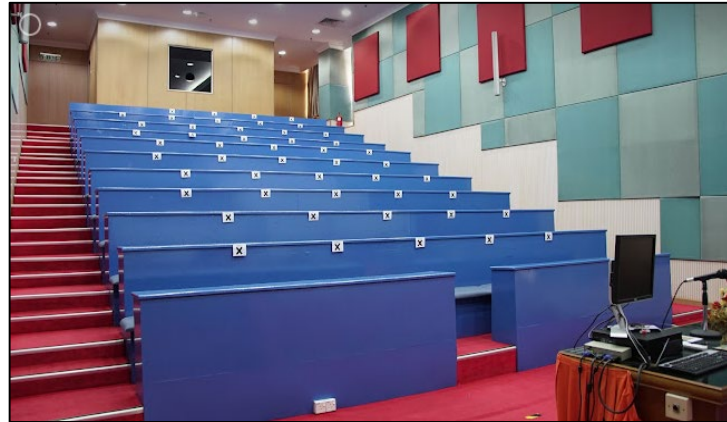
COMPUTER LAB

STUDENT WORKSHOP

UNIVERSITI
MALAYA
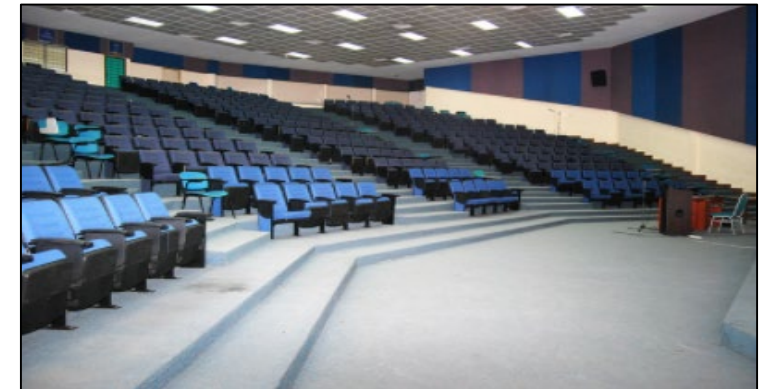*Faculty of Engineering*

STUDY CORNER

CAFETERIA

ENGINEERING LIBRARY

AUDITORIUM

High Voltage Lab

Power Electronics and Renewable Energy Lab
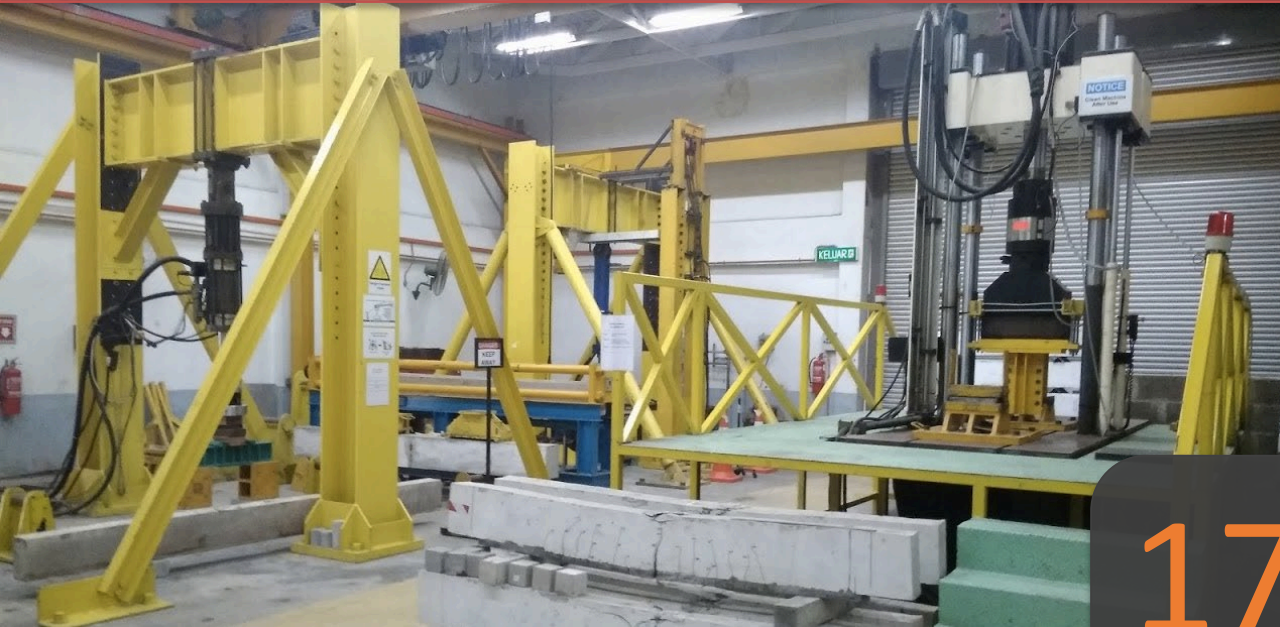
175
Laboratories

