



IAS@UM  
ECO-ROCK GARDEN

# HANDBOOK POSTGRADUATE

2025/2026 ACADEMIC SESSION

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# CORE *Values*



## **Vission**

A global university impacting the world

## **Mission**

Pushing the boundaries of knowledge and nurturing aspiring leaders



# INSTITUTE FOR ADVANCED STUDIES

## *A Brief History*

**1979**

*Institute Postgraduate Studies (IPS) was established*

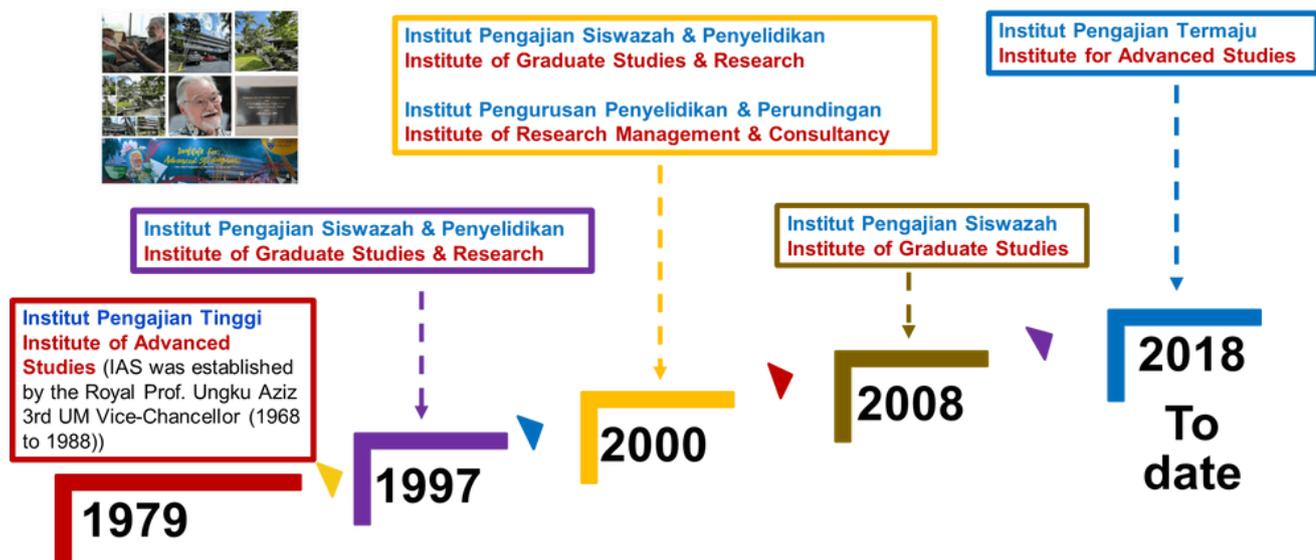
**2018**

*IPS has been decentralised and Institute for Advanced Studies (IAS) was established to lead new function*

**2023 onwards**

*To become central body promoting active cultivation and dissemination of multidisciplinary knowledge in the sciences and the social science areas*

### IAS in Brief | The Evolution (1979-2022)





## DEAN'S **Messages**

It gives me great pleasure to welcome you to the Institute for Advanced Studies (IAS), the hub of Universiti Malaya's multidisciplinary academic and research programmes.

As the Dean of the Institute, I am privileged to have the opportunity to guide and support you throughout your postgraduate journey. At IAS, we are committed to advancing research that aligns with the university's strategic priorities while fostering multidisciplinary collaboration across key fields in the sciences, social sciences, and humanities. IAS offers opportunities for individuals to pursue stackable credentials that can lead to the completion of an interdisciplinary Master's degree program. The Institute is particularly committed to supporting the development of early career researchers—tomorrow's leading professors and laureates. We place strong emphasis on cultivating a nurturing, intellectually stimulating environment that encourages collaboration, critical thinking, and innovation.

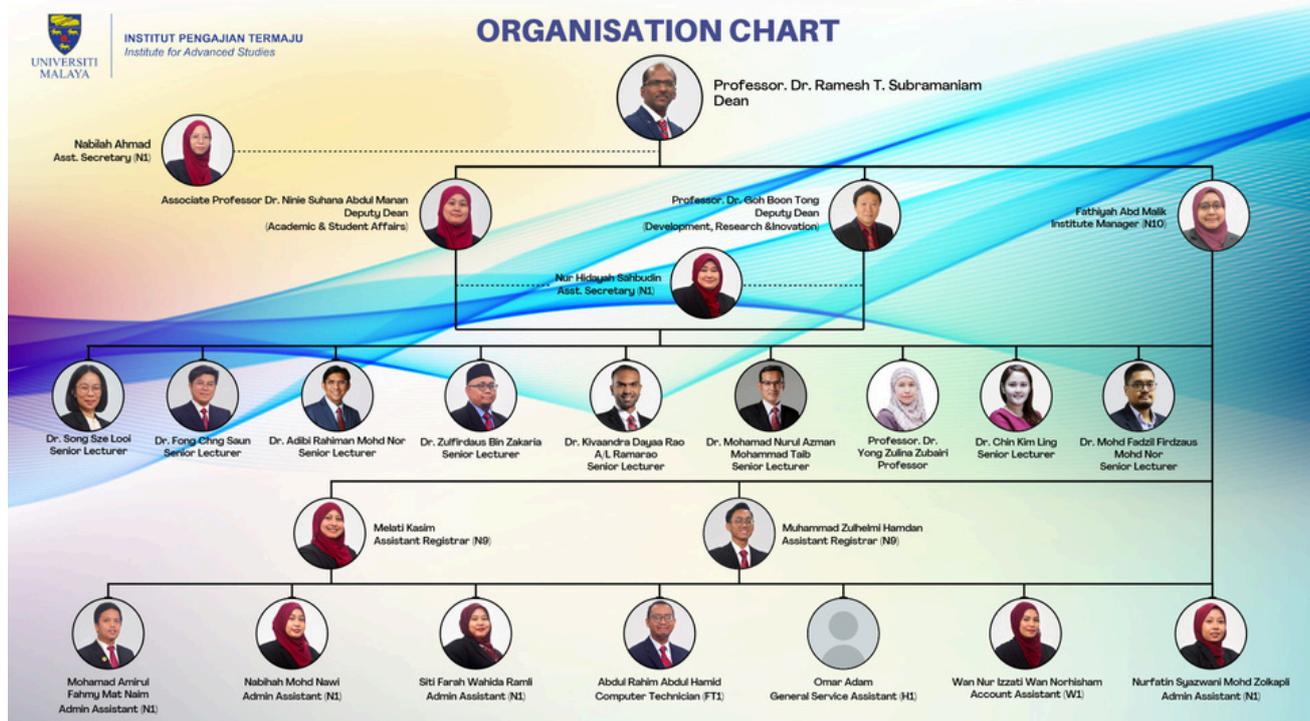
The Institute incorporates national emeriti and international visiting scientists and scholars into the university's academic community. As a student of IAS, you would have the opportunity to work with academics, administrative personnel, and other students who are enthusiastic, perceptive, and optimistic about achieving the institute's vision, mission, and goals. We encourage you to make the most of the wealth of knowledge and expertise offered by our scientists and scholars. Get involved in interdisciplinary discussions, connect with peers, and actively engage in research activities. We look forward to seeing you as part of our community—driven by your curiosity and passion—making meaningful contributions to sustainable socio-economic and environmental development.

The Institute incorporates national emeriti and international visiting scientists and scholars into the university's academic community. As a student of IAS, you would have the opportunity to work with academics, administrative personnel, and other students who are enthusiastic, perceptive, and optimistic about achieving the institute's vision, mission, and goals. We encourage you to make the most of the wealth of knowledge and expertise offered by our scientists and scholars. Get involved in interdisciplinary discussions, connect with peers, and actively engage in research activities. We look forward to seeing you as part of our community—driven by your curiosity and passion—making meaningful contributions to sustainable socio-economic and environmental development.

