



# POSTGRADUATE MANAGEMENT SYSTEM @ UMT

25<sup>th</sup> July 2024



Kategori : Latihan Akademik/Penyelidikan & Inovasi/Penyelidikan Pasca Siswazah

## SISTEM PENGURUSAN SISWAZAH DI UMT



25 Julai 2024 (Khamis)  
[9:30 pagi hingga 12:30 tengah hari]

Bilik Seminar Ibnu Khaldun,  
Kompleks Pengurusan Akademik  
dan Penyelidikan

### SINOPSIS :-

Latihan ini bertujuan untuk menerangkan mengenai sistem pengurusan siswazah di Universiti Malaysia Terengganu (UMT) secara keseluruhannya. Peserta akan diperkenalkan kepada setiap seksyen pengurusan serta operasi di Pusat Pengurusan Siswazah serta program pengajian penyelidikan (Sarjana dan Doktor Falsafah yang melibatkan 18 bidang utama) dan Program Sarjana Kerja Kursus. Di samping itu, peserta juga akan diberi penerangan mengenai peraturan dan undang-undang pelajar siswazah serta prosedur operasi standard yang digunakan di UMT. Latihan ini akan meningkatkan pengetahuan peserta berkaitan pelaksanaan dan pengurusan program pengajian siswazah di UMT.



### PENCERAMAH

Prof. Madya ChM. Dr. Siti Kamilah binti Che Soh  
Timbalan Pengarah  
Pusat Pengurusan Siswazah

ANJURAN :  
Pusat Pembangunan Bakat dan Inovasi, UMT

MAKLUMAT LANJUT, SILA HUBUNGI:  
09-668 4524  
unit.latihan@umt.edu.my



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July 2024



# WELCOME TO POSTGRADUATE STUDY @ UMT

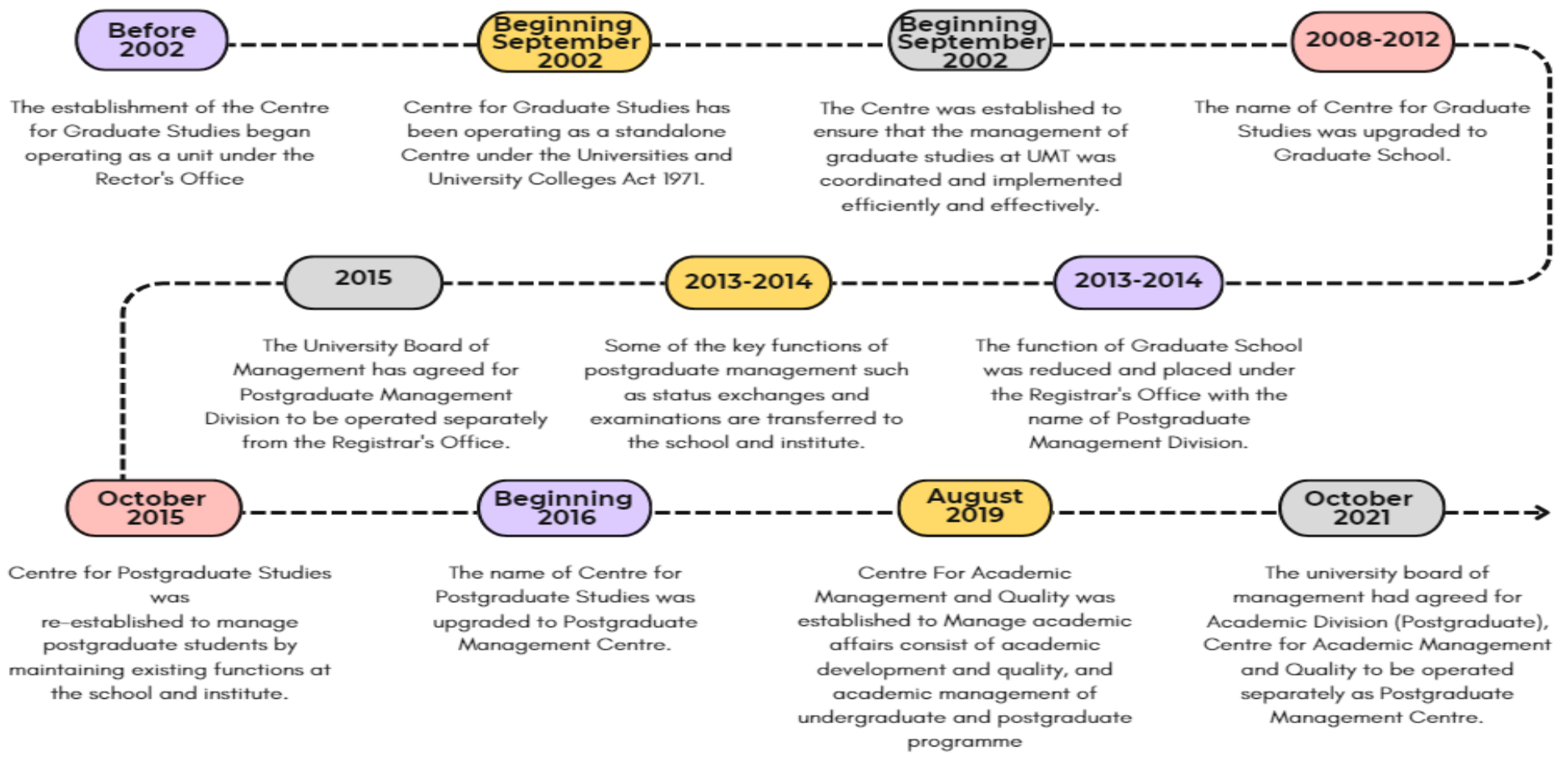


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July 2024



# HISTORY OF POSTGRADUATE MANAGEMENT CENTRE





# VISION AND MISSION OF PPS

## VISION

To make UMT as a centre for postgraduate studies of choice in producing competent, competitive and innovative postgraduate

## MISSION









Implementing systematic, effective and efficient postgraduate management to ensure quality postgraduate programmes and meeting the stakeholders' needs





# POSTGRADUATE MANAGEMENT CENTRE (PPS) CONTACT



-  [gso@umt.edu.my](mailto:gso@umt.edu.my) (general issues);
-  [gs.daftar@umt.edu.my](mailto:gs.daftar@umt.edu.my) (for registration matter only);
-  [gs.admission@umt.edu.my](mailto:gs.admission@umt.edu.my) (for admission matter only)
  
-  +609-668 4335/5057
  
-  <https://postgrad.umt.edu.my/>
  
-  [https://t.me/+wjj0NNrnN\\_NmMmQ9](https://t.me/+wjj0NNrnN_NmMmQ9)  
(PG 2021) - PG students
-  <https://t.me/+QJuBCatKILFmNDQ9>  
(PG To Be) – candidates issued with offer letter already
-  <https://t.me/+8xd1T1TYkaRjMWU1>  
(PG To Be (English)) – candidates not meeting English requirement



# PPS WEBSITE



**POSTGRADUATE MANAGEMENT CENTRE**  
Universiti Malaysia Terengganu

HOME CORPORATE INFO ▾ POSTGRADUATE ▾ FACILITIES FACULTIES CONTACT US ANNOUNCEMENT FAQ

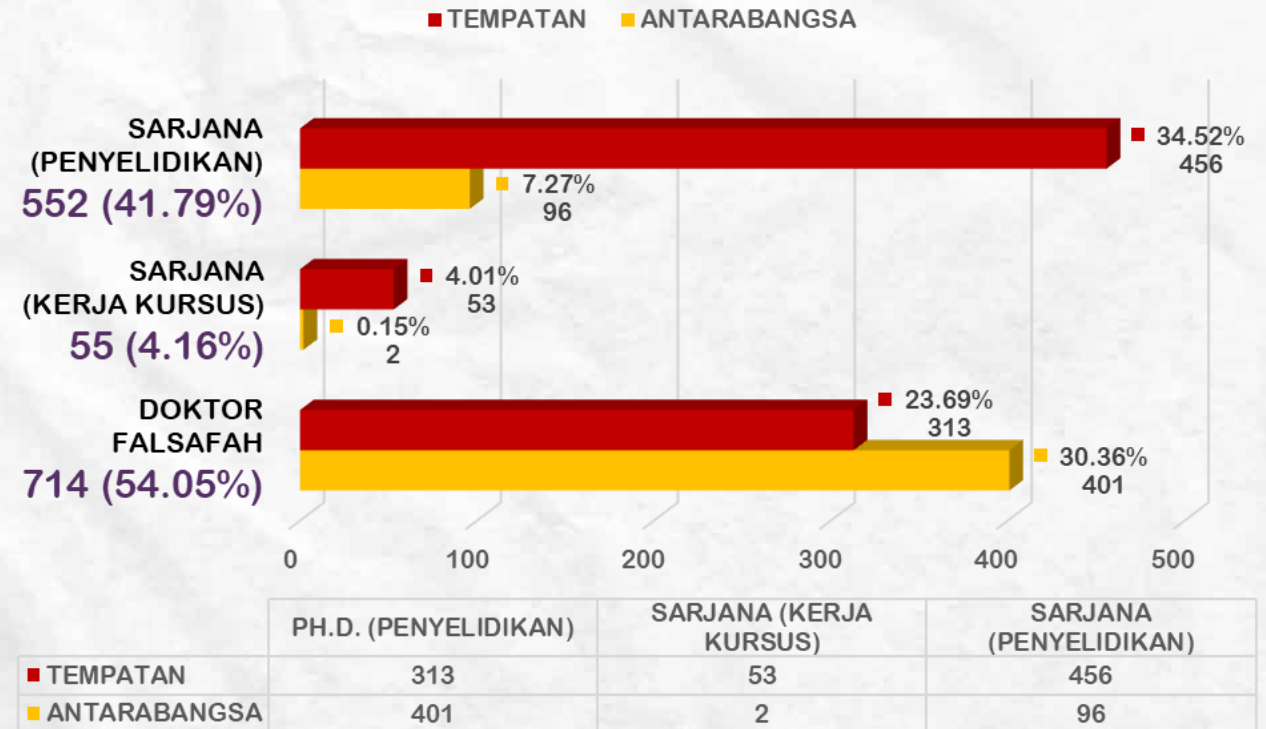
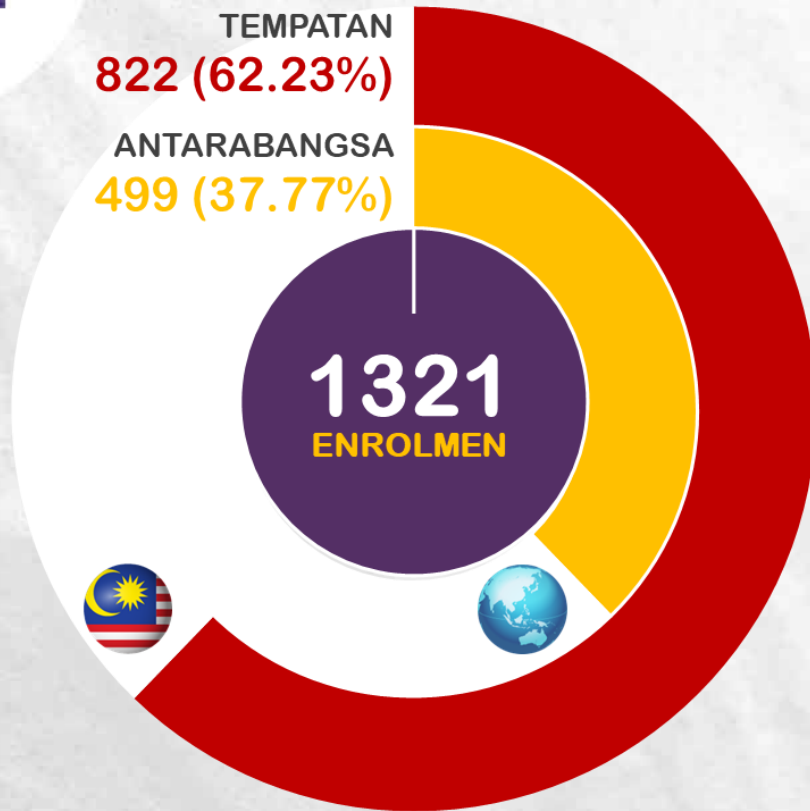
- ABOUT US
- POSTGRADUATE PROGRAMME
- SLIDE FOR WELCOMING SESSION NOVEMBER 2023
- PROMOTION SLIDE PPS
- TUITION FEE
- ADMISSION
- STUDENT REFERENCE
- FINANCIAL ASSISTANCE
- ACADEMIC CALENDAR
- REGISTRATION
- TRAINING ORGANIZED BY PPS
- POSTGRADUATE SECRETARIAT AT FACULTY/INSTITUTE/CENTER
- PROGRAMME COORDINATOR FOR MASTER TAUGHT COURSE PROGRAMS
- SOP POSTGRAD STUDY





# ENROLMENT STATISTICS (ACTIVE STUDENTS)

ALL our postgraduate programmes are accredited by Malaysian Qualification Agency (except for new taught course programmes)



