



PROSPECTUS

MASTER OF ADVANCED STUDIES

Master by Coursework

Provisional Accredited Programme by
Malaysian Qualification Agency (MQA)
MQA / PSA 17311

Academic session
2025/2026



INSTITUT PENGAJIAN TERMAJU
Institute for Advanced Studies

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WHY CHOOSE MASTER OF ADVANCED STUDIES?

Four Key Advantages

1. Explore current high-demand areas such as Environmental, Social and Governance (ESG), Project Management, and Organisational Management, Culture and Leadership.
2. Enhance your expertise by developing essential skills in Computational Thinking and Design Thinking, and Data Analytics in Decision Making.
3. Customize your education in various fields of interest, including Environment & Infrastructure, Technology & Innovation, Policy & Governance, and Health & Wellbeing.
4. Gain real-world practical skills through a Capstone Project.

Potential Careers

The Master of Advanced Studies equips students with the knowledge, skills, and competencies needed to develop strong career pathways and to take on diverse responsibilities, such as:

1. Senior Administrator
2. Project Manager
3. Operations / Department Manager

MISSION, VISION, and CORE VALUES of UNIVERSITI MALAYA



Universiti Malaya (UM), Malaysia's oldest university, is situated on a 900 acre campus in the southwest of Kuala Lumpur, the capital of Malaysia. It was established in April 1949 in Singapore with the merger of the King Edward VII College of Medicine (founded in 1905) and Raffles College (founded in 1928).

The Universiti Malaya derives its name from the term 'Malaya' as the country was known as then. The Carr-Saunders Commission, which recommended the setting up of the university, noted in its Report in 1948: *"The Universiti Malaya would provide for the first time a common centre where varieties of race, religion and economic interest could mingle in joint endeavour. For a Universiti Malaya must inevitably realise that it is a university for Malaya."*

The growth of the University was very rapid during the first decade of its establishment and this resulted in the setting up of two autonomous Divisions in 1959, one located in Singapore and the other in Kuala Lumpur. In 1960, the government of the two territories indicated their desire to change the status of the Divisions into that of a national university. Legislation was passed in 1961 and the Universiti Malaya was established on 1st January 1962.

On June 16th 1962, Universiti Malaya celebrated the installation of its first Chancellor, Tunku Abdul Rahman Putra Al-Haj, who was also the country's first prime minister. The first Vice-Chancellor was Professor Oppenheim, a world-renowned Mathematician. Currently, His Royal Highness The Sultan of Perak Darul Ridzuan is the Chancellor of UM.

Vision

A global university impacting the world.

Mission

Pushing the boundaries of knowledge and nurturing aspiring leaders.

The Core Values of Universiti Malaya

PASSION

ONENESS

INTEGRITY

SINCERITY

EMPATHY

EDUCATIONAL GOALS

Universiti Malaya's Educational Objective is to provide a transformative education that empowers students with the necessary knowledge, skills and ethical values to enable them to advance knowledge, promote social justice, drive sustainable development and contribute meaningfully to society.

Graduates of the Universiti Malaya will be able to:

- Apply knowledge and skills with an innovative mindset towards sustainability and inclusivity.
- Utilize effective and advanced information management methods to make data-informed decisions and achieve goals in line with the relevant professional standards.
- Engage effectively with academia, public authorities, industries, and the community, in carrying out professional and social responsibilities.
- Internalize and demonstrate integrity, resilience, agility, and empathy in personal, professional, and global community engagement. Core values for students:
 - ◇ Integrity: Truthfulness, honesty
 - ◇ Resilience: Capacity to withstand
 - ◇ Agility: Adaptability
 - ◇ Empathy: Show of respect & understanding

DEAN'S FOREWORD

Welcome to IAS
recognized Institute for Advanced Studies



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 post-graduate 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.