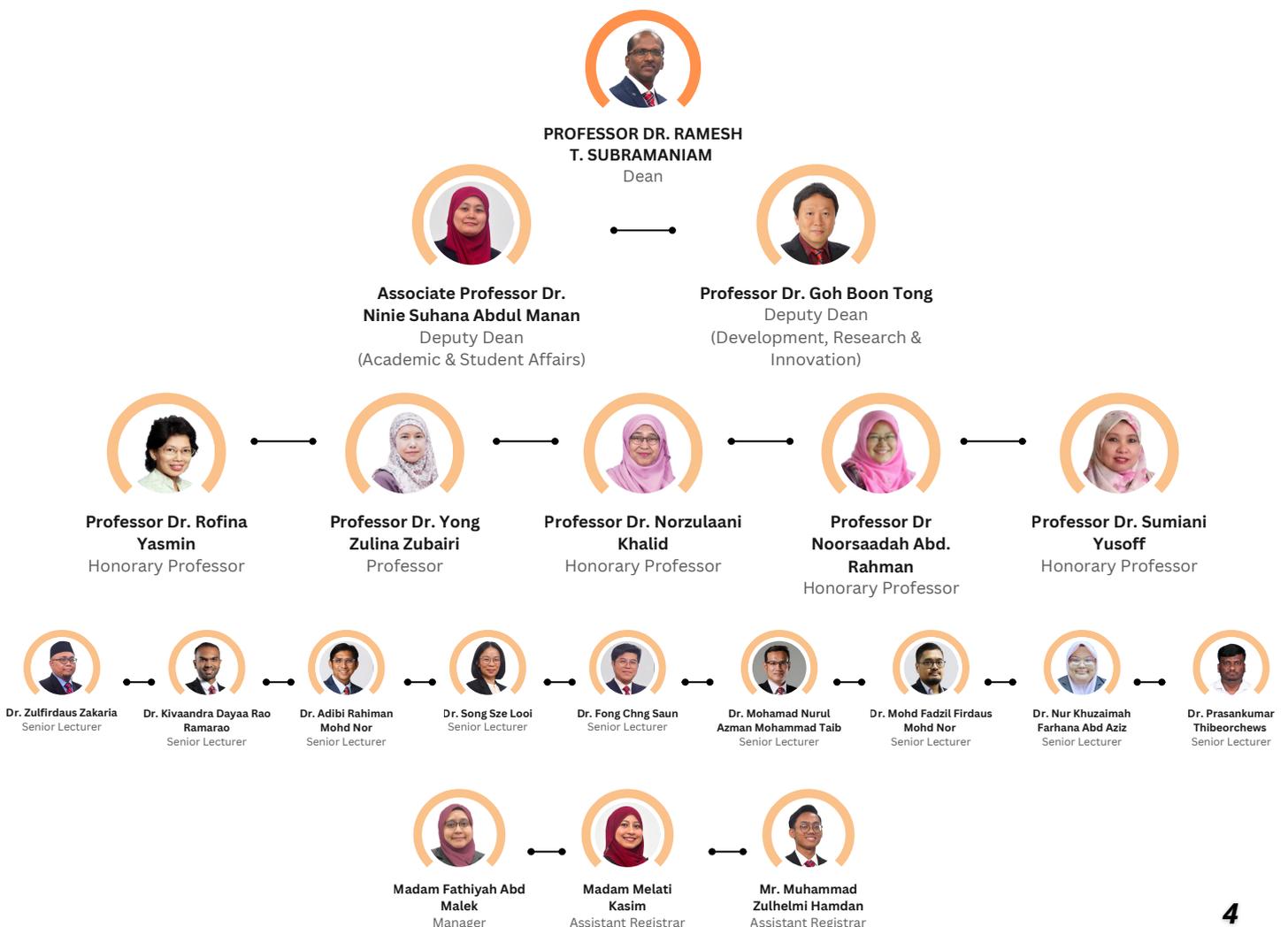
As you navigate your postgraduate journey, I urge you to embrace the values of integrity, professionalism, and continuous learning. Be proactive in seeking guidance from your supervisors, building networks with fellow researchers, and utilizing the available resources to enhance your research outcomes and personal growth. I wish you every success in your postgraduate studies and hope that this handbook will serve as a valuable companion throughout your academic and research endeavors. Remember, your contributions and discoveries have the potential to make a significant impact on society and contribute to the advancement of knowledge in your field.

Once again, welcome to our community of scholars, and I look forward to witnessing your growth and achievements as you make a lasting mark in your chosen field of study.

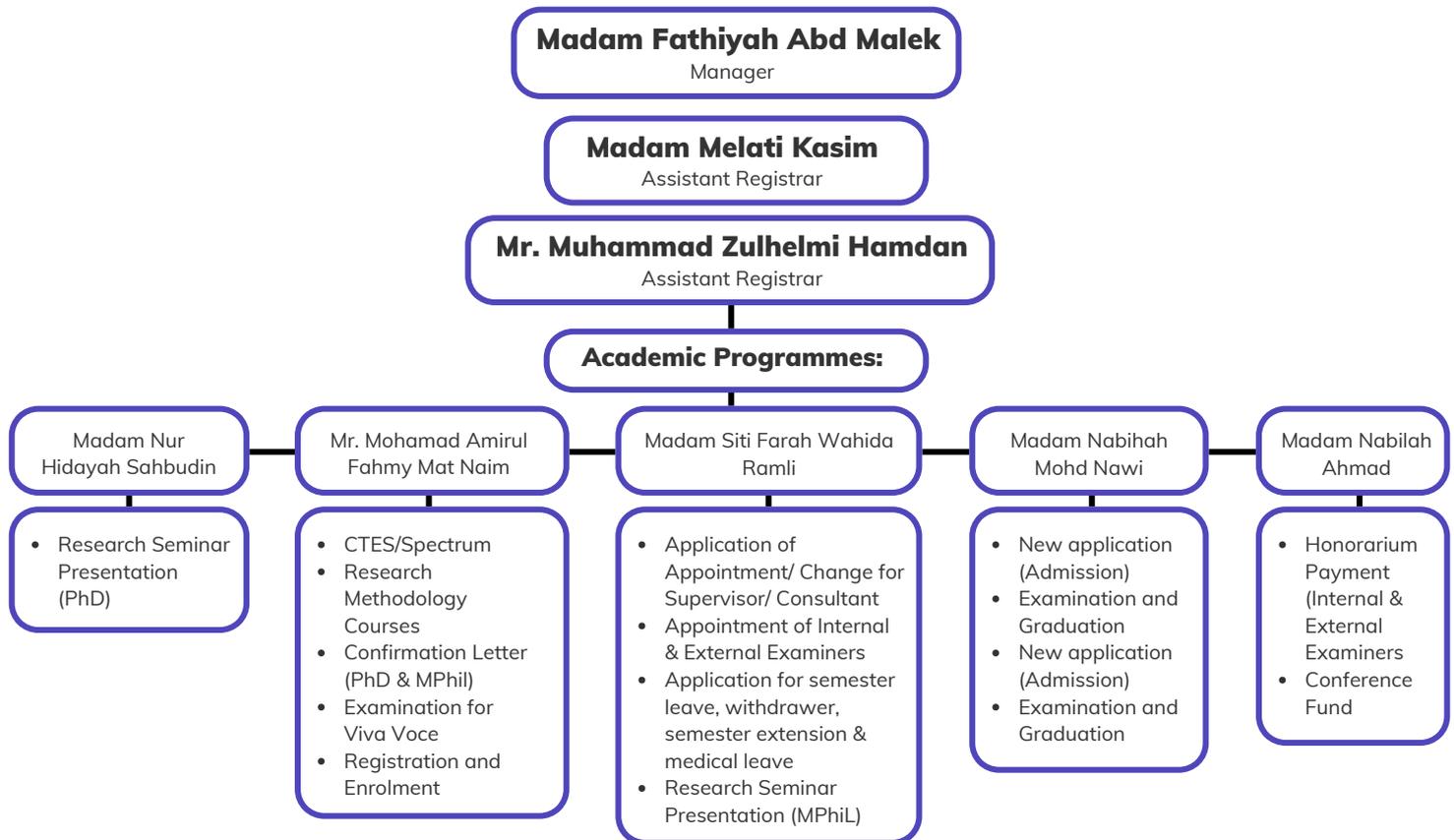
# organisation CHART



## MANAGEMENT *Team's*



# ACADEMIC Section Office



## Staff Directory SECTION



**Nabilah Ahmad**  
Dean's Secretary (N1)  
☎ 03 7967 4600  
✉ nabilahahmad@um.edu.my  
(Dean's Office)



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Deputy Dean's Secretary (N1)  
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(Deputy Dean's Office)



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(Driver)

# INSTITUTE FOR ADVANCED STUDIES

## *Overview*

### **VISION**

Our vision is for IAS to be the central body promoting active cultivation and dissemination of multidisciplinary knowledge in the sciences and the social science areas

### **Background**

Institute for Advanced Studies (IAS) is Malaysia's first postgraduate and advanced research institution within a university providing facilities for multidisciplinary studies. Since its inception in 1979, the IAS has been offering an extensive range of graduate research opportunities. Currently, with around 737 postgraduate students, the number of postgraduate candidates has been increasing significantly over the years. IAS is highly recognized for conducting leading edge research in key areas of sciences, social sciences and humanities. IAS proudly upholds the traditions and standards of excellence in teaching and research by providing effective and efficient student services, opportunities and a platform for the sharing & shaping of ideas. Candidates will be trained and supervised by distinguished local and expatriate scholars from various faculties and research centres, who are instrumental in founding new research niche areas. IAS is currently offering multidisciplinary postgraduate programmes (by research) and niche area programmes jointly coordinated by the Higher Education Center of Excellence (HICOE) and Universiti Malaya Centre of Excellence (UMCoE).



