



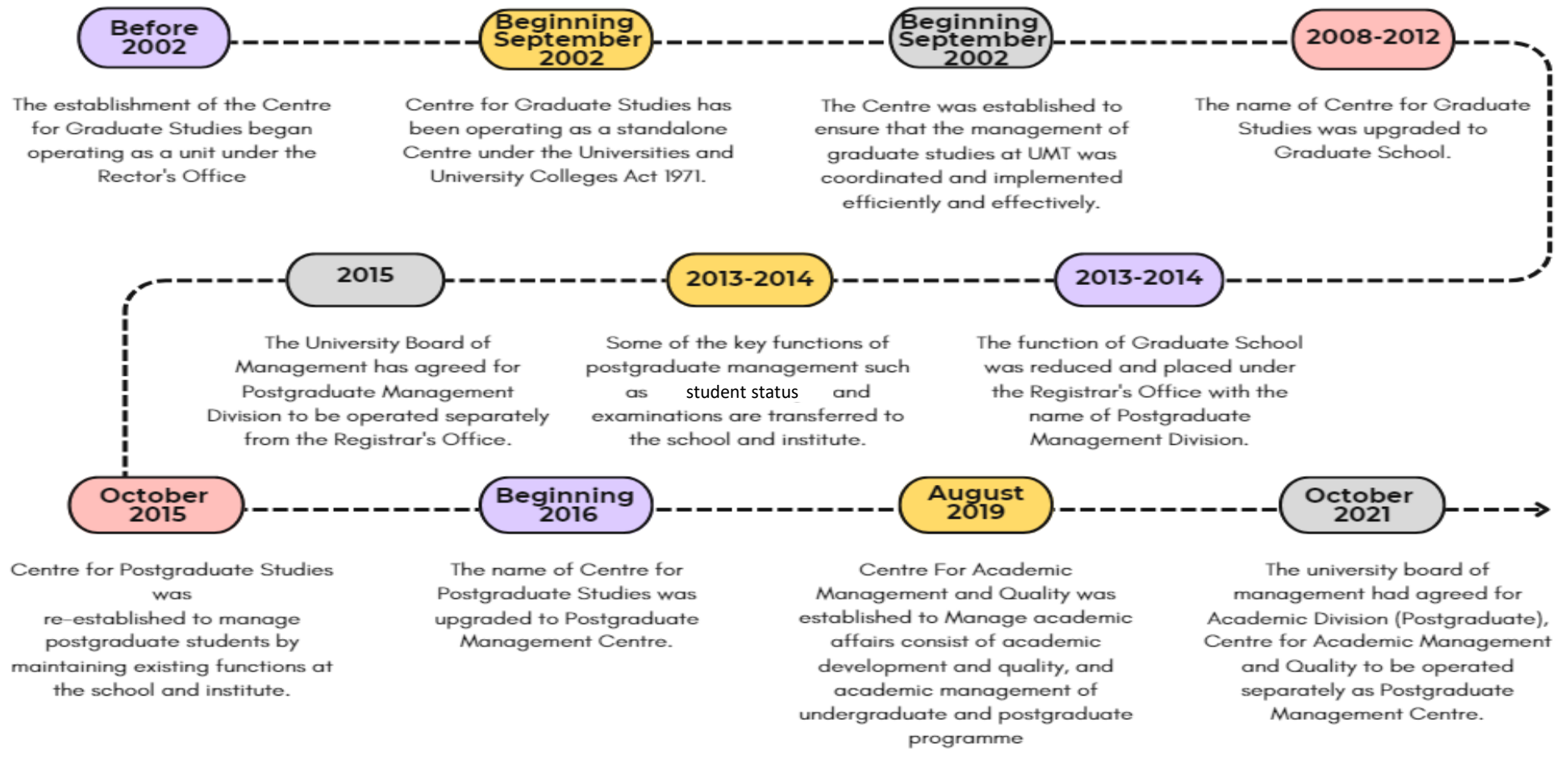
# WELCOME TO POSTGRADUATE STUDY @ UMT

SEM II 2025/2026





# 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



# PPS WEBSITE



**POSTGRADUATE MANAGEMENT CENTRE**  
Universiti Malaysia Terengganu



CORPORATE INFO ▾

**POSTGRADUATE ▾**

FACILITIES

FACULTIES

CONTACT US

REGISTRATION

FAQ

- ABOUT US
- POSTGRADUATE PROGRAMME
- WELCOME TO POSTGRADUATE STUDY @ UMT
- POSTGRAD PROMOTION SLIDE
- SOP POSTGRAD STUDY
- TUITION FEE
- ADMISSION
- STUDENT REFERENCE
- FINANCIAL ASSISTANCE & SCHOLARSHIP
- ACADEMIC CALENDAR 2025/2026
- REGISTRATION
- TRAINING ORGANIZED BY PPS
- POSTGRADUATE SECRETARIAT AT FACULTY/INSTITUTE/  
CENTER
- PROGRAMME COORDINATOR FOR MASTER TAUGHT  
COURSE PROGRAMS





# PPS MANAGEMENT



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



**Nur Affzan Afieka Binti  
Ahmad Affluh**  
Assistant Secretary



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



**Abdullah Syukri M Saleh**  
Senior Deputy Registrar



**Tuan Mohd Najwa Fuad Tuan Man**  
Assistant Registrar



# PPS STAFFS

## POSTGRADUATE ACADEMIC MANAGEMENT SECTION



**Tuan Mohd Najwa Fuad  
Tuan Man**  
[Tuan.fuad@umt.edu.my](mailto:Tuan.fuad@umt.edu.my), ext : 4330



**Kamizah Ibrahim**  
[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**  
[atira.fazrina@umt.edu.my](mailto:atira.fazrina@umt.edu.my), ext : 4515  
POSTGRADUATE STUDIES AND RECORD  
(FPEPS, FPM, FPSM, AKUATROP, PPAL)

## ADMISSION, STUDENT AFFAIRS AND ADMINISTRATION SECTION



**Abdullah Syukri M Saleh**  
[asyukri@umt.edu.my](mailto:asyukri@umt.edu.my), ext : 4921



**Faridah Jaafar**  
[ida@umt.edu.my](mailto:ida@umt.edu.my), ext : 4516  
ADMISSION & GRADUATION



**Adriana Nadhirah Mohamad  
Rashid**  
[ad.nadhirah@umt.edu.my](mailto:ad.nadhirah@umt.edu.my), ext : 4933  
DATA AND SYSTEM MANAGEMENT



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

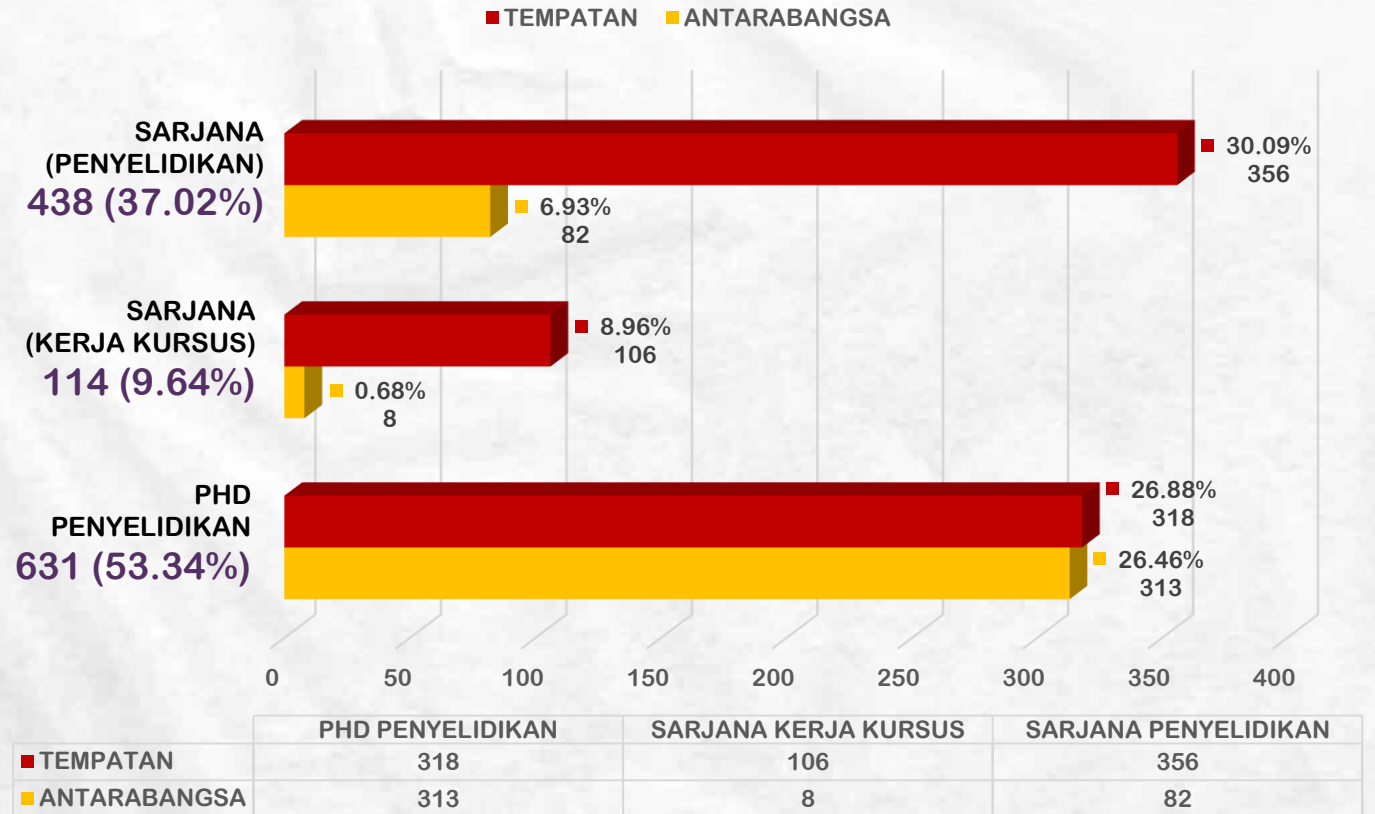
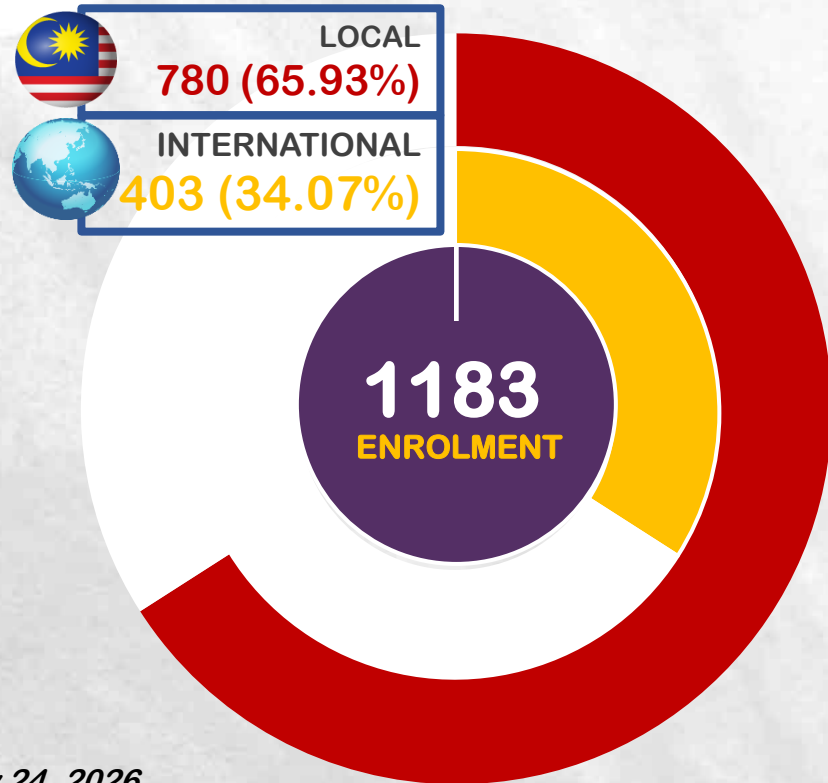


**Ahmad Fakruddin  
Mohd Amri**  
[a.fakruddin@umt.edu.my](mailto:a.fakruddin@umt.edu.my), ext : 3300  
COUNTER AND GENERAL SERVICES



