



**TAWHIDIC EPISTEMOLOGY** **UMMATIC EXCELLENCE**  
**LEADING THE WAY** **LEADING THE WORLD**  
KHALĪFĀH • AMĀNAH • IQRĀ' • RAHMATAN LIL-ĀLĀMĪN

**DEPARTMENT OF BASIC MEDICAL SCIENCES**  
**KULLIYAH OF MEDICINE**  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

# NON-CLINICAL POSTGRADUATE HANDBOOK

*Academic Session 2025/2026*

Updated: October 2025

MASTER OF MEDICAL SCIENCES,  
MASTER OF HEALTH SCIENCES  
&  
PhD IN HEALTH SCIENCES

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Any absence due to sickness or any unforeseen circumstances must be notified to the course coordinators as soon as possible and must be supported by suitable documentation e.g. sick certification.

# ACADEMIC STAFF

## Anatomy/Histology

- Assoc. Prof. Dr. Zunariah Buyong
- Asst. Prof. Dr. Yusoff Sharizal Yusoff Azmi Merican
- Asst. Prof. Dr. Hazulin Mohd. Radzuan
- Asst. Prof. Dr. Shahida Saharudin
- Asst. Prof. Dr. Wan Muhamad Salahudin Wan Salleh
- Asst. Prof. Dr. Khodijah Zulkiflee
- Asst. Prof. Dr. Faridah Ismail
- Asst. Prof. Dr. Nurulhasanah Mustapar (Study leave)

## Physiology

- Assoc. Prof. Dr. Roslina Abd Rahim
- Assoc. Prof. Dr. Maizura Mohd Zainudin
- Asst. Prof. Dr. Aszrin Abdullah
- Asst. Prof. Dr. Wan Fatein Nabeila Wan Omar
- Asst. Prof. Dr. Norbaiyah Mohamed Bakrim
- Asst. Prof. Dr. Azril Shahreez Abdul Ghani

## Biochemistry

- Prof. Dr. Sirajudeen Kuttulebbai Naina Mohamed Salam
- Assoc. Prof. Dr. Nor Zamzila Abdullah (Chemical Pathology)
- Asst. Prof. Dr. Noraihan Mat Harun
- Asst. Prof. Dr. Nurul Ashikin Muhammad Musa
- Asst. Prof. Dr. Wan Zurainah Sazali (Chemical Pathology)
- Dr. Mohd Afzal Alias (Study leave)

## Microbiology/Immunology/ Parasitology

- Assoc. Prof. Dr. Hairul Aini Hamzah
- Asst. Prof. Dr. Soraya Ismail
- Asst. Prof. Dr. Hanan Hamimi Wahid
- Asst. Prof. Dr. Aniza Pakeer Oothuman
- Asst. Prof. Dr. Mohd Asyraf Abdull Jalil
- Asst. Prof. Dr. Norhidayah Kamarudin (Clinical Microbiology)
- Asst. Prof. Dr. Nurdiyana Mohamed (Clinical Microbiology)

## Pharmacology

- Assoc. Prof. Dr. Wael Mohamed Yousef Mohamed
- Asst. Prof. Dr. Mohd Fadly Mohd Noor
- Asst. Prof. Dr. Nour El Huda Abd Rahim
- Asst. Prof. Dr. Hidayatul Radziah Ismawi
- Dr. Siti Norain Mat Rasid (Study leave)

Pathology/Chemical Pathology/Haematology/Histopathology

- Assoc. Prof. Dr. Nor Zamzila Abdullah (Chemical Pathology)
- Assoc. Prof. Dr. Norlelawati A. Talib (Haematopathology)
- Asst. Prof. Dr. Asmah Hanim Hamdan (Histopathology)
- Asst. Prof. Dr. Azliana Abd Fuaat (Histopathology)
- Asst. Prof. Dr. Khairunnisa Ahmad Affandi (Histopathology)
- Asst. Prof. Dr. Dhamirah Nazihah Mohd. Nasiruddin (Haematopathology)
- Asst. Prof. Dr. Sarah Abdul Halim (Haematopathology)
- Asst. Prof. Dr. Wan Zurainah Sazali (Chemical Pathology)
- Dr. Ramlah Mohamed Ibrahim (Study leave - Haematology)

# NON-ACADEMIC STAFF

<b>Name</b>	<b>Post/ Section</b>
Sr. Fatiyah Shaïd Khalid	<i>Administrative Assistant (PA, BMS)</i>
Sr. Nur Aimi Binti Azman	<i>Administrative Assistant (PA, PALM)</i>
Br. Kyairul Anuar Jamaluddin	<i>Medical Laboratory Technologist (BMS)</i>

## **Science Officers**

Sr. Siti Aisyah Hassan	<i>Anatomy &amp; Medical Museum</i>
Sr. Madia Baizura Baharom	<i>Microbiology/ Parasitology/ Physiology/Pharmacology</i>
Sr. Aini Rahayu Samsudin	<i>Biochemistry/Molecular/Proteomics</i>
Br. Mohd Shahrul Fadzli	<i>Pathology &amp; Laboratory Medicine</i>
Imaduddin	

## **Senior Medical Laboratory Technologists**

Br. Aidil Azhar Dubi	<i>Chief MLT</i>
Br. Zulnizam Azdan	<i>Microbiology/ Parasitology/ Physiology/Pharmacology</i>

## **Medical Laboratory Technologists**

Anatomy & Medical Museum

- Br. Muhammad Faiz Miskam
- Br. Mohd Dhiyaulhaq Halim
- Sr. Ain Aizuren Hanafi

Microbiology /Parasitology/Physiology/Pharmacology

- Br. Zulnizam Azdan
- Sr. Hanizah Noor Awalludin
- Br. Mohd Qusyairi Azli Mohd Azhar
- Sr. Nor Zaimah Abdul Razak
- Br. Mohd Shariffuddin Hassan
- Sr. Nur Ismalieyana Mohd Nizam

Biochemistry, Molecular & Proteomics

- Br. Aidil Azhar Dubi
- Br. Azri Rasid
- Br. Saiful Fairul Abu Bakar
- Sr. Rina Dahari
- Sr. Khalisa Ahmad

Histopathology & Haematopathology

- Sr. Wan Norulksamisa Wan Muda
- Sr. Nuur Farhana Zulkefli

Mortuary Attendants (Museum & Dissection Hall)

- Br. Mohamad Awang
- Br. Naazrai Abdul Wahab
- Br. Muhammad Syafiq Said (Health Attendant)

# **WELCOME**

**TO THE POSTGRADUATE PROGRAMMES MASTER OF MEDICAL SCIENCES,  
MASTER OF HEALTH SCIENCES AND PhD IN HEALTH SCIENCES**

This handbook is a guidebook to assist students throughout their study period. It contains important information about the postgraduate programmes, policies and resources that enable students to better navigate their academic journey and get most out of their student experience.

This guidebook is to be read together with the following documents:

- International Islamic University Malaysia Postgraduate Regulations (Revised 2022).
- All information disseminated through i-Ma'alum or IIUM Centre of Postgraduate Study (CPS) website.
- All information disseminated through the Kulliyyah's Postgraduate Office or your respective departments' Postgraduate Programme Coordinator.

This guidebook was first issued in August 2023 and is being reviewed from time to time if any important new information or requirements becomes available. All efforts were made to ensure references quoted and link provided are the most current at the time of publication.