PROFESSOR DR. RAMESH T. SUBRAMANIAM

Dean Institute for Advanced Studies

IAS VISION and BACKGROUND

Vision

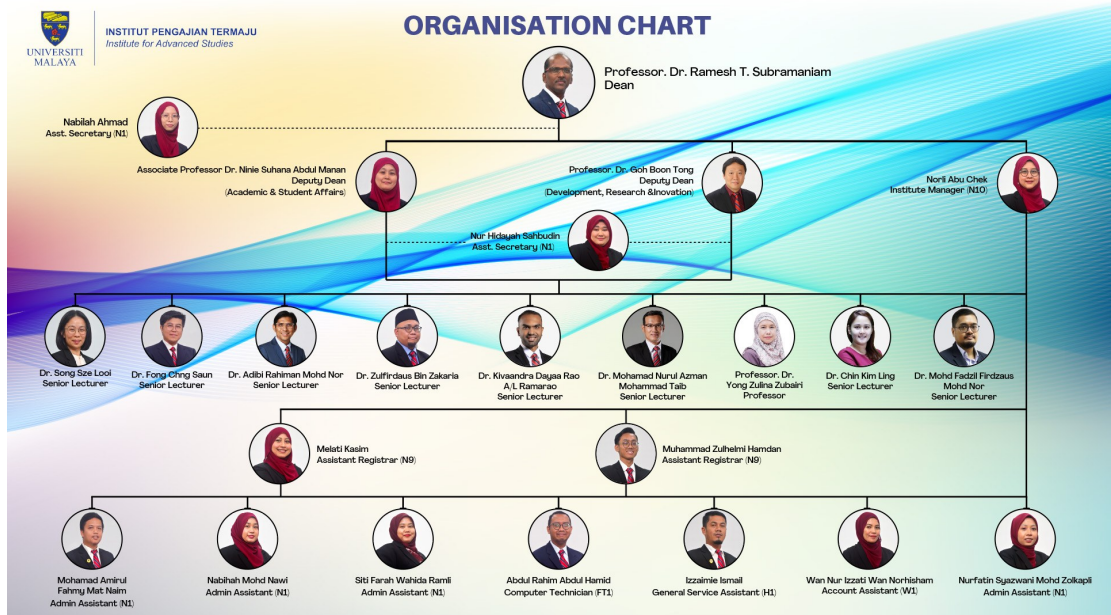
Our vision is for IAS to be the central body promoting active cultivation and dissemination of multidisciplinary knowledge in the sciences and the social science areas

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 517 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).



IAS ORGANISATIONAL STRUCTURE



IAS ACADEMIC STAFF



Dr. Adibi Rahiman Mohd Nor
Senior Lecturer



Dr. Song Sze Looi
Senior Lecturer



Dr. Fong Chng Saun
Senior Lecturer



Professor Dr. Yong Zulina Zubairi
Professor



Dr. Chin Kim Ling
Senior Lecturer



Dr. Mohd Fadzil Firdaus Mohd Nor
Senior Lecturer



Dr. Zulfirdaus Zakaria
Senior Lecturer



Dr. Kivaandra Dayaa Rao Ramarao
Senior Lecturer



Dr. Mohamad Nurul Azman Mohammad Taib
Senior Lecturer

IAS ADMINISTRATION STAFF



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ACADEMIC CALENDAR

Note:

To ensure timely graduation, students are advised to register in Semester 1.

ACADEMIC CALENDAR 2025/2026 ACADEMIC SESSION (MASTER AND DOCTORATE LEVEL) AMENDMENT					
SEMESTER I					
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
	<hr/>				
	22	weeks			
SEMESTER II					
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
	<hr/>				
	23	weeks			
SPECIAL SEMESTER					
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
	<hr/>				
	9	weeks			

PROGRAMME TIMETABLE

Note:

- Capstone Project is offered in Semester 2
- The subjects offered may change from time to time

TIMETABLE FOR SEMESTER 1

DAY	TIME	COURSE CODE	COURSE TITLE	LECTURER
Monday	6.00 pm - 9.00 pm	HMX7001	Research Methodology	(1) Dr Zulfirdaus Zakaria (2) Dr Mohamad Nurul Azman (3) Dr Song Sze Looi
Tuesday	6.00 pm - 9.00 pm	HQC7004	Environmental, Social and Governance	Dr Fong Chng Saun
Wednesday	6.00 pm - 9.00 pm	HQC7001	Data Analytics in Decision Making	Dr Mohamad Nurul Azman
Thursday	6.00 pm - 9.00 pm	HQC7002	Organisational Management, Culture and Leadership	Dr Adibi Rahiman Md Nor
Friday	6.00 pm - 9.00 pm	HQC7003	Project Management	Dr Kivaandra Dayaa Rao A/L Ramarao

TIMETABLE FOR SEMESTER 2

DAY	TIME	COURSE CODE	COURSE TITLE	LECTURER
Wednesday	6.00 pm - 9.00 pm	HQC7005	Computational Thinking and Design Thinking	Prof Dr Hafizah Ab Hamid
		HQC7006	Capstone Project	
Subject to the elective course chosen		Elective course	Choose any course from one of the clusters	Subject to the elective course chosen
		Elective course	Choose any course from one of the clusters	