	PH.D. (PENYELIDIKAN)	SARJANA (KERJA KURSUS)	SARJANA (PENYELIDIKAN)
■ TEMPATAN	313	53	456
■ ANTARABANGSA	401	2	96

As of July 13, 2024



OfficialUMT

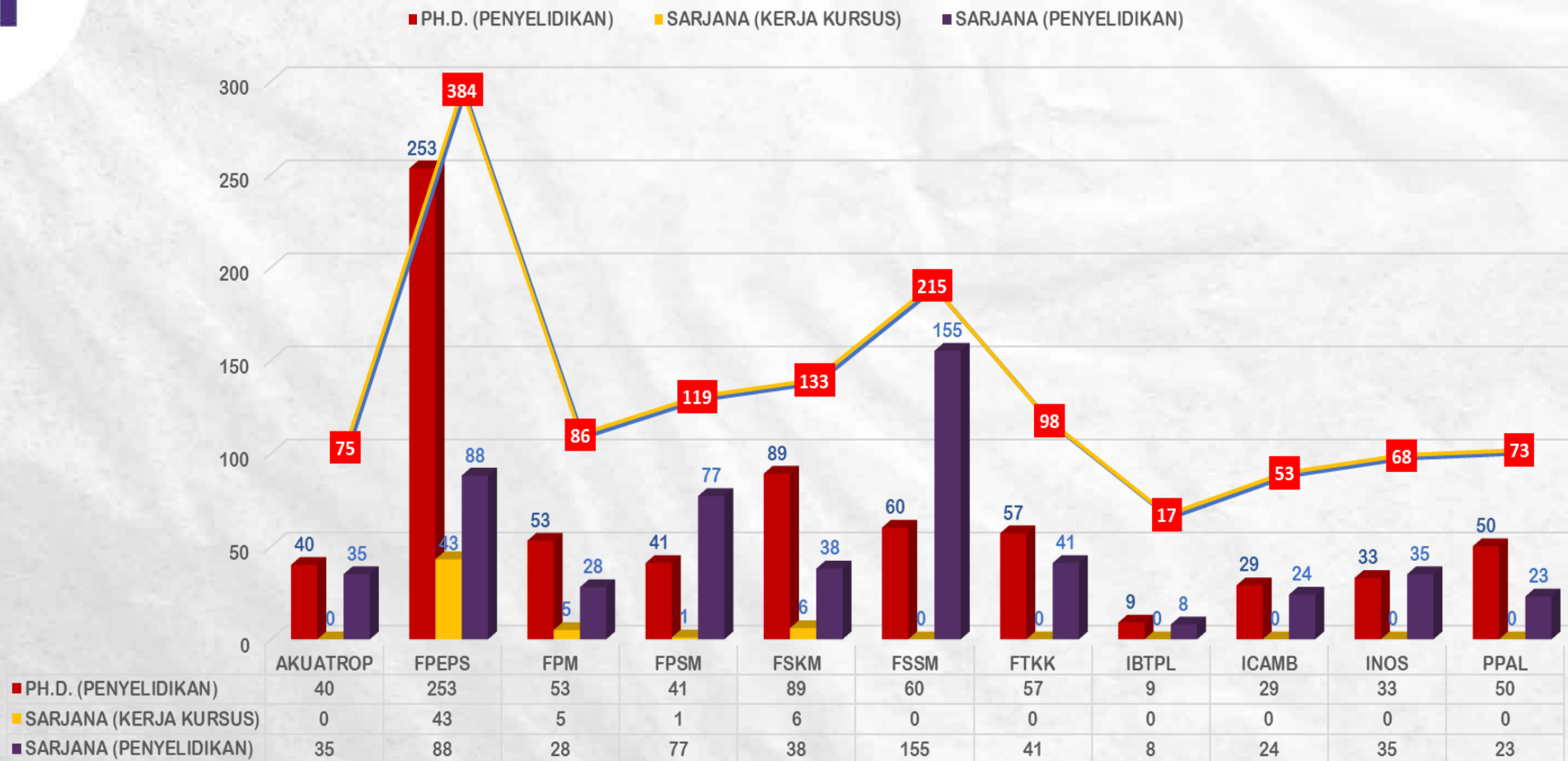


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July 2024

# ENROLMENT STATISTICS (ACTIVE STUDENTS)

## ENROLMEN - FAKULTI / INSTITUT (PROGRAM)

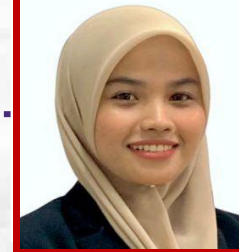




# PPS MANAGEMENT



**Prof. Ts. Dr. Amiza Mat Amin**  
Director



**Nur Affzan Afieka Binti  
Ahmad Affluh**  
Secretary



**Assoc. Prof. ChM. Dr. Siti Kamilah  
Che Soh**  
Deputy Director



**Zulkarni Ismail**  
Senior Assistant Registrar



**Fatin Athirah Azmi**  
Assistant Registrar

# PPS STAFFS

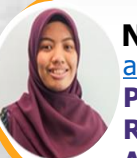
## POSTGRADUATE ACADEMIC MANAGEMENT SECTION



**Fatin Athirah Azmi (N41)**  
[fatinazmi@umt.edu.my](mailto:fatinazmi@umt.edu.my), ext : 4330



**Kamizah Ibrahim (N22)**  
[kamizah@umt.edu.my](mailto:kamizah@umt.edu.my), ext : 4335  
**POSTGRADUATE STUDIES AND  
RECORD (FTKK, FSKM, FSSM,  
INOS, IMB, IBPTL)**



**Nur Atira Fazrina Ab Halim (N19)**  
[atira.fazrina@umt.edu.my](mailto:atira.fazrina@umt.edu.my), ext : 4335  
**POSTGRADUATE STUDIES AND  
RECORD (FPEPS, FPM, FPSM,  
AKUATROP, PPAL)**

## ADMISSION AND GENERAL ADMINISTRATION SECTION



**Zulkarni Ismail (N44)**  
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**Faridah Jaafar (N26)**  
[ida@umt.edu.my](mailto:ida@umt.edu.my), ext : 4588  
**ADMISSION & GRADUATION**



**Sufizatul Ain Mamat**  
[sufizatul.ain@umt.edu.my](mailto:sufizatul.ain@umt.edu.my), ext : 4588  
**DATA AND SYSTEM MANAGEMENT**

## STUDENT AFFAIRS SECTION



**Aizan Ibrahim (N32)**  
[aizan@umt.edu.my](mailto:aizan@umt.edu.my), ext : 4393  
**STUDENT AFFAIRS (REFUND CLAIM  
FOR CONFERENCE REGISTRATION  
FEE, POSTGRADUATE ROOM,  
STUDENT DEVELOPMENT  
ACTIVITIES)**



**Suraya Mohamad (N19)**  
[suraya@umt.edu.my](mailto:suraya@umt.edu.my), ext : 5057  
**STORE MANAGEMENT, PURCHASE  
ORDER, STUDENT AFFAIRS**



**Rosli Alias (N11)**  
[roslia@umt.edu.my](mailto:roslia@umt.edu.my), ext : 5057  
**COUNTER AND GENERAL SERVICES**



# INTERCONNECTION OF POSTGRADUATE STUDY PROCEDURES BETWEEN STUDENT, PTj (Faculty/Institute/Centre/International Centre) AND PPS

**PROGRAMME COORDINATOR FOR  
COURSEWORK AND POSTGRADUATE  
SECRETARIAT (MASTER & PhD)**

**SOP SUMMARY FOR  
POSTGRADUATE STUDY**



**PROGRAMME COORDINATOR  
FOR MASTER TAUGHT COURSE  
PROGRAMS**

**PROGRESS FOLDER (RESEARCH  
PROGRAMME)**



Please check which  
step are you referring  
to the Summary of  
SOP for Postgraduate  
Study-  
To ensure that you  
ask the right person



# ADMINISTRATION & ACADEMIC OPERATIONS THAT NEED APPROVAL FROM POSTGRADUATE STUDIES COMMITTEE (JKPS) OF FACULTY/INSTITUTE/CENTRE

## Admission

- New admission application

Chairman: Dean/Director

## Changes in

- Supervision
- Study Programme
- Field of study
- Faculty/ Institute/ Centre
- Deferment of study
- Withdrawal
- Appeal
- Conversion
- Mode of study

## Examination management

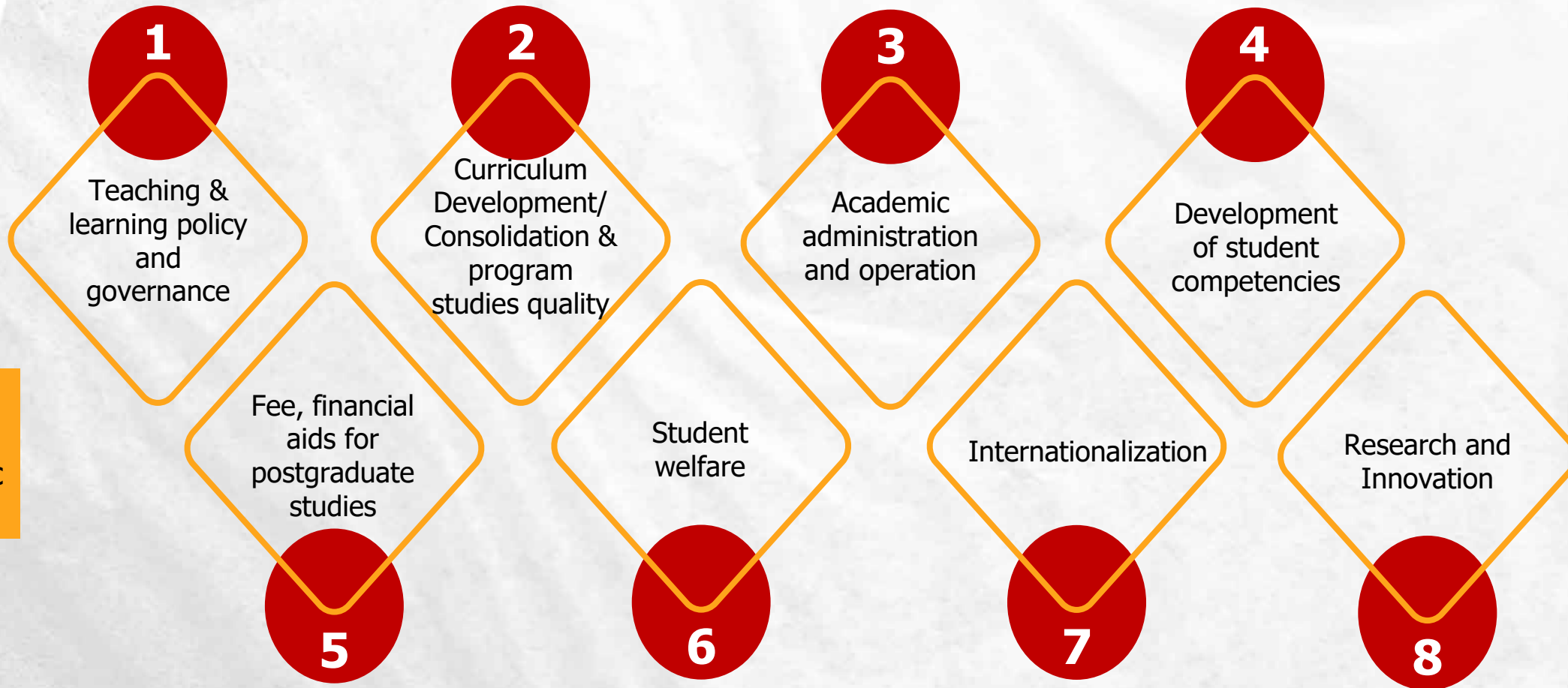
- Examination results (Taught Course)
- Progress Evaluation Result (Research)
- Viva voce result
- Graduation (Taught Course and Research)
- Grade review appeal
- Examination resit

## Miscellaneous

- Extension of duration of study
- Candidature Assessment (CA)
- Exemption of Research Methodology course



# MEETING AGENDA IN POSTGRADUATE STUDIES COMMITTEE (JKPS) AT UMT LEVEL



Chairman:  
Deputy Vice  
Chancellor (Academic  
& International)



# ACADEMIC ADMINISTRATION & OPERATION THAT NEED RECOMMENDATION & APPROVAL FROM UMT JKPS

1

AWARD OF GRADUATION FOR POSTGRADUATE STUDIES (BY RESEARCH)

UMT JKPS: Recommendation  
UMT SENATE: Approval

2

CONVERSION OF MASTER TO PhD PROGRAMME

UMT JKPS: Recommendation  
UMT SENATE: Approval

3

APPEAL TO TERMINATION DUE TO:

- 1) Exceeding the duration of study
- 2) Failure and terminated (GB)

UMT JKPS: Approval  
UMT SENATE: Notification



# LATEST RULES/ REGULATIONS/ SOP/FEES

UMT  
Universiti Malaysia Terengganu

**UMT POSTGRADUATE STUDIES  
RULES & REGULATIONS  
(RESEARCH)**

POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU

UMT  
Universiti Malaysia Terengganu

**UMT POSTGRADUATE STUDIES  
RULES & REGULATIONS  
(COURSEWORK)**

POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU

UMT  
Universiti Malaysia Terengganu

**PERATURAN YURAN PENGAJIAN  
PASCA SISWAZAH UMT**  
*UMT POSTGRADUATE FEE RULES AND  
REGULATIONS*

POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU

**PROSEDUR PENGAJIAN SISWAZAH  
UNIVERSITI MALAYSIA TERENGGANU**

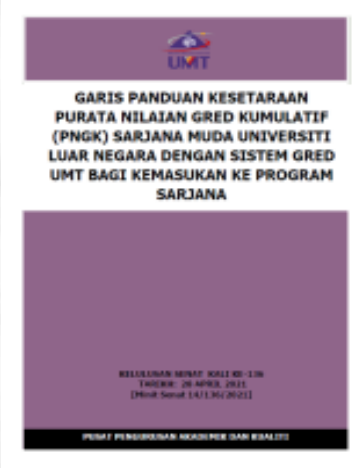
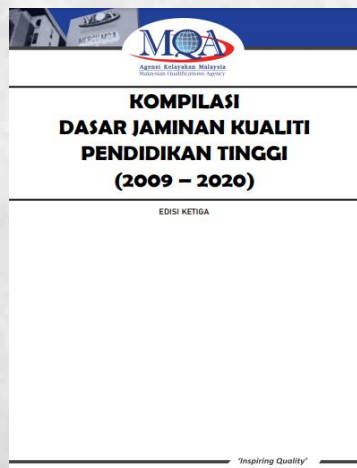
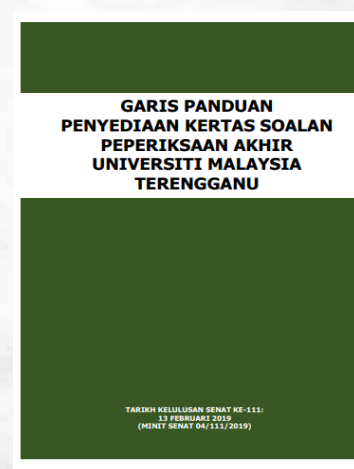
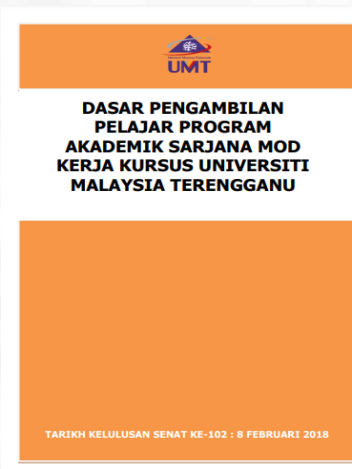
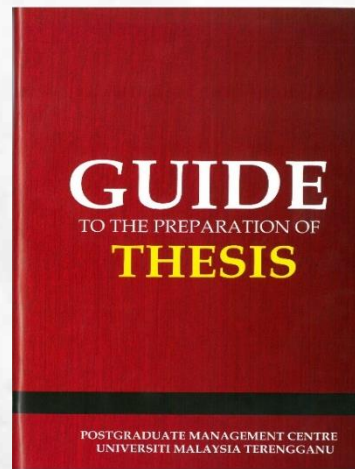
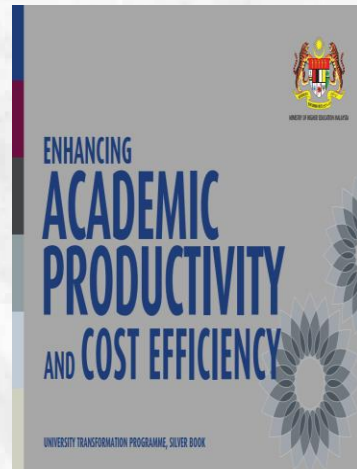
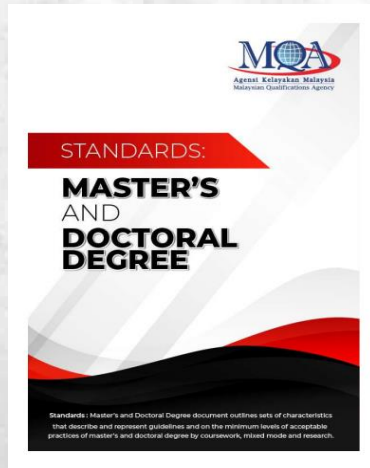
Disediakan oleh: Pusat Pengurusan Siswazah  
Tarikh Kkuatkuasa: 13 Mac 2022



