



FAKULTI ALAM BINA
Faculty of Built Environment

POSTGRADUATE HANDBOOK 2023/2024



DEAN'S MESSAGE

"The faculty has a rich tradition of academic excellence and research over the past 20 years of its existence, in providing higher education in the built environment related fields.

Our aim is to provide learning experiences and produce global professionals that can make a difference in serving building and property industries."



Assalamu'alaikum Warahmatullahi Wabarakatuh and Selamat Sejahtera.

Congratulations and welcome to the new students of the Faculty of Built Environment (FBE). On behalf of the Faculty of Built Environment, it is my great pleasure to welcome you to our esteemed undergraduate programme. We are thrilled to have you join our community of aspiring architects, urban planners, and surveyors.

The faculty has a rich tradition of academic excellence and research over the past 20 years of its existence, in providing higher education in the built environment related fields. Our aim is to provide learning experiences and produce global professionals that can make a difference in serving building and property industries. At our faculty, we are committed to providing you with an enriching and transformative educational experience. Our distinguished faculty members bring a wealth of expertise and real-world experience to the classroom, ensuring that you receive a comprehensive education that combines theory with practical application.

The faculty offers a comprehensive range of degree programmes that are distinctive within Malaysia and Southeast Asia Region. All programmes are accredited by the Malaysian Qualifying Agency (MQA) and the respective Professional Boards in Malaysia. In addition, some of the programmes are also accredited by renowned international professional bodies such as the Royal Institution of Chartered Surveyors (RICS), UK and the Royal Institution of British Architects (RIBA), UK.

A broad range of programmes provide unique teaching and learning opportunities tailored to undergraduates in an environment, which enables intellect, choice, and critical rigor to flourish. Moreover, the programmes are also designed with the aim of equipping students with the latest skills and knowledge, which allow them to achieve programme outcomes. This offers opportunities for students to excel academically and professionally. Beyond the classroom, we offer a vibrant and inclusive community that fosters collaboration, creativity, and innovation. From competitions and workshops to guest lectures and industry networking events, there are countless opportunities for you to engage with fellow students, faculty members, and professionals in the field.

The faculty supports students' learning and research activities with excellent facilities and resources. We have an online library resource with access to high quality and impactful research publications all around the world. We also promote literacy and education through our own faculty library that provides a wealth of resources including books, prints and other resources related to the built environment field. Moreover, we have a student lounge, laboratories and most importantly campus-wide internet access and infrastructure, that allow for classes to be conducted remotely. Additionally, the university also provides many facilities and resources to ensure students have a world-class learning experience supported by state-of-d'art advanced ICT equipment.

As you embark on this exciting chapter of your academic journey, I encourage you to embrace every opportunity, challenge yourself, and strive for excellence. The knowledge and experiences gained during your time at our faculty will shape not only your professional trajectory but also your personal growth.

Once again, a warm welcome to the new students of the faculty. We are excited to have you join our community and look forward to witnessing your achievements as you embark on this transformative educational adventure.

Good luck and enjoy your FBE experience with us!

Serving the Nation. Impacting the World.

PROFESSOR Sr Ts. DR. AZLAN SHAH ALI, FRISM FRICS
Dean

ABOUT THE UNIVERSITI MALAYA



The **Universiti Malaya (UM)** is a public research university located in Kuala Lumpur, Malaysia. It is the oldest university in Malaysia and is the highest ranking Malaysian institution of higher education according to several international ranking agencies. The university has graduated three Prime Ministers of Malaysia and other political, business, and cultural figures of national prominence.

The predecessor of the university, King Edward VII College of Medicine, was established on 28 September 1905 in Singapore, then a territory of the British Raj. In October 1949, the merger of the King Edward VII College of Medicine and Raffles College created the university. Rapid growth during its first decade caused the university to organize as two autonomous divisions on 15 January 1959, one located in Singapore and the other in Kuala Lumpur.

In 1960, the government of Malaysia indicated that these two divisions should become autonomous and separate national universities. One branch was located in Singapore, later becoming the National University of Singapore after the independence of Singapore from Malaysia, and the other branch was located in Kuala Lumpur, retaining the name Universiti Malaya. Legislation was passed in 1961 and the Universiti Malaya was established on 1 January 1962. In 2012, UM was granted autonomy by the Ministry of Higher Education.

Today, UM has more than 2,500 academic staff and 3,500 non-academic staff and divided into 13 faculties, two academies and three academic centres. In 2024 QS World University Rankings, UM ranked at 65th in the world, 9th in Asia, 3rd in Southeast Asia and the highest ranked learning institution in Malaysia

ABOUT THE FACULTY OF BUILT ENVIRONMENT



The Faculty of Built Environment (FBE; Malay: *Fakulti Alam Bina*) offers five undergraduate professional programmes tailored to meet the nation's construction and real estate sectors' manpower needs. These programmes are accredited at the national and international levels.

The Faculty of Built Environment (FBE) offers five undergraduate professional programmes tailored to meet the nation's construction and real estate sectors' manpower needs. These programmes are accredited at the national and international levels.

The Bachelor of Science in Architecture programme is accredited with Part I recognition by the Board of Architects Malaysia (LAM).

The same programme is also accredited by the Royal Institute of British Architecture (RIBA, UK) since 2005, which also leads to its Part I accreditation. This recognition is considered an achievement as it is the first programme in Malaysia recognised by RIBA and one of only five universities in East Asia.