<https://ias.um.edu.my>



# HIGHER INSTITUTION CENTRE OF EXCELLENCE (HICOE)

In support of the third thrust of the National Higher Education Strategic Plan (NHESP) and moving towards gearing up the level of the country's research and development (R&D) and innovation, the Ministry of Higher Education (MoHE) finds that there is a need to recognise the potential centres of excellence (CoEs) in Higher Education Institutions (HEIs) in order to further leap them towards internationalisation. The recognition of HICoE by MOHE is to identify the best of the best CoE in HEIs at the national level.

The first evaluation exercise of HICoE was undertaken in 2008. From 142 applications, 6 CoEs in 5 public HEIs have met the stringent requirements. With the approval of the Cabinet, on the recommendation of MoHE, the approved CoEs were formally designated to be HICoE on 30th October 2009. The efforts of identifying and acknowledging the achievement of CoEs in HEIs will encourage them to work towards becoming a global leader in their research niche areas. Thus, HICoE will be supported and facilitated by MoHE so that they will become the focused vehicles that will drive the R&D and innovation agenda, particularly in fundamental research, as well as contributing to human capital development.

- 01 **Universiti Malaya Power Energy Dedicated Advanced Centre (UMPEDAC)**
- 02 **Institute of Ocean and Earth Sciences (IOES)**
- 03 **Photonic Research Centre Universiti Malaya (PRCUM)**
- 04 **Tropical Infectious Research and Education Centre (TIDREC)**
- 05 **Centre for Research in Biotechnology for Agriculture (CEBAR)**
- 06 **Nanotechnology and Catalysis Research Centre (NANOCAT)**



**NOTES:**  
HICoE : Higher Institution Centre of Excellence  
UMCoE : Universiti Malaya Centre of Excellence

# CEO Director

Teaching staff is of central importance at our faculty. Under the leadership of our CoE Directors, would ensure quality higher education rests upon academic staff's knowledge, skills, competencies, abilities, attitudes, and work ethics, irrespective of status ranging from a lecturer, senior lecturer, associate professor, professor to a distinguished professor. As a result, we have high quality and well-motivated academicians, together with a supportive intellectual, innovative and professional culture.



**Professor. Dr.  
Jeyraj Selvaraj**

UM Power Energy Dedicated  
Advanced Centre (UMPEDAC)



**Professor. Dr.  
Lim Phaik Eem**

Institute of Ocean and Earth  
Sciences (IOES)



**Professor. Ir. Dr.  
Hazlie Mokhlis**

Photonics Research Centre



**Associate Professor  
Dr. Low Van Lun**

Tropical Infectious Diseases  
Research & Education Centre  
(TIDREC)



**Associate Professor  
Dr. Tan Boon Chin**

Centre for Research in  
Biotechnology for Agriculture  
(CEBAR)



**Professor. Dr. Mohd  
Rafie Bin Johan**

Nanotechnology & Catalysis  
Research Centre (NANOCAT)



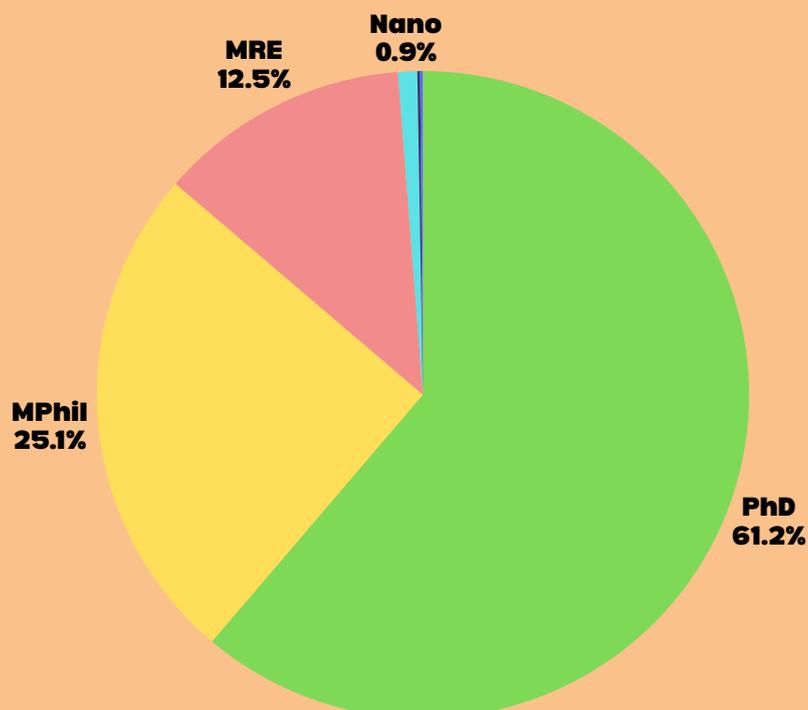
DEWAN TUNKU CANSOLOR

# 737 *Student Enrolment*

Our academic programmes are globally recognised and accredited. We offer multidisciplinary and niche area programmes jointly coordinated by the Higher Education Center of Excellence (HICoE) and the University of Malaya Centre of Excellence (UMCoE).

## CURRENT *Student Enrolment*

Session 2024/2025 (Semester 1&2)

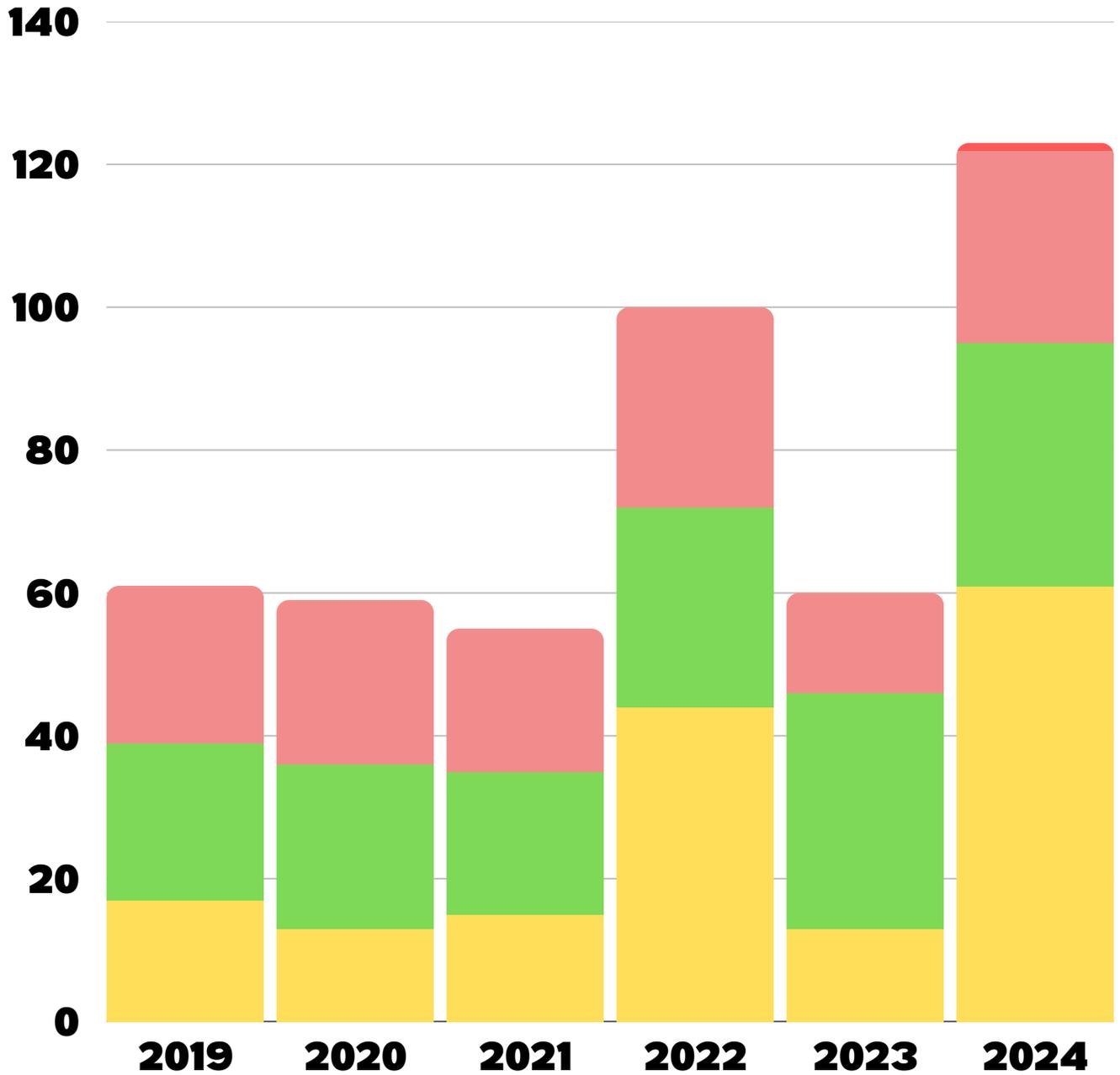


# Number of Completion

(GRADUATES)