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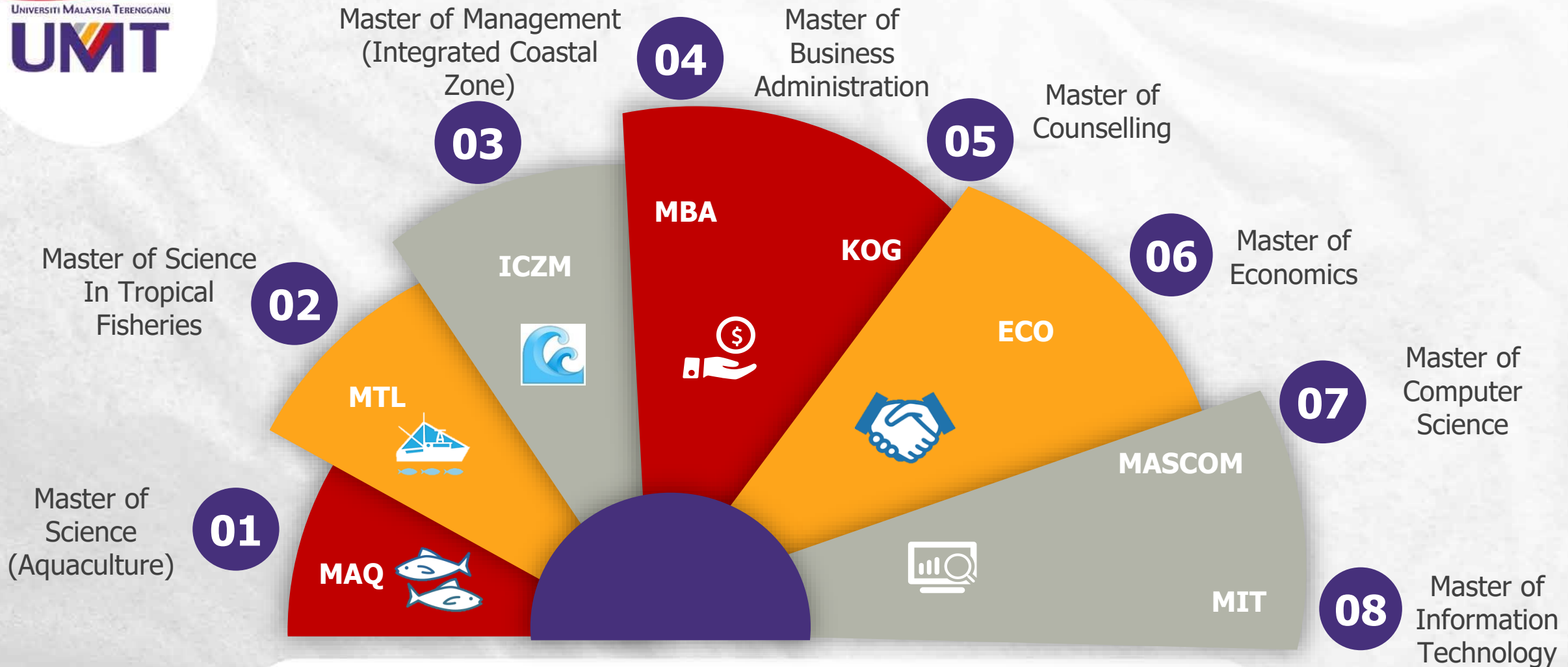
# REFERENCES USED







# MASTER BY COURSEWORK





# MASTER BY COURSEWORK

09

**MMATH**



Master of Mathematics

10

**MSMS**



Master of Statistics in Marine Science

11

**MSEF**

Master of Science (Environmental Forensics)

**MSTME**

Master of Science In Tropical Marine Environment

13

**MSTB**

Master of Science in Tropical Biodiversity

14

**MMM**

Master of Science (Maritime Studies)

15

**MMM**

Postgraduate Diploma in Maritime Studies

16

**MMM**

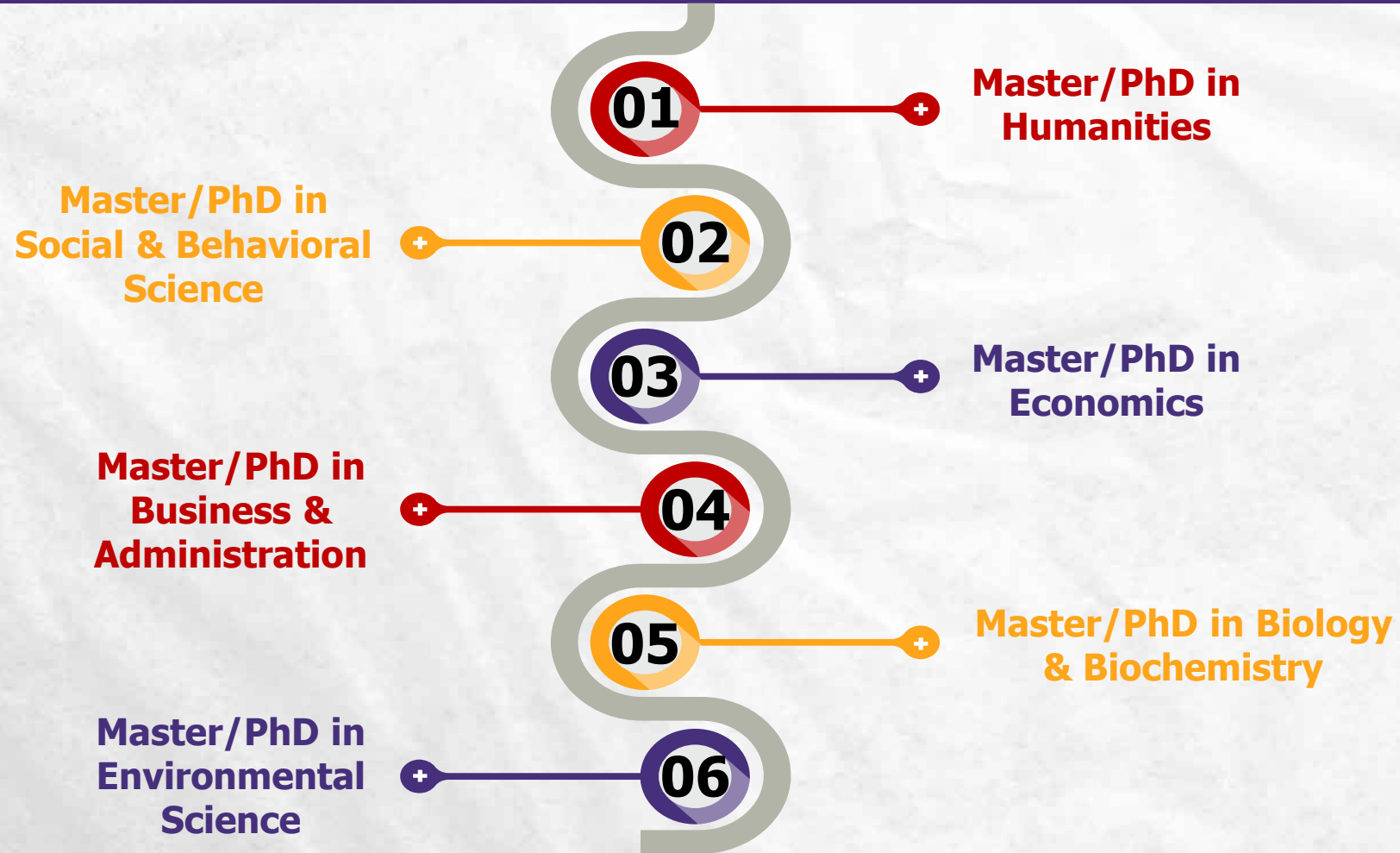
Postgraduate Certificate in Maritime Studies



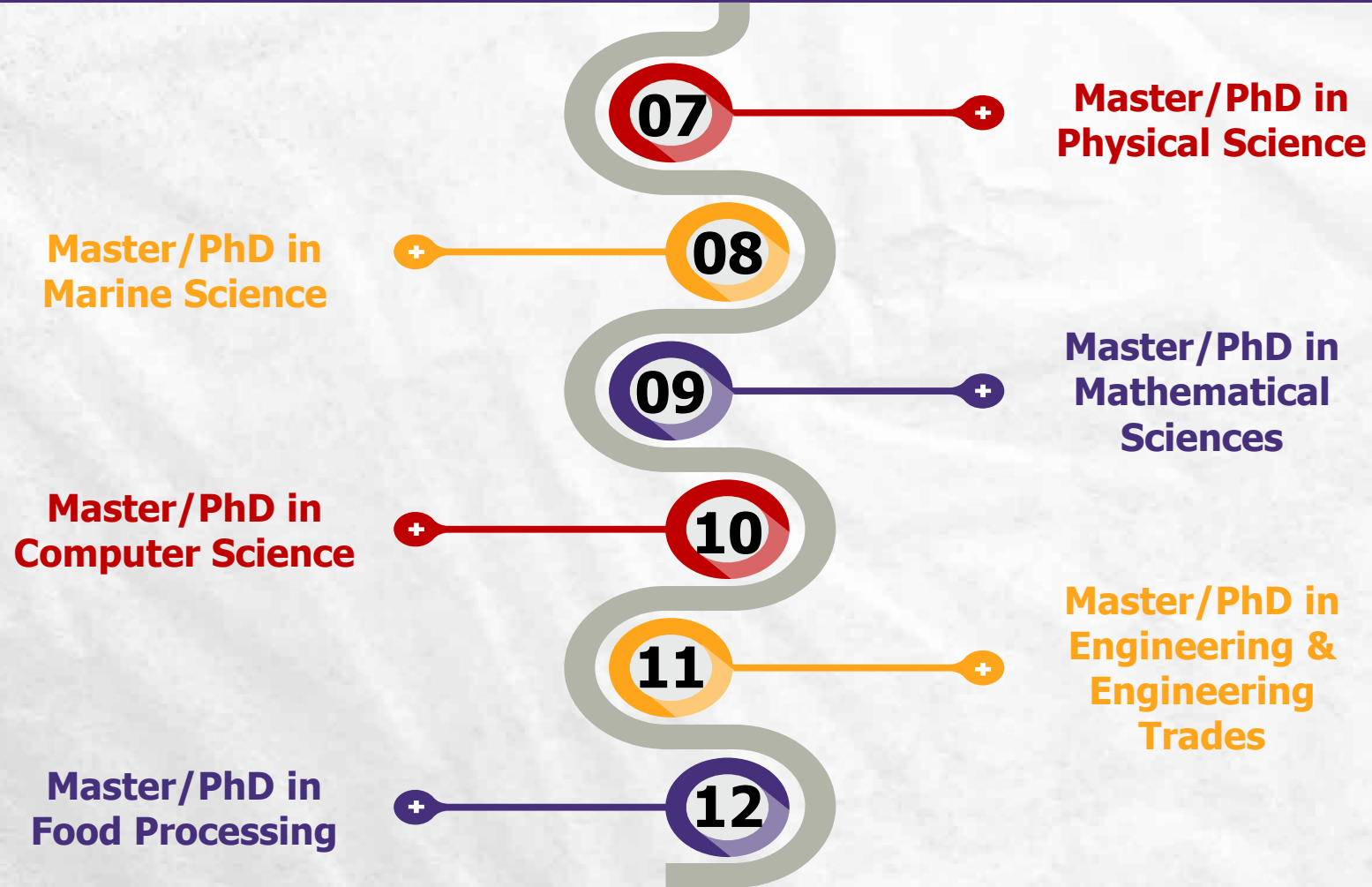
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July 2024

# PROGRAMMES BY RESEARCH



# PROGRAMMES BY RESEARCH



# PROGRAMMES BY RESEARCH

**Master/PhD in  
Crop & Livestock  
Production**

13

**Master/PhD in  
Environmental  
Protection  
Technology**

14

15

**Master/PhD in  
Fisheries**

**Master/PhD in  
Social Work &  
Counselling**

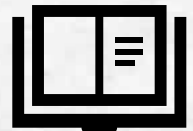
16

17

**Master/PhD in  
Maritime Studies**

**Master/PhD in  
Accounting &  
Taxation**

18





# TUITION FEE RESEARCH – REFER [PPS WEBSITE](#)



## TUITION FEES RESEARCH PROGRAMME



\*Note: Applicable For Semester II 2019/2020 Session Intake Onwards

LOCAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 3,460.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,130.00 / Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,260.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 930.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,460.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,130.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 1,760.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 930.00 / Semester</li> </ul>
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INTERNATIONAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 4,380.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 2,130.00 / Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 3,180.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,930.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 3,380.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 2,130.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,680.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,930.00 / Semester</li> </ul>
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## TUITION FEES RESEARCH PROGRAMME