The Bachelor of Building Surveying programme was developed based on the Programme Standards: Building Surveying by Malaysian Qualifications Agency (MQA). The programme is accredited by the Royal Institution of Surveyors Malaysia (RISM) and the Royal Institution of Surveyors (RICS, UK).

Meanwhile, the Bachelor of Real Estate programme is accredited by the Board of Valuers, Appraisers, Estate Agents and Property Managers, Malaysia (BOVEAP) as well as Royal Institution of Chartered Surveyors (RICS, UK).

FBE's Bachelor of Quantity Surveying programme earned its accreditation from the Board of Quantity Surveyors Malaysia (BQSM). Additionally, the programme is also accredited by the Royal Institution of Chartered Surveyors (RICS, UK) since 2004 as well as the Pacific Association of Quantity Surveyors (PAQS) since 2017. This programme was the first in Malaysia to receive the RICS accreditation and the second programme from public university accredited by PAQS.

Established in 2011 the Bachelor of Urban and Regional Planning is the fifth undergraduate programme in FBE and is accredited by the Board of Town Planners Malaysia (BTPM).

Since its establishment 24 years ago, FBE has always managed to attract the best achievers from high schools as well as from foundation and matriculation centres. Additionally, FBE also receives applications from other countries. This is well reflected by the high entry point requirements needed for candidates to be considered for intake. Some of our students have shown their achievements and competitiveness by winning numerous awards and medals both locally and internationally. In addition, our students also have an opportunity to be part of outbound exchange programmes abroad and to experience cross-cultural learning from international inbound students.

FBE's graduates are not only highly demanded in Malaysia but also regularly employed in different parts of the world such as the United Kingdom, Canada, Australia, New Zealand, the Middle East countries, African countries, Singapore, China, Hong Kong SAR, Pakistan, Bangladesh, Brunei and Indonesia, to name a few. Thus, FBE is at the forefront of training students with a high degree of international recognition consistent with national aspirations of creating 'Globalised Malaysians'.

The FBE offers two (2) postgraduate research programmes namely Doctor of Philosophy (PhD) in Built Environment and Master of Built Environment. Additionally, FBE also offers four (4) master by coursework programmes namely Master of Real Estate (MRE), Master of Project Management (MPM), Master of Facilities and Maintenance Management (MFMM) and also Master of Architecture (M.Arch). Both MRE and MFMM programmes are accredited by the RICS (UK) while its 2-year M.Arch programme leads to Part II recognition by LAM and RIBA.

The challenges faced by FBE in the oldest and most prestigious university in Malaysia have inspired it to be regarded as a centre of excellence in the development and dissemination of knowledge and professionalism in the field of the built environment, both nationally and regionally. The FBE has occupied the 10-storey Mercu Alam Bina since October 2012, which is a state-of-the-art building while transforming it as a living lab for research.

UNIVERSITI MALAYA

VISSION

A global university impacting the world.

MISSION

Pushing the boundaries of knowledge and nurturing aspiring leaders

CORE VALUES



QUALITY POLICY

Universiti Malaya is committed to conduct teaching and learning, carry out research and provide quality services on a global level, generate, and enhance knowledge through continuous improvement efforts for the benefit of all stakeholders, especially Universiti Malaya's students.

FACULTY OF BUILT ENVIRONMENT

VISION

To be an internationally renowned Faculty of Built Environment in research, innovation, publication and teaching

MISSION

To advance knowledge and learning through quality research and education for the nation and for humanity

OBJECTIVES

- *To be the centre of excellence in the built environment studies and to meet the demands of the construction industry in producing a responsible and competent professionals in the future.*
- *To create a healthy and conducive intellectual environment, equipping its graduates in the ever rapidly changing future.*
- *To strengthen research centres, in line with its position as the leading university in Malaysia, recognised on the territorial, national and international levels.*
- *To contribute knowledge and give consultation to society and the nation in the field of built environment for the development and the well-being of the world.*

ADMINISTRATIVE MANAGEMENT CHART



PROFESSOR Sr Ts DR. AZLAN SHAH ALI
Dean



ASSOC. PROF. Gs DR. ROSILAWATI ZAINOL
Deputy Dean
(Undergraduate)



PROF. Sr Ts DR. SYAHRUL NIZAM KAMARUZZAMAN
Deputy Dean
(Postgraduate)



ASSOC. PROF. Sr DR. SAIPOL BARI ABD KARIM
Deputy Dean
(Student Affairs)



PROF. Sr DR. FAIZUL AZLI MOHD RAHIM
Deputy Dean (Research,
Value Creation & Enterprise)



NUR FARHANA ABDULLAH
Manager
(Administration)



DR. MASTURA ADAM
Head
Dept. of Architecture



ASSOC. PROF. Sr DR. AU YONG CHEONG PENG
Head
Dept. of Building Surveying



DR. Sr AINORIZA MOHD AINI
Head
Dept. of Real Estate



DR. MAHANIM HANID
Head
Dept. of Quantity Surveying



DR. PETER ANING TEDONG
Head
Dept. Urban & Regional
Planning



MOHD NORAZLIN MANSOR
Senior Assistant Registrar
(Postgraduate)



NOR ZAHIAN HANAFI
Assistant Registrar
(Undergraduate)



MAISARAH ROSMAN
Assistant Registrar
(Research, Value Creation &
Enterprise)