TIMETABLE FOR SPECIAL SEMESTER

DAY	TIME	COURSE CODE	COURSE TITLE	LECTURER
Subject to the elective course chosen		Elective course	Choose any course from one of the clusters	Subject to the elective course chosen
		Elective course	Choose any course from one of the clusters	

PLAGIARISM AND WRITING ETHICS

(In accordance with Section 6 of Plagiarism and writing Ethics, Part II, General Discipline, Universities and University Colleges Act, 1971, University of Malaya (Discipline of Students) Rules 2024)

1. Plagiarism and writing ethics

- (1) A student shall not plagiarize any idea, writing, data or invention belonging to another person.
- (2) For the purposes of this rule, plagiarism includes:
 - (a) the act of taking an idea, writing, data or invention of another person and claiming that the idea, writing, data or invention is the result of one's own findings or creation; or
 - (b) an attempt to make out or the act of making out, in such a way, that one is the original source or the creator of an idea, writing, data or invention which has actually been taken from some other source.
- (3) Without prejudice to the generality of sub rule (2) a student plagiarizes when he;
 - (a) publishes, with himself as the author, an abstract, article, scientific or academic paper, or book which is wholly or partly written by some other person;
 - (b) incorporates himself or allows himself to be incorporated as a co-author of an abstract, article, scientific or academic paper, or book, when he has not at all made any written contribution to the abstract, article, scientific or academic paper, or book;
 - (c) forces another person to include his name in the list of co-researchers for a particular research project or in the list of co-authors for a publication when he has not made any contribution which may qualify him as a co-researcher or co-author;
 - (d) extracts academic data which are the results of research undertaken by some other person, such as laboratory findings or field work findings or data obtained through library research, whether published or unpublished and incorporate those data as part of his academic research without giving due acknowledgement to the actual source;
 - (e) uses research data obtained through collaborative work with some other person, whether or not that other person is a staff member or a student of the University, as part of another distinct personal academic research of his, or for a publication in his own name as sole author, without obtaining the consent of his co-researchers prior to embarking on his personal research or prior to publishing the data;
 - (f) transcribes the ideas or creations of others kept in whatever form, whether written, printed or available in electronic form, or in slide form, or in whatever form of teaching or research apparatus, or in any other form, and claims whether directly or indirectly that he is the creator of that idea or creation;
 - (g) Translates the writing or creation of another person from one language to another whether or not wholly or partly, and subsequently presents the translation in whatever form or manner as his own writing or creation; or

(h) extracts ideas from another person's writing or creation and makes certain modifications without due reference to the original source and rearranges them in such a way that it appears as if he is the creator of those ideas

2. Appearance for examination

- (1) Where a student's course of study entails his appearance for an examination and he is not otherwise debarred from such examination, he shall not fail to appear for the examination without the prior permission of the Dean of the Faculty, or the Head of the School, Centre, Academy or Institute, as the case may be.
- (2) Where the circumstances do not permit such prior permission to be obtained, the student shall, as soon as possible thereafter, satisfy the Dean or the Head, as the case may be, with regard to his absence and obtain approval in respect thereof.

3. Conduct relating to examination

- (1) No student shall:
 - (a) take any book, paper, document, picture or other things, except those authorized by the examiner, into or out of an examination room, or receive any book, paper, document, picture or other things from any other person while in the examination room, except that a student may, while he is in the examination room, receive from the invigilator such books, papers, documents, pictures or other things which have been recommended by the examiner or Board of Examiners, and authorized by the Vice-Chancellor;
 - (b) write, or have it written by another person, any information or diagram which may be relevant to the examination he is sitting for, on his hand or on any other part of his anatomy, or on his apparel or clothing;
 - (c) communicate with any other student during an examination by whatever means; or
 - (d) Cheat or attempt to cheat or conduct himself in a manner which can be construed as cheating or attempting to cheat in, an examination, while the examination is being conducted.

4. Disciplinary punishment

A student who commits a disciplinary offence under these Rules and is found guilty of the offence shall be liable to any one or any appropriate combination of two or more of the following punishments:

- (a) a warning;
- (b) community service as regulated by the Board, not exceeding 24 hours;
- (c) a fine not exceeding five hundred ringgit;
- (d) exclusion from any specific part or parts of the University for a specified period;
- (e) expulsion from staying in the hostel;
- (f) suspension from examinations for academic disciplinary offences, as determined by the University. ;
- (g) suspension from being a student of the University for a specified period.