# ADMISSION REQUIREMENT

## 1. General requirements

These will conform to the Postgraduate Regulations of the University and MQA Master's and Doctoral Standards

## 2. First Degree

Candidates will require a relevant Bachelor's degree (honours) from the IIUM or any other accredited institution of higher learning OR

Any other certificates that are recognised as equivalent to a Bachelor's degree (honours) or other relevant professional qualifications and experiences that are recognized by the Senate of the University.

As far as possible, BSc / M.Sc holders are advised to choose a MMDSc / MHSc PhDSc programme in the same discipline as their bachelor / master's degree. Non-medical degree (MBBS or equivalent) candidates are also required to take a minimum of two (2) credit hours of the relevant Special Requirement Course in their discipline of study during the first semester together with the compulsory Programme-Required courses.

Fulfil the necessary requirements and have obtained a certificate of APEL A issued by the Malaysian Qualification Agency (MQA).

## 3. Entrance tests

Submission of satisfactory test scores of an internationally recognized graduate test will be considered for those holding first degrees from institutions of higher learning that are not accredited by the Ministry of Higher Education. They may also have to sit an Aptitude Test if deemed necessary by the Kulliyah of Postgraduate Committee.

## 4. Professional references

As required in the postgraduate studies application form.

## 5. Character references

As required in the postgraduate studies application form.

## 6. Personal interview

Telephone or online interviews may be carried out by the department if deemed necessary.

## 7. Financial Documentation

Proof of financial sponsorship for the duration of the course is necessary as stipulated in the application form.



# TUITION FEES

<https://division.iium.edu.my/finance/tuition-fees/>

## MASTER PROGRAMME

### 1. Estimated Total Programme Fees for **International and Permanent Resident Student (Full-time)**

	IIUM Tuition Fees		Programme Strudture		Total Tuition Fees	Other Fees					
						Recurrent Fees		Yearly Fee	One-off Fees		
	Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Takaful	Entrance Fees	Evaluation Fee	Graduation Fee
	RM	RM			RM	RM	RM	RM	RM	RM	RM
Coursework and Research	840.00	4,800.00	28	2 semesters	33,120.00	960.00	1,500.00	500.00	1,490.00	2,200.00	250.00
Research Only	-	4,800.00	N/A	4 semesters	19,200.00	960.00	1,500.00				

### 2. Estimated Total Programme Fees for **Local Student (Full Time)**

	IIUM Tuition Fees		Programme Structure		Total Tuition Fees	Other Fees				
						Recurrent Fees		One-off Fees		
	Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Entrance Fees	Evaluation Fee	Graduation Fee
	RM	RM			RM	RM	RM	RM	RM	RM
Coursework and Research	280.00	2250.00	21	2 semesters	10,380.00	650.00	1000.00	840.00	2,200.00	250.00
Research Only	-	650.00	N/A	4 semesters	2,600.00	650.00	1000.00	840.00	2,200.00	250.00

### 3. Estimated Total Programme Fees for **Local Student (Part Time)**

	IIUM Tuition Fees		Programme Structure		Total Tuition Fees	Other Fees				
						Recurrent Fees		One-off Fees		
	Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Entrance Fees	Evaluation Fee	Graduation Fee
	RM	RM			RM	RM	RM	RM	RM	RM
Coursework and Research	280.00	1125.00	28	4 semesters	12,340.00	625.00	1000.00	760.00	2,200.00	250.00
Research Only	280.00	325.00	N/A	8 semesters	2,600.00	625.50	1000.00	760.00	2,200.00	250.00

## PhD PROGRAMME

### 4. Estimated Total Programme Fees for **International and Permanent Resident** Student

IIUM Tuition Fees		Programme Strudture		Total Tuition Fees	Other Fees					
					Recurrent Fees		Yearly Fee	One-off Fees		
Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Takaful	Entrance Fees	Evaluation Fee	Graduation Fee
RM	RM				RM	RM	RM	RM	RM	RM
1,500.00	6,000.00	N/A	6 semesters	36,000.00	960.00	1,500.00	500.00	1,490.00	2,800.00	250.00

### 5. Estimated Total Programme Fees for **Local Student (Full Time)**

IIUM Tuition Fees		Programme Structure		Total Tuition Fees	Other Fees				
					Recurrent Fees		One-off Fees		
Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Entrance Fees	Evaluation Fee	Graduation Fee
RM	RM			RM	RM	RM	RM	RM	RM
250.00	1,750.00	N/A	6 Semesters	10,500.00	650.00	1,500.00	840.00	2,800.00	250.00

### 6. Estimated Total Programme Fees for **Local Student (Part Time)**

IIUM Tuition Fees		Programme Structure		Total Tuition Fees	Other Fees				
					Recurrent Fees		One-off Fees		
Coursework Fee (Per Credit Hour)	Research Fee (Per Semester)	Total Credit Hour Registered	Total Research Subject Registered		Recurrent Fees Per Semester	Bench Fee Per Semester	Entrance Fees	Evaluation Fee	Graduation Fee
RM	RM			RM	RM	RM	RM	RM	RM
250.00	875.00	N/A	12 Semesters	10,500.00	625.00	1,500.00	760.00	2,800.00	250.00

**Disclaimer:** The total tuition fees shown here are approximations. The tuition fees per semester will depend on credit hours and research registered. Please refer to the original documents published by Finance Division in the link above.

## DURATION OF STUDIES

Students can opt to do their programme either full-time or part-time. There is some amount of flexibility to the duration and status of the study period but it has to follow the university's Postgraduate Policies and Regulations.

### Master of Medical Sciences & Master of Health Sciences

Status	Minimum	Normal	Maximum
Full-time	1 academic years	2 academic years	3 academic years
Part-time	2 academic years	4 academic years	5 academic years

### PhD of Health Sciences

Status	Minimum	Normal	Maximum
Full-time	2 academic years	3 academic years	6 academic years
Part-time	3 academic years	6 academic years	8 academic years

# **PROGRAMME EDUCATIONAL OBJECTIVES (PEO) AND PROGRAMME LEARNING OUTCOMES**

## **Programme Educational Objectives (PEO)**

### **Master of Medical Sciences & Master of Health Sciences**

1. Professionals who apply the knowledge, understanding and laboratory experiences in quality research and providing quality education to research institutions, government agencies, and industries, locally and globally.
2. Professionals with balanced attributes who are ethical and imbued with Islamic values.

## **Programme Learning Outcome (PLO)**

### **Master of Medical Sciences**

1. Demonstrate continuing additional medical sciences knowledge with comprehension.
2. Integrate the knowledge acquired from each discipline into a meaningful framework and critically appraise, develop, or use ideas in the context of research.
3. Demonstrate good competency in skills related to research laboratory techniques.
4. Clearly communicate the conclusion, knowledge and the rationale to experts and non- experts.
5. Undertake critical evaluation of numerical and graphical data and use appropriate digital tools/methodologies to support and enhance research activities.
6. Exhibit teamwork and is capable of evaluating and making decisions in the situations without or with limited information by considering social responsibilities.
7. Apply basic managerial and entrepreneurial skills in research management.
8. Exhibit high ethical and professional values.
9. Apply Islamic principles in analysing and evaluating ideas of related disciplines.
10. Communicate effectively with researchers in various fields and participate in reduction of communicable and non- communicable diseases through comprehensive research.