# ENROLMENT STATISTICS (ACTIVE STUDENTS)

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

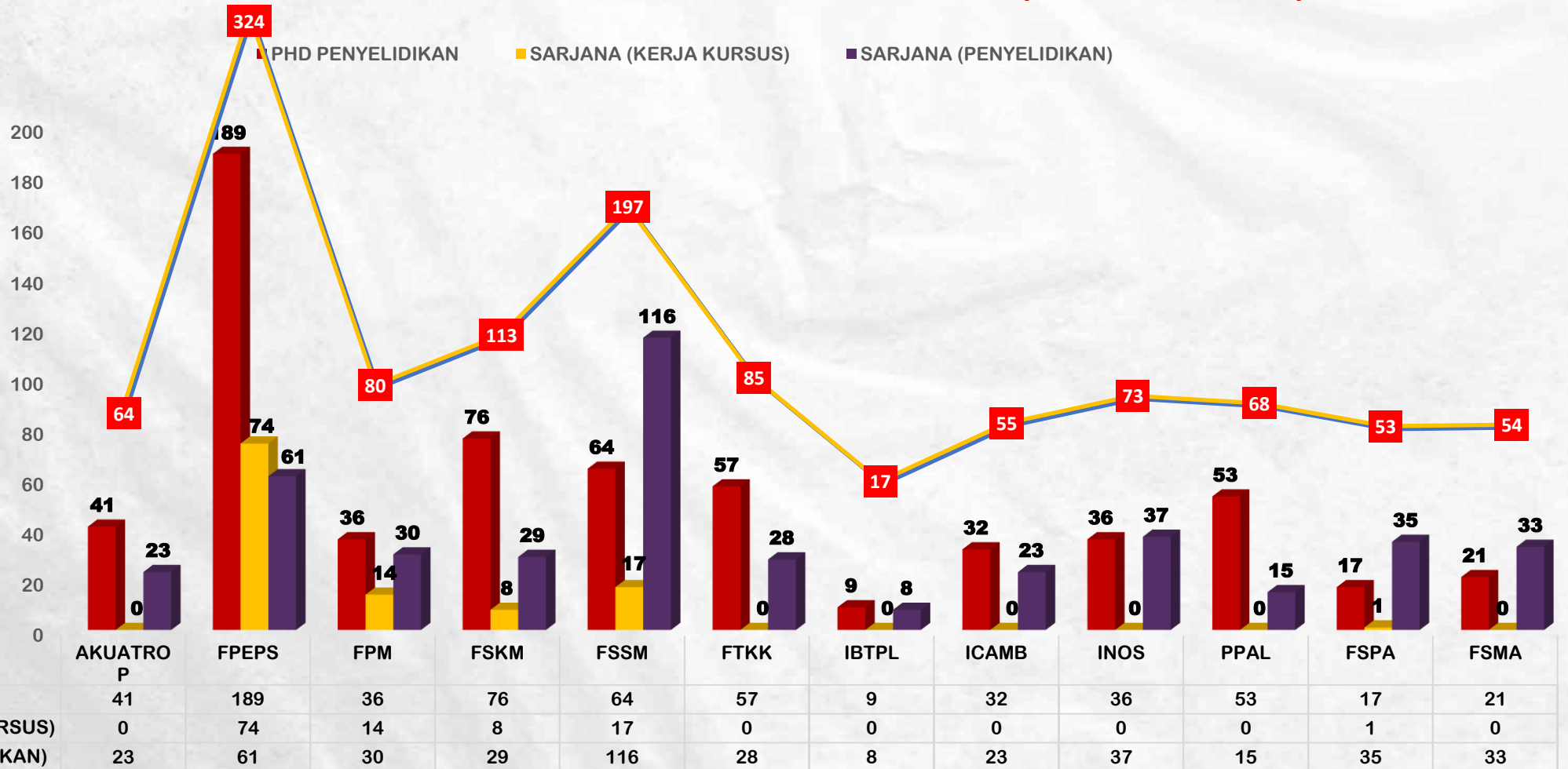


As of May 24, 2026



# ENROLMENT STATISTICS (ACTIVE STUDENTS)

## ENROLMEN - FAKULTI / INSTITUT (PROGRAM)

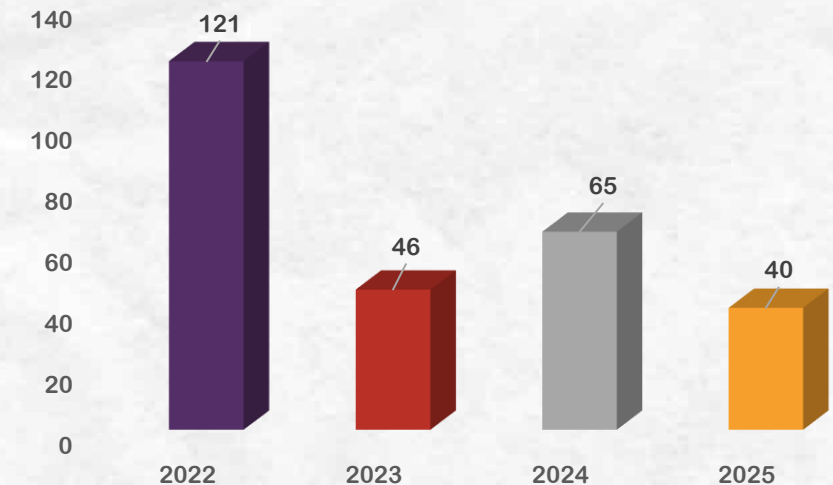




# ENROLMENT STATISTICS (ACTIVE STUDENTS)

## ENROLMEN – BY COUNTRY (INTERNATIONAL STUDENTS)

COUNTRY	2023	2024	2025	2026	TOTAL
BANGLADESH	9	5	5	10	29
CHINA	9	5	2	1	17
EGYPT	1	2	4	1	8
FRANCE	0	0	0	2	2
GERMANY	0	0	0	0	0
INDIA	7	1	2	3	13
INDONESIA	32	10	11	8	61
IRAN	2	0	2	0	4
IRAQ	0	1	1	0	2
JAPAN	0	0	0	0	0
JORDAN	16	2	0	1	19
KENYA	0	1	2	0	3
MYANMAR	0	0	1	0	1
NIGERIA	12	2	11	2	27
OMAN	1	1	1	0	3
PAKISTAN	14	11	19	8	52
PALESTINIAN AUTHORITY	1	0	0	0	1
PHILIPPINES	0	2	4	0	6
SUDAN	2	1	0	1	4
SOMALIA	1	0	0	1	2
TUNISIA	1	0	0	1	2
UNITED KINGDOM	0	0	0	1	1
UNITED STATE	1	0	0	0	1
UZBEKISTAN	1	0	0	0	1
YEMEN	4	1	0	0	5
OTHERS	7	1	0	0	8
<b>TOTAL</b>	<b>121</b>	<b>46</b>	<b>65</b>	<b>40</b>	<b>272</b>



OfficialUMT





# 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





# LIST OF UMT POSTGRADUATE STANDARD OPERATING PROCEDURE (SOP)

No.	POSTGRADUATE SOP	METHOD OF APPLICATION / PROCESS
1.	APPLICATION FOR ADMISSION OF POSTGRADUATE STUDENTS	ONLINE
2.	APPLICATION FOR REGISTRATION OF POSTGRADUATE STUDENTS	ONLINE
3.	APPALICATION OF ADD / DROP FOR COURSE WORK PROGRAM	MANUAL
4.	APPLICATION FOR CHANGE IN PROGRAM/ PROGRAM STRUCTURE/ FACULTY/ INSTITUTE/ CENTER/ FIELD OF STUDY/ TITLE OF RESEARCH/ SPECIALIZATION*	ONLINE AND MANUAL*
5.	APPLICATION FOR CONVERSION FROM MASTERS PROGRAM (RESEARCH) TO DOCTOR PHILOSOPHY	MANUAL
6.	APPLICATION FOR WITHDRAWAL FROM STUDY PROGRAM	MANUAL
7.	APPLICATION FOR DEFERMENT OF STUDY	ONLINE
8.	APPLICATION FOR CHANGE OF MODE OF STUDY (FULL TIME OR PART TIME)	ONLINE
9.	APPLICATION FOR EXTENDING STUDY PERIOD (FACULTY APPROVAL)	MANUAL
10.	RENOMINATION OF THE SUPERVISORY COMMITTEE	ONLINE
11.	PROCEDURE FOR HANDLING COURSE TEACHING (COURSEWORK STRUCTURE)	MANUAL





# LIST OF UMT POSTGRADUATE STANDARD OPERATING PROCEDURE (SOP)

No.	POSTGRADUATE SOP	METHOD OF APPLICATION / PROCESS
12.	FINAL EXAMINATION PROCEDURE FOR POSTGRADUATE PROGRAMMES (COURSEWORK STRUCTURE)	MANUAL AND ONLINE
13.	STUDENT PROGRESS MANAGEMENT PROCEDURE FOR RESEARCH STRUCTURE PROGRAMMES	ONLINE
14.	EVALUATION MANAGEMENT FOR THE NOMINATION OF RESEARCH-BASED POSTGRADUATE STUDENTS	MANUAL
15.	PROCEDURE FOR CONDUCTING RESEARCH METHODOLOGY COURSE TEACHING (RESEARCH-BASED STRUCTURE)	MANUAL AND ONLINE
16.	APPLICATION OF POSTGRADUATE THESIS EVALUATION	ONLINE
17.	APPEAL OF THESIS EXAMINATION RESULTS (RESEARCH-BASED STRUCTURE)	MANUAL
18.	CONFIRMATION AND CONFERMENT OF POSTGRADUATE STUDENTS' DEGREES	MANUAL



# 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

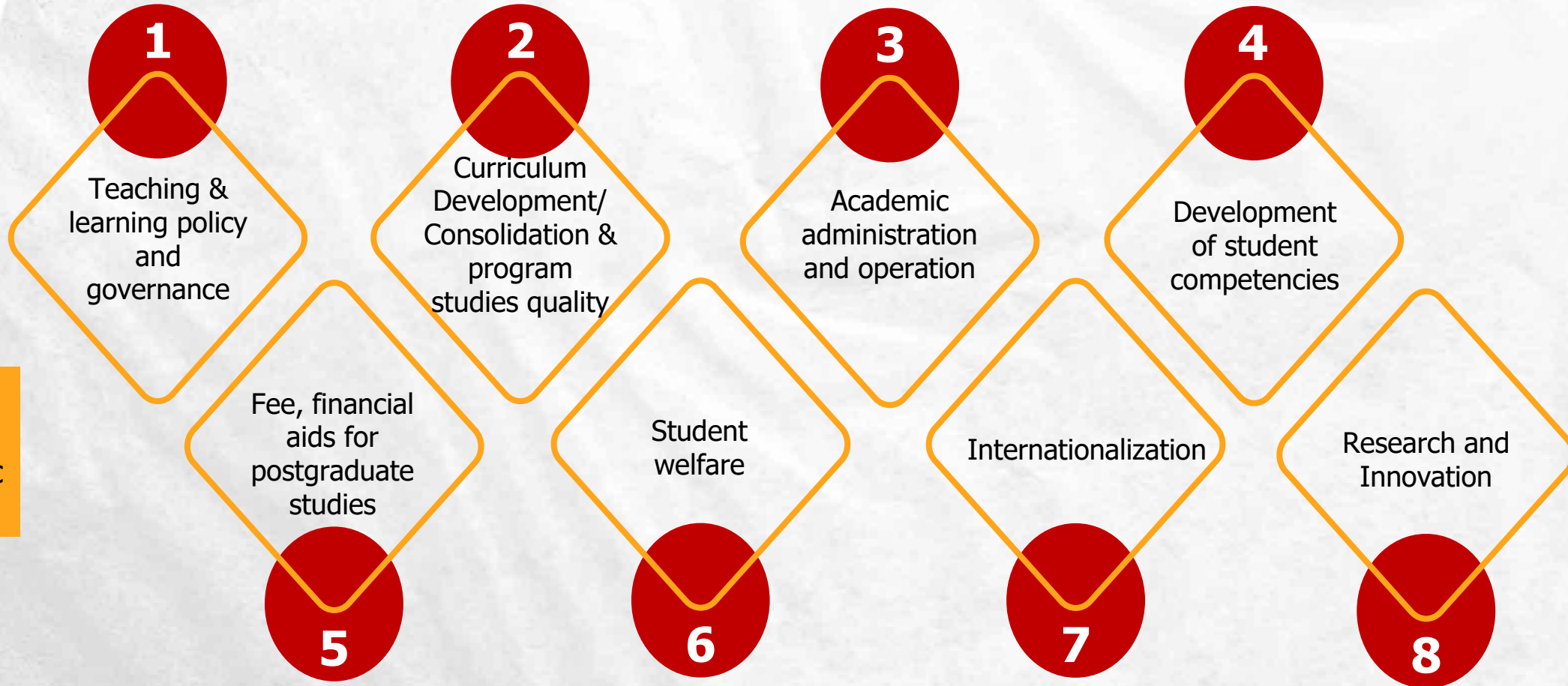
## Examination management

- 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 to pass CA in the stipulated time
- 3) Obtain TM in 2 consecutive semester
- 4) Failure to submit corrected thesis on time
- 5) Violated any UMT rules and regulation