GENERAL REQUIREMENTS

Registration as a Candidate

1. Any person who has been offered by the University to pursue a Master's Degree programme of study and who accepts the said offer is required to register in accordance with the regulations under the Universiti Malaya (Master's Degree) Regulations 2024.
2. Every candidate who is registered for a Master's Degree programme of study offered to him shall register on a continuous basis with the University.
3. Any candidate who fails to register continuously for a duration of two (2) semesters with the University shall cease to be a student and his name shall be removed from the register of students of the University.

Minimum and Maximum Duration

The minimum and maximum duration for the Master's Degree programme of study is:

Minimum duration	: 2 semesters + 1 special semester (1 year)
Maximum duration	: 8 semesters (4 years)

Note: The minimum and maximum duration of a programme of study may vary from that stated above and is subject to approval by the Ministry of Higher Education.

Suspension of a Candidate's Programme of Study

The duration of suspension of a candidate's programme of study where punishment has been imposed under the University of Malaya (Discipline of Students) Rules 1999 shall not be taken into account as part of the maximum duration of the programme of study.

Termination of Candidature

The Senate has the right to terminate the candidature of a candidate who is found to have provided false information in connection with admission to the University or commits an act of academic dishonesty other than those stated in the Universiti Malaya (Discipline of Students) Rules 1999 which in the view of the Senate is inappropriate and detrimental to the image of the University.

GENERAL REQUIREMENTS

Bahasa Malaysia or Bahasa Melayu Requirement

1. A candidate who is a Malaysian citizen shall be required, before being conferred the degree, to possess at least a:
 - (a) Pass grade in Bahasa Malaysia or Bahasa Melayu at the Sijil Pelajaran Malaysia level;
 - (b) Level III in the Sijil Bahasa Malaysia or Bahasa Melayu Universiti or at an equivalent level;
 - (c) Pass grade in the Bahasa Malaysia or Bahasa Melayu course as recognised by the University; or
 - (d) Pass the Bahasa Malaysia or Bahasa Melayu exemption assessment as set by the University.
2. A non-citizen candidate is required to attend at a satisfactory level a *Bahasa Malaysia or Bahasa Melayu* course conducted by the University before being conferred his degree unless he obtains at least a:
 - (a) Pass grade in Bahasa Malaysia or Bahasa Melayu at the Sijil Pelajaran Malaysia level;
 - (b) Level III in the Sijil Bahasa Malaysia or Bahasa Melayu Universiti or at an equivalent level;
 - (c) Pass grade in the Bahasa Malaysia or Bahasa Melayu course as recognised by the University; or
 - (d) Pass the Bahasa Malaysia or Bahasa Melayu exemption assessment as set by the University.

MASTER OF ADVANCED STUDIES: PROGRAMME OVERVIEW

Introduction

In today's highly competitive market, it is essential to equip graduates with interdisciplinary thinking and skill sets that enable them to effectively address complex challenges. A key strategy for bridging the skills gap to enhance both knowledge and practical competencies. The Master of Advanced Studies program is designed for individuals from diverse backgrounds and professional experiences. With a focus on Integrated Analytics and Sustainable Leadership, the program takes a holistic approach to comprehensively tackling complex issues. This interdisciplinary Master's degree offers stackable credentials and a flexible curriculum, allowing students to specialise in a particular area by selecting from clusters across various disciplines.

Entry Requirements

Qualification Requirements

Candidates must have a Bachelor's Degree with Honours not less than 3.0 CGPA in related field of study or an equivalent degree; OR other qualifications approved by the Senate from time to time.

However, applicants with a Bachelor Degree with CGPA of 2.7 to 2.99 can also be considered, but he/she must fulfill at least **ONE (1)** of the following criteria: Has working experience in related field; **OR**, has ISI publication; **OR**, a scholarship holder; **OR**, a government staff; **OR**, pass the interview conducted by the Faculty.

Language Requirements

Foreign candidates are required to:

Have at least IELTS Band 6.0 or TOEFL 550 if their first degree is from a university where English is not the medium of instruction; OR pass an English proficiency test approved by the University.