## Master of Health Sciences

1. Illustrate the understanding of the fundamental principles of health sciences.
2. Integrate the knowledge acquired from each discipline into a meaningful framework and critically appraise, develop, or use ideas in the context of research.
3. Perform research in health sciences with appropriate research methodology.
4. Clearly communicate the conclusion, knowledge and rationale to experts and non-experts.
5. Undertake critical evaluation of numerical and graphical data and use appropriate digital tools/methodologies to support and enhance research activities.
6. Exhibit teamwork and is capable of evaluating and making decisions in the situations with or without limited information by considering social responsibilities.
7. Apply basic managerial and entrepreneurial skills in research management.
8. Exhibit high ethical and professional values.
9. Apply Islamic principles in analysing and evaluating ideas of related disciplines.
10. Communicate effectively with researchers in various fields and participate in reduction of communicable and non-communicable diseases through comprehensive research.

## PhD of Health Sciences

### **Programme Educational Objectives (PEO)**

1. Professionals who apply the knowledge, understanding and laboratory experiences in quality research and providing quality education to research institutions, government agencies, and industries, locally and globally.
2. Outstanding research principals who lead and are engaged in research projects that explore solutions to problems and contribute to new knowledge within and across disciplines.
3. Professionals who are ethical and imbued with Islamic values.

### **Programme Learning Outcome (PLO)**

1. Demonstrate systematic comprehension and in depth understanding of relevant basic medical sciences disciplines with scholarly strength.
2. Integrate the knowledge acquired from each discipline into a meaningful framework and critically appraise, synthesizes new and complex ideas in the context of research to explore solutions to problems and contribute to new knowledge.
3. Demonstrate excellent skills in generating, designing and implementing basic medical sciences research project.
4. Professionally and clearly communicate with peers, scholarly communities and society at large concerning the field of expertise.
5. Undertake critical evaluation of numerical and graphical data and use appropriate digital tools/ methodologies to develop, support and enhance research activities.
6. Exhibit teamwork and is capable of continuously progress on their own with a high degree of autonomy, evaluating and making decisions in the situations without or with limited information by considering social responsibilities.
7. Displayed good managerial and entrepreneurial skills in research management.
8. Exhibit high ethical and professional values.
9. Apply Islamic principles in analysing and evaluating ideas of related

disciplines.

10. Communicate effectively with researchers in various fields and participate in reduction of communicable and non-communicable diseases through comprehensive research.

## PROGRAMME STRUCTURE

The programmes are highly structured with clear learning objectives. Fixed hours will be assigned for classroom, practical and other teaching and learning activities. A full-credit system based on semesters as being practiced by the rest of the university is used. The academic year consists of two regular semesters and one short semester. The regular semester has 14 weeks of teaching and learning while the short semester has only 7 weeks. The duration of leave or holiday within and between each semester is determined by the university with some discretion given to each department.

Malaysian students can opt to do their programme as either **full-time** or **part-time**. Only full-time mode is available to international students. There is some amount of flexibility to the duration and status of the study period, but it must follow the university's Postgraduate Regulations.

For master programme, potential postgraduate students can choose to do the programme either by the Coursework and Research (in Semester 1 only) (**Mixed Mode – Medical Sciences**) or the **Research Mode (Health Sciences)**. The Kulliyyah will recommend a suitable course structure to the student after considering the student's prior academic achievement and the availability of an appropriate supervisor. Meanwhile, only Research Mode is available for the PhD programme. In suitable cases practical research work and experience can be conducted in an approved institution outside Kuantan or IIUM.

Students opting for the Research Mode programme will be required to send in a preliminary research proposal in an area of interest when applying for the programme. At the end of the programme students are expected to produce a substantive *thesis* showing some amount of originality. For the Master programmes, the thesis will be marked by one internal examiner for Mixed-mode and one internal examiner and one external examiners for Research mode. As for the PhD programme, the thesis will be assessed by three examiners (either a combination of two internal examiners and one external examiner, or one internal examiner and two external examiners).

For the Mixed-mode programme, a minimum of fifteen (15) credit hours in basic research knowledge (from the Programme Required Courses) and five (5) / seven (7) credit hours will be required for the Kulliyyah Required and Generic Courses. The research component will contribute another 20 credit hours to the candidate as part of the requirement to obtain the degree.

# CURRICULUM STRUCTURE & COURSES

**University Required Courses, Kulliyyah Required Courses and Generic Courses** are compulsory courses that *must be taken and passed* before a student can graduate from the programme.

**Programme Required Courses** can either be *compulsory or elective* as prescribed in the programme of study. Compulsory courses must be taken and passed before a student can graduate from the programme. Elective courses are taken as necessary from any of the courses offered as deemed appropriate by the Kulliyyah.

**Special Requirement Course** is a specific course that is required for applicants with undergraduate degrees other than medical degrees (MBBS, MD, MBChB, etc). The applicants need to pass the discipline-based entrance evaluation prior to registering for a relevant postgraduate course (based on the evaluation of the applicants by departmental members of the discipline involved), failing which they have to register the discipline-based “Special requirement course”. Postgraduate students may be required to attend specific courses that are being conducted for the undergraduate medical students, according to the programme pursued. The assessment is on a pass/fail basis.

## Master of Medical Sciences (MMDSc) Mixed Mode

STRUCTURE OF THE PROGRAMME		CREDIT HOURS
<b>1. Special Requirement Course</b> <b>(For non-medical graduates only)</b>		-
<b>2. University -Required Courses</b> i) Islamisation of Human Knowledge in Health Sciences ii) Research Methodology		4
<b>3. Generic Courses</b> i) General laboratory techniques & instrumentation		1
<b>4. Programme Required Courses</b> i) Core Courses (Discipline Courses) ii) Elective Courses		15
<b>5. Research</b>		20
<b>Total Requirements for Graduation</b>		<b>40</b>



## Master of Health Sciences (M\_KOM) Research Mode

STRUCTURE OF THE PROGRAMME		CREDIT HOURS
1.	<b>Special Requirement Course (For non-medical graduates only)</b>	-
2.	<b>Kulliyyah-Required Courses</b>	-
	i) Islamisation of Human Knowledge in Health Sciences	
	ii) Research Methodology	
3.	<b>Research</b>	-
<b>Total Requirements for Graduation</b>		-

## PhD in Health Sciences (P\_KOM) Research Mode

STRUCTURE OF THE PROGRAMME		CREDIT HOURS
1.	<b>Special Requirement Course (For non-medical graduates only)</b>	-
2.	<b>Kulliyyah-Required Courses</b>	-
	i) Islamisation of Human Knowledge in Health Sciences	
	ii) Research Methodology	
3.	<b>Research</b>	-
<b>Total Requirements for Graduation</b>		-

### **Kulliyyah Required Courses**

No.	Course Title	Credit Hours	Course Code	Mixed Mode	Research
1.	Islamisation of Human Knowledge in Health Sciences	2	ISLM 7212/ 8212	√	√
2.	Research Methodology	2	RESM 7130/ 8130	√	√

√ = compulsory

### **Generic Course (for Master Mixed-Mode)**

Course Title	Course Code	Credit Hours
General Laboratory Techniques and Instrumentations	METL 7142	1

# MASTER OF MEDICAL SCIENCES REQUIRED COURSES

These are courses that will be beneficial and relevant across disciplines. Students are required to take a minimum of 15 credit hours. PLEASE REFER TO THE RESPECTIVE STUDY GUIDES FOR DETAILS OF THE COURSE, which is available at the Basic Medical Sciences websites.