FADZIL HAFNI MD HASHIM @ AB RASHID
Financial Officer

Updated as of August 2023

ACADEMIC CALENDAR 2023/2024 SESSION

SEMESTER I

Lectures	7 weeks*	09.10.2023 – 26.11.2023
Mid-Semester Break I	1 week	27.11.2023 – 03.12.2023
Lectures	7 weeks*	04.12.2023 – 21.01.2024
Revision Week	1 week	22.01.2024 – 28.01.2024
Final Examination Semester I	2 weeks	29.01.2024 – 11.02.2024
Semester Break	3 weeks	12.02.2024 – 03.03.2024

22 weeks

SEMESTER II

Lectures	5 weeks*	04.03.2024 – 07.04.2024
Mid Semester Break II	1 week	08.04.2024 – 14.04.2024
Lectures	9 weeks*	15.04.2024 – 16.06.2024
Revision Week	1 week	17.06.2024 – 23.07.2024
Examination Semester II	1 weeks*	24.06.2024 – 07.07.2024

18 weeks

SEMESTER BREAK

Semester Break	9 weeks	08.07.2024 – 08.09.2024
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SPECIAL SEMESTER

Lectures	7 weeks*	08.07.2024 – 25.08.2024
Examination Special Semester	1 week	26.08.2023 – 01.09.2024

9 weeks

Malaysia Public Holiday

<i>Maulidur Rasul</i>	<i>28 September 2023</i>	<i>Eidul Fitri</i>	<i>10 & 11 April 2024</i>
<i>Deepavali</i>	<i>12 November 2023</i>	<i>Labour Day</i>	<i>01 May 2024</i>
<i>Christmas</i>	<i>25 December 2023</i>	<i>Wesak Day</i>	<i>22 May 2024</i>
<i>New Year 2024</i>	<i>1 January 2024</i>	<i>His Majesty's King's Birthday</i>	<i>03 June 2024</i>
<i>Thaipusam</i>	<i>25 January 2024</i>	<i>Eidul Adha</i>	<i>17 June 2024</i>
<i>Federal Territory Day</i>	<i>01 February 2024</i>	<i>Awal Muharam</i>	<i>07 July 2024</i>
<i>Chinese New Year</i>	<i>10 & 11 February 2024</i>	<i>National Day</i>	<i>31 August 2024</i>
<i>Nuzul Al-Quran</i>	<i>28 March 2024</i>	<i>Malaysia Day</i>	<i>16 September 2024</i>

2023 & 2024 CALENDAR

2023 Calendar

January						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
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February						
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March						
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April						
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May						
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28	29	30	31			

June						
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July						
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August						
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September						
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November						
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December						
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31						

2024 Calendar

Calendarpedia
Your source for calendars

January						
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February						
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July						
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GENERAL INFORMATION

GENERAL INFORMATION

PROGRAMMES

Code	Programmes	Mode	Intake	
			Semester II (February)	Semester I (October)
BVA	Doctor of Philosophy	Research	√	√
BMA	Master of Built Environment	Research	√	√
BQA	Master of Real Estate	Coursework	-	√
BQB	Master of Project Management	Coursework	-	√
BQC	Master of Facilities and Maintenance Management	Coursework	√	√
BQD	Master of Architecture	Coursework	-	√

ENTRY REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY (BY RESEARCH)

Non-Universiti Malaya (UM) Graduates

1. Master's degrees by research; **OR**
2. Master's degree by coursework or mixed mode with a CGPA of at least 3.70; **OR**
3. Master's degree by coursework or mixed mode with a CGPA of at least 2.00 to 3.69 **AND** Bachelor's degree with CGPA 2.50 to 2.99.

Can be considered if it meets **one (1)** of the following criteria

- a. Have at least **three (3) years** of work experience in related field; **OR**
- b. Produce publications in related fields; **OR**
- c. scholarship recipient; **OR**
- d. A Malaysian Government agency personnel; **OR**
- e. Passed an interview; **OR**
- f. Pass Special Assessment.

4. Master's Degree by Course or mixed mode with a CGPA of 2.00 to 3.69 **AND** Bachelor with CGPA of 2.00 to 2.49.

Can be considered if it meets **two (2)** of the following criteria

- a. Have at least **five (5) year** of work experience in related field; **OR**
- b. Produce at least **one (1) publication** in related fields; **OR**
- c. Passed an interview; **OR**
- d. Pass Special Assessment.

Universiti Malaya (UM) Graduates (UM Alumni)

1. Master's degrees by research; **OR**
2. Master's degree by coursework or mixed mode with a CGPA of at least 3.70; **OR**
3. Master's degree by coursework or mixed mode with a CGPA of at least 2.00 to 3.69 **AND** Bachelor's degree with CGPA 2.50 to 2.99; **OR**
4. Master's Degree by Course or mixed mode with a CGPA of 2.00 to 3.69 **AND** Bachelor with CGPA of 2.00 to 2.49.

Can be considered if it meets **one (1)** of the following criteria

- a. Have at least **five (5) year** of work experience in related field; **OR**
- b. Produce at least **one (1) publication** in related fields; **OR**
- c. Passed an interview; **OR**
- d. Pass Special Assessment.