* Note: Subject to change from time to time

MASTER OF ADVANCED STUDIES: PROGRAMME LEARNING OUTCOMES

Programme Learning Outcomes

The quality of this programme is ultimately assessed by the capability of the candidates to carry out their roles and responsibilities in society. The programme learning outcomes are reflected to the eight (8) MQF (Malaysian Qualification Framework) learning outcomes:

Programme Learning Outcomes

PLO1	<i>Demonstrate advanced knowledge of the latest applications and developments in professional practice.</i>
PLO2	<i>Utilize thinking skills in solving problems to improve the quality of life and career.</i>
PLO3	<i>Identify, design and conduct relevant research in solving current world issues efficiently and effectively.</i>
PLO4	<i>Utilise digital and numerical skills for lifelong learning in solving current world issues.</i>
PLO5	<i>Demonstrate communication skills and the ability to work in a team.</i>
PLO6	<i>Demonstrate leadership qualities among friends and community in solving current issues.</i>
PLO7	<i>Demonstrate commitment and entrepreneurial thinking in current issues being resolved.</i>
PLO8	<i>Create community of practice in compliance with legislation, ethics and code of professional conduct.</i>

MASTER OF ADVANCED STUDIES: PROGRAMME STRUCTURE

Programme Structure

The programme has a total of forty two (42) credit hours consisting of:

- a. Six (6) core courses whereby each course carries three (3) to four (4) credit hours; **AND**
- b. Capstone Project, nine (9) credit hours; **AND**

Details of the courses offered follow those approved by the Senate from time to time, with acknowledgement by the IAS, and candidates will be informed at the beginning of each session.

The list of courses approved by the Senate, along with the study plan for the Master of Advanced Studies degree, is provided below.

Semester I			
Component	Course Code	Course Title	Credit Hours
Core Course	HMX7001	Research Methodology	3
	HQC7001	Data Analytics in Decision Making	4
	HQC7003	Project Management	4
Elective Course		Choose any course from one of the clusters	3
		Choose any course from one of the clusters	3
Total Credit			17

MASTER OF ADVANCED STUDIES: PROGRAMME STRUCTURE

Semester II			
Component	Course Code	Course Title	Credit Hours
Core Course	HQC7005	Computational Thinking and Design Thinking	3
	HQC7006	Capstone Project	9
Elective Course		Choose any course from one of the clusters	3
		Choose any course from one of the clusters	3
Total Credit			18

Special Semester			
Component	Course Code	Course Title	Credit Hours
Core Course	HQC7002	Organisational Management, Culture and Leadership	3
	HQC7004	Environmental, Social and Governance	3
Total Credit			6

Note:

- 1) Courses offered are subject to the availability of lecturers and may change from time to time.
- 2) For elective courses, students must complete at least three (3) courses from the same cluster. Another one (1) elective course can be selected from either the same or a different cluster.

MASTER OF ADVANCED STUDIES: PROGRAMME STRUCTURE

Course code	Course Title	Credit Hours
Cluster Environment & Infrastructure		
BQD7002	Green and Sustainable Technology I	3
BQD7012	Advanced Building Conservation	3
BQC7010	Sustainable and Environmental Management	3
SOA7014	Sustainable Urban Planning and Management	3
Cluster Technology & Innovation		
WOA7019	Augmented Reality	3
WQD7006	Machine Learning for Data Science	3
WQE7004	Information Assurance	3
SQE7023	Innovation Strategy and Entrepreneurship	3
Cluster Policy & Governance		
ZQA7003	Fundamentals of Public Policy	3
ZQA7022	Sustainable Development Policy	3
ZQA7020	Law, Governance and Public Policy	3
ZQA7018	Public Leadership and Management	3
Cluster Health & Wellbeing		
PQA7001	Counseling Theories	3
PQA7002	Career Development Theories	3
MQB7041	Occupational Health	3
MQE7017	Communication Skills and Workplace-Based Learning	3

Note: The cluster and elective courses will be expanded from time to time, subject to Senate approval.

PRO-FORMA:

Research Methodology

[HMX7001]

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	120 hours / 3
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Develop problem statement and research questions or hypotheses. 2. Analyse literature review critically based on autocratic sources of information in respective research fields. 3. Design suitable research methodology to be used for research in respective research fields. 4. Write a research proposal.
Synopsis of Course Contents	<p>This course will provide students with the knowledge, insights, and methods relating to the aspects of research methodology. This will include providing students with a comprehensive understanding of the theoretical perspectives within qualitative and quantitative research designs including their methodologies and analyses, advanced data collection methods and issues in quantitative and qualitative research methods. They will also be exposed to research ethics, data analysis, risk management, instrumentation, and research software.</p>
Learning Strategies	Lecture, discussion, presentation
Assessment Weightage*	<p>Continuous assessment : 100%</p> <p>Final examination : 0%</p>

PRO-FORMA:

Data Analytics in Decision Making

(HQC7001)