## Anatomy

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to Anatomy	ANAT 7210	Special Req	2
2.	Gross Anatomy	ANAT 7311	Core	3
3.	Neuroanatomy	ANAT 7312	Core	3
4.	Developmental Anatomy	ANAT 7313	Core	3
5.	Microscopic Anatomy	ANAT 7314	Core	3
6.	Applied Anatomy	ANAT 7315	Elective	3

## Biochemistry

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to Medical Biochemistry	BIOC 7231	Special Req	2
2.	Regulation of Metabolism in Human	BCH 7332	Core	3
3.	Medical Enzymology	BIOC 7333	Core	3
4.	Basic Genetics and Human Disease	BCH 7334	Core	3

## Microbiology

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to Medical Microbiology	MMBI 7241	Special Req	2
2.	Medical Mycology	MMBI 7141	Core	1
3.	Clinical Microbiology Diagnostic Laboratory Practice	MMBI 7242	Core	2
4.	Basic & Clinical Immunology	MMBI 7243	Core	2
5.	Medical Virology	MMBI 7341	Core	3
6.	Medical Bacteriology	MMBI 7441	Core	4

## Parasitology

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to Medical Parasitology	PARA 7261	Special Req	2
2.	Oppurtunistic Infections	PARA 7262	Core	2
3.	Immunoparasitology	PARA 7263	Core	2
4.	Diagnostic Parasitology and Medical Entomology	PARA 7264	Core	2
5.	Tropical Diseases	PARA 7363	Core	3
6.	Control of Human Parasitic Diseases	PARA 7364	Core	3

## Pharmacology

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to General Pharmacology	PHAR 7271	Special Req	2
2.	Basic and Laboratory Pharmacology	PHAR 7272	Elective	2
3.	Antimicrobial Agents II	PHAR 7279	Elective	2
4.	Autonomic Nervous System	PHAR 7373	Elective	3
5.	Central Nervous System Pharmacology	PHAR 7374	Elective	3
6.	Cardiovascular and Renal Systems Pharmacology	PHAR 7375	Core	3
7.	Respiratory and Gastrointestinal Systems Pharmacology	PHAR 7376	Core	3
8.	Endocrine System Pharmacology	PHAR 7377	Elective	3
9.	Antimicrobial Agents I	PHAR 7378	Elective	3

## Physiology

	Course Title	Course Code	Course Classification	Credit Hours
1.	Introduction to Medical Physiology	PHYL 7021	Special Req	2
2.	Advanced Physiology II	PHYL 7220	Elective	2
3.	Physiology of Special Senses	PHYL 7221	Elective	2
4.	Renal Physiology	PHYL 7223	Elective	2
5.	Gastrointestinal Tract Physiology	PHYL 7225	Elective	2
6.	Endocrine Physiology	PHYL 7226	Elective	2
7.	Reproductive Physiology	PHYL 7227	Elective	2
8.	Physiology of the Central Nervous System II	PHYL 7228	Elective	2
9.	Advanced Physiology I	PHYL 7229	Elective	2
10.	CVS Physiology	PHYL 7322	Core	3
11.	Physiology of the Central Nervous System I	PHYL 7323	Core	3
12.	Respiratory Physiology	PHYL 7324	Core	3

## Basic Laboratory

	Course Title	Course Code	Course Classification	Credit Hours
1.	Tissue Culture	METL 7211	Elective	2
2.	General Molecular and Proteomics Techniques	METL 7232	Elective	2

## Research

	Course Title	Course Code	Credit Hours
1.	Research Proposal	ANA/BIOC/MMBI/PARA/PHAR/PHYL 7994/7998	10/-
2	Dissertation/Thesis	ANA/BIOC/MMBI/PARA/PHAR/PHYL 7994/7998	10/-

# MASTER AND PHD OF HEALTH SCIENCES

The postgraduate Health Sciences programmes are consolidated programmes under Kulliyyah of Medicine (KOM), Kulliyyah of Allied Health Sciences (KAHS), Kulliyyah of Nursing (KON), and Institute of Planetary Survival for Sustainable Well-Being (PLANETIUM).

There are twenty (20) specialisations offered by various departments under KOM.

Specialisations	Department
Medical Anatomy Medical Biochemistry Medical Microbiology Medical Parasitology Medical Pharmacology Medical Physiology Immunology Molecular Biology	Basic Medical Sciences
Audiology Sciences	Otolaryngology-Head & Neck Surgery
Clinical Embryology Reproductive Sciences	Obstetrics & Gynecology
Clinical Pathology Cytology Medical Genetics	Pathology & Laboratory Medicine
Orthopaedic Research	Orthopaedic
Perioperative & Critical Care Science	Anaesthesiology
Public Health Medical Education	Community Medicine
Paediatrics Health	Paediatrics
Ophthalmic Research	Ophthalmology

## Programme Synopsis

The postgraduate Health Sciences programmes are designed to equip students with advanced knowledge and skills in health sciences and medical research. They aim to empower students' journey toward becoming adept researchers in the healthcare domain. Research acumen is acquired through compulsory audit courses including the Islamisation of Human Knowledge in Health Sciences and the Research Methodology courses, and activities such as research article appraisal, seminar, workshops and presentations at the start of the programme, followed by a minimum of 1 year of research.

## Research Supervision

The postgraduate Health Sciences programmes, enriched by collaborative integration of diverse faculties, offers a dynamic platform for postgraduate students aspiring to excel in medical and health sciences research. At the core of this initiative is a robust emphasis on research supervision, ensuring that candidates receive tailored guidance and mentorship throughout their academic journey. A student's main supervisor is usually from the same field as the candidate and appointed in Semester 1. Alternatively, students may approach a suitable supervisor themselves or be selected by the department.



# **COURSE REGISTRATION POLICIES**

## **1. Course Registration**

A student is required to register online for courses that he intends to take in the following semester. A new student may register for courses after enrolment.

- i. A student shall not be allowed to register for a course after a period of one (1) week from the beginning of a regular semester or three (3) days from the beginning of a short semester. This rule is not applicable to students by research mode only.
- ii. A student who fails to register for any course by the fourth (4th) week of the semester with no valid reason shall receive a status NR (Not Registered). During this time, the student must apply for a leave of absence or appeal to register for courses.
- iii. By week twelve (12) week of the semester, a student who has an NR status shall be terminated (TD) from studies.

## **2. Academic Workload**

- i. A full-time student must register for a minimum of nine (9) and a maximum of sixteen (16) credit hours or the equivalent in a regular semester.
- ii. A part-time student must register for a minimum of three (3) and a maximum of nine (9) credit hours or the equivalent in a regular semester.
- iii. Full-time and part-time students may register for a maximum of two (2) courses in a short semester.

## **3. Withdrawal from Courses**

- i. A student can apply to the Centre of Postgraduate Studies to withdraw from any courses that he has already registered for. The student must apply before week ten (10) of a regular semester or week four (4) of a short semester. A student in an executive programme can apply to withdraw from any course within the first three (3) weeks of a regular semester.
- ii. To withdraw from a course, a student must get the recommendation of his academic advisor/supervisor and the approval of the Deputy Dean (Postgraduate) of the Kulliyyah of Medicine.
- iii. The total credit hours after the approval must not be less than the minimum academic workload.