GENERAL ENTRY REQUIREMENTS FOR MASTER'S PROGRAMMES

Non-Universiti Malaya (UM) Graduates

1. Bachelor of Science in Architecture, Urban & Regional Planning, Quantity Surveying, Building Surveying, Estate Management or equivalent in a related field from a recognized university with a CGPA of at least 3.00 and above or equivalent; **OR**
2. Bachelor's degree with a CGPA of 2.70 to 2.99.

Can be considered if it meets **one (1)** of the following criteria

- a. Have at least **one (1) year** of work experience in related field; **OR**
- b. Produce publications in related fields; **OR**
- c. scholarship recipient; **OR**
- d. A Malaysian Government agency personnel; **OR**
- e. Passed an interview; **OR**
- f. Pass Special Assessment.

3. Bachelor's Degree with a CGPA of 2.50 to 2.69.

Can be considered if it meets **two (2)** of the following criteria

- a. Have at least **one (1) year** of work experience in related field; **OR**
- b. Produce publications in related fields; **OR**
- c. scholarship recipient; **OR**
- d. A Malaysian Government agency personnel; **OR**
- e. Passed an interview; **OR**
- f. Pass Special Assessment.

Bachelor's Degree with a CGPA of 2.00 to 2.49.

Can be considered if it candidates **passed an interview by the Faculty** and meets **one (1)** of the following criteria

- a. Have at least one **(5) five years** of work experience in related field; **OR**
- b. Produce at least **one (1) publication** in related fields; **OR**
- c. Pass Special Assessment.

Universiti Malaya (UM) Graduates (UM Alumni)

1. Bachelor of Science in Architecture, Urban & Regional Planning, Quantity Surveying, Building Surveying, Estate Management or equivalent in a related field from a recognized university with a CGPA of at least 3.00 and above or equivalent; **OR**
2. Bachelor's degree with a CGPA of 2.70 to 2.99; **OR**
2. Bachelor's degree with a CGPA of 2.50 to 2.69

Can be considered if it meets **one (1)** of the following criteria

- a. Have at least **one (1) year** of work experience in related field; **OR**
 - b. Produce publications in related fields; **OR**
 - c. scholarship recipient; **OR**
 - d. A Malaysian Government agency personnel; **OR**
 - e. Passed an interview; **OR**
 - f. Pass Special Assessment.
3. Bachelor's Degree with a CGPA of 2.00 to 2.49.

Can be considered if it meets **one (1)** of the following criteria

- a. Have at least **five (5) years** of work experience in related field; **OR**
- b. Produce at least **one (1) publication** in related fields; **OR**
- c. scholarship recipient; **OR**
- d. A Malaysian Government agency personnel; **OR**
- e. Passed an interview; **OR**
- f. Pass Special Assessment.

ADDITIONAL REQUIREMENTS

Beside the general entry requirement that is stated by the University, below are the additional requirements for candidates specific requirements for the Master of Architecture (by Coursework) and the Master of Project Management (by Coursework) programme:

Master of Architecture

- A. UM graduates with Bachelor of Science in Architecture** degree can be considered if they meet all of the following criteria:

Candidates with CGPA of 3.00 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation.
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of six (6) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test).

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

Candidates with CGPA of 2.70 – 2.99

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

Candidates with CGPA of 2.70 – 2.99

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

B. Non UM graduates and International students with Bachelor of Science in Architecture degree can be considered if they meet all of the following criteria:

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation.
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twelve (12) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test).

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

C. Non UM graduate and International students with CGPA of 2.99 and below are not eligible to apply for the Master of Architecture program

Master of Project Management

1. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with **CGPA of 3.00 and above**; OR
2. **Professional qualification from a recognized professional body**; OR other qualifications as written by the Senate from time to time;
AND
3. Have at least **one (1) year of project-related working experience** in related field upon completion of Bachelor Degree; OR
4. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with **CGPA of 2.70 to 2.99 with a minimum of two (2) years of project-related working experience in related field upon completion of Bachelor Degree**; OR

5. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with **CGPA of 2.50 to 2.69 with a minimum of three (3) years of project-related working experience in related field upon completion of Bachelor Degree and fulfils one (1) of the following criteria:**
 - Universiti Malaya graduate; OR
 - Produce at least one (1) publication in related fields; OR
 - Scholarship recipient; OR

6. Bachelor's Degree with **CGPA of 2.00 to 2.49 with a minimum of five (5) years of project-related working experience in related field and fulfils upon completion of Bachelor Degree two (2) of the following criteria:**
 - Universiti Malaya graduate; OR
 - Produce at least one (1) publication in related fields; OR
 - Scholarship recipient

ENGLISH LANGUAGE REQUIREMENTS FOR NON-CITIZEN APPLICANT

- A band 5.5 in the International English Language Testing System (IELTS) (Academic); or
- A score of 550 Paper Based Total (PBT), a score of 213 for Computer-Based Total (CBT) or a score of 46 for Internet-Based Total (iBT Centre Based) for Test of English as a Foreign Language (TOEFL).; or
- Band 4.0 and above in the Malaysian University English Test (MUET); or
- A score of 51 and above in the Pearson Test of Academic English (PTE Academic); or
- A Grade C and above in English for General Certificate of Education (A Level), University of Cambridge; or
- A Grade C and above in the Cambridge Assessment English: First (FCE); or
- A Grade C and above in the Cambridge Assessment English: Advanced (CAE); or
- A Grade C and above in the Cambridge Assessment English: Proficiency (CPE).