● MPhil ● PhD ● MRE

● Nanotechnology



2019: 39

2020: 36

2021: 32

2022: 72

2023: 60

2024: 123

# ACADEMIC CALENDAR

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2025/2026

**ACADEMIC CALENDAR 2025/2026 ACADEMIC SESSION  
(MASTER AND DOCTORATE LEVEL)  
AMENDMENT**

<b>SEMESTER I</b>					
Orientation ( <i>Week of Welcome</i> ) - WOW	1	week	05.10.2025	-	12.10.2025
Lectures	6	weeks*	13.10.2025	-	23.11.2025
Mid Semester I Break	1	week	24.11.2025	-	30.11.2025
Lectures	8	weeks*	01.12.2025	-	25.01.2026
Revision Week	1	weeks*	26.01.2026	-	01.02.2026
Semester I Final Examination	3	weeks*	02.02.2026	-	22.02.2026
Semester I Break	2	week	23.02.2026	-	08.03.2026
	<u>22</u>	weeks			
<b>SEMESTER II</b>					
Lectures	7	weeks*	09.03.2026	-	26.04.2026
Mid Semester II Break	1	week	27.04.2026	-	03.05.2026
Lectures	7	weeks*	04.05.2026	-	21.06.2026
Revision Week	1	week*	22.06.2026	-	28.06.2026
Semester II Final Examination	3	weeks*	29.06.2026	-	19.07.2026
Semester II Break	4	weeks	20.07.2026	-	16.08.2026
	<u>23</u>	weeks			
<b>SPECIAL SEMESTER</b>					
Lectures	7	weeks*	27.07.2026	-	13.09.2026
Special Semester Final Examination	1	week*	14.09.2026	-	20.09.2026
Special Semester Break	1	week	21.09.2026		28.09.2026
	<u>9</u>	weeks			

**Notes:**

(1) The Module Registration and Examination Schedule can be referred to at <https://umsitsguide.um.edu.my>. All information is subject to change.

(\*) The Academic Calendar has taken into account public and festive holidays and is subject to change:

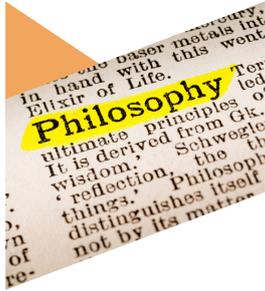
Deepavali	20 October 2025 (Monday)
Christmas Day	25 December 2025 (Thursday)
New Year	01 January 2026 (Thursday)
Thaipusam	01 February 2026 (Sunday)
Federal Territory Day	01 February 2026 (Sunday)
Chinese New Year	17 & 18 February 2026 (Tuesday & Wednesday)
Nuzul Al-Quran	07 March 2026 (Saturday)
Eidul Fitri	20 & 21 March 2026 (Friday & Saturday)
Labour Day	01 May 2026 (Friday)
Eidul Adha	27 May 2026 (Wednesday)
Wesak Day	31 May 2026 (Sunday)
His Majesty the King's Birthday	01 June 2026 (Monday)
Awal Muharram	16 June 2026 (Tuesday)
Prophet Muhammad's (Maulidur Rasul)	25 August 2026 (Tuesday)
National Day	31 August 2026 (Monday)
Malaysia Day	16 September 2026 (Wednesday)

(\*) UM PG iFest 2026

09 - 11 June 2026 (Tuesday - Thursday)

\*Senate August 28, 2025

# ACADEMIC PROGRAMME



## Research

- Doctor of Philosophy (PhD)
- Master of Philosophy (MPhil)



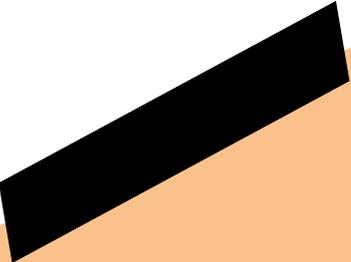
## Coursework

- Master of Renewable Energy
- Master of Biosecurity
- Master of Advanced Studies



## Mixed Mode

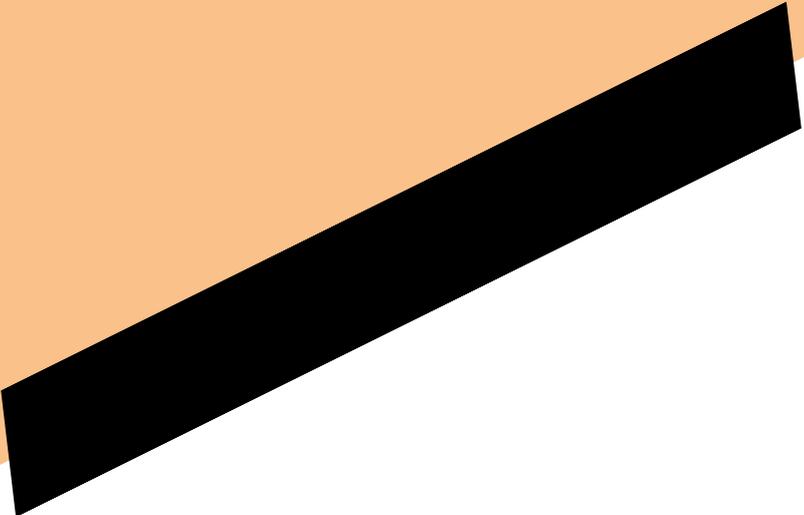
- Master of Applied Sciences (Nanotechnology)



# **Academic Programme**

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# **(RESEARCH)**



# DOCTOR OF PHILOSOPHY (PHD)

PhD programme is a multidisciplinary doctorate degree for candidates who wish to carry out broader horizons in their research areas. The benefits will include the production of knowledge through innovative scholars and the creation of working networks across disciplines and departments throughout the university.

By teaming up with complementary research groups, individuals can combine their collective expertise and gain synergy. These results increased the chances of original (high-impact) research and the potential to get more output with less work.

By nature, multidisciplinary doctorate degrees cover many academic areas, providing candidates with solid academic foundations for multiple careers.

**“Pursuing a PhD at IAS is a decision to pursue a PhD with impact and to become an inspiring researcher committed to improving life”**

## GENERAL ENTRY REQUIREMENT

Applicants should possess one of following:

- Master’s degree or its equivalent in relevant discipline/field, or
- Any other qualifications approved by the Senate (except for conversion from Master’s to Doctorate programme)

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5 ≥ IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4 ≥ MUET; or
- Score 51 ≥ PTE Academic; or
- Grade C ≥ English Language in A Level, Univ. of Cambridge; or
- Grade C ≥ Cambridge Assessment English: First (FCE); or
- Grade C ≥ Cambridge Assessment English: First CAE; or
- Grade C ≥ Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 4 Semesters
- Maximum: 12 Semesters

### Course Structure

- The PhD degree is offered by research mode only leading to the submission of a thesis.
- Candidates are required to take **Advanced Research Methodology course (3 credit hours)** in the first year of study.

## FEES STRUCTURE

### Full Time

- Local - RM32,400
- International - RM80,900

### Part Time

- Local - RM52,300
- International - RM111,900

## **PROGRAMME LEARNING OUTCOME (PLO) (PhD Candidates)**

**PLO 1 :** Demonstrate a critical and in-depth understanding of frontier knowledge by generating substantial and original contributions to a field and/or practice.

**PLO 2 :** Synthesise and integrate existing and new knowledge in one or more discipline areas to address challenges and concerns in the field of research.

**PLO 3 :** Conduct rigorous research or investigation with sustainable self-independence.

**PLO 4 :** Demonstrate intellectual leadership qualities and management skills.

**PLO 5 :** Perform research adhering to legal, ethical, professional and sustainable practices.

**PLO 6 :** Communicate cogently with experts in the field and general audience.

**PLO 7 :** Use suitable digital and analytical techniques to research problems.

**PLO 8 :** Demonstrate commitment to lifelong learning and professional development with entrepreneurial mindset.

## **SEMINAR PRESENTATION GUIDELINES (PhD Candidates)**

The conduct of a candidature seminar refers to the periodic monitoring process of a candidate's research progress (for example, through progress reports or presentation of research proposals) to evaluate knowledge, critical thinking, practical, technical, professional, scientific, and problem-solving skills. The candidate's evaluation process is through a Panel of Assessors appointed by the Responsibility Centre (RC).

The candidature seminar consists of the following:

- (a) Proposal Defence
- (b) Confirmation Defence
- (c) Candidature Defence
- (d) Thesis Seminar

The Head of the RC is responsible for ensuring that this procedure is followed during the conduct of the candidature seminar.

Anyone involved in the conduct of the candidature seminar must adhere to this procedure.