UMT JKPS: Approval  
UMT SENATE: Notification



# LATEST RULES/ REGULATIONS/ SOP/FEES



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



POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU



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



POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU



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



POSTGRADUATE MANAGEMENT CENTRE  
UNIVERSITI MALAYSIA TERENGGANU

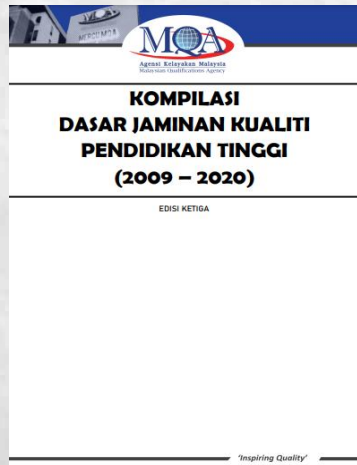
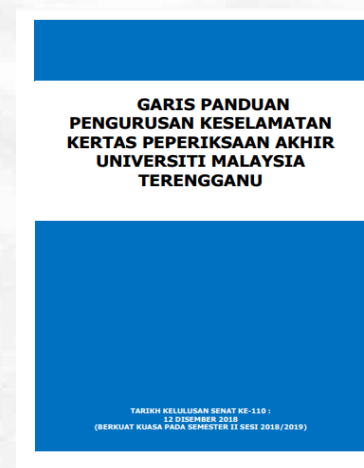
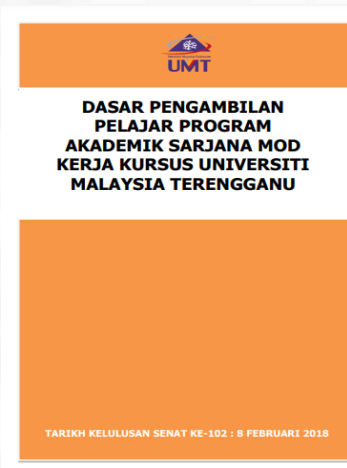
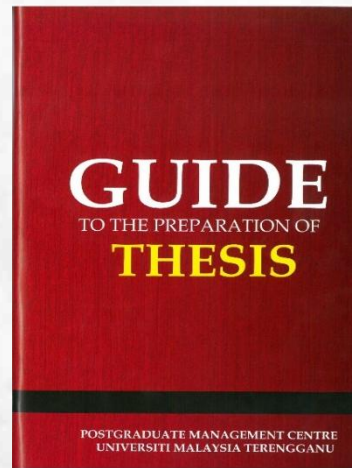
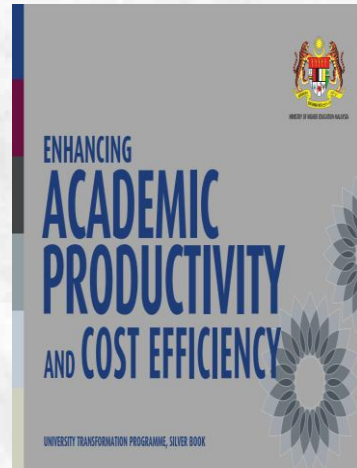
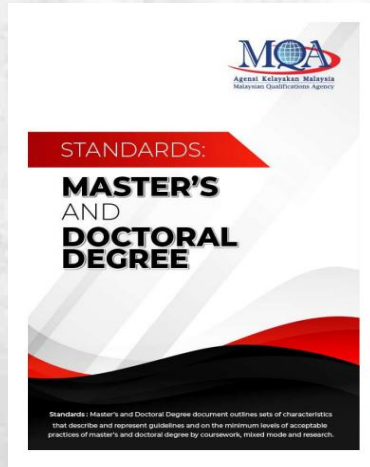