BAHASA MALAYSIA REQUIREMENT

- a. For **Malaysian citizen**, candidate shall be required to possess at least a Pass in Bahasa Melayu or Bahasa Malaysia at the level of Sijil Pelajaran Malaysia (SPM) or a Level III in Sijil Kecekapan Bahasa Malaysia or a Level III in the Sijil Intensif Bahasa Malaysia of the University or an equivalent level before being conferred the Degree.

- b. **International candidate** shall be required to attend at a satisfactory level a Bahasa Malaysia course that is conducted by the University before being conferred the Degree. However candidate can be exempted from taking the Bahasa Malaysia course if they possesses at least a Pass in Bahasa Melayu or Bahasa Malaysia at the level of Sijil Pelajaran Malaysia or Level III in Sijil Kecekapan Bahasa Malaysia or Level II in the Sijil Intensif Bahasa Malaysia of the University or a Bahasa Malaysia course recognised by the University.

SUPPORT SERVICES

SUPPORT SERVICES

LIBRARY

With the growing interest in information, knowledge and scholarly activities, the UM library has changed their name to Digital Scholarship & Information Commons (DSIC). DSIC was established in 1959 and has a total collection of more than a million up to date titles. DSIC consists of a Central Library which provides library facilities for the whole campus. In addition to a network of branches and special libraries to meet the specific needs of some faculties. The library is headed by the Chief Librarian, with a complement of professional librarians, support and technical staff.

The Built Environment Library is one of the special subject libraries in the Universiti Malaya Library network. Prior to 2003, the collections were kept in the Engineering Library, at the Faculty of Engineering. At the present location, the Built Environment Library is conveniently located for access and is open to all students during office hours. The library is manned by senior librarian and full-time staff members which covers a floor space of about 835 sq. metres with seating capacity for 133 students.

The Library's core function is to support the learning, teaching and research needs of undergraduate and postgraduate students, and the academic staff and researchers of the Faculty of Built Environment (FBE). It is also open to other registered users of the Universiti Malaya Library network, subject to some limitations in borrowings.

The library collections give priority on the teaching and learning of FBE programmes comprising books, journals, reference books, dissertation and theses, conference proceedings and electronic resources. The library online catalogue, known as Pendeta Discovery is a union catalogue of the Universiti Malaya Library network which provides access to holdings of collection of materials and can be accessed by others via the Internet. access to holdings of collection of materials and can be accessed by others via the Internet.

Library Collections

General	The Library has a general collection of about 11,141 item consists of textbooks, reference books, and handbooks, journal, CD-ROM and etc.
Dissertations, Theses and Academic Exercises	This ever expanding collection consists of works produced by undergraduate and postgraduate students of the Faculty.
Conference Papers	Papers presented by the academic staff at the seminars or conferences especially held in Malaysia are continually collected and indexed in an index database known as iMalaysiana Collection.
Journal, Online databases and e-Books	The Library subscribes to printed journal, online databases - mostly full text journals and e-books, which can be accessed via the campus network and remote access from individual home of registered users.
Others	Some available online databases related to the built environment are ICONDA (International Construction Database), RIBA e-books, IEEE Xplore, Art & Architecture Complete @EBSCOHOST, Science Direct, Springer Link, etc.

Library Services	
Loans, Online Renewal and Reservation	Most books are allowed borrowings, except the Reference and special collection such as dissertation/theses and conference proceedings. The library-computerized system allows online renewal by the individual by each patron; and also reservation of books when materials on loan to other user.
Discussion Area (“Ruang Bicara”)	This Discussion Area is located beside the library office and accommodate with 16 seats. This area is spacious and very interesting for any discussion and meeting. It is open to anyone who interested and users only need to make a reservation at counter services. Projectors are also provided for teaching and learning facilities.
Books Donation Corner (by Faculty Members)	This corner was initiated by faculty members to keep books donation as a library collection. All of these materials can be referred and borrowed.
Inter-library loan and Document Supply Services	Inter-library loan facilities and document delivery services are available for postgraduate students, researchers and academic staff of the Faculty of Built Environment. Requests to these services are facilitated via the Library interactive portal, which can be submitted to the Library management electronically. A special budget is allocated for this purpose with deposit accounts established at the British Library (U.K) and National University of Singapore (Singapore).
Access to Other Resource Centres in Malaysia	Registered students and academic staff of the University Malaya are allowed to visit and use (for reference only) other academic / public university libraries in Malaysia, as a part of the resource sharing programme.
Information Seeking, Writing and Academic Publications Course (GBX0009)	The library conducts a course under Student Holistic Empowerment (SHE) entitled Information Seeking, Writing and Academic Publications Course (GBX0009) to equip students with the skills on information retrieval, writing and access to resources.
User Education Session	The postgraduate students, academic staff and researchers of the Faculty are given special user education session; to cater for information needs at a regular basis to familiarize them with the use of library resources and library catalogue (Pendeta WebPAC), Endnote Management Software and online databases subscribed.

Reference and Information Enquiries

A librarian will assist and guide users with searching information for the collection, online database subscribed, internet or from other institutions. For further information do contact Mr. Muhammad Faizal Abd Aziz, Senior Librarian at 03-79676802 or email at mfaizal@um.edu.my

Operating Hours

Monday - Friday	8.00 am – 5.00 pm
Closed on Saturday, Sunday and Public Holidays.	