*Further details to be referred to the Postgraduate Regulation on the CPS website.*

## APPENDICES

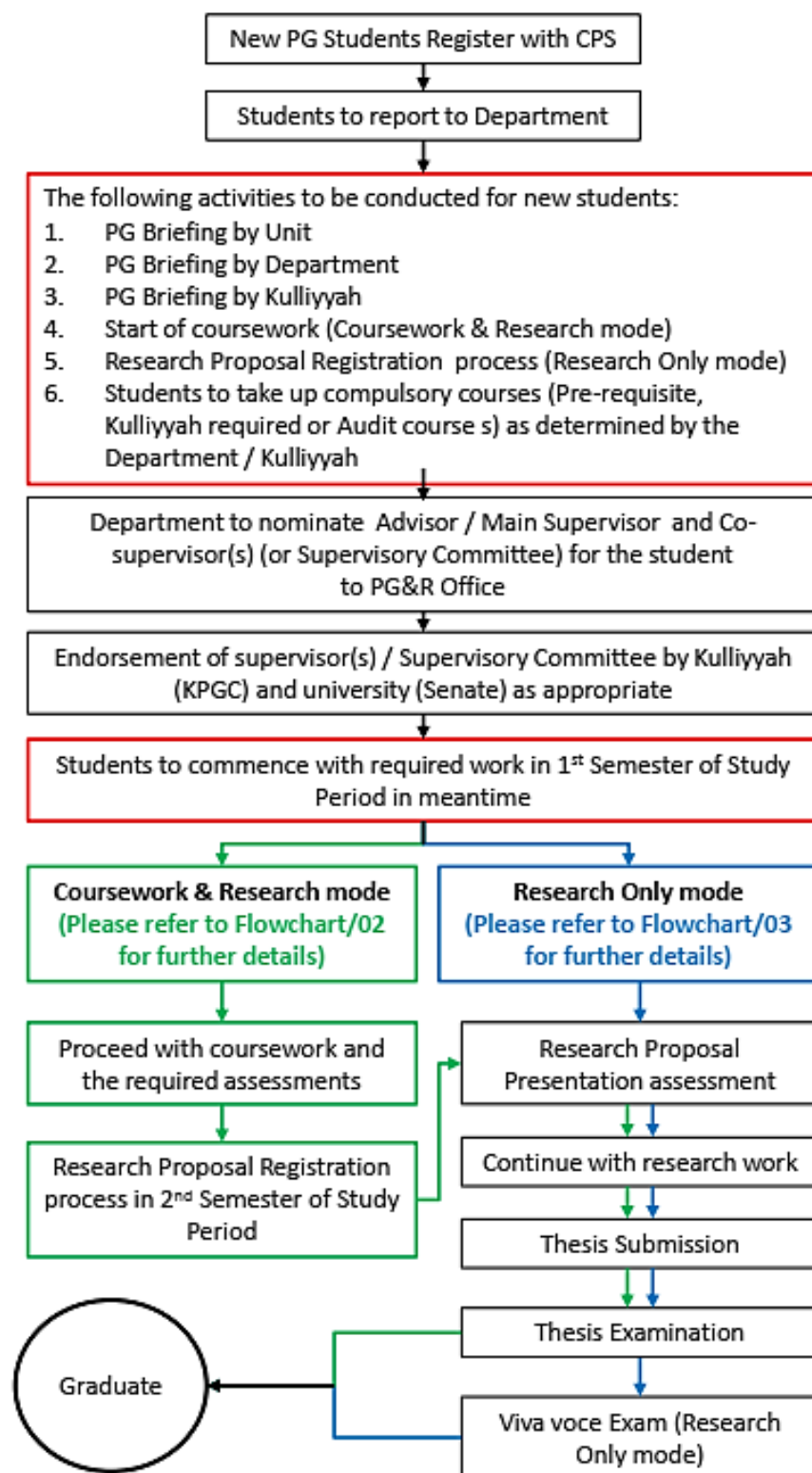
### Appendix 1: Format, Marking Scheme and Allocation of Time for Final Examination

Format	Marking Scheme	Allocation Time
Essay	20 marks are allocated for each question; by choosing to answer 2 questions out of 3.	3 hours
Short Notes	10 marks are allocated for each questions; by choosing to answer 2 questions out of 3.	