Tribology Lab

Advanced Manufacturing Lab

Heavy Structure Lab
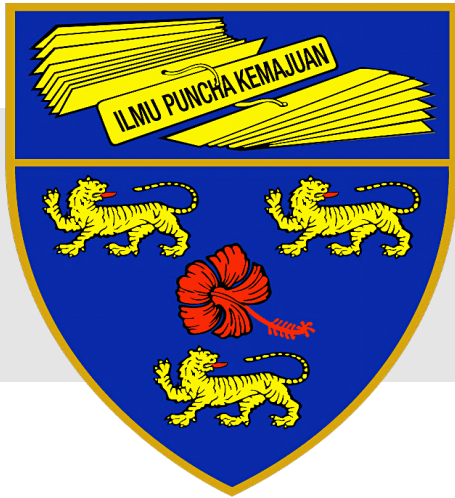
Body Performance and Motion Analysis Lab

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

BAHASA MALAYSIA MODULE
INTERNATIONAL STUDENT must fulfill the course before graduation (approach the Faculty of Languages and Linguistics for more information)

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

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

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

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

Plan schedule for examinations
Strictly follow the examination schedule

Add and Drop Modules
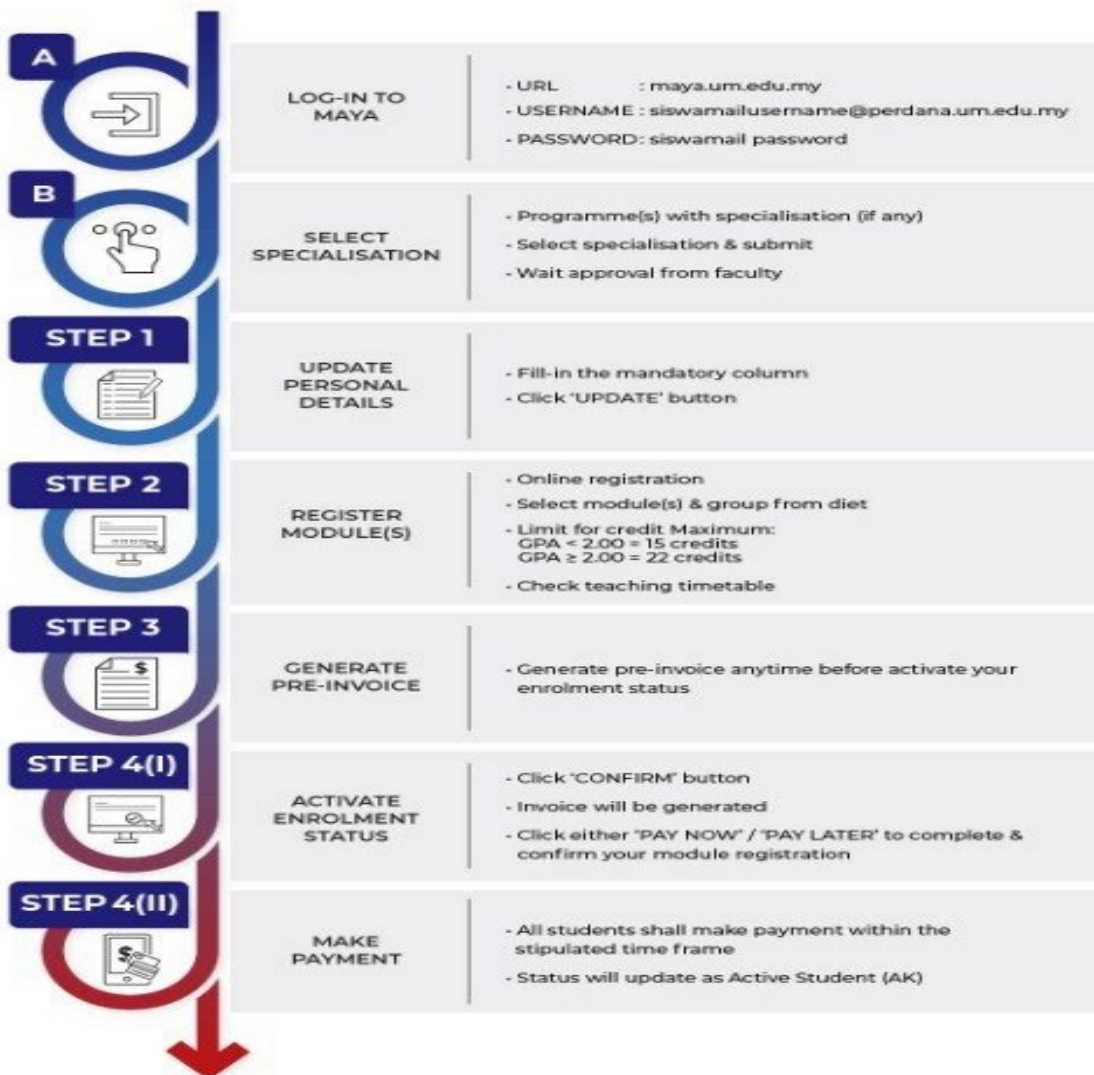*No add and drop module is allowed after confirmation of registration*