STUDENT FACILITIES

FACILITIES	DISCRIPTION
Studios	Studios are located at Levels 4 to 7 and can be accessed from 8.00 am to 6.00 pm (weekdays). Students are reminded to keep the studios clean and observe proper code of conduct at all times.
Photocopying and Printing Services	Photocopying and printing services are provided in the Printing Room, Level 6 during normal working hours.
Student Lounge	The Student Lounge is located at Level 3, Mercu Alam Bina to give students space for study and relaxation between classes.
Surau/Musolla (Praying Room)	Male and female Musollas are located on the second floor of Mercu Alam Bina.
WIFI	Access is available within the building with a number of access points.
Computer and Virtual Reality Laboratories	The computer laboratory is a facility for all students of the Faculty. The computer laboratory is for teaching purposes that include facilities for 2D draughting, 3D modelling and simulation. All the computers are networked within the Faculty's area network and are linked to the Internet. The Virtual Reality Lab is located within the Computer Lab and requires booking in advance. The labs are open during normal working hours.
Woodworking and Metalworking Workshop	Woodworking and Metalworking Workshop is available for students to make architecture models and construct small-scale products. The workshop, equipped with hand and power tools for model-making with wood, plastics and metal, is open by request during normal working hours for use by all students of the faculty. Some equipment is available for loan outside operating hours. One full-time technician supervises the workshop activities and provides hands-on training and assistance to students.
Specialised Laboratories	There are three specialised laboratories within the Faculty buildings that support the lecturers and students in teaching and research activities. These are Environmental Physics Lab, Building Lab and Digital Fabrication Lab. These three labs provide advanced training and practical applications with the use of state-of-the-art machines and equipment, under the supervision of experienced academic and technical staff. These labs are open by request during normal working hours. Faculty staff supervises the workshop activities and provides hands-on training and assistance to students.
Measuring and Surveying Equipments	Measuring and Surveying equipment such as theodolite, QLASSIC inspection tools and PPE equipment are available at Level 6. The equipment is available for borrowing upon request during normal working hours.
Cafe	The faculty's café is located at level 3 and is open during office hours on weekdays.

OTHER MATTERS

1. **Disciplinary Matters (*Dress code for students*):**

These rules are made in accordance with Rule 26, the University of Malaya (Discipline of Students) Rules 1999. The rules aim to provide guidelines on the appropriate dress code and conduct to be observed by all students of the Universiti Malaya.

Every student is required **TO DISPLAY THEIR MATRIC CARD** when attending or when they present in the vicinity of the University's Administration Offices including lecture halls, examination halls, seminar rooms, libraries and in any formal ceremony;

Each student is required to abide by the rules indicated at specific venues such as the library, laboratory, sports arena, prayer room, dining hall, at formal university function and so forth;

Wear neat and decent attire, for instance: shirt, T-shirts, long pants for male students and baju kurung, kebaya labuh or any ethnic costumes or decent clothing approved for Muslim students; and Shoes.

2. **Enforcement**

All officers of the University including administrative, academic, security and library staff are empowered to issue warnings and to bar any student who does not follow the rules.

3. **Excerpt**

The following excerpt is taken from the Student Handbook, available from the Student Affairs & Alumni Department. Ensure that personal appearance is at its best when attending/being in the University Administration Office, including Lecture Halls, Seminar Rooms, the Library and attending official functions.

4. **Students must follow the Dress Etiquettes as stated below**

- Sleeveless T-Shirts
- T-Shirts with pictures or writings that are conflicting with the constitutional beliefs of Malaysia.
- Short pants
- Hair exceeding shoulder length (male students only)
- Provocative and indecent attire.

Students who do not abide by these restrictions can be disciplined as stated under the UM Methods (Student Behaviour) 1999. All University officers, including administration, academic, safety and library staff are responsible for reporting any breach of these rules to the Student Affairs Department (HEP), Universiti Malaya. Report forms are available from the Student Affairs Department.

Prohibited (Refer to <https://hep.um.edu.my/URUSAN%20TATATERTIB/dress-code.jpg>)



Berseluar Jeans
Bercompang-
camping
*Tattered/Ripped
Jeans*



Berseluar Ketat
Tight Pants



Berseluar Pendek
Shorts



Baju T Bergambar
Yang Bertentangan
Tatasusila
*T-Shirt with
Derogatory Picture/
Words*



Tanpa Lengan
Sleeveless



Baju Jarang dan
Ketat
*Tight and See-
Through Clothes*



Mendedahkan
Bahagian Badan
*Body-Revealing
Clothes*



Skirt Pendek
menampakkan Lutut
*Skirt that shows the
Knee*



Berselipar
Flip-Flops



Rambut Yang Tidak Kemas
Unruly Hair



Aksesori Muka
Face Accessories



Berambut Warna Fesyen Ganjil
Brightly Coloured and Odd Hairstyles

**DOCTOR OF
PHILOSOPHY**
(Research)

[BVA] DOCTOR OF PHILOSOPHY (BY RESEARCH)

PROGRAM OVERVIEW

The Doctor of Philosophy (Ph.D) candidates will carry out focused research in their area of specialisation, which is of immediate relevance to their research interest. Additionally, they will be exposed to new developments and challenges in their research topic in the international arena through media, seminars, conferences and keynote addresses and also through research attachments and collaborative exchange arrangements with international recognised research centres.