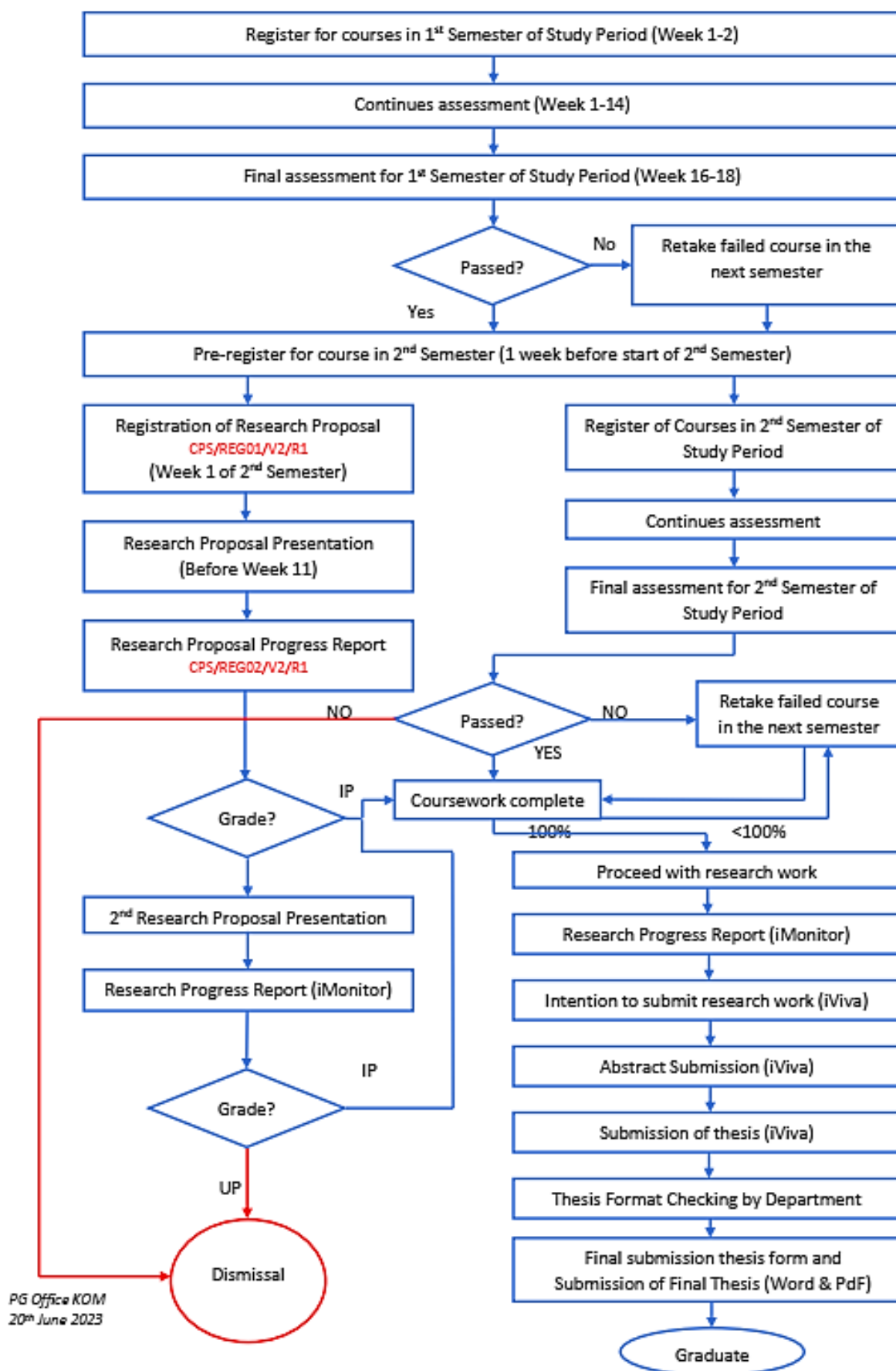
### Appendix 2: Grading System

Score	Grade	Q.P.E.	Description	Remarks
80-100	A	4.00	Excellent	Pass
75-79	A-	3.67	Extremely Good	Pass
70-74	B+	3.33	Very Good	Pass
65-69	B	3.00	Good	Pass
60-64	B-	2.67	Fairly Good	Conditional Pass
55-59	C+	2.33	Satisfactory	Conditional Pass
50-54	C	2.00	Quite Satisfactory	Conditional Pass
45-49	C-	1.67	Poor	Fail
40-44	D	1.00	Very Poor	Fail
0-39	F	0.00	Failure	Fail

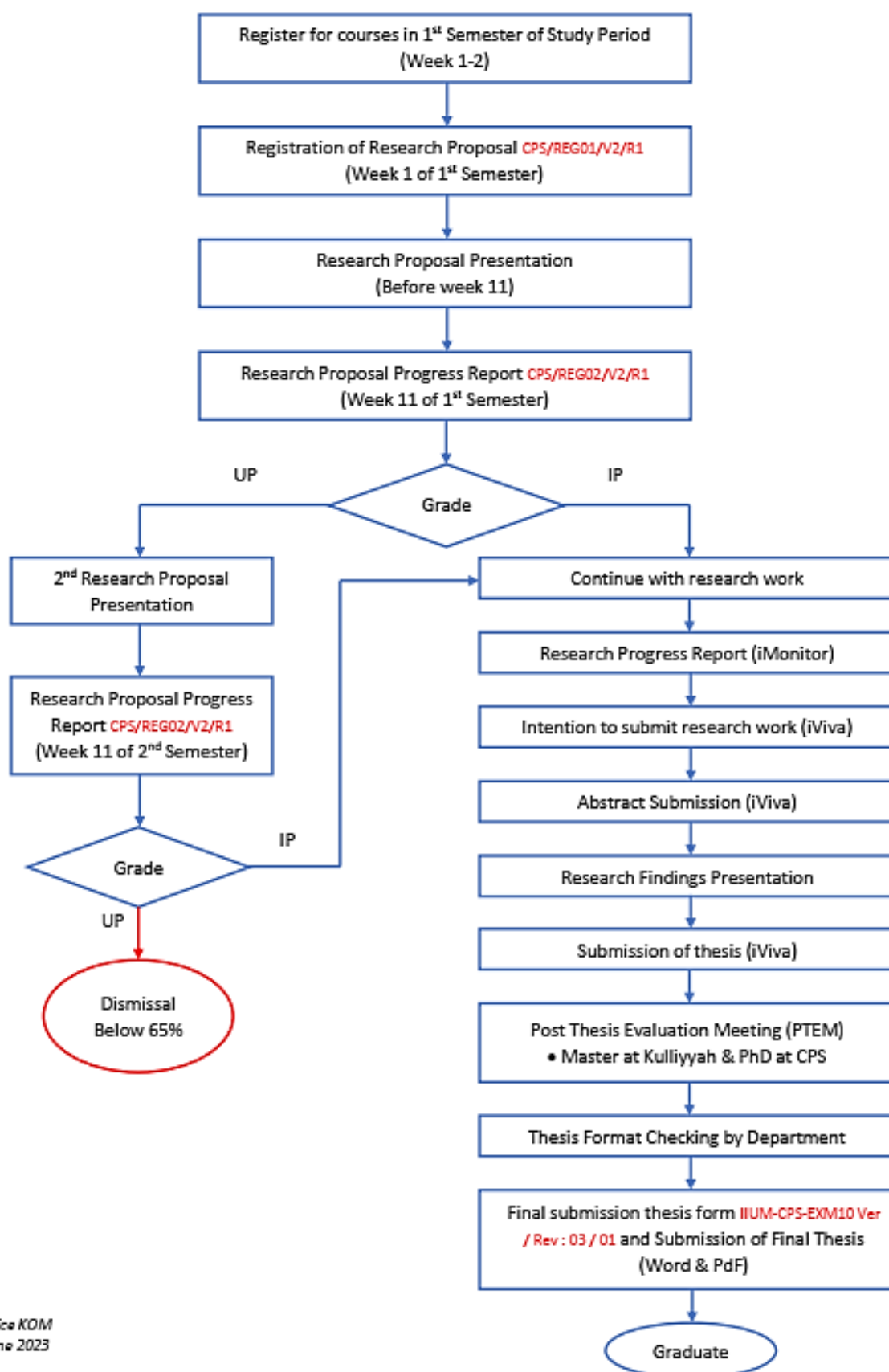
### Appendix 3: Flowcharts of Programme Overview for New Non-Clinical Postgraduate Students in Kulliyyah of Medicine



## Appendix 5: Flowchart/02 for Master – Mixed Mode



#### Appendix 4: Flowchart/03 For Master - Research Only Mode



## Appendix 5: Research Timeline and Forms/iViva Submissions for Master of Medical Sciences

- a) A PG student may register for research and present the Research Proposal in semester 2, if the following conditions are met:
- CGPA is 3.0 and above
  - Completed **at least 60% of the required coursework** (i.e. to get at least **12 credit hours in semester 1**)
  - Fulfilled all language requirements.
- b) The following procedures are to be carried out:
- Pre-register for course in 2nd Semester (**1 Week before start of 2nd semester**)
  - Registration of Research Proposal IIUM-CPS-SAD-07(I) Ver/Rev: 02/02 (**Week 1 of 2nd Semester**)
  - Research Proposal Presentation assessment: (**Week 11 of 2nd Semester**)
  - Amount of coursework must be **100% completed** before proceeding with research work.
- c) The steps are similar as RESEARCH ONLY MODE in Appendix 6 **EXCEPT:**
- Fill in the Notification of Intention to Submit in the iViva
  - Supervisor nominate **1 Internal Examiner**
  - Not required to present

## **Appendix 6: Research Timeline and Forms Submission for Postgraduate Student and Supervisor**

### **1. Registration**

- a) Register for courses in the first Semester of study period (Week 1-2)
- b) Registration of Research Proposal CPS/REG01/V2/R1 (Week 1 of first Semester)
- c) Submit to HOD for recommendation for registration in week 1.
- d) Forward to DDPG for approval
- e) Department to appoint academic advisor for the student (week 1-4)