**PROSEDUR PENGAJIAN SISWAZAH  
UNIVERSITI MALAYSIA TERENGGANU**

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

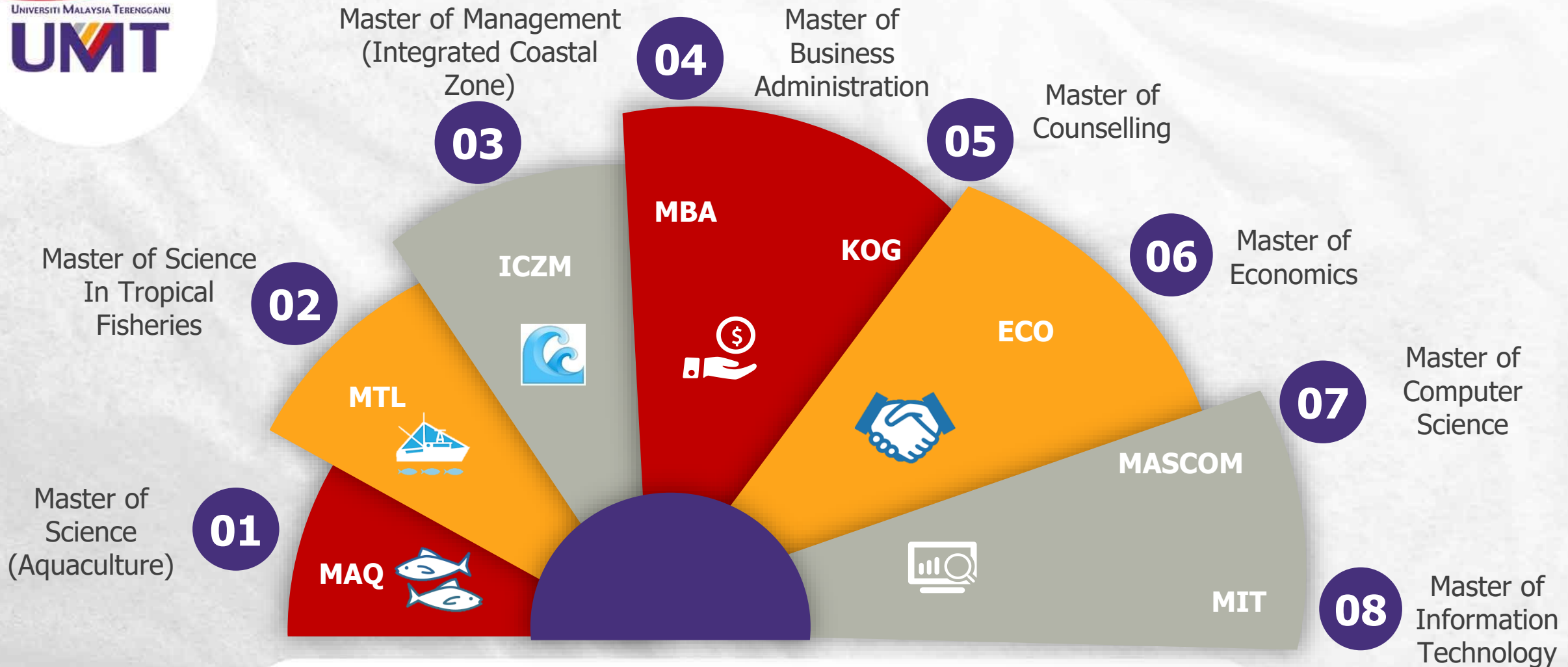


# REFERENCES USED

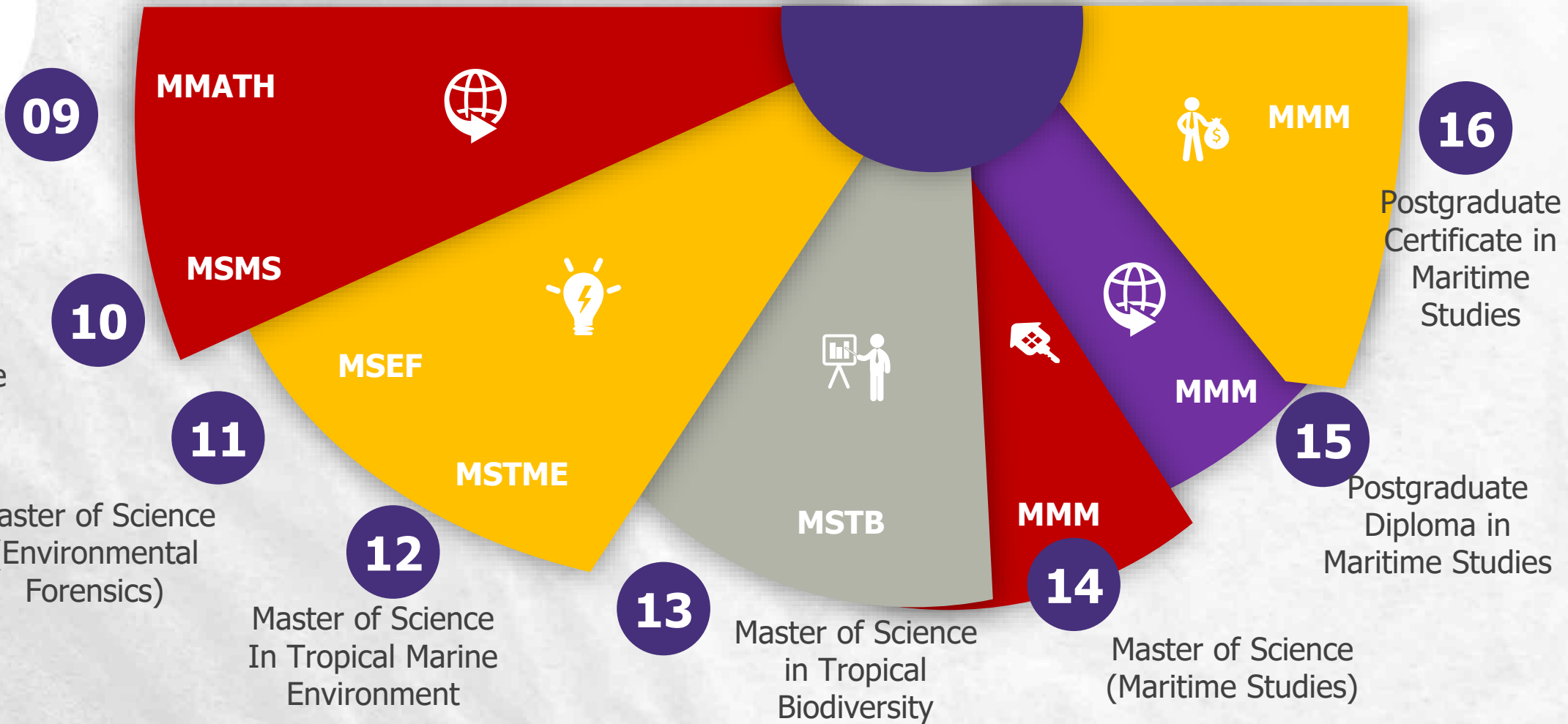




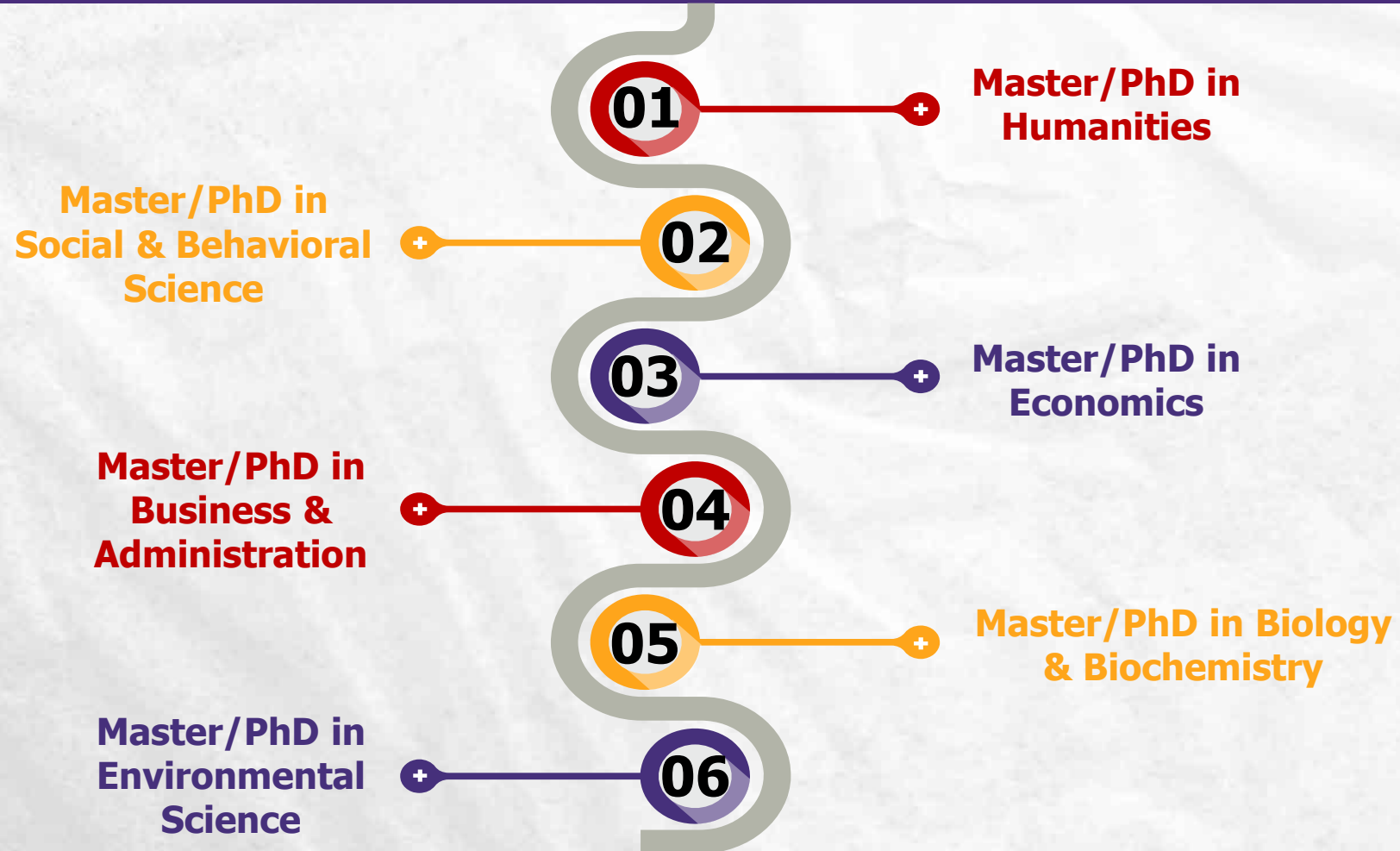
# MASTER BY COURSEWORK



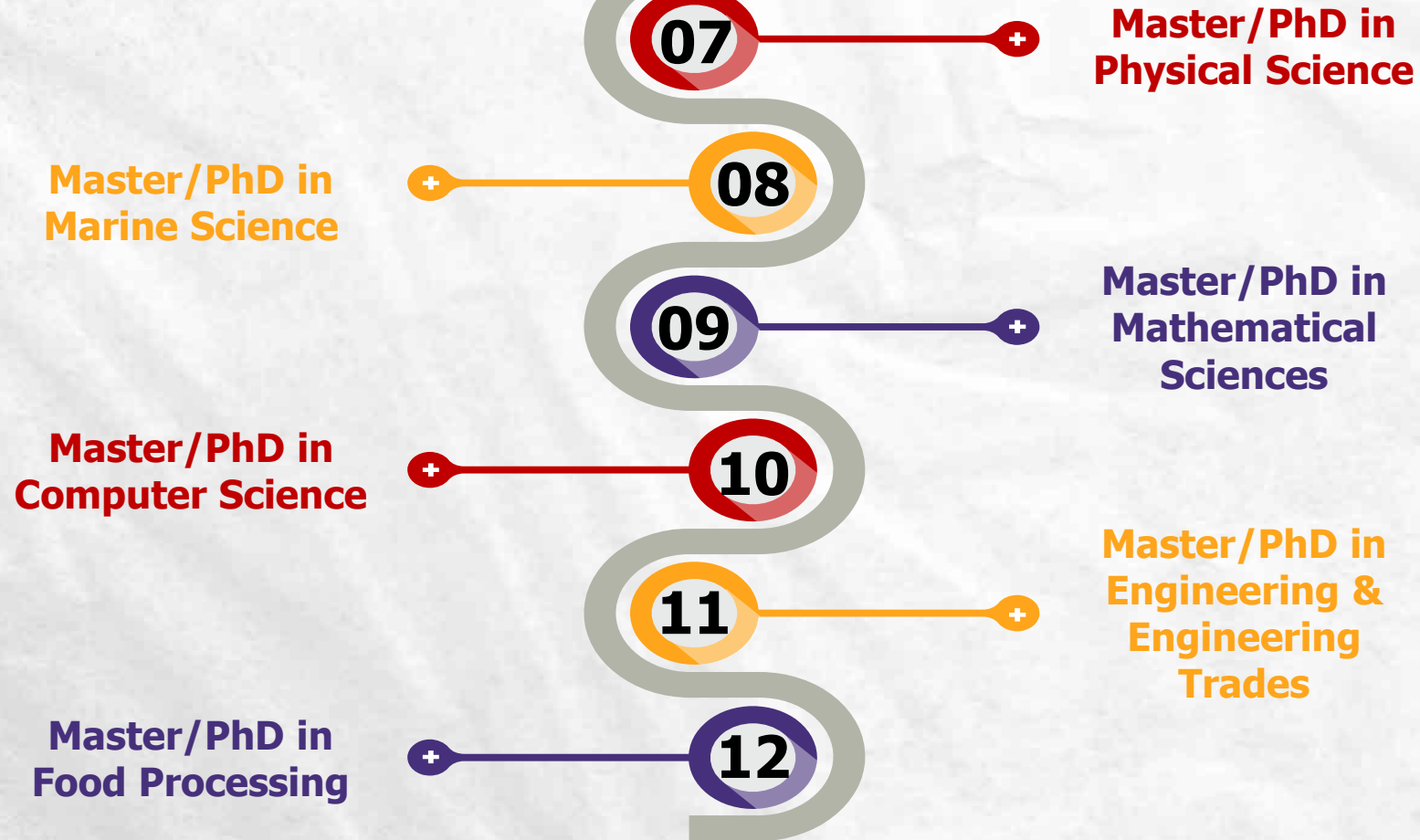
# MASTER BY COURSEWORK



# 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**

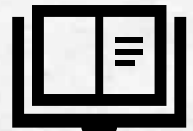
16

17

**Master/PhD in  
Maritime Studies**

**Master/PhD in  
Accounting &  
Taxation**

18

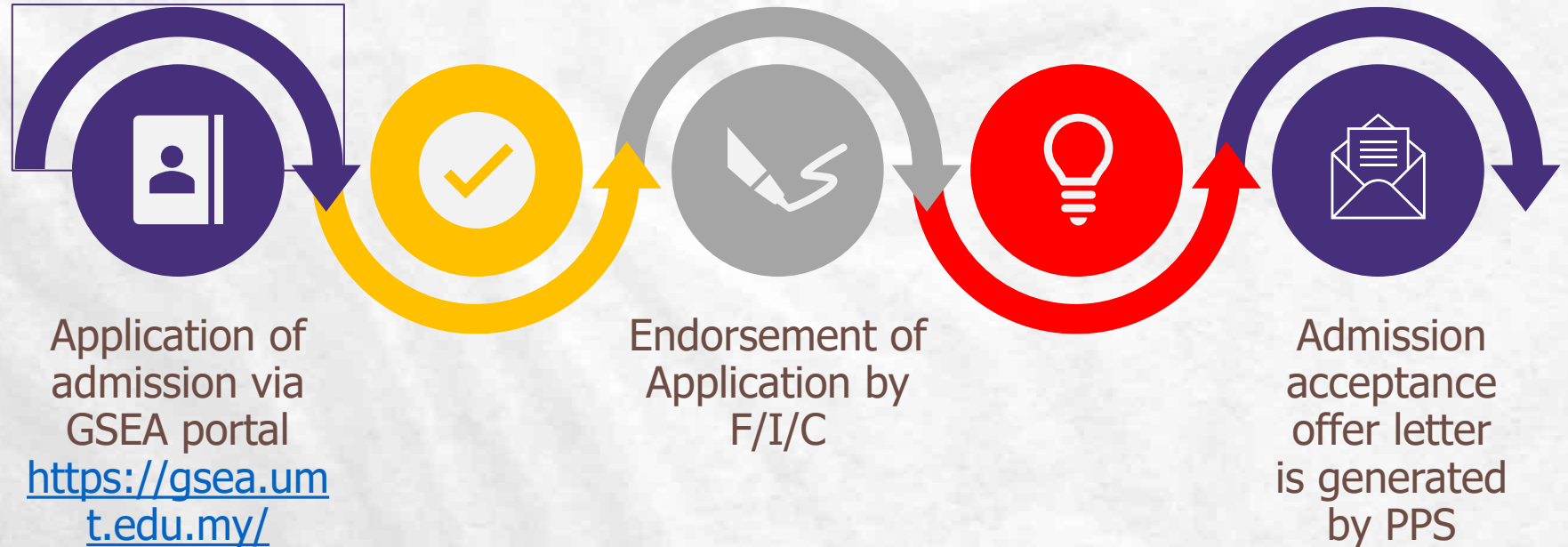


# POSTGRADUATE ADMISSION

For International candidate, if application is made in the current semester – Registration date will be next semester in the offer letter (because 2-3 months needed for visa approval). However, main SV can appeal (with strong justification) to PPS Director..

Document verification by PPS (CGPA, English requirement)

English exemption (foreigner from Rumpun Melayu and writing thesis in Malay) and English requirement (conditional or full offer letter)





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


**POSTGRADUATE MANAGEMENT CENTRE**  
 POSTGRAD.UMT.EDU.MY  
 +609-668 4335 / 4330

## Master's Research TUITION FEES

SCIENCE PROGRAMME (LOCAL)	1st Semester	<b>RM3,260.00</b>
	2nd & Subsequent Semesters	<b>RM1,930.00</b>
SOCIAL SCIENCE PROGRAMME (LOCAL)	1st Semester	<b>RM2,260.00</b>
	2nd & Subsequent Semesters	<b>RM1,430.00</b>
SCIENCE PROGRAMME (INTERNATIONAL)	1st Semester	<b>RM4,674.60 / USD1,038.80</b>
	2nd & Subsequent Semesters	<b>RM3,339.00 / USD742.00</b>
SOCIAL SCIENCE PROGRAMME (INTERNATIONAL)	1st Semester	<b>RM3,625.20 / USD805.60</b>
	2nd & Subsequent Semesters	<b>RM2,814.30 / USD625.40</b>

Note: \*Currency exchange is at USD100 = RM4.50 (Fixed Rate)  
\*Included SST 6%


**POSTGRADUATE MANAGEMENT CENTRE**  
 POSTGRAD.UMT.EDU.MY  
 +609-668 4335 / 4330

## Doctor of Philosophy TUITION FEES

SCIENCE PROGRAMME (LOCAL)	1st Semester	<b>RM4,260.00</b>
	2nd & Subsequent Semesters	<b>RM1,930.00</b>
SOCIAL SCIENCE PROGRAMME (LOCAL)	1st Semester	<b>RM2,760.00</b>
	2nd & Subsequent Semesters	<b>RM1,430.00</b>
SCIENCE PROGRAMME (INTERNATIONAL)	1st Semester	<b>RM5,724.00 / USD1,272.00</b>
	2nd & Subsequent Semesters	<b>RM3,339.00 / USD742.00</b>
SOCIAL SCIENCE PROGRAMME (INTERNATIONAL)	1st Semester	<b>RM4,149.90 / USD922.20</b>
	2nd & Subsequent Semesters	<b>RM2,814.30 / USD625.40</b>

Note: \*Currency exchange is at USD100 = RM4.50 (Fixed Rate)  
\*Included SST 6%

After thesis submission until graduation approval by UMT senate – the registration fee is RM190.80 (International Students) or RM100 (Local students)

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



## TUITION FEES COURSEWORK PROGRAMME - LOCAL STUDENTS



1st Semester <b>RM5,760.00</b> 20 credit	2nd Semester <b>RM5,430.00</b> 20 credit
------------------------------------------------	------------------------------------------------

**MASTER OF SCIENCE (AQUACULTURE)**

**MASTER OF SCIENCE (ENVIRONMENTAL FORENSIC)**

1st Semester <b>RM6,760.00</b> 20 credit	2nd Semester <b>RM6,430.00</b> 20 credit
------------------------------------------------	------------------------------------------------

1st Semester <b>RM9,260.00</b> 20 credit	2nd Semester <b>RM8,930.00</b> 20 credit
------------------------------------------------	------------------------------------------------

**MASTER OF SCIENCE (TROPICAL MARINE ENVIRONMENT)**

**MASTER OF SCIENCE (TROPICAL BIODIVERSITY)**

1st Semester <b>RM9,260.00</b> 20 credit	2nd Semester <b>RM8,930.00</b> 20 credit
------------------------------------------------	------------------------------------------------

1st Semester <b>RM3,760.00</b> 12 credit	2nd Semester <b>RM4,180.00</b> 15 credit	3rd Semester <b>RM3,680.00</b> 13 credit
------------------------------------------------	------------------------------------------------	------------------------------------------------

**MASTER OF SCIENCE IN TROPICAL FISHERIES**

**POSTGRADUATE CERTIFICATE IN MARITIME STUDIES**

1st Semester <b>RM8,760.00</b> 20 credit
------------------------------------------------

1st Semester <b>RM7,510.00</b> 20 credit	2nd Semester <b>RM4,180.00</b> 10 credit	3rd Semester <b>RM3,930.00</b> 10 credit
------------------------------------------------	------------------------------------------------	------------------------------------------------

**MASTER IN MARITIME STUDIES (Full Time)**

**POSTGRADUATE DIPLOMA IN MARITIME STUDIES**

1st Semester <b>RM7,760.00</b> 20 credit	2nd Semester <b>RM4,430.00</b> 10 credit
------------------------------------------------	------------------------------------------------

**INTAKE MAC**

**INTAKE OCTOBER**

1st Semester <b>RM4,560.00</b> 11 credit	2nd Semester <b>RM3,330.00</b> 8 credit	3rd Semester <b>RM4,230.00</b> 11 credit	4th Semester <b>RM3,930.00</b> 10 credit
------------------------------------------------	-----------------------------------------------	------------------------------------------------	------------------------------------------------

**MASTER IN MARITIME STUDIES (Part Time)**

1st Semester <b>RM4,560.00</b> 11 credit	2nd Semester <b>RM4,230.00</b> 11 credit	3rd Semester <b>RM3,330.00</b> 8 credit	4th Semester <b>RM3,930.00</b> 10 credit
------------------------------------------------	------------------------------------------------	-----------------------------------------------	------------------------------------------------