## **APPLICATION FOR THESIS SEMINAR PRESENTATION (PhD Candidates)**

### **APPLICATION FOR THESIS SEMINAR PRESENTATION (PHD CANDIDATE)**

#### **CONFERENCE PRESENTATION 01**

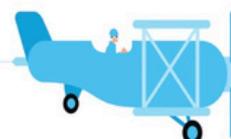
1. The candidate has presented (orally) research findings at local/international conference.
2. The candidate provides the proof of conference presentation (certificate of presentation/ appreciation, etc.) to [ias\\_seminar@um.edu.my](mailto:ias_seminar@um.edu.my)



**{OR}**

#### **THESIS SEMINAR PRESENTATION 02**

1. Supervisor nominates a Chairperson (senior lecturer and above) and ONE assessor (postdoc or RO is NOT allowed)
2. Supervisor will arrange candidate's thesis seminar with the panel members at their convenient time.
3. Supervisor sent the thesis seminar evaluation form together with the attendance list to [ias\\_seminar@um.edu.my](mailto:ias_seminar@um.edu.my)



#### **THESIS SEMINAR CONFIRMATION 03**

1. The DD's office will send a confirmation letter of thesis seminar to the candidate and supervisor after approval from the JKIT committee members.

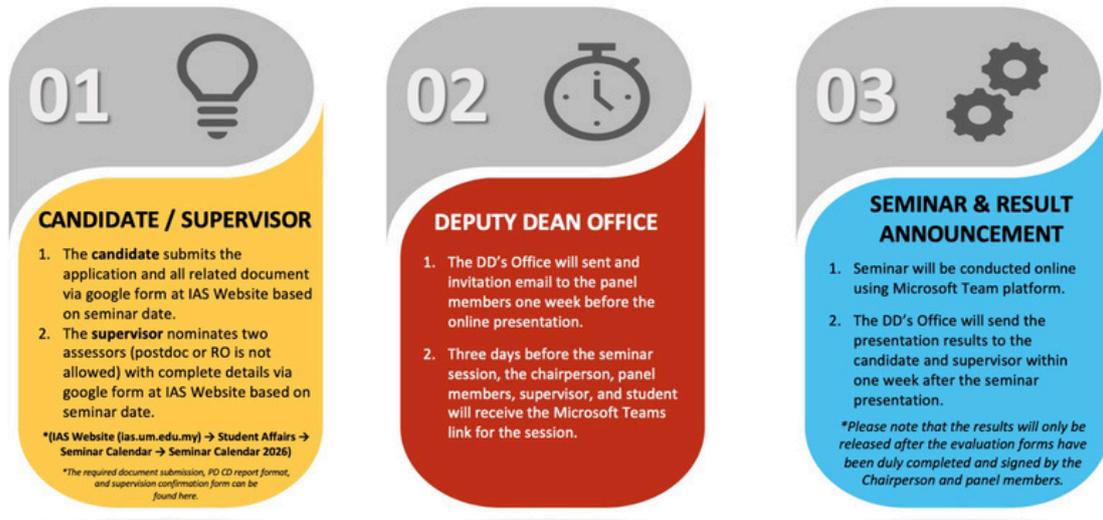


# APPLICATION FOR PROPOSAL/ CONFIRMATION/ CANDIDATURE DEFENCE (PhD Candidates)

## APPLICATION FOR PROPOSAL / CONFIRMATION / CANDIDATURE /

All applications must be submitted before the stipulated date\*

\*Applications that not complete or received after the stipulated date will not be process and need to apply again next month  
The seminar calendar is available at IAS Website



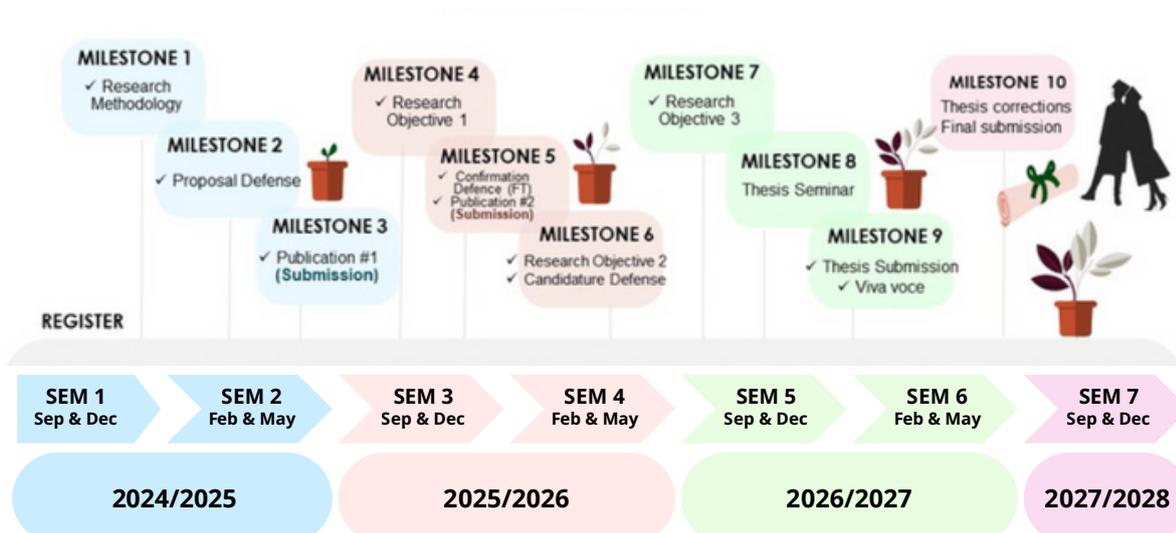
## SUBMISSION

### Other related documents:

<https://ias.um.edu.my/downloadable-form> -> Thesis Submission / Examination

1. Thesis Submission Form
2. Final Thesis Submission Form
3. Thesis or Dissertation Correction Report Form
4. Repository Form
5. APA Guidelines (UM Library)
6. IAS Declaration Form 2020 List Publication PhD Accepted
7. Guidelines for Publication in Fulfilment of Graduation Requirement for Postgraduate Candidates

## GRADUATE ON TIME (GOT) (PhD Candidates)



# MASTER OF PHILOSOPHY (MPHIL)

The Master of Philosophy (MPhil) is conducted purely based on individual supervised research and the candidates will carry out research in their areas of specialization. In most fields, the Master is considered the pinnacle of academic achievement, and the Master of Philosophy is a testament to the candidate's academic excellence and ability.

The candidates will have a chance to pursue their dreams in key areas of sciences, social sciences and humanities. The MPhil research approach is based on tools of different sciences (i.e., systematic organization of knowledge) and disciplines which are utilized to explain the issue under study, as a means to bridge gaps in problem-solving that result from disciplinary specialization

## GENERAL ENTRY REQUIREMENT

- Bachelor's Degree or equivalent in the related field with minimum CGPA of 3.00 or its equivalent; or
- Other qualifications approved by the University Senate.

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5  $\geq$  IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4  $\geq$  MUET; or
- Score 51  $\geq$  PTE Academic; or
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- Grade C  $\geq$  Cambridge Assessment English: First (FCE); or
- Grade C  $\geq$  Cambridge Assessment English: First CAE; or
- Grade C  $\geq$  Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 2 Semesters
- Maximum: 8 Semesters

### Course Structure

- The Master of Philosophy Programme leads to the submission of a thesis.
- Candidates are required to take **Research Methodology course (3 credit hours)** in the first year of study.

## FEES STRUCTURE

### Full Time

- Local - RM21, 600
- International - RM43, 200

### Part Time

- Local - RM33, 400
- International - RM66, 700

## **PROGRAMME LEARNING OUTCOME (PLO)** (MPhil Candidates)

**PLO 1** : Demonstrate a critical and in-depth understanding of frontier knowledge by generating substantial and original contributions to a field and/or practice.