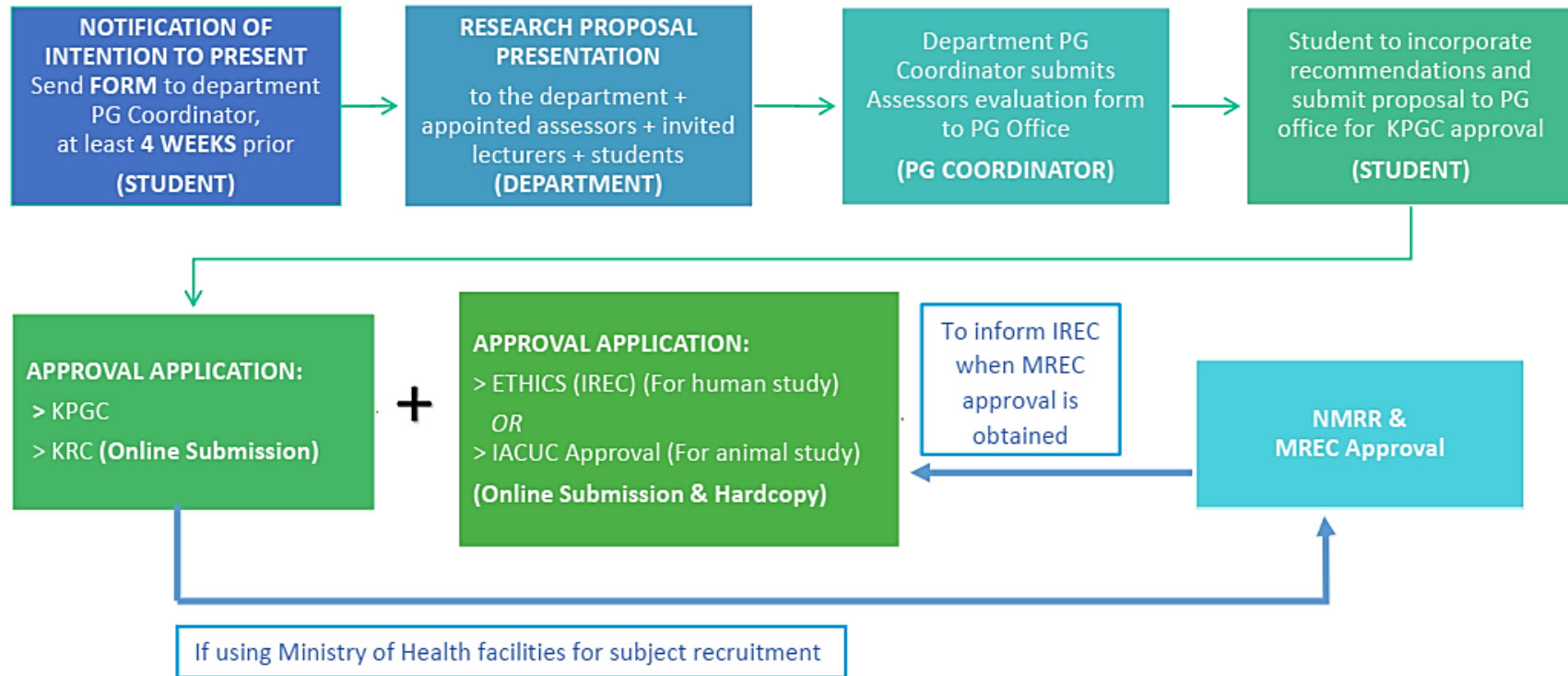
### **2. Research Proposal Presentation**

- a) To present latest by week 11 in semester one at the departmental level.
- b) Master at Department level; PhD at Kuliyah level by PG Office
- c) One month before presentation date:
  - Submit intention to present research proposal form.
- d) One week before presentation:
  - Submit presentation slides to PG Coordinator (for assessors).
- e) Must obtain marks of 70% or more to submit a Research Proposal.
- f) Do all the necessary corrections following the presentation.

### **3. Ethical Approval Application**

- a) Submit the research proposal via online for Kuliyah Research Committee approval. Approval letter will be issued.
- b) Apply for ethical approval from appropriate bodies: Malaysian Research Ethics Committee (MREC) and IIUM Research Ethics Committee (IREC).
- c) Apply for approval from corresponding research facilities to be conducted: Ministry of Health Hospital or Sultan Ahmad Shah Medical Centre.
- d) Once the proposal and ethics is approved, data collection should start.

## POSTGRADUATE STUDENT RESEARCH PROPOSAL PRESENTATION & APPROVAL APPLICATION



### LINKS FOR ONLINE SUBMISSION:

- KRC : <http://iiumedic.net/forms/view.php?id=20747>
- IREC : <http://www.iium.edu.my/irec/how-apply/documentation>
- IACUC : <http://www.iium.edu.my/icracu/resource-centre/iacuc-info>
- NMRR & MREC : <https://www.nmrr.gov.my/fwbLoginPage.jsp>

### NOTE:

- KPGC : Kulliyah of Medicine Postgraduate Committee
- KRC : Kulliyah of Medicine Research Committee
- IREC : IIUM Research Ethics Committee
- IACUC : Institutional Animal Care & Use Committee of IIUM
- NMRR : National Medical Research Register
- MREC : Medical Research & Ethics Committee



#### **4. Research Progress Report**

- a) Update in **i-MONITOR** every 6 months.
- b) Supervisor to review and submit the research progress report to HOD for recommendation of report latest by week 13.
- c) A student will be dismissed from the programme upon the recommendation of the KPGC and approval of the UCPS if he/she obtains an 'Unsatisfactory Progress (UP)' grade for two (2) consecutive semesters.

#### **5. Intention to Submit Thesis and Nomination of Examiners using iViva**

- a) Three months prior to submission of thesis date, student must submit **Notification of Intention to Submit Thesis** and the abstract using the iViva.
- b) Supervisor to submit Nomination of External Examiner(s) **CPS/EXAM/RTB/V2/R0** to be approved at Kulliyah of Postgraduate Committee Meeting before proceeding to nominate the examiners in the iViva.

#### **6. Research Findings Presentation**

- a) One month before submission of thesis date, student to submit **Notification of Intention to Present Research Finding Form (BMS/PG/REG02/v4/2020)**
- b) One week before presentation, student to submit presentation slides to PG Office (for assessors).
- c) Student must obtain at least 65% in Research Finding Presentation assessment to submit thesis.

#### **7. Thesis Submission**

- a) Do all the necessary corrections following research finding presentation.
- b) Submit **soft bound copy, Turnitin and proof of publication using the iViva**.
- c) Examiners:
  - Master by Mixed Mode: 1 internal examiner
  - Master by Research: 1 internal & 1 external examiners
  - PhD: 1 internal & 2 external examiners **OR** 2 internal & 1 external examiners.
- d) The student who has completed and submitted his thesis / dissertation to the Centre of Studies for the evaluation of the examiner, will be given a Thesis Examination (TE) status, upon approval from SV, PG Office administrative, Deputy Dean of Postgraduate along with the clear financial status. The student need to talk to the Finance Office for this matter.

#### **8. Post Thesis Evaluation Meeting (PTM) or Viva Voce**

- a) Master (Research mode) - at Kulliyah level.
- b) PhD - at CPS level as viva voce.
- c) Student and SV are required to attend PTM.
- d) Appointment of Post Viva SV to supervise thesis/dissertation correction.

## 9. Final Thesis Submission

- a) Student must follow the Thesis Manual Appendix Version 2015 for the formatting of the thesis.
- b) Student to get approval from Post Viva SV.
- c) Final thesis submission using iViva and review by Post Viva SV, PG Office. administrative, Deputy Dean Academic & Internationalisation and the Dean.
- d) Student declares copyright and status open access.
- e) The approval by the Dean of the final thesis will alert the library to pull the thesis and other data from iViva system into IIUM Library Student Repository System.