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	160 hours / 4
Course Learning Outcomes*	<p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Understand the main concepts related to data science, including all the processes found in the data science life cycle and the uses of data science. 2. Demonstrate the ability to define the tools, appropriate technologies and core algorithms that underlie an end-to-end data science workflow, including experimental design, data collection, mining, analysis, and presentation of information derived from data sets. 3. Propose and apply knowledge and skills to promote best practices in decision making based on data analytics.
Synopsis of Course Contents	<p>This course will provide students with the knowledge and insights on the topic of applied data science. This include providing students with a comprehensive understanding of the fundamental concepts of data science. Students will also learn the life cycle of data science from data preparation, data processing, data cleansing and integration, to data analysis and visualization of data for data-driven decision making. The role of data scientist, the knowledge and skills required is also presented. Machine learning algorithms and statistical models are included. Diverse technologies, programming languages as well as tools in data science are discussed.</p>
Learning Strategies	Lecture, discussion, assignment
Assessment Weightage*	<p>Final assessment : 100%</p> <p>Final examination : 0%</p>

PRO-FORMA:

Organisational Management, Culture and Leadership (HQC7002)

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	120 hours / 3
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Identify organisation's capacity to deliver on key tasks that create value. 2. Apply techniques to communicate direction to every level of the organisation chart and evaluate effectiveness 3. Identify a performance or opportunity gap within the organisation 4. Develop the critical design choices to align people, systems and structure and culture in a organisation to deliver value.
Synopsis of Course Contents	This course covers the fundamental concepts of organisation management, social responsibility, strategy planning, managing diverse of human, motivation, and the quality of leadership. Students are also exposed to use appropriate leadership management method.
Learning Strategies	Lecture, mini case study, presentation
Assessment Weightage*	Continuous assessment : 100% Final examination : 0%

PRO-FORMA: Project Management (HQC7003)

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	160 hours / 4
Course Learning Outcomes*	At the end of this course, students are able to: <ol style="list-style-type: none"> 1. Elaborate the concept and roles of project management within an organization. 2. Identify managerial concerns and challenges in an actual competitive environment. 3. Identify effective approaches towards successful and effective projects. 4. Develop project plan to track project's timeline, costs and resources using appropriate project management tools.
Synopsis of Course Contents	This course covers the fundamental concepts of project management, the project management process, project planning, risk management, the diverse challenges involved in project management and effective implementation. Students are also exposed to use appropriate project management tools.
Learning Strategies	Lecture, mini case study, presentation
Assessment Weightage*	Continuous assessment : 100% Final examination : 0%

PRO-FORMA:

Environmental, Social and Governance

[HQC7004]

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	120 hours / 3
Course Learning Outcomes*	<p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Understand the main concepts related to environmental, social and governance including the latest ESG standards and framework. 2. Demonstrate the ability to analyse the ESG performance of companies in balancing financial performance with ethical and sustainable practices. 3. Propose and apply knowledge and skills to promote best practices in building responsible and sustainable businesses.
Synopsis of Course Contents	<p>In this course, the student will learn about Environmental, Social, and Governance (ESG) concepts, which are used by companies and investors to evaluate the sustainability and ethical impact of business operations. The course will cover the three components of ESG - environmental, social, and governance and examine issues such as climate change, pollution, human rights, and executive compensation. The student will study the latest ESG standards and frameworks and learn how to apply them to analyze company performance. The course will also explore ESG investing, which seeks to identify companies that are balancing financial performance with ethical and sustainable practices. By the end of the course, the student will have a thorough understanding of ESG and its importance in building responsible and sustainable businesses.</p>
Learning Strategies	Lecture, assignment
Assessment Weightage*	<p>Continuous assessment : 100%</p> <p>Final examination : 0%</p>

PRO-FORMA:

Computational Thinking and Design Thinking

[HQC7005]

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	160 hours / 4
Course Learning Outcomes*	At the end of the course, students are able to: <ol style="list-style-type: none"> 1. Understand the concepts of computational thinking and design thinking. 2. Demonstrate problem solving skills using computational thinking and design thinking method. 3. Design and develop a solution to a problem related to current issues at present organisation.
Synopsis of Course Contents	In this course students will be exposed to the concepts of computational thinking and design thinking in solving everyday problems. Students will take part in activities in the classroom that is aimed to reinforce understanding of the key concepts and how to apply them. Students from different organizational background will be asked to present problems related to their area and using the skills and concepts learned, they will be required to come up with a methodical way of solving it. The course does not require knowledge in programming or computer science. It is aimed to show that computational thinking and design thinking are being used by everyone whether they are aware of it or not and to guide them to use it in a structured manner.
Learning Strategies	Lectures, discussion, mini case study
Assessment Weightage*	Continuous assessment : 100% Final examination : 0%