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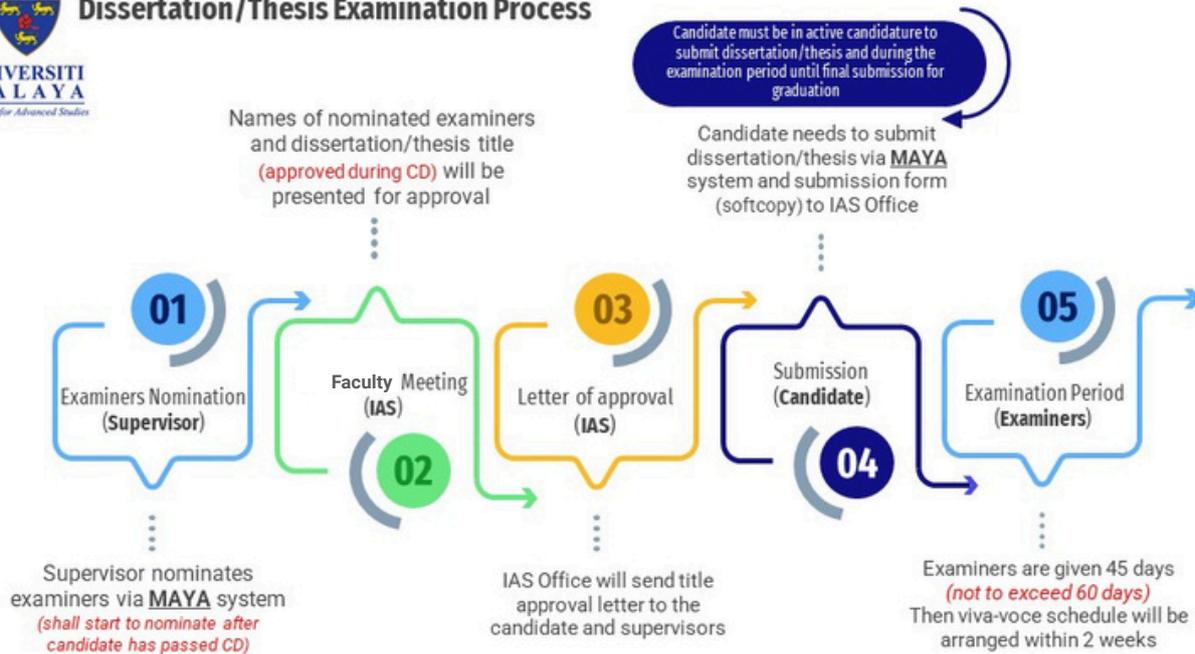
### **APPLICATION FOR PROPOSAL / CONFIRMATION / CANDIDATURE /**

*All applications must be submitted before the stipulated date\**

*\*Applications that not complete or received after the stipulated date will not be process and need to apply again next month  
The seminar calendar is available at IAS Website*



## Dissertation/Thesis Examination Process



## MPHIL TO PHD CONVERSION

### Candidacy Status Conversion

Candidates for a Master of Philosophy (MPhil) programme by full-time research may be considered for the conversion of their candidacy status to a Doctor of Philosophy (PhD) programme by full-time research subject to the following conditions:

- The application period for change of candidacy status is between twelve (12) months from the date of commencement of registration of the MPhil program of study;
  - Submit a written application to the Supervisor using the form as in Appendix 1;
  - Submit one (1) research report not exceeding 6,000 words on:
    - Introduction and scope of research;
    - Research objectives;
    - Research methods;
    - Research plans to lead to the PhD programme stage.
  - Submit research results during the study period of the MPhil programmes, namely:
    - one journal paper accepted for publication and one seminar presentation at the university, national or international level; **OR**
    - a patent application that is pending or has been approved and a seminar presentation at the university, national or international level;
- A full-time candidate must present his research results in one (1) seminar in front of a panel of evaluators consisting of two (2) experts from within or outside the University in related fields as determined by PTj.
  - The period of nomination for the MPhil programme is taken into account in the period of study of the PhD programme by research.

(4) A full-time candidate who is approved for a change of candidacy status is required to register for a PhD programme by research not later than the second lecture week of the following semester.

(5) A full-time candidate who is approved for a change of candidacy status do not need to take the Advanced Research Methodology course at the PhD programme level.

(6) A full-time candidate who is approved for a change of candidacy status shall meet the requirements of the graduation requirements including the publication requirements for the PhD programme by research.

Source: <https://ias.um.edu.my/downloadable-formubheading>

## **SUBMISSION**

### **Other related documents:**

<https://ias.um.edu.my/downloadable-form> -> Thesis Submission / Examination

1. Thesis Submission Form
2. Final Thesis Submission Form
3. Thesis or Dissertation Correction Report Form
4. Repository Form
5. APA Guidelines (UM Library)
6. IAS Declaration Form 2020 List of Publication MPhil Accepted
7. Guidelines for Publication in Fulfilment of Graduation Requirement for Postgraduate Candidates

## **SUPERVISION POLICY OF POSTGRADUATE CANDIDATES AT THE UNIVERSITI MALAYA ONLINE PORTAL**

A more convenient online process

Go to > <https://ias.um.edu.my/>

Choose > <https://ias.um.edu.my/downloadable-form>

Click > **Application of Appointment / Change for Supervisor / Consultant**

## **PROGRAMME COORDINATOR PHD**

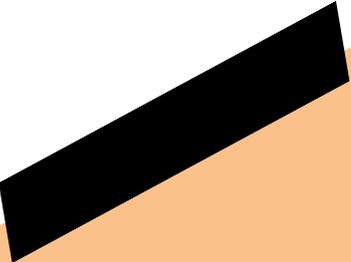


**DR. ZULFIRDAUS  
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03 7967 2374

## **PROGRAMME COORDINATOR MPHIL**



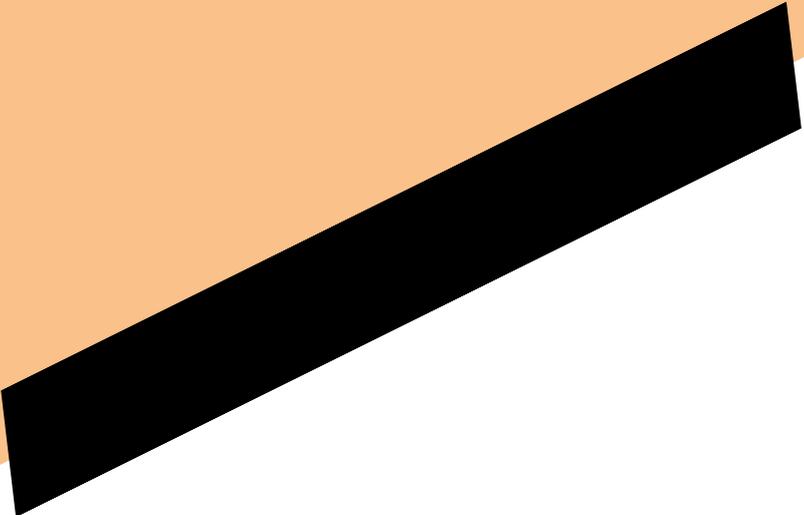
**DR. ADIBI RAHIMAN  
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# **Academic Programme**

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## **(COURSEWORK)**



# MASTER OF RENEWABLE ENERGY (MRE)

Master of Renewable Energy Programme is designed to produce experts in the field of Renewable Energy among local and international students. This program offers opportunity for professional and graduate students with advanced understanding in various core applications in Renewable Energy technology and management.

The programme aims to develop human resources with the knowledge and skills to advance research and development of effective measures to address current energy issues. It also offers an education that is directly relevant to the latest advancements in the Renewable Energy related industry.

## GENERAL ENTRY REQUIREMENT

- Bachelor's Degree or equivalent in the related field with minimum CGPA of 3.00 or its equivalent; or
- Other qualifications approved by the University Senate.

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5  $\geq$  IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4  $\geq$  MUET; or
- Score 51  $\geq$  PTE Academic; or
- Grade C  $\geq$  English Language in A Level, Univ. of Cambridge; or
- Grade C  $\geq$  Cambridge Assessment English: First (FCE); or
- Grade C  $\geq$  Cambridge Assessment English: First CAE; or
- Grade C  $\geq$  Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 2-3 Semesters
- Maximum: 8 Semesters

<b>Core Subject</b>	<b>Credits</b>	<b>Elective Subject</b> <i>(Choose 5)</i>	<b>Credits</b>
• Research Methodology	3	• Smart Grid	3
• Research Project	12	• Bioenergy	3
• Energy for Sustainable Development	3	• Energy Storage Technology	3
• Energy Policy	3	• Low Carbon Buildings	3
• Energy Efficiency and Management	3	• Energy Economics	3
• Foundation of Renewable Energy	3	• Solar Energy	3
		• Hydro Energy	3
		• Integration of Solar Photovoltaic System	3
<b>Total</b>	<b>27</b>	<b>Total</b>	<b>15</b>
<b>Overall Credits 42</b>			

## FEES STRUCTURE

### Full Time

- Local - 23, 400
- International - RM37, 700

## PROGRAMME LEARNING OUTCOME (PLO)

**PLO 1 :** Demonstrate expertise in the renewable energy field.

**PLO 2 :** Produce solutions to problems using scientific skills and critical thinking in the field of renewable energy.

**PLO 3 :** Translate the knowledge learnt into practical skills in renewable energy field.

**PLO 4 :** Managing information in digital age for lifelong learning in the field of renewable energy.

**PLO 5 : Demonstrate ability to communicate and work as a team.**

**PLO 6 :** Demonstrate leadership quality through effective communication among renewable energy partners and agencies.

**PLO 7 : Demonstrate entrepreneurial mindset in dealing with energy related projects.**

**PLO 8 :** Conduct research with minimum supervision and adhere to legal, ethical and professional practice codes in areas related to renewable energy.