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

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.

A — LOG-IN TO MAYA	- URL : maya.um.edu.my - USERNAME : siswamailusername@perdana.um.edu.my - PASSWORD: siswamail password	
B — SELECT SPECIALISATION	- Programme(s) with specialisation (if any) - Select specialisation & submit - Wait approval from faculty	
STEP 1 — UPDATE PERSONAL DETAILS	- Fill-in the mandatory column - Click 'UPDATE' button	

STEP 2 — REGISTER MODULE(S)	- Online registration
	- Select module(s) & group from diet
	- Limit for credit Maximum:
	   GPA < 2.00 = 15 credits
	   GPA ≥ 2.00 = 22 credits
	- Check teaching timetable	

STEP 3 — GENERATE PRE-INVOICE	- Generate pre-invoice anytime before activate your enrolment status	
STEP 4(I) — ACTIVATE ENROLMENT STATUS	- Click 'CONFIRM' button - Invoice will be generated - Click either 'PAY NOW' / 'PAY LATER' to complete & confirm your module registration	
STEP 4(II) — MAKE PAYMENT	- All students shall make payment within the stipulated time frame - Status will update as Active Student (AK)	

UNIVERSITI MALAYA

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

NEW POSTGRADUATE STUDENTS

	Start Date	End Date
Acceptance of the Offer Letter (AOL)		
• International Students		25.02.2022
• Local Students		28.02.2022
Self-Enrol		
• Coursework and Mixed Mode	21.02.2022	02.03.2022
• Research Mode	21.02.2022	29.07.2022
Module Registration		
• Coursework & Mixed Mode Students	24.02.2022	07.03.2022
• Research Students		
(a) Registration for Research Methodology AND Thesis/ Dissertation only	24.02.2022	25.03.2022
(b) Registration for Thesis/ Dissertation only	24.02.2022	05.08.2022
Registration Activation		
• Coursework & Mixed Mode Students	01.03.2022	07.03.2022*
• Research Methodology AND Thesis/ Dissertation Modules	24.02.2022	25.03.2022*
• Thesis/ Dissertation Module	24.02.2022	05.08.2022*
Lecture Weeks	14.03.2022	24.06.2022
Submission of Progress Report *(For students who have registered for the Dissertation or Thesis Module in Semester 2, 2021/2022)*	23.05.2022	27.06.2022

📌 **Module Registration** on the **24th February 2022** will start at **8.30 a.m.** (Malaysia time).

📌 **Registration Activation** on the **24th February 2022** & **1st March 2022** will start at **8.30 a.m.** (Malaysia time).

📌 *Final date for registration activation (Status will remain as **NOT REGISTERED** if registration is not activated).

📌 Students are **not allowed to ADD and/or DROP** any module once registration is activated within the stipulated dates.

📌 Please note that the registration schedule is subject to change.
(Updated 14th February 2022)

THANK YOU