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



## TUITION FEES COURSEWORK PROGRAMME - LOCAL STUDENTS



<p>1st Semester <b>RM4,510.00</b> 15 credit</p> <p>2nd Semester <b>RM2,080.00</b> 7 credit</p> <p>3rd Semester <b>RM3,430.00</b> 18 credit</p>	<p><b>MASTER OF COMPUTER SCIENCE</b></p>	<p><b>MASTER OF INFORMATION TECHNOLOGY</b></p>	<p>1st Semester <b>RM4,510.00</b> 15 credit</p> <p>2nd Semester <b>RM2,080.00</b> 7 credit</p> <p>3rd Semester <b>RM3,430.00</b> 18 credit</p>
<p>1st Semester <b>RM5,510.00</b> 19 credit</p> <p>2nd Semester <b>RM2,080.00</b> 7 credit</p> <p>3rd Semester <b>RM3,430.00</b> 18 credit</p>	<p><b>MASTER OF MATHEMATICS</b></p>	<p><b>MASTER OF STATISTICS IN MARINE SCIENCE</b></p>	<p>1st Semester <b>RM5,510.00</b> 19 credit</p> <p>2nd Semester <b>RM2,080.00</b> 7 credit</p> <p>3rd Semester <b>RM3,430.00</b> 18 credit</p>
<p>1st Semester <b>RM4,735.00</b> 15 credit</p> <p>2nd Semester <b>RM4,405.00</b> 15 credit</p> <p>3rd Semester <b>RM3,080.00</b> 10 credit</p>	<p><b>MASTER OF MANAGEMENT (INTEGRATED COASTAL ZONE)</b></p>	<p><b>MASTER OF BUSINESS ADMINISTRATION</b></p>	<p>1st Semester <b>RM7,060.00</b> 15 credit</p> <p>2nd Semester <b>RM6,730.00</b> 15 credit</p> <p>3rd Semester <b>RM4,630.00</b> 10 credit</p>
<p>1st Semester <b>RM4,360.00</b> 12 credit</p> <p>2nd Semester <b>RM4,030.00</b> 12 credit</p> <p>3rd Semester <b>RM4,030.00</b> 12 credit</p> <p>4th Semester <b>RM4,030.00</b> 12 credit</p>	<p><b>MASTER OF COUNSELLING</b></p>	<p><b>MASTER OF ECONOMICS</b></p>	<p>1st Semester <b>RM4,885.00</b> 15 credit</p> <p>2nd Semester <b>RM4,005.00</b> 13 credit</p> <p>3rd Semester <b>RM3,730.00</b> 12 credit</p>

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



## TUITION FEES COURSEWORK PROGRAMME - INTERNATIONAL STUDENTS



PUSAT  
PENGURUSAN  
SISWAZAH

<p>1st Semester <b>RM10637.10</b> / USD2,363.80 20 credit</p>	<p>2nd Semester <b>RM10303.20</b> / USD2,289.60 20 credit</p>	<p><b>MASTER OF SCIENCE (AQUACULTURE)</b></p>	<p><b>MASTER OF SCIENCE (ENVIRONMENTAL FORENSIC)</b></p>	<p>1st Semester <b>RM11,591.10</b> / USD2,575.80 20 credit</p>	<p>2nd Semester <b>RM11,257.20</b> / USD2,501.60 20 credit</p>
<p>1st Semester <b>RM16,551.60</b> / USD3,678.20 20 credit</p>	<p>2nd Semester <b>RM16,218.00</b> / USD3,604.00 20 credit</p>	<p><b>MASTER OF SCIENCE (TROPICAL MARINE ENVIRONMENT)</b></p>	<p><b>MASTER OF SCIENCE (TROPICAL BIODIVERSITY)</b></p>	<p>1st Semester <b>RM16,551.90</b> / USD3,678.20 20 credit</p>	<p>2nd Semester <b>RM16,218.00</b> / USD3,604.00 20 credit</p>
<p>1st Semester <b>RM5,485.50</b> / USD1,219.00 12 credit</p>	<p>2nd Semester <b>RM6,010.20</b> / USD1,335.60 15 credit</p>	<p>3rd Semester <b>RM5,437.80</b> / USD1,208.40 13 credit</p>	<p><b>MASTER OF SCIENCE IN TROPICAL FISHERIES</b></p>	<p>1st Semester <b>RM12,783.60</b> / USD2,840.80 20 credit</p>	
<p>1st Semester <b>RM11,352.60</b> / USD2,522.80 20 credit</p>	<p>2nd Semester <b>RM6,725.70</b> / USD1,494.60 10 credit</p>	<p>3rd Semester <b>RM6,725.70</b> / USD1,494.60 10 credit</p>	<p><b>MASTER IN MARITIME STUDIES (Full Time)</b></p>	<p>1st Semester <b>RM11,710.35</b> / USD2,602.30 20 credit</p>	<p>2nd Semester <b>RM7,083.45</b> / USD1,574.10 10 credit</p>

### INTAKE MAC

### INTAKE OCTOBER

<p>1st Semester <b>RM7,488.90</b> / USD1,664.20 11 credit</p>	<p>2nd Semester <b>RM5,628.60</b> / USD1,250.80 8 credit</p>	<p>3rd Semester <b>RM6,916.50</b> / USD1,537.00 11 credit</p>	<p>4th Semester <b>RM6,487.20</b> / USD1,441.60 10 credit</p>	<p><b>MASTER IN MARITIME STUDIES (Part Time)</b></p>	<p>1st Semester <b>RM7,488.90</b> / USD1,664.20 11 credit</p>	<p>2nd Semester <b>RM6,916.50</b> / USD1,537.00 11 credit</p>	<p>3rd Semester <b>RM5,628.60</b> / USD1,250.80 8 credit</p>	<p>4th Semester <b>RM6,487.20</b> / USD1,441.60 10 credit</p>
---------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------



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



## TUITION FEES COURSEWORK PROGRAMME - INTERNATIONAL STUDENTS



<b>1st Semester</b> <b>RM8,490.60</b> / USD1,886.80 15 credit	<b>2nd Semester</b> <b>RM4,626.90</b> / USD1,028.20 7 credit	<b>3rd Semester</b> <b>RM6,773.40</b> / USD1,505.20 18 credit	<b>MASTER OF COMPUTER SCIENCE</b>	<b>MASTER OF INFORMATION TECHNOLOGY</b>	<b>1st Semester</b> <b>RM8,490.60</b> / USD1,886.80 15 credit	<b>2nd Semester</b> <b>RM4,626.90</b> / USD1,028.20 7 credit	<b>3rd Semester</b> <b>RM6,773.40</b> / USD1,505.20 18 credit
------------------------------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------	-------------------------------------------	-------------------------------------------------	------------------------------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------

<b>1st Semester</b> <b>RM10,207.80</b> / USD2,268.40 19 credit	<b>2nd Semester</b> <b>RM4,626.90</b> / USD1,028.20 7 credit	<b>3rd Semester</b> <b>RM6,773.40</b> / USD1,505.20 18 credit	<b>MASTER OF MATHEMATICS</b>	<b>MASTER OF STATISTICS IN MARINE SCIENCE</b>	<b>1st Semester</b> <b>RM10,207.80</b> / USD2,268.40 19 credit	<b>2nd Semester</b> <b>RM4,626.90</b> / USD1,028.20 7 credit	<b>3rd Semester</b> <b>RM6,773.40</b> / USD1,505.20 18 credit
-------------------------------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------	----------------------------------	-----------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------

<b>1st Semester</b> <b>RM8,490.60</b> / USD1,886.80 15 credit	<b>2nd Semester</b> <b>RM8,156.70</b> / USD1,812.60 15 credit	<b>3rd Semester</b> <b>RM6,010.20</b> / USD1,335.60 10 credit	<b>MASTER OF MANAGEMENT (INTEGRATED COASTAL ZONE)</b>	<b>MASTER OF BUSINESS ADMINISTRATION</b>	<b>1st Semester</b> <b>RM13,642.20</b> / USD3,031.60 15 credit	<b>2nd Semester</b> <b>RM13,308.30</b> / USD2,957.40 15 credit	<b>3rd Semester</b> <b>RM9,969.30</b> / USD2,215.40 10 credit
------------------------------------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------	-------------------------------------------------------------------	--------------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------------------------------	------------------------------------------------------------------------

<b>1st Semester</b> <b>RM7,202.70</b> / USD1,600.60 12 credit	<b>2nd Semester</b> <b>RM6,868.80</b> / USD1,526.40 12 credit	<b>3rd Semester</b> <b>RM6,868.80</b> / USD1,526.40 12 credit	<b>4th Semester</b> <b>RM6,868.80</b> / USD1,526.40 12 credit	<b>MASTER OF COUNSELLING</b>	<b>MASTER OF ECONOMICS</b>	<b>1st Semester</b> <b>RM8,490.60</b> / USD1,886.80 15 credit	<b>2nd Semester</b> <b>RM7,298.10</b> / USD1,621.80 13 credit	<b>3rd Semester</b> <b>RM6,868.80</b> / USD1,526.40 12 credit
------------------------------------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------	----------------------------------	--------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------



# CHECKLIST FOR GRADUATION REQUIREMENTS

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

**01**

Similar fee for both full time and part time mode.  
Cannot apply mode of study change in maximum semester

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	7 semester
Master	2	6	4	10	4 semesters

**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 (EXTRA 2 SEMESTER after maximum semester):**

- 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)



# HOW TO OBTAIN CLEARANCE FORM (International student)


## CLEARANCE FORM

1. International student obtain eVAL
2. International Centre (IC) counter
3. Medical check up at UMT Medical Centre (RM250)
4. Pay insurance (RM505)
5. IC issued **Clearance Form** to student
6. Register at PPS counter

Immigration Department of Malaysia **does not allow** International student to do **part time** mode unless:

1. Student has working permit in Malaysia
2. Student married to Malaysian/permanent residence
3. Remote Student (fill in the Remote Study Consent Form and submit to IC)

STUDENT'S COPY



UNIVERSITI MALAYSIA TERENGGANU  
International Centre  
E-mail : ic@umt.edu.my Tel : 09-668 4427 Fax : 09-668 4325

CLEARANCE FORM No. : 006971

1. Name : [REDACTED]

2. Passport Number : [REDACTED]

3. Matric No. : [REDACTED]


The above student has paid the insurance premium of RM [REDACTED] and medical report As required by the Ministry of Higher Education (MOHE) Malaysia. Therefore, International centre has no objection to allow this student to register for semester [REDACTED]

(For office use only)  
Issued by: MOHAMED TARMIZI MOHAMED  
Pembantu Tadbir (P/O)  
Fakulti Antarabangsa  
Universiti Malaysia Terengganu  
21030 Kuala Terengganu

Approved by  
SYARIFAH NOORMAISARAH BINTI TUAN BESAR  
Assistant Registrar  
International Centre

(signature and stamp) (signature and stamp)

Clearance Form



UNIVERSITI MALAYSIA TERENGGANU  
21030 Kuala Terengganu, Terengganu, Malaysia  
http://www.umt.edu.my

CENTRE FOR ACADEMIC MANAGEMENT AND QUALITY  
REGISTRATION SLIP : 2021/22-1

MATRIC NO. : P4279  
NAME : NOR AZLAN BIN ARIFFIN  
IC / PASSPORT : 800928115047  
SPONSORSHIP : SELF-SPONSORED  
SEMESTER ENROLLED : 2019/20-2  
TOTAL SEMESTER : 4  
PROGRAMME STRUCTURE : COURSEWORK  
PROGRAMME NAME : MASTER OF MANAGEMENT (MASTER OF BUSINESS ADMINISTRATION)  
FACULTY / INSTITUTE : FPEPS

CODE	COURSE TITLE	CREDIT
MGM5103	OPERATIONS MANAGEMENT	3
MGM5104	BUSINESS RESEARCH METHODS	3
MGM5600	BUSINESS ETHICS IN CORPORATE GOVERNANCE	3
MKT5104	SERVICES MARKETING	3

Total Credit : 12

ENDORSEMENT BY CENTRE FOR ACADEMIC MANAGEMENT AND QUALITY

OFFICIAL STAMP : [Stamp] DATE : 01-NOV-2021

Registration Slip

# REMOTE STUDY FORM (Must be approved by Main Supervisor)



IC/20/2022

## REMOTE STUDY CONSENT FORM

### APPLICANT'S INFORMATION

Full Name : .....

Passport No. : .....

Email : .....

Home Country : .....

Course : .....

Date of enrolment : .....

Faculty/ Institute : .....

Name of Supervisor : 1. ....  
2. ....  
3. ....

Justification of remote study : .....

### DECLARATION

#### A. Student

- 1) I shall follow all rules regarding procedures on remote study.
- 2) I shall consistently update my study progress to the supervisors as scheduled.
- 3) I understand and agree that I am no longer allowed to apply for Student Pass based on the rules set by the Malaysian Immigration.
- 4) I promise not to make any claims that conflict with items 1 till 3.

#### B. Supervisor

1. I agree to give consent to the student under my supervision, as stated above, to undergo his/her study remotely.
2. I understand and agree that the student under my supervision are no longer allowed to apply for Student Pass based on the rules set by the Malaysian Immigration.
3. I promise not to make any claims that conflict with items 1 and 2.

Applicant's signature

Supervisor approval

Name: .....  
Date: .....

Name: .....  
Date: .....