## PROGRAMME COORDINATOR



**DR. SITI ROHANI  
SHEIKH RAIHAN**  
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03 2246 3418

# MASTER OF AGRICULTURAL BIOSECURITY

The Master of Agricultural Biosecurity programme is your gateway to becoming a leader in the critical field of biosecurity. This coursework-based degree equips you with a comprehensive understanding of key topics, ranging from cutting-edge detection and diagnostics to the challenges of agricultural pests and diseases. With core courses covering Advances in Detection and Diagnostics for Biosecurity, Agricultural Biotechnology, Epidemiology of Agricultural Pests and Diseases, Malaysian and International Environmental Policy, and Risk Assessment and Management of Biosecurity, you will develop a robust foundation in the discipline.

## GENERAL ENTRY REQUIREMENT

- Bachelor's Degree or equivalent in the related field with minimum CGPA of 3.00 or its equivalent; or
- Other qualifications approved by the University Senate.

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5  $\geq$  IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4  $\geq$  MUET; or
- Score 51  $\geq$  PTE Academic; or
- Grade C  $\geq$  English Language in A Level, Univ. of Cambridge; or
- Grade C  $\geq$  Cambridge Assessment English: First (FCE); or
- Grade C  $\geq$  Cambridge Assessment English: First CAE; or
- Grade C  $\geq$  Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 2-3 Semesters
- Maximum: 8 Semesters

### Core Subject

#### Credits

- Research Methodology 3
- Detection and Diagnostics for Biosecurity 3
- Communication, Culture, Cooperation, Community and Compliance 3
- Advances in Agricultural Biotechnology 3
- Epidemiology of Agricultural Pests and Diseases 3
- Malaysian and International Environmental Policies 3
- Risk and Assessment and Biosecurity Management 3
- Agricultural Biosecurity Research Project 12

**Total** 33

### Elective Subject

(Choose 3)

#### Credits

- Plant Biosecurity 3
- Bioethics 3
- Animal Biosecurity 3
- Emerging and Infectious diseases 3
- Sustainable Agricultural Development 3

**Total** 9

**Overall Credits** 42

## FEES STRUCTURE

### Full Time

- Local - RM23, 400
- International - RM43, 600

### Part Time

- Local - RM29, 100
- International - RM56, 000

## PROGRAMME LEARNING OUTCOME (PLO)

**PLO 1** : Demonstrate comprehensive knowledge and understand across disciplines related to agricultural biosecurity.

**PLO 2** : Analyse, evaluate and integrate the latest information from relevant sources for inclusion in the field of agricultural biosecurity

**PLO 3** : Identify, design, and provide innovative and effective solutions to problems related to agricultural biosecurity with limited guidance and produce reliable data for scientific reports individually or in groups

**PLO 4** : Apply knowledge in agricultural biosecurity to strengthen communication and improve capability to work in a team

**PLO 5** : Uses a variety of information, media applications and technologies to calculate, analyse, interpret, and present data

**PLO 6** : Demonstrate leadership qualities and interpersonal skills in planning, resource management and problem solving in groups in academic activities

**PLO 7** : Increase commitment towards lifelong learning and information management in agricultural biosecurity

**PLO 8** : Demonstrate understanding, awareness and adherence to biosafety, ethical, professional, and legal norms as well as awareness of commercial and social issues related to agricultural biosecurity

## PROGRAMME COORDINATOR



**DR. CHUA KAH OOI**

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03 7967 6990

# MASTER OF ADVANCED STUDIES

In this new era of market competition, it is crucial to provide graduates with interdisciplinary thinking and skills so that they can effectively tackle these challenges. One solution to bridging the skills gap is by enhancing knowledge and skills.

Master of Advanced Studies program is designed for individuals from diverse experiences and backgrounds. The combination of Integrated Analytics and Sustainable Leadership, which serves as the program's direction, reflects a holistic approach to addressing complex challenges comprehensively.

This interdisciplinary Master's degree program offers stackable credentials and a flexible curriculum, allowing students to explore various topics across different fields or specialize in a specific area.

## GENERAL ENTRY REQUIREMENT

- Bachelor's Degree or equivalent in the related field with minimum CGPA of 3.00 or its equivalent; or
- Other qualifications approved by the University Senate.

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5 ≥ IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4 ≥ MUET; or
- Score 51 ≥ PTE Academic; or
- Grade C ≥ English Language in A Level, Univ. of Cambridge; or
- Grade C ≥ Cambridge Assessment English: First (FCE); or
- Grade C ≥ Cambridge Assessment English: First CAE; or
- Grade C ≥ Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 2-3 Semesters
- Maximum: 8 Semesters

### Core Subject

• Research Methodology	3
• Data Analytics in Decision Making	4
• Organisational Management, Culture and Leadership	3
• Project Management	4
• Environmental, Social and Governance	3
• Computational Thinking and Design Thinking	4
• Capstone Project	9

**Total** 30

**Overall Credits** 42

### Elective Subject From Different Cluster *(Choose 3)*

*Select a minimum of 3 subjects from 1 cluster*

- Environment & Infrastructure
- Technology & Innovation
- Policy & Governance
- Health & Wellbeing

**Total** 12

## **FEES STRUCTURE**

### **Full Time**

- Local - RM25, 300
- International - RM48, 100

### **Part Time**

- Local - RM31, 300
- International - RM61, 400

## **PROGRAMME LEARNING OUTCOME (PLO)**

**PLO 1** : Demonstrate advanced knowledge of the latest applications and developments in professional practice.

**PLO 2** : Utilize thinking skills in solving problems to improve the quality of life and career.

**PLO 3** : Identify, design and conduct relevant research in solving current world issues efficiently and effectively.

**PLO 4** : Utilize digital and numerical skills for lifelong learning in solving current world issues.

**PLO 5** : Demonstrate communication skills and the ability to work in a team.

**PLO 6** : Demonstrate leadership qualities among friends and community in solving current issues.

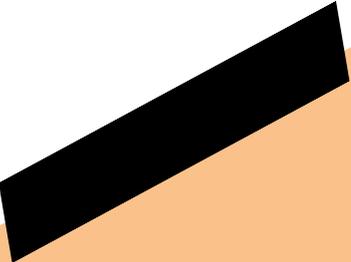
**PLO 7** : Demonstrate commitment and entrepreneurial thinking in current issues being resolved.

**PLO 8** : Create community of practice in compliance with legislation, ethics and code of professional conduct.

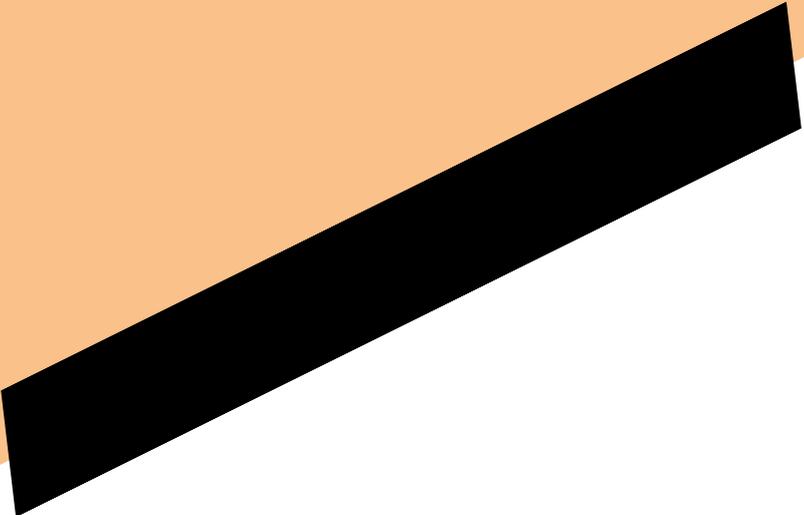
## **PROGRAMME COORDINATOR**



**DR. SONG SZE LOOI**  
szelooi@um.edu.my  
03 7967 4683



# **Academic Programme** **(MIXED MODE)**



# MASTER OF APPLIED SCIENCES (NANOTECHNOLOGY)

Master of Applied Sciences (Nanotechnology) is the first mixed mode programme in Malaysia that offers both upskilling and reskilling opportunities in the field of nanotechnology for fresh graduates and working adults.

This unique programme aims to provide candidates with in-depth knowledge and skills required in the field of nanotechnology in line with current developments.

## GENERAL ENTRY REQUIREMENT

- Bachelor's Degree or equivalent in the related field with minimum CGPA of 3.00 or its equivalent; or
- Other qualifications approved by the University Senate.