**Note:**

- a) Please follow all the deadlines.
- b) Send all email communication or submission to PG coordinator and c.c to HOD and SV committee.
- c) All the forms are to be submitted via **i-VIVA**

## Appendix 7: Checklist Form Submission for PG Coordinator and Assistant PG Coordinator

### 1. Registration

- a) Submit to HOD for recommendation for registration in week 1.
- b) To recommend / not recommend for registration of research proposal for the current semester.
- c) Forward to DDPG for approval
- d) Department to appoint academic advisor for the student (week 1-4)

### 2. Research Proposal Presentation

- a) To present latest by week 11 / semester 1.
- b) Master: Arranged by department.
- c) PhD: Arranged by PG Office.
- d) Submission by student:
  - i) One month before presentation date:
    - Submit intention to present research proposal form.
  - ii) One week before presentation:
    - Submit presentation slides to PG Coordinator (for assessors).
- e) Preparation by the department (2 weeks prior):
  - Notice of presentation to department members and supervisory committee.
  - Appointment of assessors (notify PG Office for letter of appointment).
  - Research Proposal Presentation Assessment Form.
  - Summary Assessment Form.
  - Attendance list for all non-clinical PG Students KOM (compulsory).
- f) Action by the department after research proposal presentation (within one week) :
  - Collect assessment forms from the assessors.
  - Endorsement of the results at the department level (non-clinical PG).
  - Submit the endorsed results to PG office.
  - Should the student need to repeat his/her research proposal presentation, it must be conducted in the semester 1.
  - If the student fails the second attempt, proceed with the procedure of repeat semester.

### 3. Intention to Submit Thesis and Nomination of Examiners using iViva

Three months prior to submission of thesis date:

- Student must submit **Notification of Intention to Submit Thesis** and the abstract using the iViva.
- Supervisor to submit Nomination of External Examiner(s) **CPS/EXAM/RTB/V2/R0** to be approved at Kulliyah of Postgraduate Committee Meeting before proceed to nominate the examiners in the iViva.

#### 4. Research Findings Presentation

- a) To present in the final semester.
- b) Master: Arranged by department – to present at the department level.
- c) PhD: Arranged by PG Office.
- d) One month before submission of thesis date
  - Student to submit **Notification of Intention to Present Research Finding Form CPS-REG/11/2005**.
- e) One week before presentation, submit presentation slides to PG Coordinator (for assessors).
- e) Preparation by the department (2 weeks prior):
  - Notice of presentation.
  - Appointment of assessors (notify PG Office for letter of appointment).
  - Research Findings Presentation Assessment Form.
  - Summary Assessment Form.
  - Attendance list for all non-clinical PG Students KOM (compulsory).
- f) Action by the department after research finding presentation (within one week):
  - Collect assessment forms from the assessors.
  - Endorsement of the results at the department level.
  - Submit the endorsed results to PG office.
  - Set the date of submission of the dissertation / thesis to the PG office.

#### 5. Thesis Submission and Thesis Examination (TE) Grace Period

- a) Student need to submit **soft bound thesis, Turnitin report and proof of publication using the iViva**.
- b) The examination of the dissertation/thesis can be monitored using the iViva by the student, SV and PG Office administrative.
- c) The examination report should be received by the PG Office/Viva Unit within 2 months.
- d) The student who has completed and submitted his thesis / dissertation to the Centre of Studies for the evaluation of the examiner, will be given a Thesis Examination (TE) status, upon approval from SV, PG Office administrative, Deputy Dean of Postgraduate along with the clear financial status.
- e) The maximum period allowed for 'TE' status is as follows:

Mode of Programme	Period of 'TE'
Research Only	Additional two (2) months after correction period.
Mixed Mode	Additional one (1) month after correction period

#### 6. Post Thesis Evaluation Meeting (PTEM)/Viva

- a) Department needs to arrange for PTEM for Master students within the Thesis Examination (TE) grace period while the Viva Unit will arrange for Viva for PhD students.
- b) In PTEM, the following personnel will be involved:
  - Head of the Department as Chairperson.
  - PG co-ordinator

- Supervisor(s) or representative(s).
  - Internal examiner(s) (if deemed necessary).
  - External examiner (if deemed necessary).
  - Student.
  - Secretary (minute taking)
- c) Preparation by department (2 weeks prior):
- Invitation letter (signed by Dean)
  - Attendance form
  - Dissertation/ thesis marks and details
  - Chairman script
  - Result Form
  - Viva Result Form
  - Minute of PTEM
  - Master Examiners Report Form (Internal & External Examiners).

## **7. Final Thesis Submission**

- a) Student must follow the Thesis Manual Appendix Version 2015 for the formatting of the thesis.
- b) Student to get approval from Post Viva SV.
- c) Final thesis submission using iViva and review by Post Viva SV, PG Office administrative, Deputy Dean Postgraduate and the Dean.
- d) Student declares copyright and status open access.
- e) The approval by the Dean of the final thesis will alert the library to pull the thesis and other data from iViva system into IIUM Library Student Repository System.

## Appendix 8: Rubric for Research Proposal And Research Findings Assessment

No.	Domain	Criteria	Marks Allocated	Marks Obtained
1	<b>Title</b>	Clearly describe what the study is all about.	10	
2	<b>Introduction &amp; Literature Review</b>	Able to convince that the study is important. <b>Research gap clearly described.</b> Important background of the study sufficiently described. Relevant and recent references are properly cited. <b>Conceptual framework</b> clearly explained.	20	
3	<b>Research objectives</b>	Research objectives are <b>specific, measurable</b> and clearly described.	10	
4	<b>Methodology</b>	Study population/animal clearly described. Correct <b>study design</b> for the said objectives. <b>Sample size</b> or study power properly described. <b>Sampling method</b> chosen was correct and described clearly. <b>Variables properly defined</b> and data collection properly described.	20	
5	<b>Statistical analysis, expected outcomes &amp; dummy Tables</b>	<b>Statistical method</b> properly planned to answer each objective. <b>Expected outcome</b> clearly defined and presented in a clear <b>dummy tables/figures.</b>	20	
6	<b>Research management</b>	<b>Important milestones &amp; expected timeline</b> showed. <b>Financial implication</b> estimated properly with justification.	10	
7	<b>Presentation &amp; Interaction</b>	Clarity, legibility and quality of slides. Keeping to time (presentation). Ability of student to provide meaningful response to questions by audience.	10	

## Appendix 9: Publication Requirements

As part of the requirement for graduation, postgraduate students in the related study mode are required to achieve the minimum points of publication equivalent (PE). The matrices for PE is outlined in the table below:

Mode of study	PE required
Master by coursework and research	Not applicable
Master clinical specialist training (MQF Level 7)	Minimum PE 0.3
Master by research	Minimum PE 0.6
Doctoral/PhD clinical specialist training (MQF Level 8)	Minimum PE 0.7
PhD by research	Minimum PE 2. At least 1 PE from indexed journal.

In addition to the flexibility to the type of publications mentioned above, a new matrix for publication type and PE is as follows:

Type of publications	PE
Indexed journal	1
Non-indexed journal	0.7
Indexed conference proceeding	0.6
Poster, non-indexed conference proceeding or any publications recognized by Kulliyyah.	0.3