### FOR OFFICE USE

Review:

(Signature and Stamp)



# 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

**KALENDAR AKADEMIK SARJANA KERJA KURSUS SEMESTER I SESI 2026/2027**

27 SEPT 2026-31 OKT 2026 5 Minggu	Proses Pendaftaran Pelajar Baharu dan Semasa Program Sarjana Kerja Kursus Semester I, Sesi Akademik 2026/2027 Permohonan Penangguhan Pengajian	
4 OKT 2026-9 JAN 2027 14 Minggu	Kuliah	Hari Deepavali 8 November 2026 (Ahad) Hari Krismas 25 Disember 2026 (Jumaat) Israk Mikraj 6 Januari 2027 (Rabu)
10 JAN 2027-16 JAN 2027 1 Minggu	Minggu Ulang Kaji	
17 JAN 2027-30 JAN 2027 2 Minggu	Peperiksaan Akhir Semester I	Cuti Tahun Baru Cina 6-8 Februari 2027 (Sabtu-Isnin) Nuzul Al-Quran 24 Februari 2027 (Rabu) Ulang Tahun Pertabalan Sultan Terengganu 4 Mac 2027 (Khamis)
31 JAN 2027-27 FEB 2027 4 Minggu	Cuti Antara Semester	

PUSAT PENGURUSAN SISWAZAH UMT

**KALENDAR AKADEMIK SARJANA PENYELIDIKAN & DOKTOR FALSAFAH SEMESTER I SESI 2026/2027**

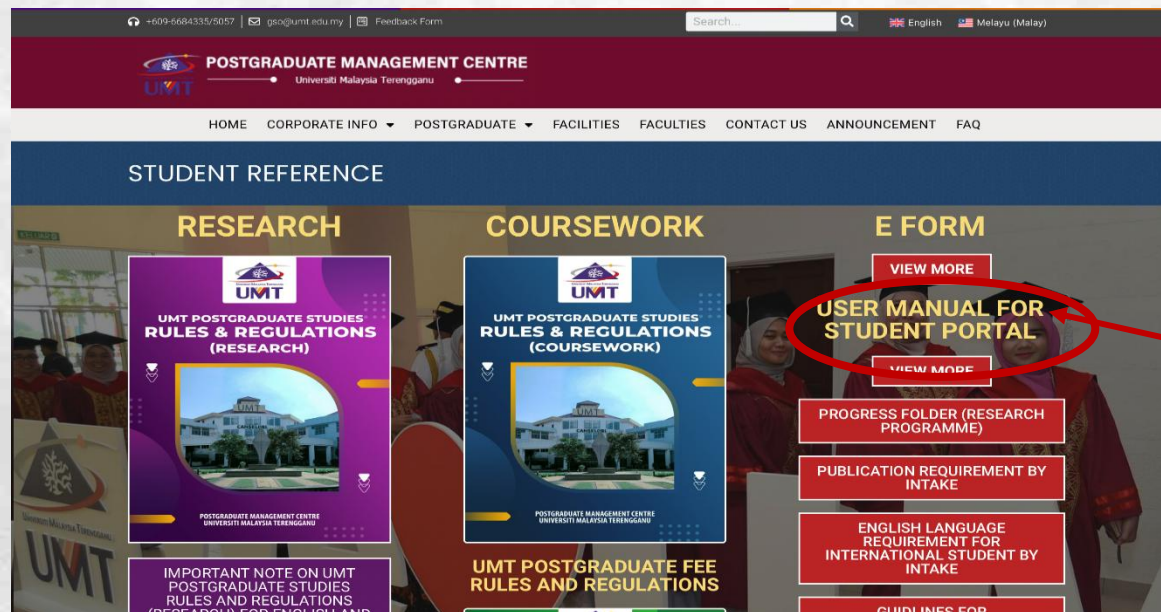
27 SEPT 2026-31 OKT 2026 5 Minggu	Proses Pendaftaran Pelajar Baharu dan Semasa Program Sarjana Penyelidikan dan Doktor Falsafah Semester I, Sesi Akademik 2026/2027 Permohonan Penangguhan Pengajian	
4 OKT 2026-9 JAN 2027 14 Minggu	Aktiviti Penyelidikan	Hari Deepavali 8 November 2026 (Ahad) Hari Krismas 25 Disember 2026 (Jumaat) Israk Mikraj 6 Januari 2027 (Rabu)
10 JAN 2027-30 JAN 2027 3 Minggu	Penilaian Laporan Kemajuan Penyelidikan Semester I	Cuti Tahun Baru Cina 6-8 Februari 2027 (Sabtu-Isnin) Nuzul Al-Quran 24 Februari 2027 (Rabu) Ulang Tahun Pertabalan Sultan Terengganu 4 Mac 2027 (Khamis)

PUSAT PENGURUSAN SISWAZAH UMT



# REGISTRATION FOR CURRENT STUDENT

- **ONLINE (Until WEEK 10)** – full fee applies
- **MANUAL** – for those who have submitted their thesis until they have received the senate letter for graduation  
(PAY THE TUITION FEE via Billpliz/JomPay AND EMAIL PROOF OF PAYMENT TO [gs.daftar@umt.edu.my](mailto:gs.daftar@umt.edu.my))
- **Registration after WEEK 4 - LATE REGISTRATION FINE OF RM100 will be applied**



The screenshot shows the website interface for the Postgraduate Management Centre at UMT. The main navigation bar includes 'HOME', 'CORPORATE INFO', 'POSTGRADUATE', 'FACILITIES', 'CONTACT US', 'ANNOUNCEMENT', and 'FAQ'. The 'STUDENT REFERENCE' section is highlighted, featuring three main categories: 'RESEARCH', 'COURSEWORK', and 'E FORM'. Under 'E FORM', the 'USER MANUAL FOR STUDENT PORTAL' link is circled in red, with a red arrow pointing to a callout box on the right. Other links in the 'E FORM' section include 'VIEW MORE', '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



# WHY YOU CANNOT LOGIN MyNemo STUDENT ACCOUNT?

## 1. You do not remember your password

- Please contact ICT section at <https://aduanict.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 or withdrawal case, 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 (in SPS system).



OfficialUMT



# 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**



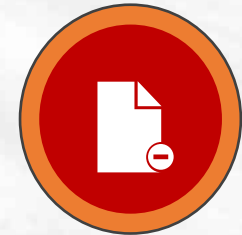
## **Good Standing (KB) (Kedudukan Baik)**

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 Pure and Applied Science
- 4. **PPS5041** Research Methodology in Computer Science and Mathematics
- **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

#### Proposal Presentation

- Proposal 70%
- Oral Presentation 30%
- **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)

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

**04**

### **FULL TIME STUDENT**

Must pass CA **within four (4) semesters for PhD OR two (2) semesters for Master**

### **PART TIME STUDENT**

Must pass CA **within eight (8) semesters for PhD OR four (4) semesters for Master**

All students must undergo CA conducted by the faculty/institute/centre.

### **Maximum of 3 attempts are given.**

Failure to pass the CA in the stipulated period, students will be terminated (GB).

Present **proposal** in a Candidature Defense session. The members of the committee comprise of two (2) assessors for Master/PhD.

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

# CHECKLIST FOR GRADUATION REQUIREMENTS

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

05

Publication requirement (accepted/published **journal article**) may vary with student intake

All publication will be verified by UMT Library (PSNZ)

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

2. **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:

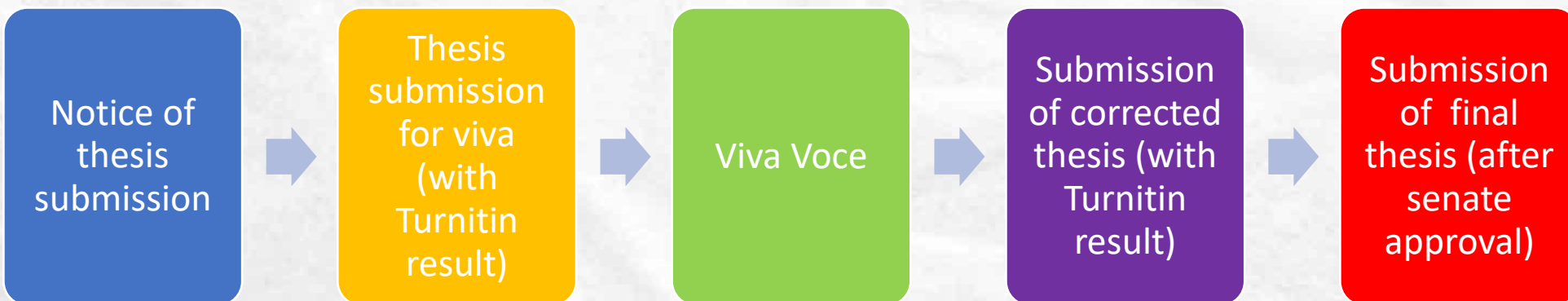
Programme	Requirements of Publication	Type of Publication
PhD	At least:- 2 journal articles (accepted)	Clarivate Analytics Web of Science (CA-WoS) /Scopus Journal
Master	At least:- 1 journal article (accepted)	Clarivate Analytics Web of Science (CA-WoS) /Scopus /MyCite Journal

- 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

## THESIS EXAMINATION AND VIVA VOCE

06



# CHECKLIST FOR GRADUATION REQUIREMENTS

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

**06**

## UMT Postgraduate Thesis Submission Workflow

A Clear, Step-by-Step Administrative Roadmap for Graduation at Universiti Malaysia Terengganu.

### PHASE 1: NOTICE OF THESIS SUBMISSION



### PHASE 2: FINAL THESIS SUBMISSION



# CHECKLIST FOR GRADUATION REQUIREMENTS

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

**06**

## Navigating Your Viva Voce: The Step-by-Step Thesis Examination Process

### Step 1: Viva Call & Invitation



### Step 1: Viva Call & Invitation

Faculty issues an official invitation letter with a copy sent to the PPS.

### Step 2: The Viva Process



### Step 2: The Viva Process

The formal oral defense and thesis examination are conducted at the faculty level.

### Step 3: Results & Decision



### Step 3: Results & Decision

The final examination decision is recorded and a copy is sent to PPS.

### Step 4: System Status Update



The Postgraduate Management Centre (PPS) updates student status to "Active Viva."



### Requirement Fulfilled: Passed Viva Voce

Completion of these steps satisfies the "Passed Viva Voce" graduation requirement.

# 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) or withdrawal

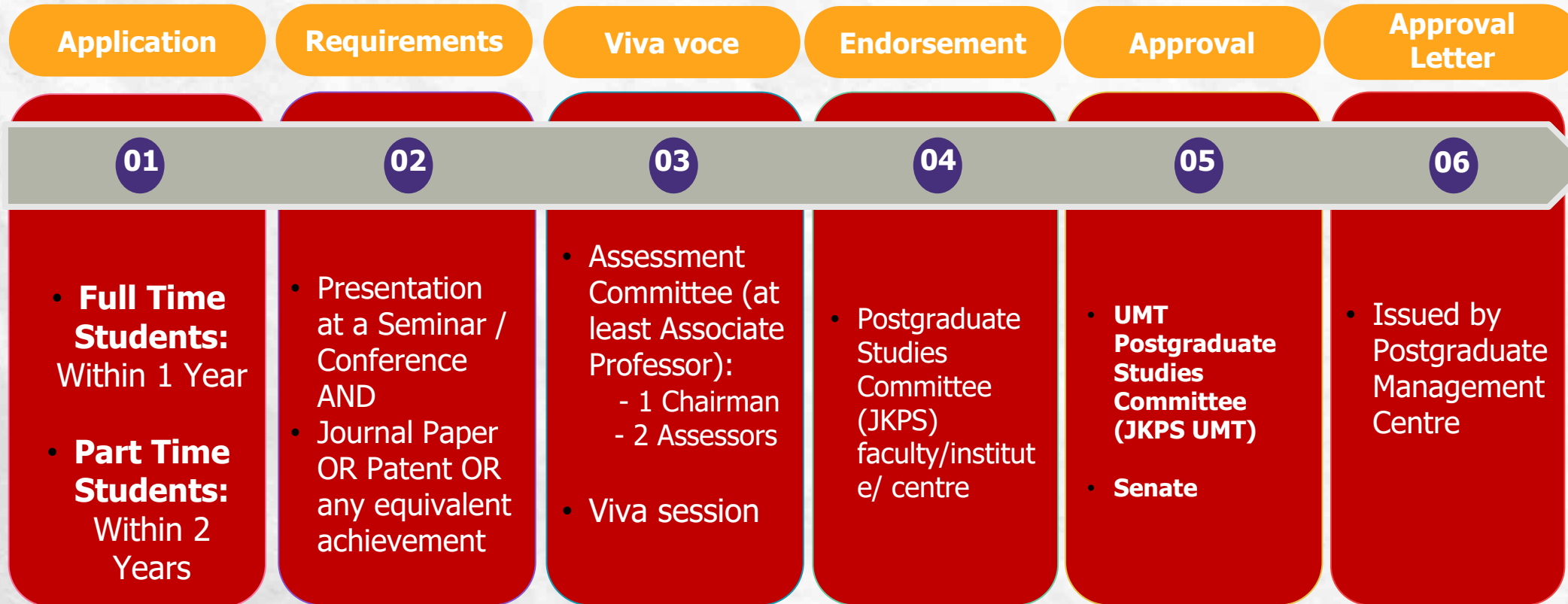
- Application: Made to Postgraduate Management Centre
- Lapsed time for Application: Not more than 1 year after termination/withdrawal letter was issued
- Approval: Postgraduate Committee of faculty/institute/centre
- Application after 1 Year Period: Apply new admission
- Have to pay the outstanding fee for the GN semesters as well