## ENGLISH LANGUAGE REQUIREMENT

- Band 5.5  $\geq$  IELTS Academic; or
- Score 550 (PBT) / 213 (CBT) / 46 (IBT- centre based) in TOEFL; or
- Band 4  $\geq$  MUET; or
- Score 51  $\geq$  PTE Academic; or
- Grade C  $\geq$  English Language in A Level, Univ. of Cambridge; or
- Grade C  $\geq$  Cambridge Assessment English: First (FCE); or
- Grade C  $\geq$  Cambridge Assessment English: First CAE; or
- Grade C  $\geq$  Cambridge Assessment English: First (CPE)

## PROGRAMME STRUCTURE

### Duration

- Minimum: 3-4 Semesters
- Maximum: 8-9 Semesters

<b>Core Subject</b>	<b>Credits</b>	<b>Elective Subject</b> <i>(Choose 3)</i>	<b>Credits</b>
• Nanotechnology	3	• Design, Synthesis and Fabrication	3
• Research Methodology	3	• Characterization Techniques	3
• Dissertation	30	• Nanosafety and Health	3
		• Nanoelectronics	3
		• Nanomedicine	3
		• Nanobiotechnology	3
		• Environmental Nanobiotechnology	3
		• Nanobiotechnology in Food and Agriculture	3
		<b>Total</b>	<b>6</b>
	<b>Total</b>		
	<b>36</b>		
	<b>Overall Credits</b>	<b>42</b>	

## FEES STRUCTURE

### Full Time

- Local - RM29, 700
- International - RM46, 100

### Part Time

- Local - RM36, 500
- International - RM58, 500

## PROGRAMME LEARNING OUTCOME (PLO)

**PLO 1 :** Demonstrate advanced knowledge of the latest applications and developments in the field of nanotechnology.

**PLO 2 :** Master critical thinking skills in problem solving with nanotechnology to improve quality of life.

**PLO 3 :** Integrate relevant scientific theories in the field of nanotechnology as well as conduct relevant research efficiently and effectively.

**PLO 4 :** Integrate science and nanotechnology knowledge to strengthen communication, enhance leadership and collaborative works.

**PLO 5 :** Apply digital information management and numerical skills to analyze, interpret and present data in the development of nanotechnology.

**PLO 6 :** Practice social responsibility in the use of nanotechnology in local and international arenas.

**PLO 7 :** Foster commitment to lifelong learning and information management in the field of nanotechnology.

**PLO 8 :** Practice pure values, positive attitudes, and ethics of professionalism as a profession in the field of nanotechnology.

## SEMINAR PRESENTATION GUIDELINES

The conduct of a candidature seminar refers to the periodic monitoring process of a candidate's research progress (for example, through progress reports or presentation of research proposals) to evaluate knowledge, critical thinking, practical, technical, professional, scientific, and problem-solving skills. The candidate's evaluation process is through a Panel of Assessors appointed by the Responsibility Centre (RC).

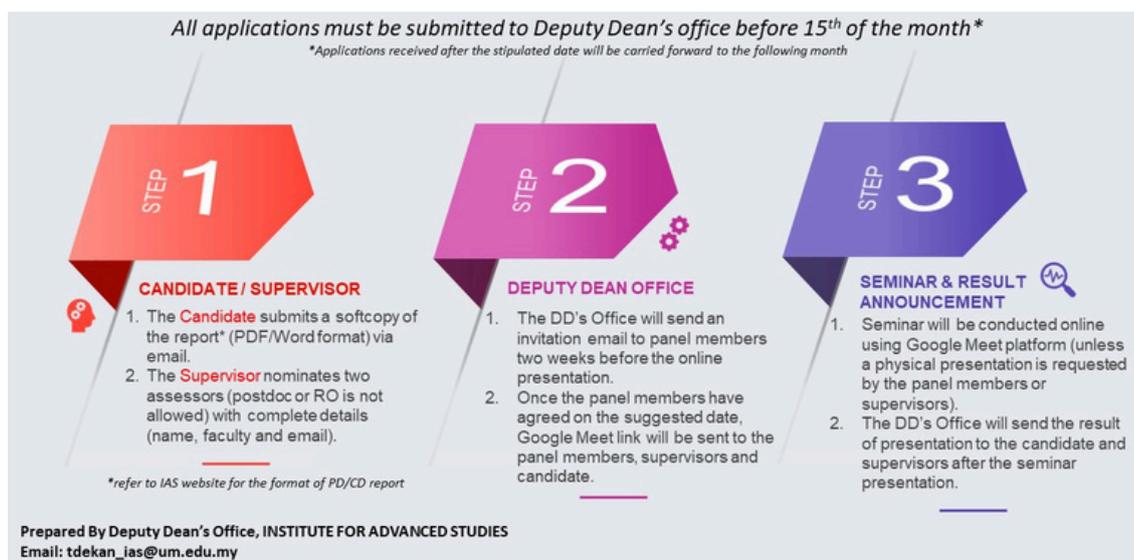
The candidature seminar consists of the following:

- ((a) Proposal Defence
- (b) Candidature Defence

The Head of the RC is responsible for ensuring that this procedure is followed during the conduct of the candidature seminar.

Anyone involved in the conduct of the candidature seminar must adhere to this procedure.

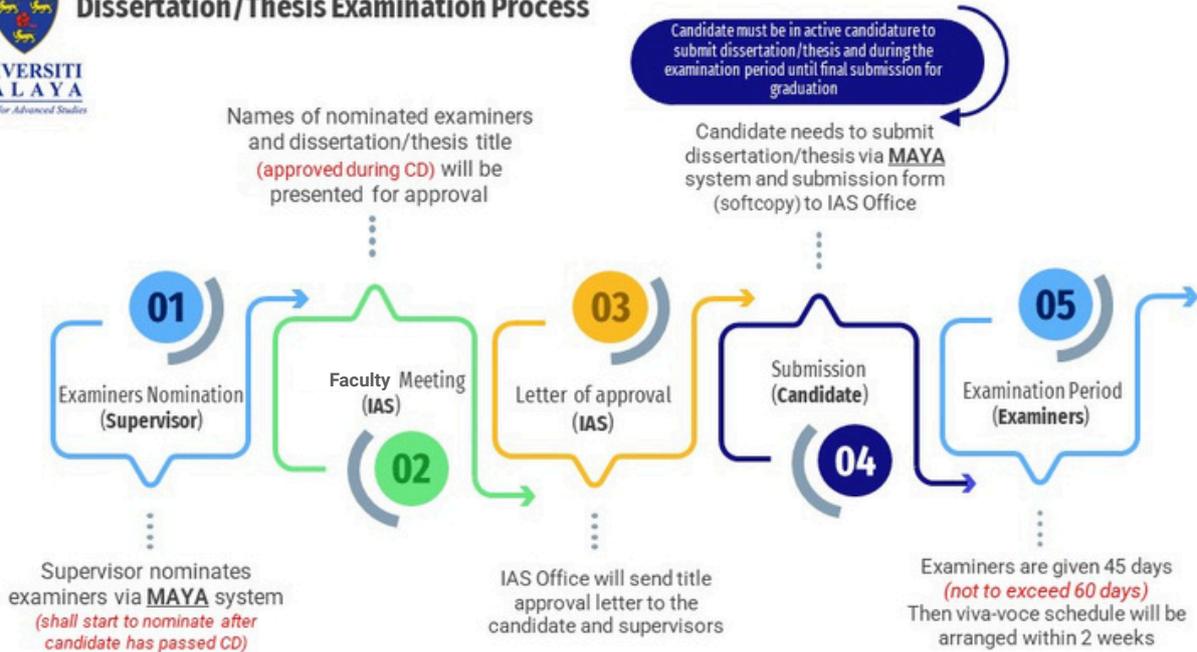
## APPLICATION FOR PROPOSAL/ CONFIRMATION/ CANDIDATURE DEFENCE





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*Institute for Advanced Studies*

## Dissertation/Thesis Examination Process



## SUBMISSION

### Other related documents:

<https://ias.um.edu.my/downloadable-form> -> Thesis Submission / Examination

1. Thesis Submission Form
2. Final Thesis Submission Form
3. Thesis or Dissertation Correction Report Form
4. Repository Form
5. APA Guidelines (UM Library)
6. IAS Declaration Form 2020 List of Publication MPhil Accepted
7. Guidelines for Publication in Fulfilment of Graduation Requirement for Postgraduate Candidates

## SUPERVISION POLICY OF POSTGRADUATE CANDIDATES AT THE UNIVERSITI MALAYA ONLINE PORTAL

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## PROGRAMME COORDINATOR



**ASSOCIATE. PROF. DR.  
ONG BOON HOONG**

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# ***Academic Policies***

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# Academic Policies

<https://umsitsguide.um.edu.my/>

## ***Renewal of Candidature (Registration)***

Any candidate who fails to register continuously for a duration of two (2) semesters with the University ceases to be a student and the student's name will be dropped from the register of students of the University.



## ***Failing out and Termination of Candidature***

1. Failing the candidature defence 2 times
2. Non-satisfactory progress report 2 semesters in a row
3. Failing the dissertation/thesis
4. Failure to complete the programme requirements within the maximum time frame





# FACILITIES @IAS

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**Auditorium**



**Seminar Room**



**The cube 1**



**The cube 2**



**Akasia Room**



**Jasmine Room**



**Computer Lab**



**Azalea Meeting Room**



**Anggerik Meeting Room**



**Research Nest**



**AKAR Co-working Space**



## OUR *Contacts*

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