PRO-FORMA: Capstone Project (HQC7006)

Academy/Faculty/Centre	Institute for Advanced Studies (IAS)
Course Pre-requisite(s)/ Minimum Requirement(s)	N/A
Student Learning Time (SLT)* / Credit*	360 hours / 9
Course Learning Outcomes*	At the end of the course, students are able to: 1. Apply knowledge to solve organizational problems in real world environment 2. Professionally present the project plan and results 3. Write a project report
Synopsis of Course Contents	The capstone project allows students to apply their knowledge gained from core courses and clusters to address problems in organizational settings. During the project, students engage in the entire process of solving a real-world project, from collecting and processing data, to designing the best method to solve identified problem, to applying suitable analytic methods, and finally, to implementing a solution.
Learning Strategies	Discussion, presentation
Assessment Weightage*	Continuous assessment : 100% Final examination : 0%

HOW TO APPLY

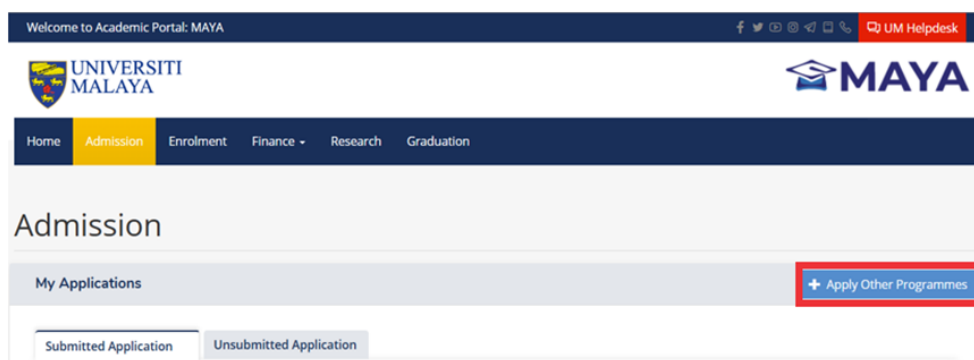
(1) Go to Universiti Malaya's MAYA website (<https://maya.um.edu.my/>). Create new account or login using your email.

(2) After log in, select 'Admission' on the top.

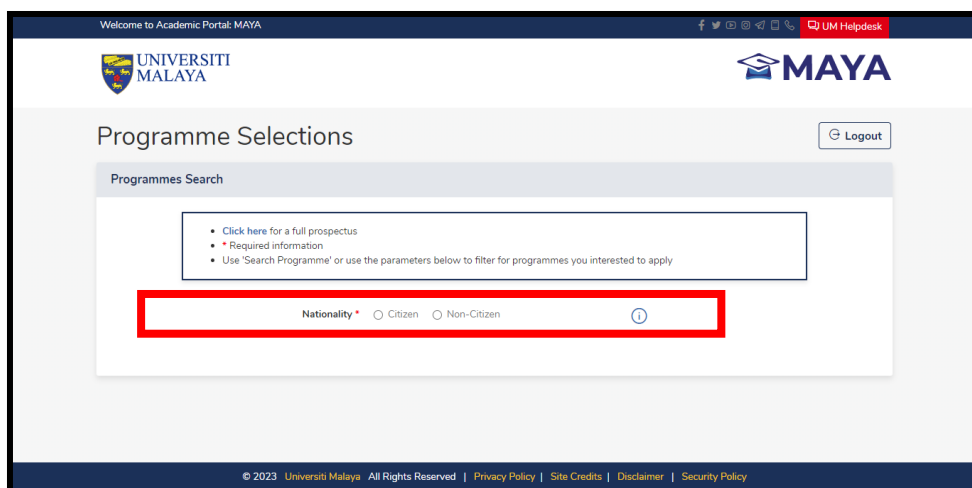
Note: In order to ensure your application run smoothly, please delete a previous application before proceed with a new application.

HOW TO APPLY

(3) Click 'Apply Other Programme' when in the Admission Page.



(4) At the Programme Selections page, select "Nationality".



HOW TO APPLY

- (5) At the Mode of Implementation, select "Conventional".

Welcome to Academic Portal: MAYA

UNIVERSITI MALAYA MAYA

Programme Selections

Programmes Search

- Click here for a full prospectus
- * Required information
- Use 'Search Programme' or use the parameters below to filter for programmes you interested to apply

Nationality * ☒ Citizen ☐ Non-Citizen

Mode of Implementation * Select an Option

- Conventional
- Open Distance Learning
- Remote Learning

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- (6) Search the programme by typing the keyword such as "Advanced Studies".