4



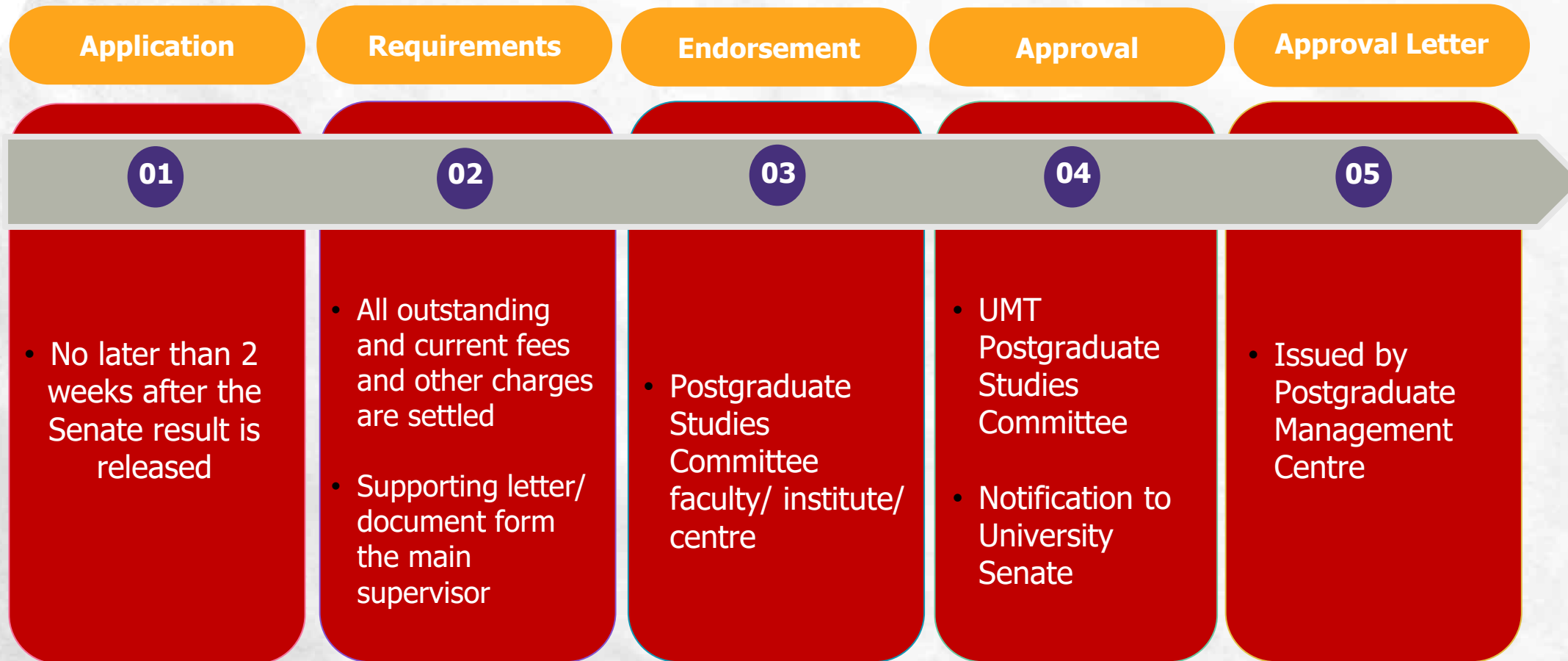
# IMPORTANT POINTS IN POSTGRADUATE RULES & REGULATIONS (BY RESEARCH) 2023

**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
- **For joint/double degree – extra 1 examiner from host university**

### 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 that 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 student must be physically present in viva voce, except for those who have been granted exemption by dean/director of faculty/institute/centre
  - ✓ 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

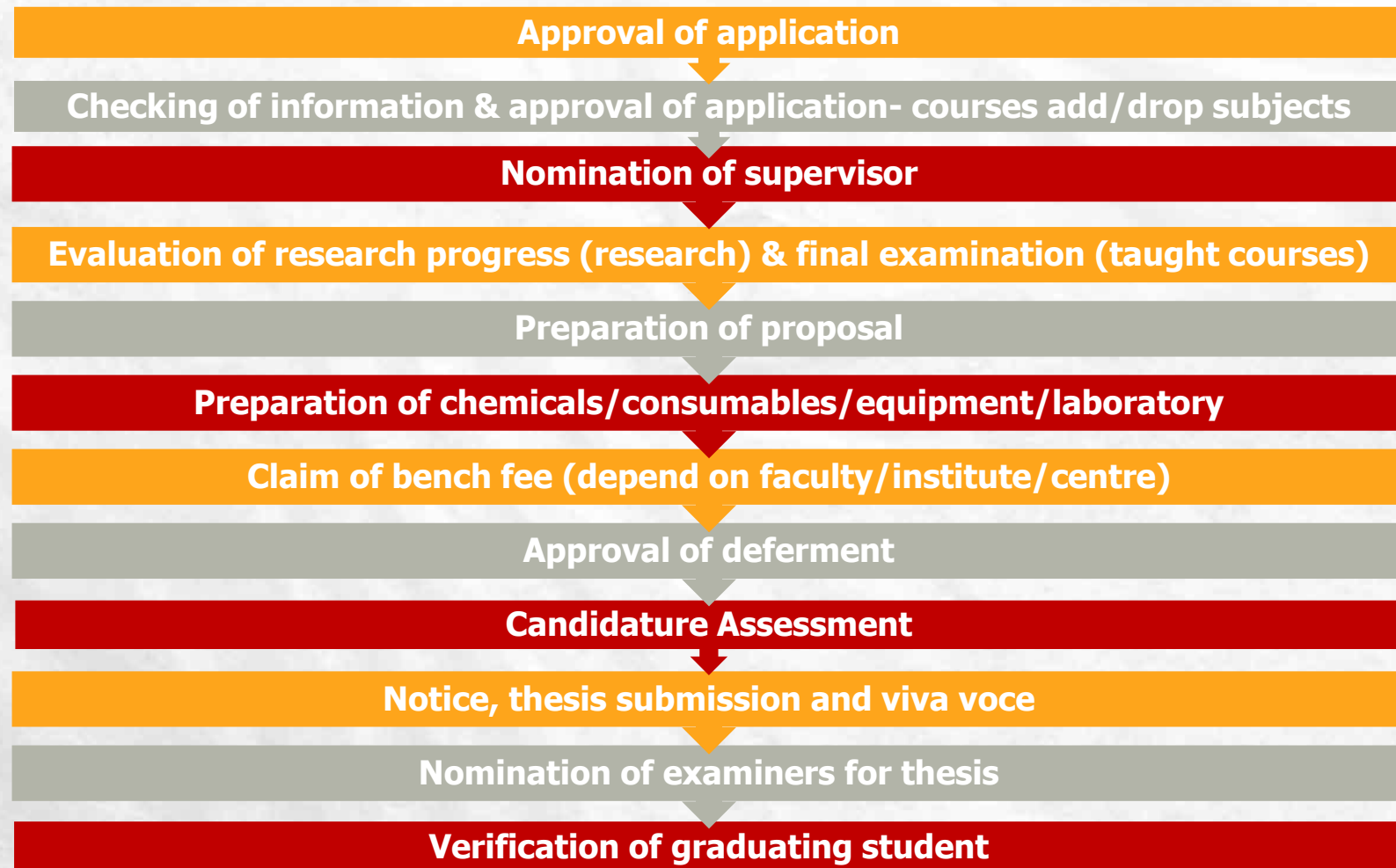
### Appeal on Thesis Examination Result

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

A candidate who fails to submit the amended thesis within the approved time is deemed to have the thesis rejected

# 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



# ETHICS IN RESEARCH

- All researchers must perform research ethically
- Research Management Office UMT has issued Guideline on Research Ethics
- Research involving animal, human subjects, harmful microbes/chemical must apply for ethical approval from RMC
  - Animal study
  - Biosafety and Biosecurity
  - Human
- The lecturer can obtain the related form from Mynemo; Student can obtain the related form from e-form in PPS website



# BENCH FEE/RESEARCH FINANCIAL AID

- Bench fee (or research fee) is charged in 1<sup>st</sup> semester.
- **Science category** - RM1000 MSc; RM2000 PhD
- **Social Science category** - RM500 MSc; RM1000 PhD
- Bench fee application must be approved by the Dean/ Director of faculty/institute/centre (online system)
- Unused bench fee by graduated students will be pooled by faculty/institute/centre for general postgraduate studies/activities
- **ALL student** is eligible to claim conference fee **once** throughout the study (maximum of RM600) (claim from PPS)
- For **SCIENCE CATEGORY ONLY**, starting 1<sup>st</sup> June 2022, students may **opt** to refund for laboratory service fee/sample and chemicals purchasing (maximum of RM600) – after student bench fee has finished
- Publication incentive - for graduating student who have published journal article (WOS/Scopus indexed) as main/corresponding author more than the graduation requirements (related to his/her thesis) – eligible for study fee reimbursement





# FINANCIAL AID

## Research Aid for Postgraduate Research Students (Science Category)

**Effective from  
Intake  
Semester 1  
Academic  
Session  
2023/2024  
onwards**

- Refund claim for laboratory service/analysis/facility/chemicals or samples purchase/expenses approved under Bench fees)
  - MSc – Maximum RM800
  - PhD – Maximum RM1600
- **Requirements:**
  - The student has zero/insufficient balance of Bench Fees at the faculty/institute
  - Active student (not submitted thesis yet)
  - Not eligible for student on deferment
  - No outstanding fees
  - Not eligible to recipients of BTC/BUMT




# FINANCIAL ASSISTANCE



**REFUND FOR LABORATORY SERVICE/CHEMICAL OR SAMPLE PURCHASE**

**ATTENDING CONFERENCE/SEMINAR/MOBILITY PROGRAMME**





**POSTGRADUATE RESEARCH AID (SCIENCE CATEGORY)**

APPLICATION FORM FOR POSTGRADUATE RESEARCH FUNDING SCHEME FOR ANALYSIS/EQUIPMENT USAGE/FACILITY AT UMT LABORATORIES

APPLICATION FORM FOR REFUND OF LABORATORY SERVICE/ ANALYSIS/FACILITY/CHEMICAL OR SAMPLE PURCHASE AND OTHER FEES STATED BY BENCH FEES

**APPLICATION REQUIREMENTS:**

- RESEARCH MADE IN SCIENCE
- ACTIVE STUDENTS WHO HAVE NOT SUBMITTED THESIS (EXCLUDING THOSE WHO DEFERRED THEIR STUDIES DURING APPLICATION)
- BENCH FEES HAVE BEEN FULLY USED
- NOT APPLICABLE TO RECIPIENT OF UMT SCHOLARSHIP
- NO OUTSTANDING FEES DUE

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POSTGRADUATE MANAGEMENT CENTRE

**ANNOUNCEMENT**


POSTGRADUATE PUBLICATION INCENTIVE SCHEME (PPIS)

**MASTER AND PhD STUDENT**






- PPS also provide financial assistance for faculty/institute/centre to organize 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 =  $RM50 \times \text{Total PG students at PTj (taught course \& research structure)}$
- We are open to suggestion of training for PG from faculty/institute/centre



## PERUNTUKAN PEMBANGUNAN KOMPETENSI AKADEMIK PASCASISWAZAH

### KRITERIA

- Pengiraan kelayakan tahunan Fakulti/Institut/Pusat adalah berdasarkan jumlah bilangan pelajar di Fakulti/Institut/Pusat
- Peruntukan RM50.00 bagi seorang pelajar
- Contoh pengiraan :  $RM50.00 \times 250 \text{ pelajar} = RM12,500.00$
- Hanya program yang melibatkan pembangunan kompetensi akademik sahaja akan dipertimbangkan
- Fakulti/Institut/Pusat boleh mengadakan satu atau beberapa program tertakluk kepada baki peruntukan tahunan

### PERMOHONAN

- Surat Permohonan dan Kertas Pertimbangan hendaklah dihantar ke Pusat Pengurusan Siswazah seawat-lewatnya sebulan sebelum program dilaksanakan
- Permohonan akan dibawa untuk pertimbangan Mesyuarat Jawatankuasa Tabung Kebajikan Pelajar Pascasiswazah

Sebarang Pertanyaan Sila Hubungi  
Puan Aizan Ibrahim  
Tel: 09-6684393  
aizan@umt.edu.my