\*Note: Applicable For Students 2022/2023 Session Intake. CURRENCY EXCHANGE: 1USD = RM4.5 (Fixed Rate)

LOCAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 3,460.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,130.00 / Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,260.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 930.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,460.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,130.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 1,760.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 930.00 / Semester</li> </ul>
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INTERNATIONAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 980.00 / MYR 4,410.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 480.00 / MYR 2,160.00 Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 710.00 / MYR 3,195.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 430.00 / MYR 1,935.00 Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 760.00 / MYR 3,420.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 480.00 / MYR 2,160.00 Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 600.00 / MYR 2,700.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 430.00 / MYR 1,935.00 Semester</li> </ul>
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## TUITION FEES RESEARCH PROGRAMME



\*Note: Applicable For Students Semester I 2023/2024 Session Intake Onwards. CURRENCY EXCHANGE: 1USD = RM4.5 (Fixed Rate)

LOCAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 4,260.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,930.00 / Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,760.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,430.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 3,260.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,930.00 / Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester MYR 2,260.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters MYR 1,430.00 / Semester</li> </ul>
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INTERNATIONAL

<b>Ph.D</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 1,200.00 / MYR 5,400.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 700.00 / MYR 3,150.00 Semester</li> </ul>	<b>Ph.D</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 870.00 / MYR 3,915.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 590.00 / MYR 2,655.00 Semester</li> </ul>	<b>M.Sc</b> <b>SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 980.00 / MYR 4,410.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 700.00 / MYR 3,150.00 Semester</li> </ul>	<b>M.Sc</b> <b>SOCIAL SCIENCE</b> <ul style="list-style-type: none"> <li>1<sup>st</sup> Semester USD 760.00 / MYR 3,420.00</li> <li>2<sup>nd</sup> &amp; Subsequent Semesters USD 590.00 / MYR 2,655.00 Semester</li> </ul>
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## TUITION FEES

COURSEWORK PROGRAMME FOR LOCAL STUDENTS

POSTGRADUATE  
MANAGEMENT  
CENTRE



### Master of Science (Aquaculture) - MAQ

1st semester (MYR 5,760.00)	2nd semester (MYR 5,430.00)
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**\*\*after 15% discount**

1st semester (MYR 5,010.00)	2nd semester (MYR 4,680.00)
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### Master of Business Administration - MBA

1st semester (MYR 4,960.00)	2nd semester (MYR 4,910.00)
3rd semester (MYR 4,070.00)	

**\*\*after 15% discount**

1st semester (MYR 4,330.00)	2nd semester (MYR 4,238.00)
3rd semester (MYR 3,524.00)	

### Master of Science (Environmental Forensics) - MSEF

1st semester (MYR 6,760.00)	2nd semester (MYR 6,430.00)
--------------------------------	--------------------------------

**\*\*after 15% discount**

1st semester (MYR 5,860.00)	2nd semester (MYR 5,530.00)
--------------------------------	--------------------------------

### Master of Science In Tropical Fisheries - MTL

1st semester (MYR 3,760.00)	2nd semester (MYR 4,180.00)
3rd semester (MYR 3,680.00)	

**\*\*after 15% discount**

1st semester (MYR 3,310.00)	2nd semester (MYR 3,617.50)
3rd semester (MYR 3,192.50)	

### Master of Science In Tropical Marine Environment

1st semester (MYR 9,260.00)	2nd semester (MYR 8,930.00)
--------------------------------	--------------------------------

**\*\*after 30% discount**

1st semester (MYR 6,710.00)	2nd semester (MYR 6,380.00)
--------------------------------	--------------------------------

### Master of Management (Integrated Coastal Zone) - ICZM

1st semester (MYR 4,735.00)	2nd semester (MYR 4,405.00)
3rd semester (MYR 3,680.00)	

**\*\*after 15% discount**

1st semester (MYR 4,138.75)	2nd semester (MYR 3,808.75)
3rd semester (MYR 2,682.50)	

### Master of Science In Tropical Biodiversity

1st semester (MYR 9,260.00)	2nd semester (MYR 8,930.00)
--------------------------------	--------------------------------

**\*\*after 30% discount**

1st semester (MYR 6,710.00)	2nd semester (MYR 6,380.00)
--------------------------------	--------------------------------

### Master of Counselling - KOG

1st semester (MYR 4,360.00)	2nd semester (MYR 4,030.00)
3rd semester (MYR 4,030.00)	4th semester (MYR 4,030.00)

**\*\*after 15% discount**

1st semester (MYR 3,706.00)	2nd semester (MYR 4,030.00)
3rd semester (MYR 4,030.00)	4th semester (MYR 4,030.00)

UNIVERSITI MALAYSIA TERENGGANU



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## TUITION FEES

COURSEWORK PROGRAMME FOR LOCAL STUDENTS

POSTGRADUATE  
MANAGEMENT  
CENTRE



### Master of Computer Science - MASCOM

1st semester (MYR 4,510.00)	2nd semester (MYR 2,080.00)
3rd semester (MYR 3,430.00)	

**\*\*after 15% discount**

1st semester (MYR 3,947.50)	2nd semester (MYR 1,817.50)
3rd semester (MYR 3,130.00)	

### Master of Information Technology

1st semester (MYR 4,510.00)	2nd semester (MYR 2,080.00)
3rd semester (MYR 3,430.00)	

**\*\*after 15% discount**

1st semester (MYR 3,947.50)	2nd semester (MYR 1,817.50)
3rd semester (MYR 3,130.00)	

### Master of Mathematics - MMATH

1st semester (MYR 5,510.00)	2nd semester (MYR 2,080.00)
3rd semester (MYR 3,430.00)	

**\*\*after 15% discount**

1st semester (MYR 4,797.50)	2nd semester (MYR 1,817.50)
3rd semester (MYR 3,130.00)	

### Master of Statistics In Marine Science - MSMS

1st semester (MYR 5,510.00)	2nd semester (MYR 2,080.00)
3rd semester (MYR 3,430.00)	

**\*\*after 15% discount**

1st semester (MYR 4,797.50)	2nd semester (MYR 1,817.50)
3rd semester (MYR 3,130.00)	

### Master of Economics - ECO

1st semester (MYR 4,885.00)	2nd semester (MYR 4,005.00)
3rd semester (MYR 3,730.00)	

**\*\*after 15% discount**

1st semester (MYR 4,266.25)	2nd semester (MYR 3,468.75)
3rd semester (MYR 3,235.00)	

### Master of Science In Maritime Studies

1st semester (MYR 8,760.00)	2nd semester (MYR 4,330.00)
3rd semester (MYR 5,340.00)	

### Postgraduate Diploma In Maritime Studies

1st semester (MYR 8,760.00)	2nd semester (MYR 4,330.00)
--------------------------------	--------------------------------

### Postgraduate Certificate In Maritime Studies

1st semester (MYR 8,760.00)
--------------------------------

## TUITION FEES

COURSEWORK PROGRAMME FOR **INTERNATIONAL** STUDENTS



### Master of Science (Aquaculture) - MAQ

1st semester (USD 2,230.00)	2nd semester (USD 2,160.00)
--------------------------------	--------------------------------

### Master of Science (Environmental Forensics) - MSEF

1st semester (USD 2,430.00)	2nd semester (USD 2,360.00)
--------------------------------	--------------------------------

### Master of Science In Tropical Marine Environment

1st semester (USD 3,470.00)	2nd semester (USD 3,400.00)
--------------------------------	--------------------------------

### Master of Science In Tropical Biodiversity

1st semester (USD 3,470.00)	2nd semester (USD 3,400.00)
--------------------------------	--------------------------------

### Master of Business Administration - MBA

1st semester (USD 1,930.00)	2nd semester (USD 1,960.00)
3rd semester (USD 1,660.00)	

### Master of Science In Tropical Fisheries - MTL

1st semester (USD 1,150.00)	2nd semester (USD 1,260.00)
3rd semester (USD 1,140.00)	

### Master of Management (Integrated Coastal Zone) - ICZM

1st semester (USD 1,780.00)	2nd semester (USD 1,710.00)
3rd semester (USD 1,260.00)	

### Master of Counselling - KOG

1st semester (USD 1,510.00)	2nd semester (USD 1,440.00)
3rd semester (USD 1,440.00)	4th semester (USD 1,440.00)

## TUITION FEES

COURSEWORK PROGRAMME FOR **INTERNATIONAL** STUDENTS



### Master of Computer Science - MASCOM

1st semester (USD 1,780.00)	2nd semester (USD 970.00)
3rd semester (USD 1,420.00)	

### Master of Information Technology

1st semester (USD 1,780.00)	2nd semester (USD 970.00)
3rd semester (USD 1,420.00)	

### Master of Mathematics - MMATH

1st semester (USD 2,140.00)	2nd semester (USD 970.00)
3rd semester (USD 1,420.00)	

### Master of Statistics In Marine Science - MSMS

1st semester (USD 2,140.00)	2nd semester (USD 970.00)
3rd semester (USD 1,420.00)	

### Master of Economics - ECO

1st semester (USD 1,780.00)	2nd semester (USD 1,530.00)
3rd semester (USD 1,440.00)	

### Master of Science In Maritime Studies

1st semester (USD 2,600.00)	2nd semester (USD 1,410.00)
3rd semester (USD 1,660.00)	

### Postgraduate Diploma In Maritime Studies

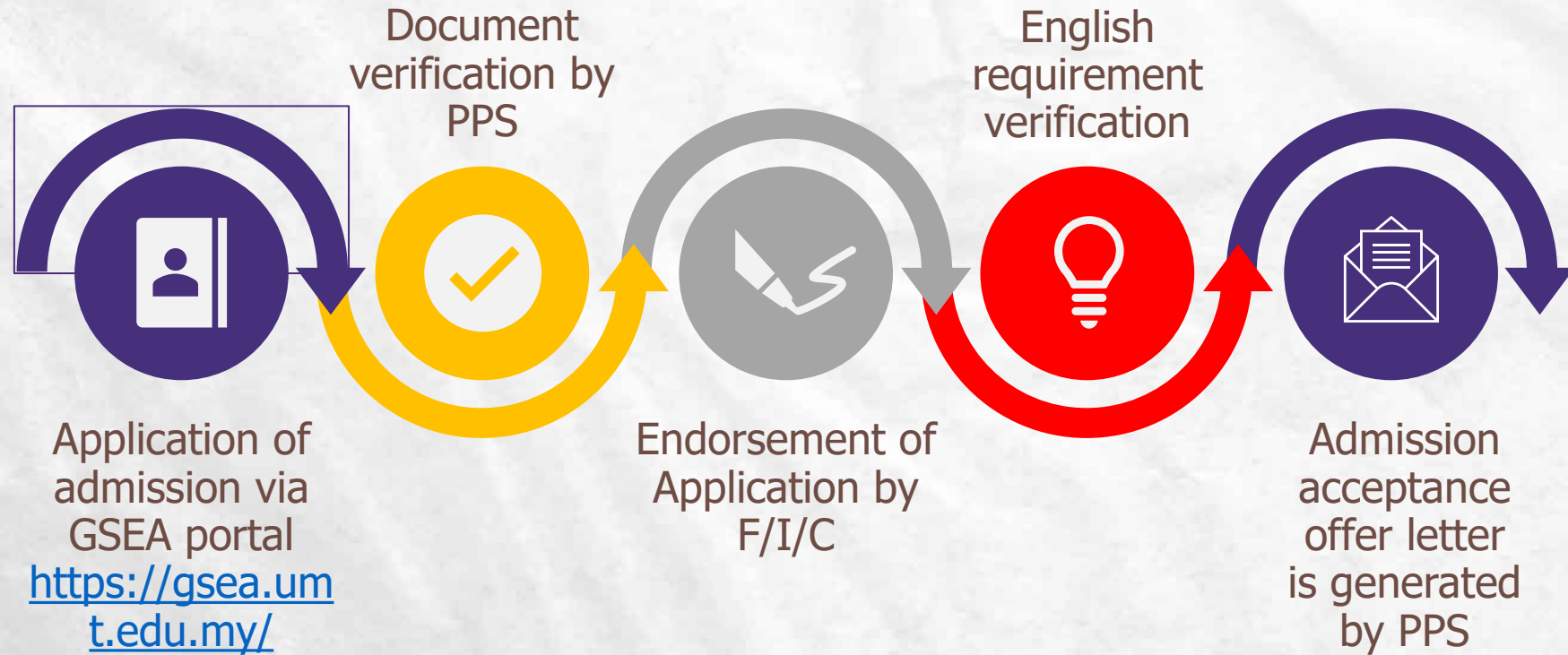
1st semester (USD 2,600.00)	2nd semester (USD 1,410.00)
--------------------------------	--------------------------------

### Postgraduate Certificate In Maritime Studies

1st semester (USD 2,600.00)
--------------------------------



# POSTGRADUATE ADMISSION



# CHECKLIST FOR GRADUATION REQUIREMENTS

**PAY TUITION FEE/ REGISTER EVERY SEMESTER AND GRADUATE WITHIN THE PERMITTED PERIOD**

**01**

Programme	Full Time		Part Time		Graduate on Time
	Number of Minimum semester	Number of Maximum semester	Number of Minimum semester	Number of Maximum semester	
PhD	4	10	6	14	3.5 years
Master	2	6	4	10	2 years

**New student:** have to register face to face

**Current students:** who failed to register will have his/her name dropped (GUGUR NAMA (GN)). Student may appeal within 1 year to continue study

**Application to extend duration of study:**

- Made to the faculty
- Made 3 months before the last semester ends.
- Not allowed to change the study to part time after maximum duration of study is reached

**Approval:**

JKPS of faculty/institute/centre (1 semester/application; maximum 2 applications)





# IMPORTANT DATES OF STUDENT ADMISSION FOR EACH SEMESTER, ACADEMIC SESSION

## WEEK 04

Last Week Registration for **Coursework** Students

## WEEK 10

Last Week for Late Registration (with penalty) for Current **Research** Students

**ACADEMIC CALENDAR**  
(RESEARCH PROGRAMME SESSION 2023/2024)  
POSTGRADUATE STUDIES  
UNIVERSITI MALAYSIA TERENGGANU

**RESEARCH PROGRAMME**

ACTIVITIES	DATE	DURATION	NOTES
<b>SEMESTER 1, 2023/2024 SESSION</b>			
Registration	October 1, 2023	November 4, 2023	5 Weeks
Deferment of Study	October 1, 2023	November 4, 2023	5 Weeks
Research Activities	October 8, 2023	January 20, 2024	15 Weeks
Assessment of Research Progress Report	January 21, 2024	February 10, 2024	3 Weeks
<b>SEMESTER 2, 2023/2024 SESSION</b>			
Registration	March 10, 2024	April 20, 2024	5 Weeks
Deferment of Study	March 10, 2024	April 20, 2024	5 Weeks
Research Activities	March 17, 2024	June 29, 2024	15 Weeks
Assessment of Research Progress Report	June 30, 2024	July 20, 2024	3 Weeks