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UNIVERSITI MALAYA MAYA

Programme Selections

Programmes Search

- Click here for a full prospectus
- * Required information
- Use 'Search Programme' or use the parameters below to filter for programmes you interested to apply

Nationality * ☒ Citizen ☐ Non-Citizen

Mode of Implementation * Conventional

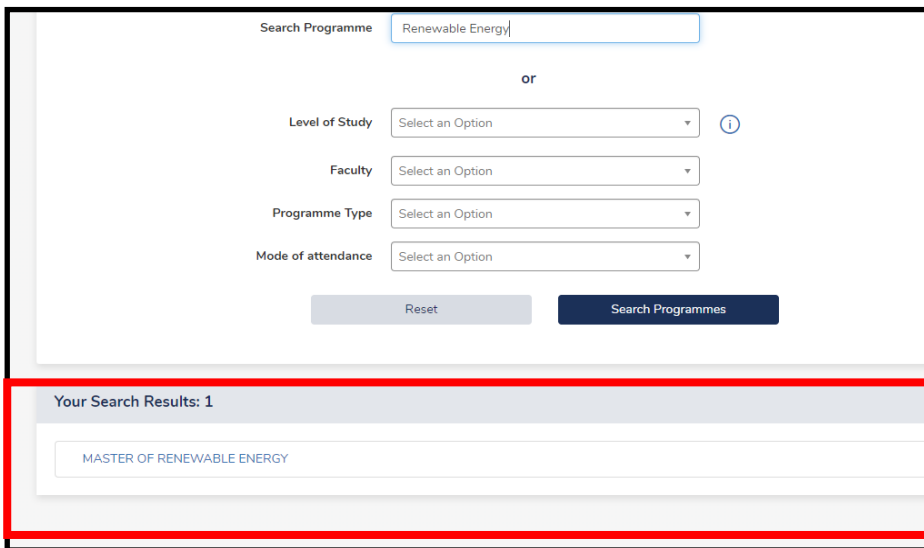
Search Programme Renewable Energy

or

Level of Study Select an Option

HOW TO APPLY

- (7) Scroll down the page, you will find the search results and click on the link, "MASTER OF ADVANCED STUDIES".



Search Programme

or

Level of Study

Faculty

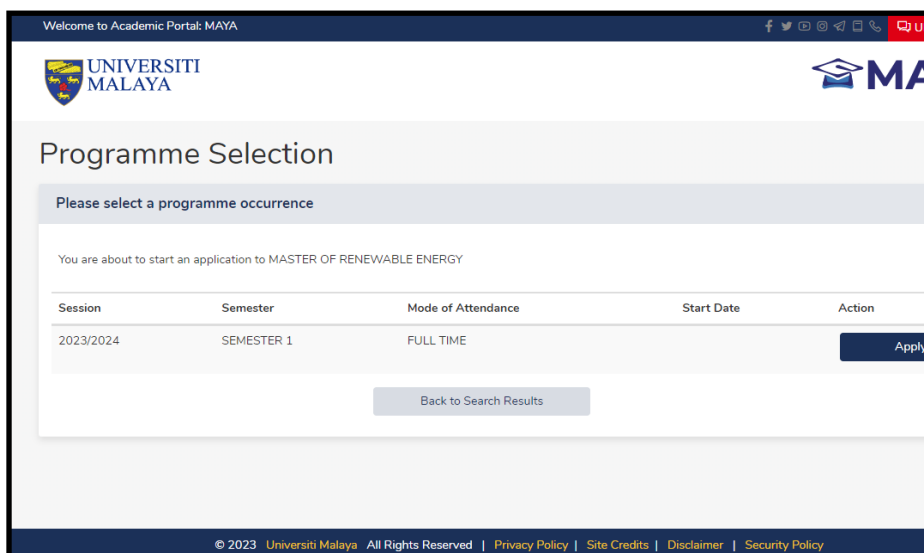
Programme Type

Mode of attendance

Your Search Results: 1

MASTER OF RENEWABLE ENERGY

- (8) At the Programme Selection Page, click on "Apply".



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UNIVERSITI MALAYA

Programme Selection

Please select a programme occurrence

You are about to start an application to MASTER OF RENEWABLE ENERGY

Session	Semester	Mode of Attendance	Start Date	Action
2023/2024	SEMESTER 1	FULL TIME		<input type="button" value="Apply"/>

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