POSTGRADUATE MANAGEMENT CENTRE



# POSTGRADUATE STUDENT WELFARE



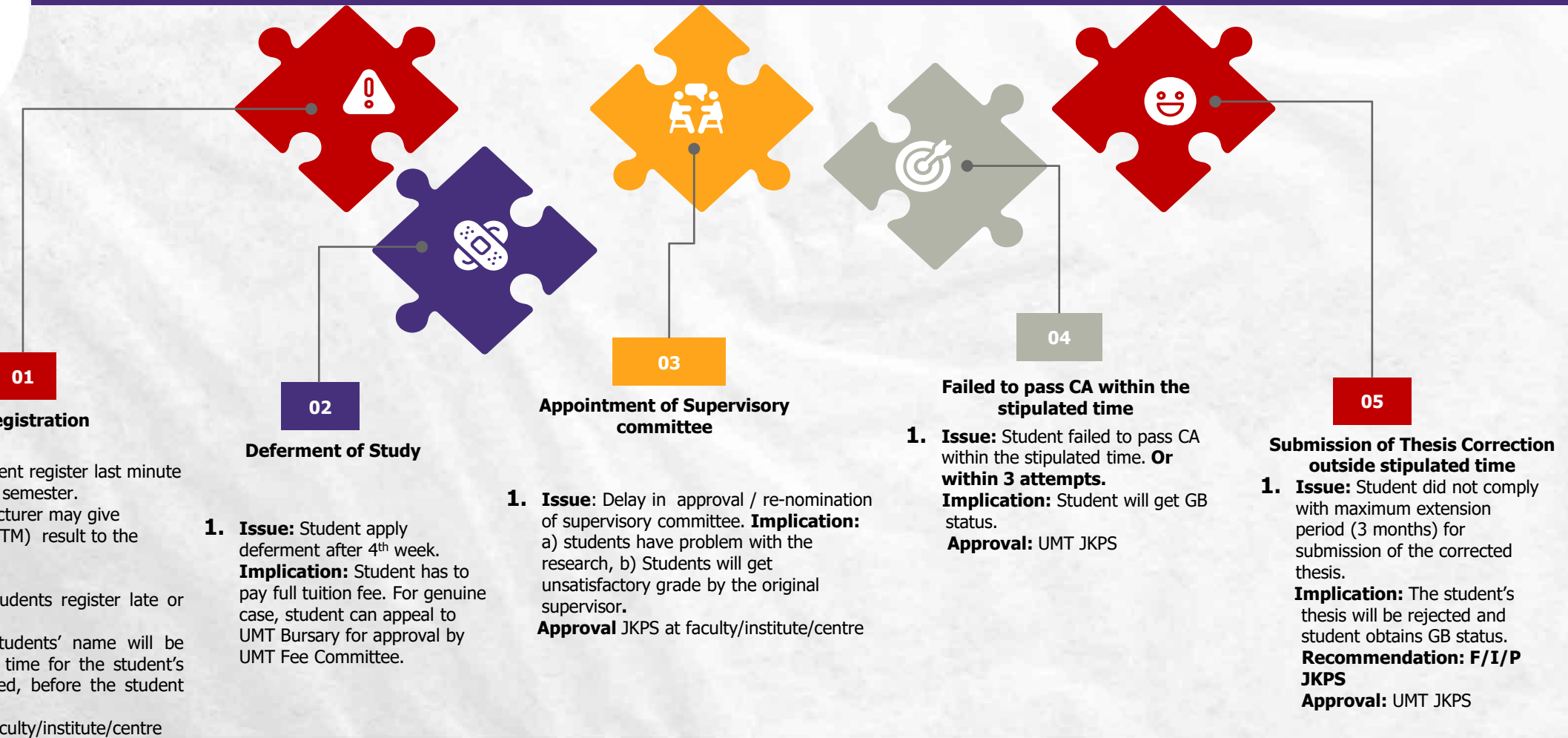
All students are covered by insurance (for permanent disability or death)  
Medical facilities- University Medical Centre (PKU) government hospital/clinic, admission to government hospital ward (maximum RM2500/admission)



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



# COMMON ISSUES FOR POSTGRADUATE STUDIES (BY RESEARCH)



# MODULE LO SYSTEM

## UMT Module LO System: Streamlining Research Outcomes

### Core System Functions

#### Assessment Mapping

Aligning assessments directly to CLO, PLO, and PEO standards.



#### 100% Rubric-Based

Systematic rubrics are utilized for all research assessments within the module.

100%



#### Automated Attainment Tracking

Student CLO and PLO achievement data is captured directly from the system.



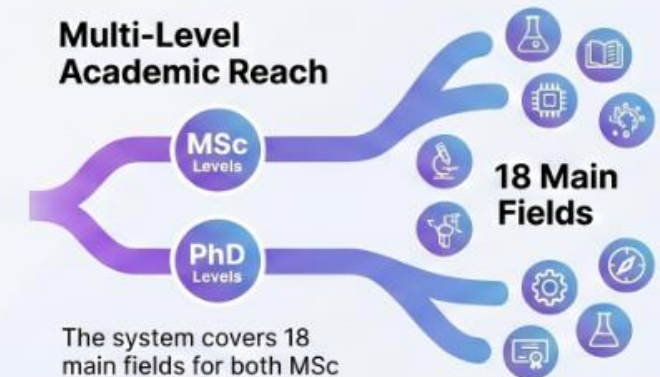
### Program Scope & Accreditation



#### COPPA Compliance

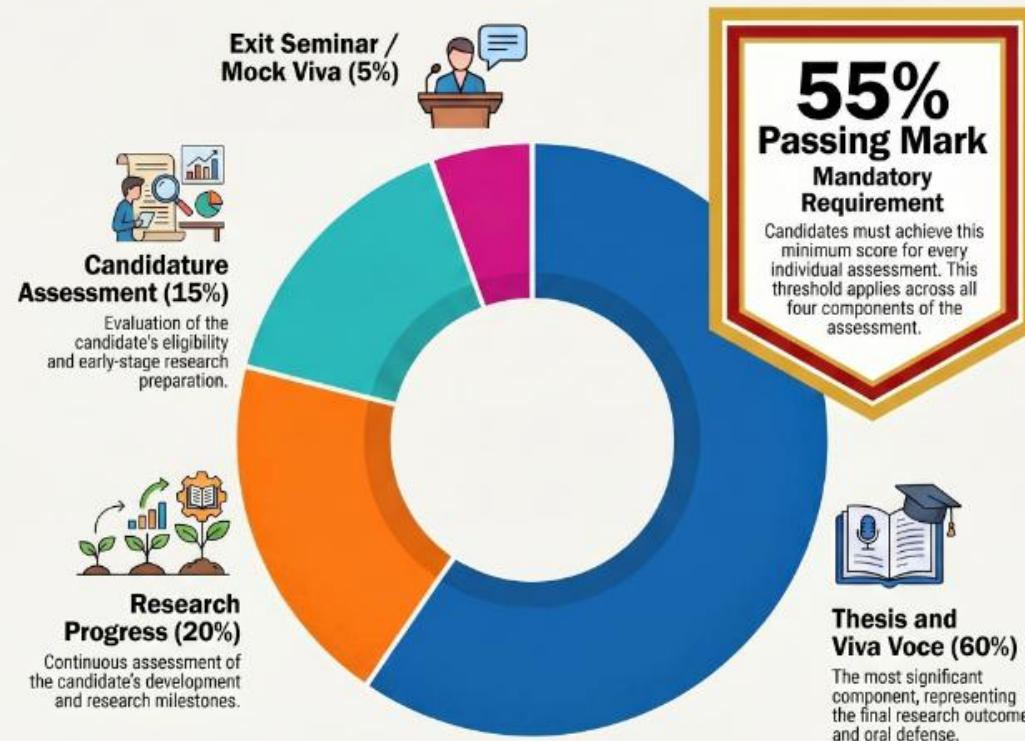
Research structure programs are prepared according to Code of Practice for Programme Accreditation.

#### Multi-Level Academic Reach



The system covers 18 main fields for both MSc and PhD levels.

## Postgraduate Assessment Weightage Breakdown





# GENERAL FACILITIES @ UMT



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# UMT MAPS



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# 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

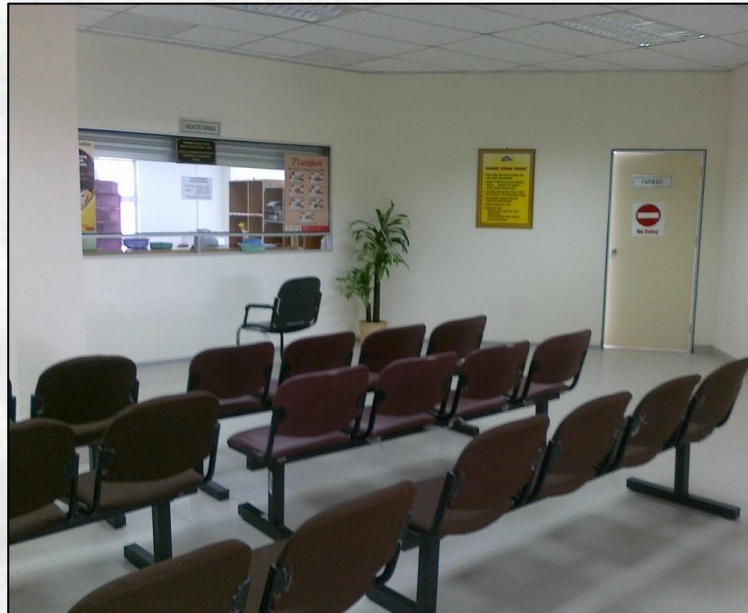


**SULTAN MIZAN HALL**



**SULTANAH NUR  
ZAHIRAH LIBRARY**

# UMT FACILITIES



**MEDICAL CENTER**



**MARMORIS HOUSE**



# UMT FACILITIES (SPORT COMPLEX)

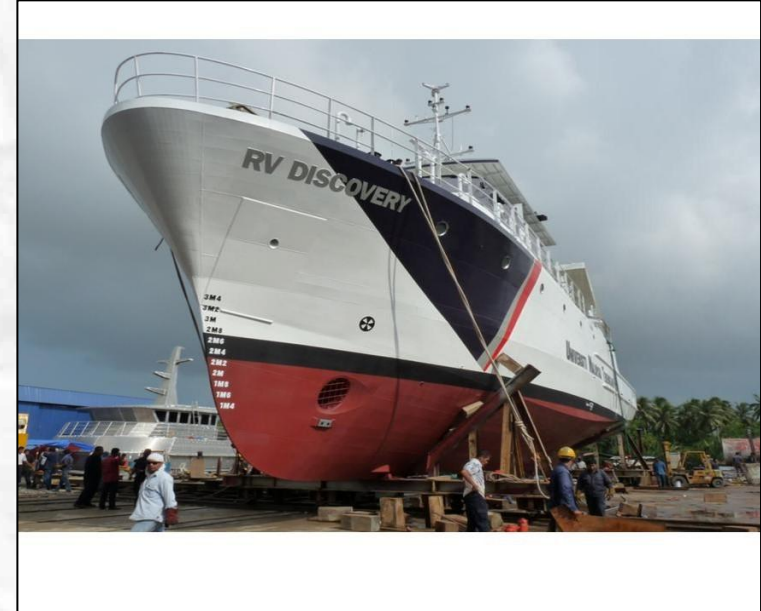


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# UMT FACILITIES



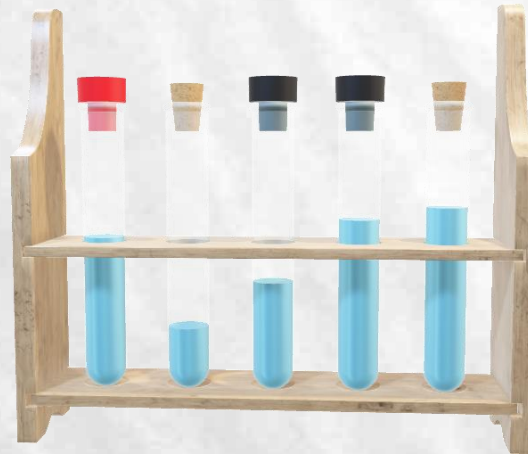
**UMT BUS**



**RESEACRH VESSEL**



# FACILITIES @ CENTRAL LABORATORY, UMT



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# LABORATORY FACILITIES

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

**ION CHROMATOGRAPHY**

BRAND: IAS COMPACT ION CHROMATOGRAPHY PROFESSIONAL

**FUNCTION:** Application of cation & anion eluent for analyzing & identification of cation & anion species in liquid samples.

**GCMS**

BRAND: GCMS QP-2010 ULTRA SHIMADZU

**FUNCTION:** Sample profiling based on library search for unknown samples or test of quantitative analysis of a very low concentration.

**GC-FID**

BRAND: GC-FID 2010, SHIMADZU

**FUNCTION:** Measuring concentration of organic compound. Used specifically for hydrocarbon & fatty acid methyl ester.

**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 for target components. Analysis: Pesticides, chemistry, environment & food product.

**SURFACE AREA & POROSITY ANALYZER**

BRAND: MICROMERITICS / ASAP 2020

**FUNCTION:** Determination of surface areas & pore sizes. Analysis: catalysts & activated carbon.

**THERMOGRAVIMETRIC ANALYZER**

BRAND: METTLER TOLEDO TGA DSC 1

**FUNCTION:** To measure the change in physical & chemical properties of materials characterized through analysis of decomposition patterns.

**TOTAL ORGANIC CARBON & NITROGEN ANALYZER**

BRAND: TOC & DONOR 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 & nutrient 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**

BRAND: METROHM

**PH METER**

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

BRAND: BUCHI-B-585

**GLASS OVEN KUGELROHR**

**FUNCTION:** Used for distillation, sublimation, freeze-drying or drying of small samples.

BRAND: AM4815ZT DINO-LITE EDGE

**DINO EYE**

**FUNCTION:** To observe fresh sample direct from its original location & providing a clear image & the sample.

BRAND: MEMMERT

**WATERBATH**

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

BRAND: ELMA

**ULTRASONIC BATH**

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

BRAND: CUSTOM MADE

**GRINDER**

**FUNCTION:** Machine tools used for grinding hard samples to powder form.

BRAND: LAB BLENDER

**WARING BLENDER**

**FUNCTION:** Allows for mixing, stirring, blending, or homogenizing of laboratory samples.

BRAND: FAVORIT WC34L

**WATER DISTILLER**

**FUNCTION:** To produce distilled water.

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**COMPOUND MICROSCOPE**

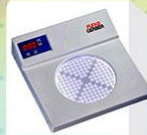
**FUNCTION:**  
Used for viewing samples at high magnification, which is achieved by the combined effect of two sets of lenses: ocular and objective lenses. Synonym with microbial observation.

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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**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.



**BIO SAFETY 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.



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# LIST OF INSTRUMENTS



## 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-8

### FUNCTION:

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



## INCUCELL INCUBATOR

BRAND: MMM/MC000724

### FUNCTION:

Suitable for safe treatment of microbiological 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: NAMYFT90E

### 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 / ELF23B/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.



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# LIST OF INSTRUMENTS



## 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.



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**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, owter 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.