**ACADEMIC CALENDAR**  
(RESEARCH PROGRAMME SESSION 2023/2024)  
POSTGRADUATE STUDIES  
UNIVERSITI MALAYSIA TERENGGANU

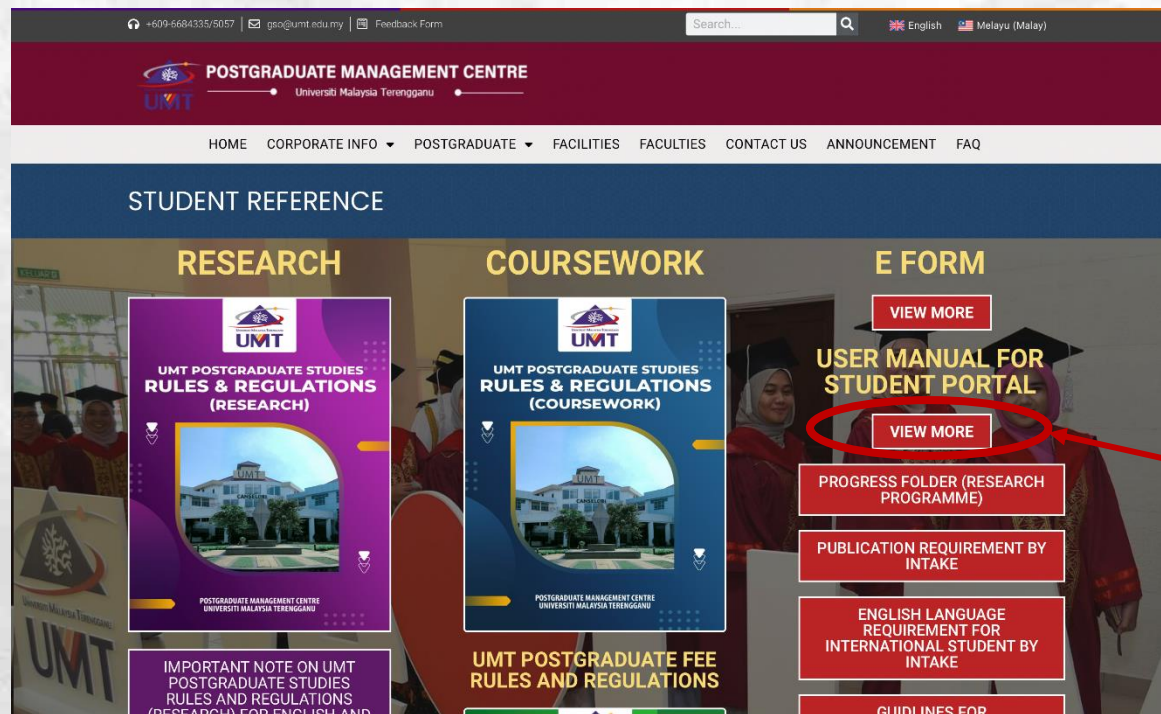
**COURSEWORK PROGRAMME**

ACTIVITIES	DATE	DURATION	NOTES
<b>SEMESTER 1, 2023/2024 SESSION</b>			
Registration	October 1, 2023	November 4, 2023	5 Weeks
Deferment of Study	October 1, 2023	November 4, 2023	5 Weeks
Lectures	October 6, 2023	November 25, 2023	7 Weeks
Mid-Term Break	November 26, 2023	December 2, 2023	1 Week
Lectures	December 3, 2023	January 20, 2024	7 Weeks
Study Week	January 21, 2024	January 27, 2024	1 Week
Examination	January 28, 2024	February 10, 2024	2 Weeks
Semester Break	February 11, 2024	March 9, 2024	4 Weeks
<b>SEMESTER 2, 2023/2024 SESSION</b>			
Registration	March 10, 2024	April 20, 2024	5 Weeks
Deferment of Study	March 10, 2024	April 20, 2024	5 Weeks
Lectures	March 17, 2024	April 6, 2024	3 Weeks
Mid-Term Break	April 7, 2024	April 13, 2024	1 Week
Lectures	April 14, 2024	June 28, 2024	11 Weeks
Study Week	June 30, 2024	July 6, 2024	1 Week
Examination	July 7, 2024	July 20, 2024	2 Weeks
<b>SHORT SEMESTER, 2023/2024 SESSION</b>			
Registration	July 21, 2024	July 27, 2024	1 Week
Lectures	July 28, 2024	September 21, 2024	8 Weeks
Examination	September 22, 2024	September 28, 2024	1 Week



# REGISTRATION FOR CURRENT STUDENT

- **ONLINE (UNTIL WEEK 4)**
- **MANUAL (AFTER WEEK 4) WITH LATE REGISTRATION FINE OF RM100 (PAY THE TUITION FEE AND EMAIL PROOF OF PAYMENT TO [gs.daftar@umt.edu.my](mailto:gs.daftar@umt.edu.my))**



The screenshot shows the website interface for the Postgraduate Management Centre at UMT. The 'STUDENT REFERENCE' section is highlighted, featuring three main categories: RESEARCH, COURSEWORK, and E FORM. Under RESEARCH, there is a link for 'UMT POSTGRADUATE STUDIES RULES & REGULATIONS (RESEARCH)'. Under COURSEWORK, there is a link for 'UMT POSTGRADUATE STUDIES RULES & REGULATIONS (COURSEWORK)'. Under E FORM, there is a link for 'USER MANUAL FOR STUDENT PORTAL' which is circled in red. Other links include 'VIEW MORE', 'PROGRESS FOLDER (RESEARCH PROGRAMME)', 'PUBLICATION REQUIREMENT BY INTAKE', 'ENGLISH LANGUAGE REQUIREMENT FOR INTERNATIONAL STUDENT BY INTAKE', and 'GUIDELINES FOR'.

- ✓ **The instruction for online registration is available at PPS website**
- ✓ **Check the instruction from PPS whether you should register online or manual (may vary based on student intake)**



# WHY YOU CANNOT LOGIN MyNemo STUDENT ACCOUNT?

## 1. You do not remember your password

- Please contact Mr. Talib (ICT section) at [talib@umt.edu.my](mailto:talib@umt.edu.my)
- Next, please follow the [User Manual for postgraduate student](#)

## 2. Your student status is not active or defer

(Your status in the last semester is either Drop Name (Gugur Nama, GN), or Fail and Terminated (Gagal Berhenti, GB))

- For GB status, you have to apply for new admission
- For GN, you have to appeal to PPS by emailing to [gso@umt.edu.my](mailto:gso@umt.edu.my) (within 1 year of the date of GN letter). GN is allowed **once only** during your study. Your appeal will be approved by the faculty and PPS will email the approval letter. Then only you can register.
- You have to email to [gs.daftar@umt.edu.my](mailto:gs.daftar@umt.edu.my) informing us that you want to register for the new semester. For international student, please attach the clearance form as well.
- PPS will change your status to active.



# CHECKLIST FOR GRADUATION REQUIREMENTS

**OBTAINED "SATISFACTORY" / MEMUASKAN GRADE (M) FOR PROGRESS REPORT EVERY SEMESTER**

**02**

Student progress is evaluated at the end of each semester

Minimum meetings with supervisor is **twice per semester**.  
Fill in the **Postgraduate Research Student Meeting Record** form as record

Students with 2 consecutive **"NOT SATISFACTORY" / TIDAK MEMUASKAN** grade will have failed and terminated **(GB)** status

It is recommended that the students prepare progress report to assist the progress evaluation by the main supervisor

# SEMESTER ACADEMIC STANDING

**A REGISTERED STUDENT WILL BE GIVEN THE SEMESTER ACADEMIC STANDINGS BASED ON THE FOLLOWING STATUS**



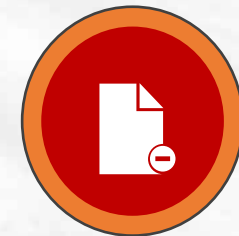
**Good Standing (KB)  
(Kedudukan Baik)**

Achieves an 'M' grade for current semester



**Probation (KS) (Kelulusan Bersyarat)**

Achieves a 'TM' grade for current semester.



**Termination of Candidature (GB)  
(Gagal dan Diberhentikan)**

Receives a 'TM' grade for two semesters or failed to complete his/her study within the maximum duration and subject to clause 7.4



**Completed (TP) (Tamat Pengajian)**

Completed when he/she has fulfilled all requirements as specified by the programme (UMT Postgraduate Committee's approval)



**Graduated (GD) (Bergraduat)**

Senate's approval



# CHECKLIST FOR GRADUATION REQUIREMENTS

## PASSED RESEARCH METHODOLOGY COURSE (1<sup>st</sup> year)

03

### 1 credit hour: offered every semester

- 1. **PPS5011** Research Methodology in Technology and Engineering
- 2. **PPS5021** Research Methodology in Social Science
- 3. **PPS5031** Research Methodology in Applied Science
- **INOS student** is encouraged to take audit course **OCN 5003** Tropical Oceanography starting Semester 2 Academic Session 2020/21

### Exemption

- Approval from Postgraduate Studies Committee (JKPS) of faculty/institute/centre
- Students has taken relevant equivalent course during **master's degree**

### Registration

- Online Registration (until Week 4)
- Lecture: Week 6 to Week 14 (**9 weeks**)

### Assessment

- Lecture Attendance 70%
- Proposal Writing 20%
- Oral Presentation 10%
- **Passing mark = 55%**
- **Students will obtain AU grade in the results if the students passed the course**

# CHECK YOUR RESULT (RESEARCH METHODOLOGY COURSE & PROGRESS EVALUATION) AT KURSUS DAFTAR IN MyNEMO

« KURSUS DAFTAR									
NO.	SEMESTER	KURSUS	TARAF KURSUS	TARIKH DAFTAR	KEPUTUSAN	MARKAH	GRED	TARIKH KEPUTUSAN	PADAM
1	2020/21-1	PPS5021 (KAEDAH PENYELIDIKAN DALAM SAINS SOSIAL)	KURSUS AUDIT	03-MAR-2021			AU		<input type="checkbox"/>
2	2020/21-1	PGN5999 (TESIS MASTER)	KURSUS WAJIB				M		<input type="checkbox"/>
3	2020/21-2	PGN5999 (TESIS MASTER)	KURSUS WAJIB				M		<input type="checkbox"/>
4	2021/22-1	PGN5999 (TESIS MASTER)	KURSUS WAJIB				M		<input type="checkbox"/>
5	2021/22-2	PGN5999 (TESIS MASTER)	KURSUS WAJIB				M		<input type="checkbox"/>
									+ Kemaskini

# CHECKLIST FOR GRADUATION REQUIREMENTS

## PASSED CANDIDATURE ASSESSMENT (CA)

04

All postgraduate candidates are required to complete their Candidature Assessment by fulfilling the following requirements

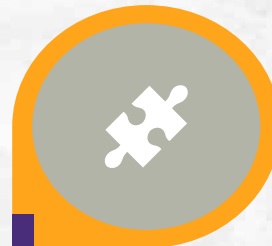
### FULL-TIME

1. Must be completed **within four (4) semesters for PhD OR two (2) semesters for Master**

### PART-TIME

2. Must pass the Candidature Assessment **within eight (8) semesters for PhD OR four (4) semesters for Master**

3. External assessor(s) can be appointed if there is no related expertise from the faculty/institute/centre



4. All candidates must undergo Candidature Assessment conducted by the faculty/institute/centre

5. Present proposal in a Candidature Defense session. The members of the committee comprise two (2) assessors for Master or PhD. **Maximum of 3 attempts** are allowed.

# CHECKLIST FOR GRADUATION REQUIREMENTS

## PUBLICATION REQUIREMENTS (COMPULSORY STARTING SEMESTER 2 ACADEMIC SESSION 2016/17 INTAKE)

05

Publication requirement (**journal article**) may varies with student intake

All publication will be verified by UMT Library (PSNZ)

Published journal articles (supervisor key in publication details in e-profile and will be verified by PSNZ)

Accepted journal article (fill in Verification of Accepted Journal Article form and email to PSNZ for verification of journal)

# CHECKLIST FOR GRADUATION REQUIREMENTS

## PUBLICATION REQUIREMENT STARTING SEMESTER 2 SESSION 2022/23

Students are required to fulfil the following publication requirements before graduating:

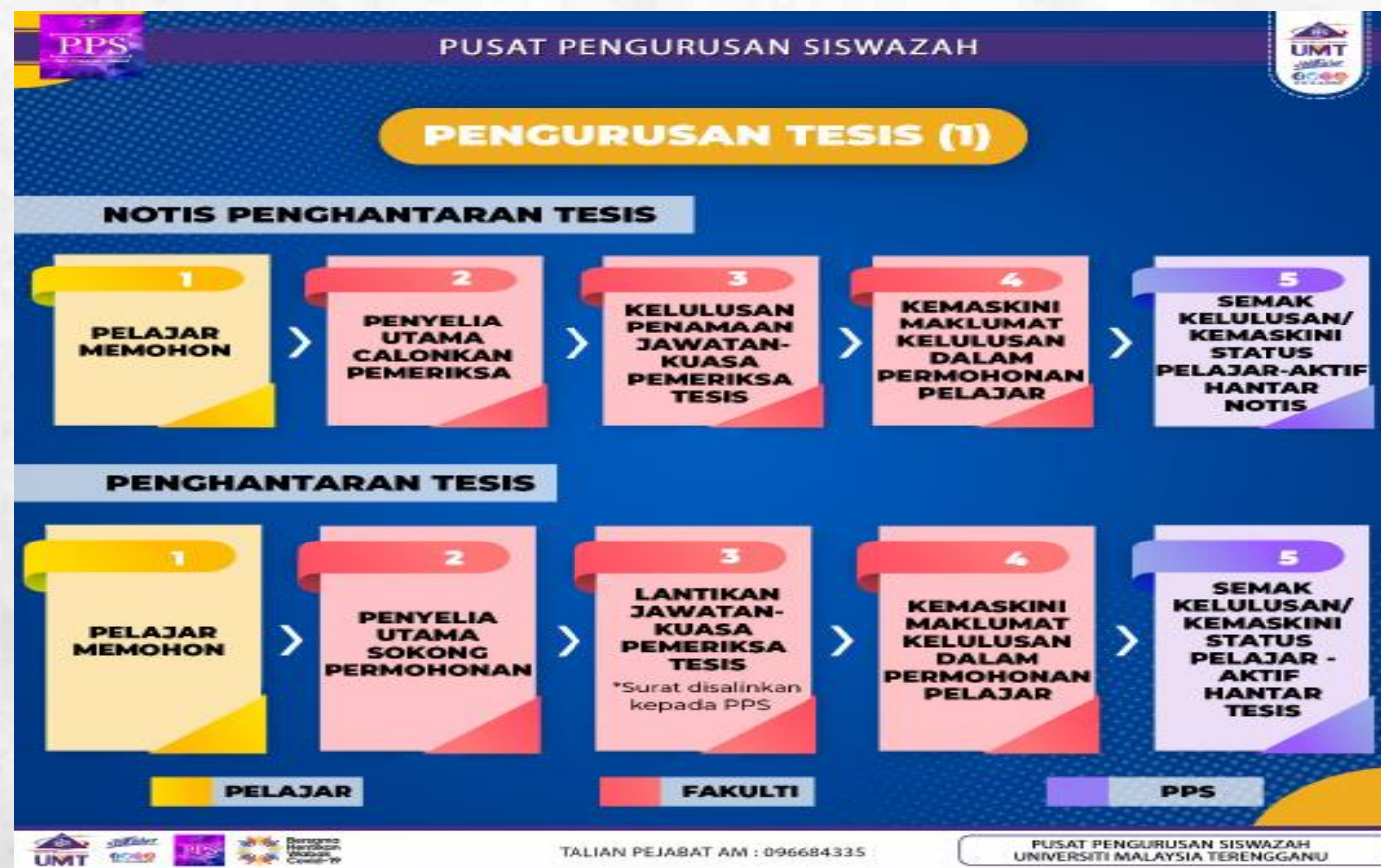
Programme	Requirements of Publication	Type of Publication
PhD	At least:- 2 journal articles (accepted)	Clarivate Analytics Web of Science (CA-WoS) /Scopus Journal
Master	At least:- 1 journal article (accepted)	Clarivate Analytics Web of Science (CA-WoS) /Scopus /MyCite Journal

- The publication must be related to the student's research in his/her submitted thesis.
- Only publications made during the candidature can be accepted.
- Publications must be published with the supervisor(s).
- One of the supervisors shall act as the corresponding author.
- The student must be the main author (first author).
- In the event of two or more students co-author in a journal article, only one student is allowed to use this article to fulfil his/her graduation requirement.

# CHECKLIST FOR GRADUATION REQUIREMENTS

**SUBMIT THESIS, PASSED VIVA VOCE AND SUBMIT CORRECTED THESIS**

**06**



# CHECKLIST FOR GRADUATION REQUIREMENTS

**SUBMIT THESIS, PASSED VIVA VOCE AND SUBMIT CORRECTED THESIS**

**06**





# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

## REGISTRATION, DEFERMENT & WITHDRAWAL

### Registration of New Students

Recommended until Week 10; no penalty for late registration

1

### Registration of Continuing Students

Until Week 4 (after week 4- a late registration penalty of RM100 will be charged)

2

### Deferment of Study

- Application: Until Week 4 (**No tuition fees charged**)
- Application After Week 4: **Tuition fees will be charged**
- Maximum Period of Deferment: Total of 2 Semesters
- **Not Allowed:** Students submitted PG-11 (Notice for Thesis Submission)
- Approval: Postgraduate Committee of faculty/institute/centre

3

### Application for Reinstatement (for GN case)

- Application: Made to Postgraduate Management Centre
- Lapsed time for Application: Not more than 1 year after termination/withdrawal letter was issued
- Approval: Postgraduate Committee of faculty/institute/centre
- Application after 1 Year Period: Apply new admission

4





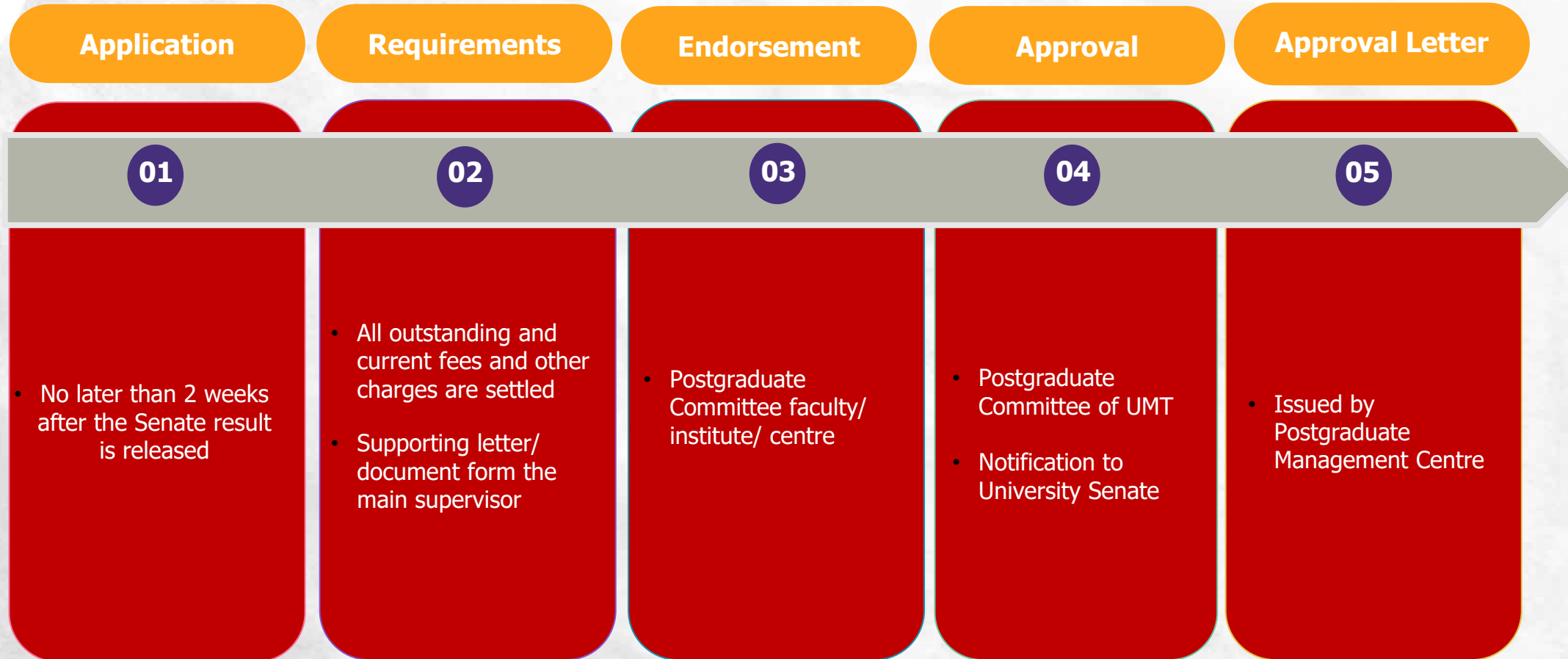
# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

**CONVERSION (MASTER TO PhD) Approval by Senate must be obtained within semester 2 (full-time) or semester 4 (part-time)**



# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

## APPEAL AGAINST TERMINATION (GB)



# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

## THESIS EXAMINATION

### Thesis Examination Committee

- **Chairman:**
  - ✓ PhD: at least **Associate Professor with PhD**
  - ✓ Master: at least **Senior lecturer**
  - ✓ Within the same or across faculty/institute/centre
- **Examiner(s):**
  - ✓ PhD: **3 (1 internal – UMT, 2 external – 1 from Malaysia, 1 from abroad)**
  - ✓ Master: **2 (1 internal – UMT, 1 external)**
- Secretary: academic staff

### Requirement & Role(s) of Chairman

- Requirement (s) of Chairman:
  - ✓ Experienced in supervising postgraduate students to completion
  - ✓ Has assessed postgraduate student's thesis
- Role(s) of Chairman:
  - ✓ **Moderating a viva**
  - ✓ **Ascertaining that the thesis fulfils the rules and regulations as stipulated in the Guide to the Preparation of Thesis**
  - ✓ **Submitting a complete report of the viva.**

### Requirement of Examiners

- Examiners must have the academic qualification of no less than the supervisor.
- **Examiners should be appointed from those with established reputation in the subject area of the thesis**
- PhD: at least Associate Professor
- Master: at least Senior Lecturer with PhD.
- Examiner without the required qualification: **Approval by the Senate.**
- Examiners have supervised candidates at the relevant level.
- **Postgraduate Committee of faculty/institute/centre has the final say on the appointment of thesis examiners**

### Viva voce

- Convening the Viva:
  - ✓ The faculty/ institute/ centre has received the reports from the examiners
  - ✓ The chairman and at least 1 examiner (Master) and at least 2 examiners (PhD) are present.
  - ✓ The supervisors may attend the viva as an observer.

# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

## DECISION ON THESIS

### Accepted with Minor Correction

- A maximum period of 6 months
- Extension period: **not exceed 3 months**
- Approval: Postgraduate Committee faculty/ institute/ centre

### Accepted with Major Correction

- A maximum period of 12 months
- Extension period: **not exceed 3 months**
- Approval: Postgraduate Committee faculty/ institute/ centre

### Rejected

- Thesis does not meet the requirement of a PhD/Master degree **OR**
- Candidate failed to submit the corrected thesis within the stipulated time

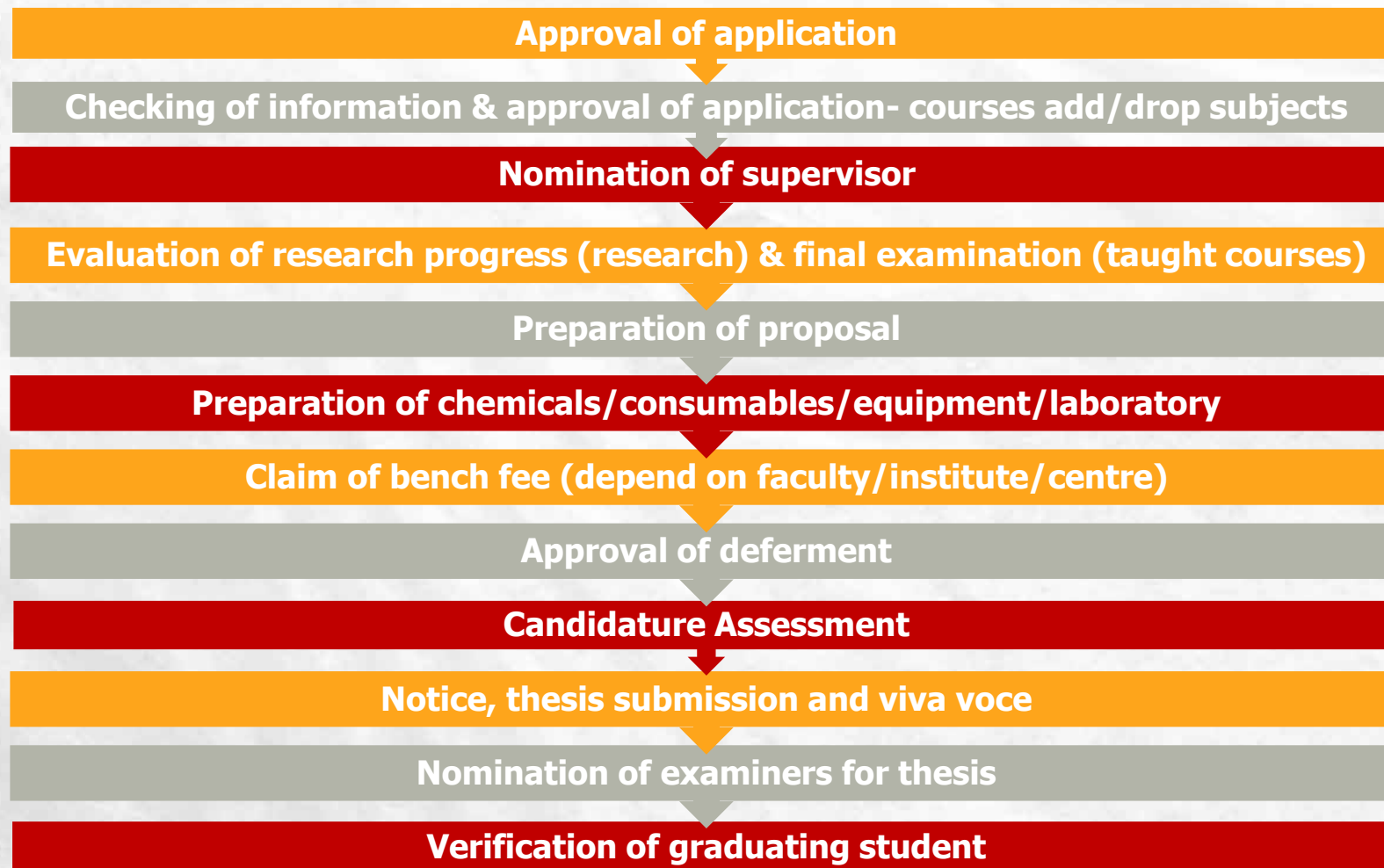
### Appeal on Thesis Examination Result

- Candidate is allowed to appeal to the faculty/institute/centre within 2 weeks after receiving results from the faculty (For **Rejected** case only).