PROGRAM STRUCTURE

This Ph.D programme is purely based on individual supervised research. Candidates will be exposed to [Code: BVX8001] Research Methodology Course (3 Credits) to strengthen their research knowledge. At the end of the candidate's study, a thesis must be submitted and upon successful defence, the candidate will be granted Ph.D status. All research proposals must be approved and supervised by the Faculty. Ph.D candidates' theses must not exceed 100,000 words. They are required to complete their studies within 12 semesters.

PROGRAMME FEES

Candidate	Fees (RM)
Local (Malaysian)	RM 19,500
International	RM 42,230

Source: <https://study.um.edu.my>

CANDIDACY

Minimum period : 4 Semesters
Maximum period : 12 Semesters

REGISTERED CANDIDATE

A candidate will be classified as a registered candidate of the Universiti Malaya (UM) from his/her initial registration until the award of his/her degree, subject to the candidate to renew his/her registration every semester.

CANDIDATURE REQUIREMENTS

- Attend at least 3 credits of **[Code: BVX8001] Research Methodology Course not later than the second (2nd) semester** of candidature;
- Candidates need to present his/her **initial research proposal in the Pre-Research Proposal at the end of Research Metodology Course**;
- Fulfil attendance requirements for the **University Bahasa Malaysia course not later than the second (2nd) semester** of candidature (International Students only);

- Present research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;
- Present research progress at **Candidature Defence not later than the fifth (5th) semester** of candidature;
- Present research progress at **Thesis Seminar before the submission of thesis for examination**;
- must show proof of acceptance for publication as per the following (according to the criteria set in the publication guidelines), prior to graduation:
 - (a) at least **one (1) article** in journals indexed by Thomson Reuters Web of Science (WoS)
or;
 - (b) at least **one (1) book published** by publishers listed in the Thomson Reuters Web of Science (WoS) Master Book List or by University of Malaya Press or Dewan Bahasa dan Pustaka or any publishers listed and recognized by the Faculty
or;
 - (c) at least **two (2) publications** in Category A or B refereed journals, or book chapters as follows:
 - i. **Articles in Category A journals:***
Journals indexed in the Scopus citation database
 - ii. **Articles in Category B journals:***
Journals published by University or scholarly publishers or listed in MyJurnal (Malaysian Journal Management System). (List of Category B journals must be listed and recognized by the Faculty)
 - iii. **Book chapters of different books:***
Book chapters published by publishers listed in the Thomson Reuters Web of Science (WoS) Master Book List, or by University of Malaya Press or Dewan Bahasa dan Pustaka or any publishers listed and recognized by the Faculty. Two (2) book chapters in different books are equivalent to one (1) publication; and
- fulfil the residential requirement of **6 months**.

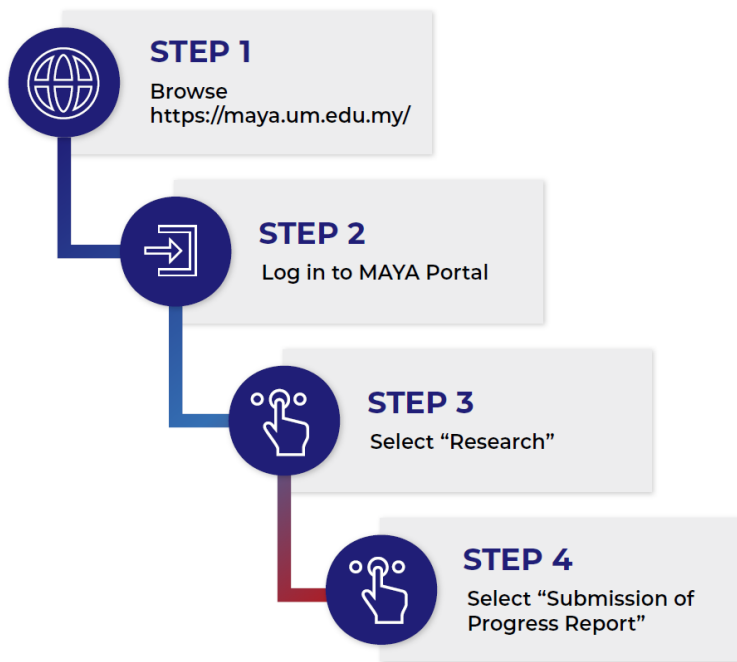
ADDITIONAL REQUIREMENTS

Compulsory to attend the seminars/conference/workshop or special seminars organized by the faculty or others at least five (5) times during the study period.

PROGRESS REPORT

A candidate is required to submit a research progress report latest between **week sixteen and week eighteen of each semester before the registration of the subsequent semester** begins in accordance with the prescribed procedure. The Supervisor, Co-Supervisor and Consultant shall evaluate the candidate's research progress report in accordance with the prescribed procedures and complete the said evaluation within one (1) week from the date of receipt of progress report for the semester concerned.