# RESPONSIBILITY OF SUPERVISOR/FACULTY/INSTITUTE/CENTRE TO FACILITATE THE STUDENT

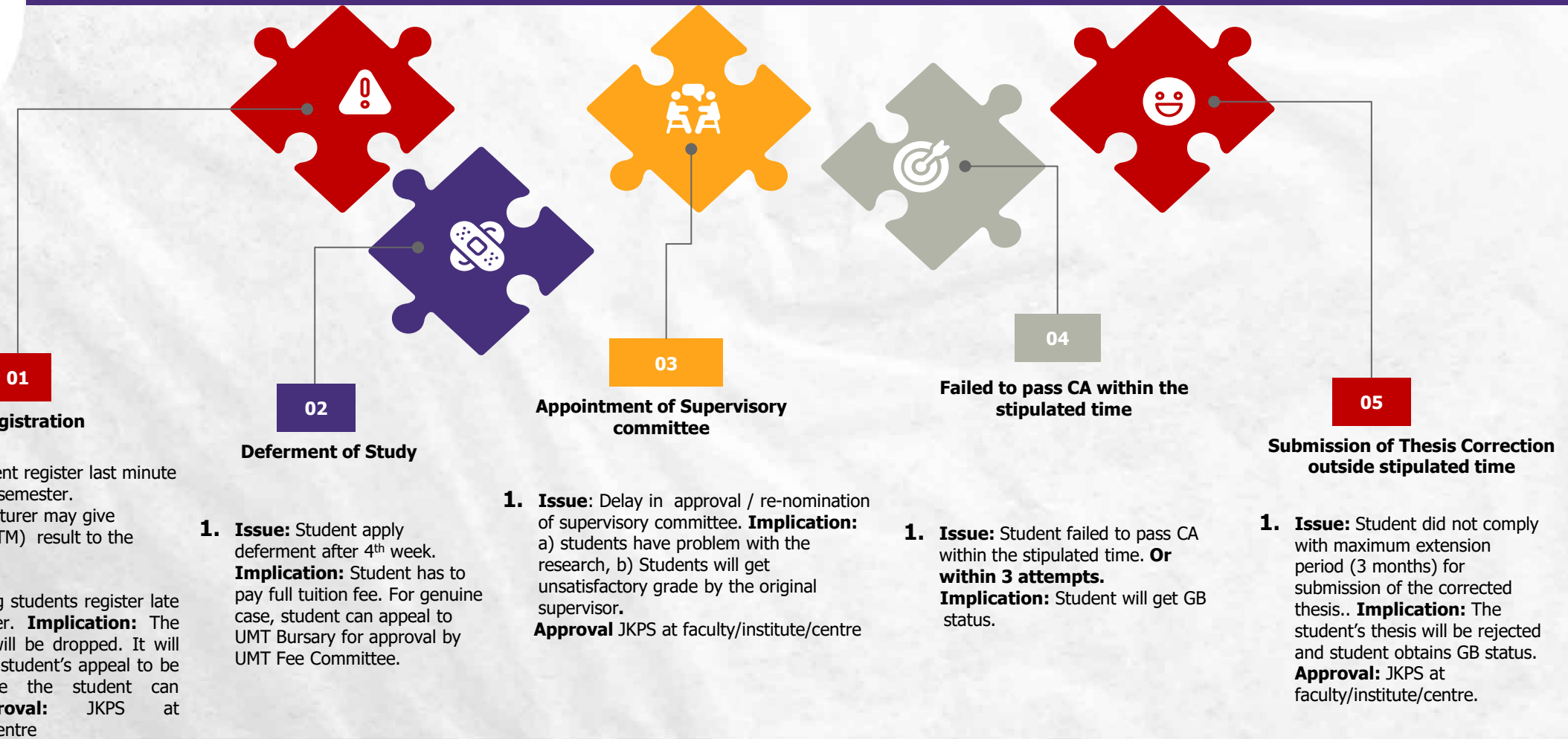
Student may refer to **Postgraduate Student Personal Progress Folder** (Research student) for detailed checklist or suggestion of progress throughout the study to graduate on time



OfficialUMT



# COMMON ISSUES FOR POSTGRADUATE STUDIES (BY RESEARCH)





# SCHOLARSHIP OPPORTUNITY

## International MSc/PhD candidate/student

- Malaysian Ministry of Higher Education – Malaysian International Scholarship (100 quotas/year)
- usually open for application in May – June, and the result will be out in September/October
- Candidate with offer letter may apply
- Current student with at least 6 months left to finish the study may apply

## Malaysian PhD student

- UMT – Biasiswa Tuanku Canselor (1 quota), Biasiswa UMT (9 quotas)  
Please refer PPS website (Application in March, interview in May)
- UMT-UGent Scholarship – 2 quotas available (6 months research in Uni. of Ghent)
- Coming soon in 2024 – Malaysian Ministry of Higher Education will offer excellent local PG student MyBrain 2.0 scholarship (500 quotas)





# POSTGRADUATE STUDENT TRAINING

## Postgraduate Management Center (PPS)

- PPS will organize a minimum of 2 students training every year
  - PPA also provide financial assistance for faculty/institute/centre to do postgraduate training to enhance the competency of postgraduate students – development of academic competency of postgraduate (the training/seminar programme arranged by the faculty/institute/centre)
- Annual ceiling budget =  $RM15 \times \text{Total PG students at PTj}$





# POSTGRADUATE STUDENT WELFARE



All students are covered by insurance (for permanent disability or death)  
Medical facilities- University Medical Centre, admission to government hospital ward (maximum RM2500/admission)



For international students - insurance and student welfare are under international Center



Starting 1<sup>st</sup> June 2022, students may choose **either** to do refund claim for:

- conference registration fee **once** throughout the study (maximum RM600) or
- refund for laboratory service fee/sample and chemicals purchasing (maximum amount of RM600) – eligible **only** if the student's bench fee at the faculty has finished

Publication incentive - for graduating student who have published journal article (WOS/Scopus indexed) more than the graduation requirements (related to his/her thesis)– study fee reimbursement



# TERIMA KASIH

## THANK YOU



Terokaan Seluas Lautan, Demi Kelestarian Sejagat | *Ocean of Discoveries for Global Sustainability*



# GENERAL FACILITIES @ UMT



Terokaan Seluas Lautan, Demi Kelestarian Sejagat | *Ocean of Discoveries for Global Sustainability*

July 2024



# UMT MAPS



Terokaan Seluas Lautan, Demi Kelestarian Sejagat | Ocean of Discoveries for Global Sustainability

July 2024

# UMT CAMPUS AND RESEARCH CENTER/STATION



**Pulau Bidong Research Station**



**UMT campus**



**Setiu Wetland Research Station**



**Kenyir Lake Research Station**



**Taman Penyelidikan Alam, Bukit Kor campus**



**Chagar Hutang Research Station and Turtle Conservation**

# UMT FACILITIES



**POSTGRADUATE ROOM**



**PPS COUNTER**

Access to the PG room by face recognition; please register at PPS counter to get an access

# UMT FACILITIES

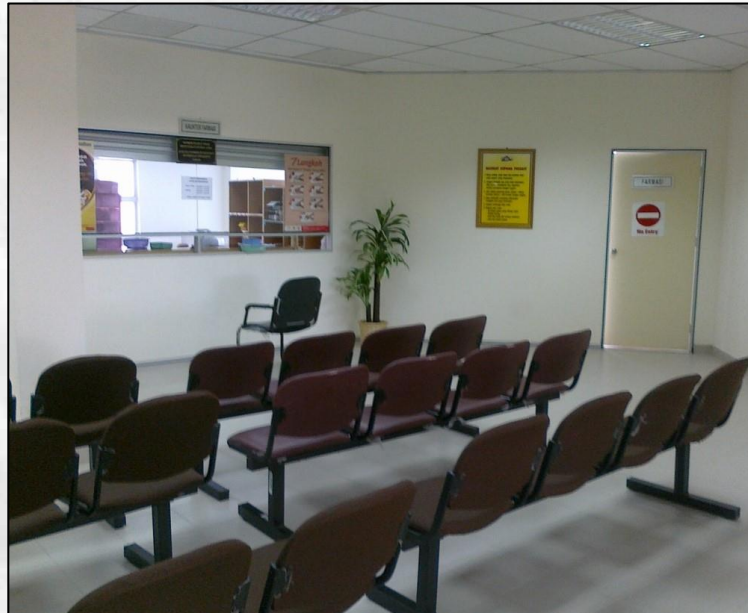


**SULTAN MIZAN HALL**



**SULTANAH NUR ZAHIRAH LIBRARY**

# UMT FACILITIES



**MEDICAL CENTER**

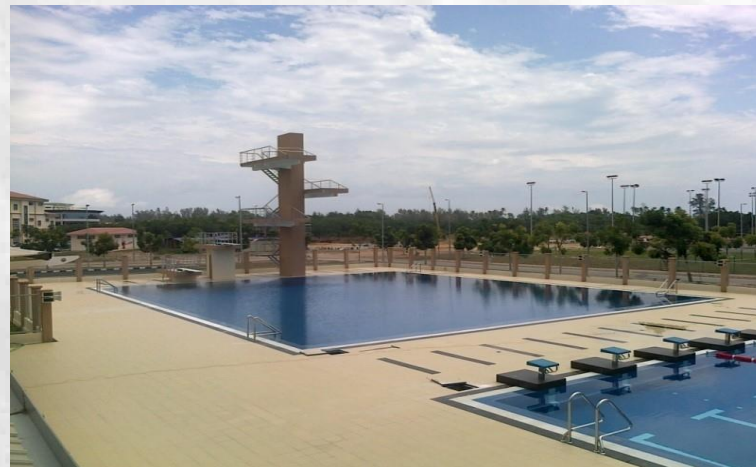


**MARMORIS HOUSE**





# UMT FACILITIES (SPORT COMPLEX)



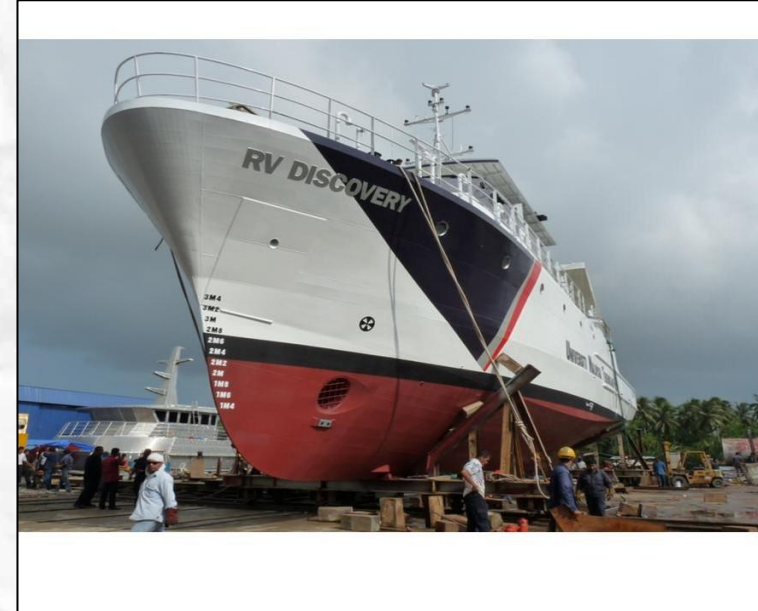
Terokaan Seluas Lautan, Demi Kelestarian Sejagat | Ocean of Discoveries for Global Sustainability

July 2024

# UMT FACILITIES



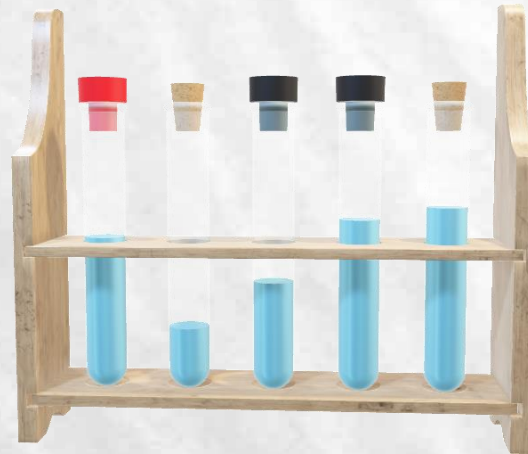
**UMT BUS**



**RESEACRH VESSEL**



# FACILITIES @ CENTRAL LABORATORY, UMT



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# LABORATORY FACILITIES

**PUSAT PERKHIDMATAN PENYELIDIKAN & LAPANGAN**  
**LIST OF INSTRUMENTS**



**GCMS**  
BRAND: GCMS QP-010 ULTRA SHIMADZU  
FUNCTION: Sample profiling based on library search for unknown peaks in low concentration and also all over low concentration.



**GC-FID**  
BRAND: GC-FID 2010, SHIMADZU  
FUNCTION: Measuring concentration of organic compound. Used specifically for hydrocarbon & fatty acid methyl ester.



**ION CHROMATOGRAPHY**  
BRAND: IRI COMPACT ION CHROMATOGRAPHY PROFESSIONAL  
FUNCTION: Application of cation & anion column for analyzing & identifying cation & anion species in liquid samples.



**ANALYTICAL & SEMI PREP HPLC**  
BRAND: SHIMADZU, ANALYTICAL HPLC SHIMADZU PROMINENCE SEMI PREP SYSTEM  
FUNCTION: To separate, identify & quantify components dissolved in a liquid solvent with a high analytical resolution. Fractions are target components. Analyze: Pesticides, chemistry environment & food product.



**SURFACE AREA & POROSITY ANALYZER**  
BRAND: MICROMERITICS / ASAP 2020  
FUNCTION: Determination of surface areas & pore sizes. Analyze: catalysts & activated carbon.



**THERMOGRAVIMETRIC ANALYZER**  
BRAND: METTLER TOLEDO TGA DSC 1  
FUNCTION: To measure the change in physical & chemical properties of materials through analysis of thermogravimetric decomposition patterns.



**TOTAL ORGANIC CARBON & NITROGEN ANALYZER**  
BRAND: TOC & DON 8000A, SHIMADZU  
FUNCTION: Measurement of total carbon & nitrogen content in water, directly dissolved & suspended.



**CHEMICAL DISCRETE ANALYZER**  
BRAND: SMART CHEM SMART CHEM200  
FUNCTION: Water quality & material testing analysis. Analyze: drinking water, waste water, environmental samples.



**SCANNING ELECTRON MICROSCOPE**  
BRAND: JEOL JSM-6610LV  
FUNCTION: Description & Analysis of:  
Material Structures  
Material Features  
Surface Defects  
Surface Contamination  
Damage Analysis  
Material Defects  
Fracture Damage  
Corrosion Damage

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**PUSAT PERKHIDMATAN PENYELIDIKAN & LAPANGAN**  
**LIST OF INSTRUMENTS**



**PH METER**  
BRAND: METROHM  
FUNCTION: Used to measure hydrogen-ion activity (acidity or alkalinity) in solution.



**GLASS OVEN KUGELROHR**  
BRAND: BUCHI/B-585  
FUNCTION: Used for distillation, sublimation, freeze-drying or drying of small samples.



**DINO EYE**  
BRAND: AM4815ZT DINO-LITE EDGE  
FUNCTION: To observe fresh sample direct from its original location & providing a clear image & the sample.



**WATERBATH**  
BRAND: MEMMERT  
FUNCTION: Designed to be reliable and compact, capable of incubating samples at a constant temperature from Ambient +5°C to 99°C.



**ULTRASONIC BATH**  
BRAND: ELMA  
FUNCTION: To agitate liquid samples. The agitation produces high forces on contaminants adhering to substrates like metals, plastics, glass, rubber. To break up cell.



**GRINDER**  
BRAND: CUSTOM MADE  
FUNCTION: Machine tools used for grinding hard samples to powder form.



**WARING BLENDER**  
BRAND: LAB BLENDER  
FUNCTION: Allows for mixing, stirring, blending, or homogenizing of laboratory samples.



**WATER DISTILLER**  
BRAND: FAVORIT WC84L  
FUNCTION: To produce distilled water.

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PUSAT PERKHIDMATAN PENYELIDIKAN & LAPANGAN  
**LIST OF INSTRUMENTS**



**COMPOUND MICROSCOPE**

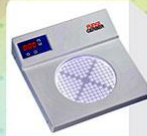
**FUNCTION:**  
Used for viewing samples at high magnification, which is achieved by the combined effect of two sets of lenses: ocular and objective lenses. Synonym with microbial observation.

BRAND: OLYMPUS/ CX 22 - LED

**DISSECTING MICROSCOPE**

**FUNCTION:**  
Designed for low magnification observation of a sample, typically using light reflected from the surface of an object rather than transmitted through it. Normally sample of macro (big size), use for dissection.

BRAND: CARL ZEISS



**COLONY COUNTER**

**FUNCTION:**  
Used to estimate a liquid culture's density of microorganisms by counting individual colonies on an agar plate, slide, mini gel, or Petri dish.

BRAND: FUNKE GERBER

**BACTI CINERATOR**

**FUNCTION:**  
Sterilizes inoculating loops, needles and culture tube mouths safely and conveniently, preventing infectious splatter and cross-contamination.

BRAND: BACTI CINERATOR IV



**MICROBALANCE**

**FUNCTION:**  
An instrument capable of making precise measurements of weight of sample of relatively small mass: of the order of a million parts of a gram.

BRAND: A&D

**ANALYTICAL BALANCE**

**FUNCTION:**  
To measure small mass from gram to milligram range.

BRAND: SARTORIUS AX224



**HOT PLATE**

**FUNCTION:**  
Used to heat glassware or its contents and allowing the heated liquid to be stirred automatically.

BRAND: WISD - MSH 20D

**HEATING MANTLE**

**FUNCTION:**  
Used to apply heat to containers, as an alternative to other forms of heated bath.

BRAND: MTOPS ALO728



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PUSAT PERKHIDMATAN PENYELIDIKAN & LAPANGAN  
**LIST OF INSTRUMENTS**

**ULTRALOW TEMPERATURE FREEZER (-80C)**

BRAND: SANYO-PANASONIC /MDF-US5V (V.I.P) C/W CO2 BACKUP



**LOW TEMPERATURE FREEZER (-20C)**

BRAND: LIEBHERR, AUSTRALIA



**REFRIGERATOR**

BRAND: SHARP/ SJPT591MSL



**GENERAL CHILLER**

BRAND: JUSCOOL



**ICE MAKER**

BRAND: HOSHIZAKI



**CHEST FREEZER**

BRAND: ELBA/ EF8000



**MILLI-Q WATER PURIFICATION SYSTEM**

BRAND: MERCK MILIQ



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**LIGHT METER DATALOGGER**

BRAND: LI-1400/LICOR

**FUNCTION:**  
To measure the current output of LICOR light sensors, as well as voltage sensors and sensors with a pulsed output, such as a tipping bucket rain gauge.



**SECCHI DISC**

BRAND: SECCHI DISC

**FUNCTION:**  
Used to measure water transparency or turbidity in bodies of water.



**MULTI PARAMETER**

BRAND: EUTECH / PC700

**FUNCTION:**  
Used to measure pH, ORP, conductivity and temperature with a single meter.



**YSI MULTI PARAMETER**

BRAND: YSI PROFESSIONAL PLUS

**FUNCTION:**  
Used to measure a variety of combinations for dissolved oxygen, conductivity, specific conductance, salinity, resistivity, TDS, pH, ORP, pH/ORP combination, ammonium, nitrate, chloride and temperature.



**VAN DORN SAMPLER**

BRAND: WILCO

**FUNCTION:**  
Used for water quality research, monitoring water quality and water sampling.



**NISKIN WATER SAMPLER**

BRAND: KC DENMARK

**FUNCTION:**  
Used for water quality research, monitoring water quality and water sampling.



**PLANETARY BALL MILL**

BRAND: PM 100 RETSCH

**FUNCTION:**  
Utilized for applications requiring a high level of fineness. The mill's centrifugal forces result in high pulverization energy and thus reduce the time taken for grinding operation.



**MICROWAVE DIGESTER**

BRAND: MILESTONE/ETHOS ONE

**FUNCTION:**  
Used to dissolve heavy metals in the presence of organic molecules prior to analysis by inductively coupled plasma, atomic absorption, or atomic.



**TENSILE TESTING MACHINE**

BRAND: TINIUS OLSEN

**FUNCTION:**  
Used to test the tensile strength and compressive strength of materials.



**MICROPLATE READER**

BRAND: THERMO SCIENTIFIC

**FUNCTION:**  
To measure absorbance in the 200-1000 nm wavelength range from appropriate 96- or 384-wellplates with and without lids and various types of cuvettes. Special function can read at least 5ml of sample.



**AUTOCLAVE**

BRAND: HIRAYAMA

**FUNCTION:**  
Used to sterilize substances that can withstand high temperature and/or high pressure steam include tools of glass, ceramic, metal or rubber, water, media.



**ROTARY EVAPORATOR**

BRAND: BUCHI

**FUNCTION:**  
Used in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation.



**UV-VIS SPECTROPHOTOMETER**

BRAND: SHIMADZU/UV 1800

**FUNCTION:**  
Used for the quantitative determination of different analyses, such as transition metal ions, highly conjugated organic compounds, and biological macromolecules. Can used for kinetic measurement.



**HOMOGENIZER**

BRAND: GLASCOL UK

**FUNCTION:**  
Used for the homogenization of various types of sample such as tissue, plant, food, soil, and many others.



**BIOSAFETY CABINET**

BRAND: ESCO/AC2-4E8

**FUNCTION:**  
Provides protection to the user, the experimental material and the environment. Use in plant cell culture, microbiology etc.



**LAMINAR FLOW**

BRAND: ESCO/AHC-01

**FUNCTION:**  
Is a carefully enclosed bench designed to prevent contamination of semiconductor wafers, biological samples, or any particle sensitive materials. Normally used in media preparation, plant cell culture etc.



**LAB DRYER**

BRAND: PROTECH/FOD1000

**FUNCTION:**  
Ideal for drying glasswares.



**INCUBATOR**

BRAND: THERMO/  
HERATHERM IGS 750

**FUNCTION:**

Heratherm incubators are laboratory devices for preparing and cultivating cell and tissue cultures.



**CO2 INCUBATOR**

BRAND: ESCO/ CCL-170B-3

**FUNCTION:**

Used to culture cells to provide it with the optimum temperature, moisture (sterile environment) and to maintain optimum pH.



**INCUCELL INCUBATOR**

BRAND: MMM/MC00724

**FUNCTION:**

Suitable for safe treatment of microorganism cultures. The INCUCELL line produces no noise and provides a very soft air flow within the chamber. Circle stage of microb growth.



**REFRIGERATED INCUBATOR**

BRAND: NAMYFTC90E

**FUNCTION:**

Used for incubation of microorganism cultures, preservation of samples, determination of enzymatic activities and all use. Requiring required and constant temperatures.



**OVEN**

BRAND: MEMMERT

**FUNCTION:**

Drying, burning-in, ageing, vulcanising, curing, burn-in testing, conditioning, heated storage.



**HIGH TEMPERATURE OVEN**

BRAND: CARBOLITE  
LHT5/120/301

**FUNCTION:**

Suitable for removing organic contamination from glass and metal components, curing, heat shrinkage and testing of electronics materials. Temperature can reach 500C.



**FURNACE**

BRAND: CARBOLITE /  
ELF123B/301

**FUNCTION:**

To provide heat for a process or can serve as reactor which provides heats of reaction. Temperature can reach 1200C.



**MICROWAVE**

BRAND: PANASONIC

**FUNCTION:**

Used for general processing to heating laboratory samples, preparing solutions, drying and heating samples or products. Dissolve agarose solution.



**REFRIGERATED CENTRIFUGE**

BRAND: HITACHI/CR-22N

**FUNCTION:**

A machine with a rapidly rotating container that applies centrifugal force to its contents, typically to separate fluids of different densities or liquids from solids, up to 1L Max RPM: 1L - 9000rpm 50ml - 15000rpm.



**REFRIGERATED MICROCENTRIFUGE**

BRAND: MIKROFUGE, BECKMAN  
COULTER BENCH TOP

**FUNCTION:**

Nucleic acid and protein preparation, pelleting extractions, purifications, concentrations, phase separations & receptor binding, rapid sedimentation of protein precipitates, particulates & cell debris. For 1.5ml microcentrifuge.



**MINI CENTRIFUGE**

BRAND: GUSTO

**FUNCTION:**

Ideal for protocols calling for fast spins with a higher RCF requirement. Ideal for PCR®, microfilter cell separation, clinical & diagnostic applications, & HPLC protocols. Fix microcentrifuge 1.5ml.



**UV TRANSLUMINATOR**

BRAND: ENDURO

**FUNCTION:**

To view DNA/ RNA that has been separated by electrophoresis. Designed for rugged use and durability with exceptional performance.



**VORTEX MIXER**

BRAND: VELP SCIENTIFIC ZX3

**FUNCTION:**

To mix liquid in small vials, suspend cells and mix reagent of an assay.



**STACKABLE SHAKER**

BRAND: THERMO SCIENTIFIC/MAXQ8000

**FUNCTION:**

Used for a variety of biological cell growth. Applications include microbiology, bacteriology and cell, plant cell and tissue cultures.



**UV VIEWER CABINET**

BRAND: CC81 CABINET WITH ENF 280C

**FUNCTION:**

To view and take photographic images (film or digital) of electrophoretically separated nucleic acids.



**ORBITAL SHAKER**

BRAND: STUART/SSL1+SSL1/10

**FUNCTION:**

A flexible shaker that will mix samples in tubes, vials, and microplates by shaking the sample. With orbital rotation/shake function.

**CRYOSTAT**

BRAND: LEICA/CM1950

**FUNCTION:**  
Used to preserve frozen tissue samples while a microtome, an extremely sharp cutting instrument mounted inside cryostats, slices the tissue into pieces thin enough to be observed under a microscope. Specially can use raw sample without involving tissue processor.



**SKIN ANALYZER**

BRAND: CORTEC TECH/DERMALAB COMBO

**FUNCTION:**  
A complete and powerful multiparameter skin analysis system operated by a probe connected to main unit. This unit can be freely configured with parameters: ultrasound, TEWL, elasticity, hydration, sebum & skin colour.



**GEL DOC**

BRAND: BIO-RAD/170-8195

**FUNCTION:**  
Used in molecular biology laboratories for the imaging and documentation of nucleic acid and protein suspended within polyacrylamide or agarose gels.

**MICROMANIPULATOR**

BRAND: EPPENDORF/OLYMPUS

**FUNCTION:**  
• Used for embryology, GMO, fishery transfer sample in micro ML unit.  
• Observation, capture image/video  
• Fluorescence mode  
• Scaling function for image capture



**FREEZE DRYER**

BRAND: LABCONCO/FREEZON 18L

**FUNCTION:**  
Freeze drying is the removal of ice or other frozen solvents from a material through the process of sublimation and the removal of bound water molecules through the process of desorption.



**FREEZE DRYER**

BRAND: VIRTIS/ADV PLUS CABINET FREEZE DRYER

**FUNCTION:**  
Freeze drying is the removal of ice or other frozen solvents from a material through the process of sublimation and the removal of bound water molecules through the process of desorption.



**FLUORESCENCE SPECTROMETER**

BRAND: PERKIN ELMERS/LS55

**FUNCTION:**  
Used for fluorescence, phosphorescence, bioluminescence, chemiluminescence. Normally for bioscience & environmental application.



**FORCE TENSIOMETER**

BRAND: BIOLIN SCIENTIFIC/SIGMA 701

**FUNCTION:**  
To determine surface tension, interfacial tension, critical micelle concentration, dynamic contact angle, surface free energy, wettability, cleanliness, sedimentation & density. Used for control, development & modification of liquid & solid surface.



**MICROTOME**

BRAND: LEICA/RM225

**FUNCTION:**  
Used to cut extremely thin slices of material, known as sections. Used in microscopy, allowing for the preparation of samples for observation under transmitted light or electron radiation. Mainly use in histology field.



**EMBEDDING MODULE**

BRAND: THERMO SCIENTIFIC

**FUNCTION:**  
The process in which the tissues or the specimens are enclosed in a mass of the embedding medium (paraffin wax) using a mould before using microtome.



**SDS PAGE**

BRAND: BIO-RAD

**FUNCTION:**  
An electrophoresis method that allows protein separation by molecular weight in an electric field.



**DENSITOMETER**

BRAND: BIO-RAD

**FUNCTION:**  
Transmissive and reflective imaging using red green and blue CCD technology to scan chromogenic samples at the optimal detection wavelength.



**ELECTROPHORESIS SET**

BRAND: MINIPLUS SUB10/SERVA

**FUNCTION:**  
Gel electrophoresis is a method for separation & analysis of DNA and RNA & their fragments, based on their size and charge.



**PCR MACHINE**

BRAND: VERIT96 WELL/0.2ML

**FUNCTION:**  
To amplify segments of dna via pcr, restriction enzyme digestion & rapid diagnostic.



**2D IEF**

BRAND: BIO-RAD

**FUNCTION:**  
Designed for isoelectric focusing (left) protein in immobilized ph gradient strips for 2D electrophoresis.



**VACUUM CENTRIFUGAL CONCENTRATOR**

BRAND: MIVAC DUO/GENEVAC

**FUNCTION:**  
Range of centrifugal concentrators are capable of removing water & organic solvent from variety of sample form by means of vaporization process.