A candidate whose **progress is satisfactory shall be recommended to continue** with his candidature. A candidate whose **progress is not satisfactory for two (2) consecutive semesters shall have his candidature terminated** by the University. Please make sure the following steps are followed to ensure successful submission of your progress report:



CANDIDATURE SEMINAR

1. Submission for the Proposal Defence (PD)

Candidates are required to submit **four (4) copies of complete research proposal report of 3,000 – 7,000 words** to the Postgraduate Office **not later than two (2) weeks before the date of the presentation**, which includes the following:

- introduction, statement of problem and scope of research;
- research objective;
- summary of literature review;
- description of conceptual framework or summary of experimental methods or summary of research design and required equipment;
- importance and relevance of study;
- preliminary findings / pilot test (initial findings, if any)
- proposed work schedule based on the designated date of submission of thesis/dissertation; and
- brief bibliography.

2. Submission for the Confirmation Defence *(for direct admission candidates)*

Candidates are required to submit **four (4) copies of complete research proposal report of 4,000 - 7000 words** to the Postgraduate Office **not later than two (2) weeks before the date of the presentation**, which includes the following:

- introduction, statement of problem and scope of research;
- research objective;
- complete literature review;
- credible research methodology;
- importance and relevance of study;
- initial findings (preliminary findings) / pilot test (if any)

- proposed work schedule based on the designated date of submission of thesis/dissertation; and
- brief bibliography.

3. Submission for the Candidature Defence (CD)

Candidates are required to submit **four (4) copies of a complete research progress report of 5,000 - 10,000 words** to the Postgraduate Office **not later than two (2) weeks before the date of the presentation**, which includes the following:

- abstract (500 words in Malay and English);
- objective and Statement of Problem
- importance and relevance of the study;
- brief and concise literature review;
- credible research methodology;
- research findings that have been obtained to this point;
- brief and concise bibliography;
- research plan that will lead to the submission of the dissertation/thesis on the designated date; and
- list of publications or conference papers presented during the candidature period.

4. Submission for the Thesis Seminar

Candidates shall submit presentation notes with abstract to the Postgraduate Office **not later than three (3) working days** before the date of presentation

5. Submission of Thesis for Examination

Candidates shall submit their thesis for examination after the minimum period and within the maximum period of the candidature. Candidates must ensure that they have submitted a Three Months' Notice and that thesis title has been approved by the Faculty prior to submission of the thesis for examination. Any corrections or re-examination required for the thesis must be submitted before the lapse of the prescribed period. Failure to do so shall be deemed a failure in the examination of the thesis unless an extension to the prescribed period is approved by the Senate. Candidates are not allowed to withdraw from an examination for a thesis where the thesis has already been submitted for examination. Candidates are advised to refer to the latest Guidelines for the Preparation of Research Reports.

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Doctoral Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- The candidate's **progress report is unsatisfactory for two (2) consecutive semesters.**
- **Fails in his/her Candidature Defense presentation twice (2).**
- **Fails in the thesis or dissertation's examination** and viva voce.
- **Fails to fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration.**
- **Failure to renew his candidature for two (2) consecutive semesters.**
- The candidate was found to **plagiarise his thesis or dissertation** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.

- Candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

EVALUATION RUBRIC FOR PROPOSAL DEFENCE (PD) AND CANDIDATURE DEFENCE (CD)

The assessment of **Proposal Defence (PD)** is based on the evaluation criteria below:

EXCELLENT (acceptable with minor or no revision)	GOOD (acceptable with minor revision)	SATISFACTORY (acceptable with major revision)	UNSATISFACTORY (unacceptable & requires major revision)
6 scale	5 scale	4 scale	3-1 scale
Title and Abstract (5%)			
<p>The title and abstract clearly and precisely:</p> <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings in relation to the objectives • highlight major implications/findings • abstracts must not exceed 500 words 	<p>The title and abstract clearly:</p> <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words 	<p>The title and abstract attempt to address all or most of the following:</p> <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words 	<p>The title and abstract fail to address all or most of the following:</p> <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words
Introduction (25%)			
<p>The introduction clearly, convincingly and precisely (in relation to or within the research context) provides the following:</p> <ul style="list-style-type: none"> • states the problem/issues • provides a research framework • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction clearly provides the following:</p> <ul style="list-style-type: none"> • states the problem/issues • provides a research framework • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction attempts to address all or most of the following:</p> <ul style="list-style-type: none"> • states the problem/issues • provides a research framework • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction fails to address all or most of the following:</p> <ul style="list-style-type: none"> • states the problem/issues • provides a research framework • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions
Literature review (25%)			
<p>The review achieves the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and 	<p>The review achieves most of the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats 	<p>The review attempts to address all or most of the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to 	<p>The review fails to address all or most of the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives,

opinion vs. evidence.	to validity, and opinion vs. evidence.	different perspectives, threats to validity, and opinion vs. evidence.	threats to validity, and opinion vs. evidence.
Conceptual Framework / Methods / Approach (20%)			
<p>The description of the conceptual framework and methodology is clear and corresponding justification is convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is quite clear and corresponding justification is mostly convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is somewhat clear and corresponding justification is marginally convincing and in accordance with acceptable research conventions. Attempts to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is not clear and corresponding justification is unconvincing and not in accordance with acceptable research conventions. Fails to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures
Discussion and Conclusion (5%)			
<p>The discussion and conclusion clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the findings Relate back to the introduction and tie everything together 	<p>The discussion and conclusion quite clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Summarize the findings Provides perspective on the finding Relate back to the introduction and ties everything together 	<p>The discussion and conclusion attempts to address all or most of the following, but could be more clear and convincing:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together 	<p>The discussion and conclusion fail to address all or most of the following clearly and convincingly:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together
Academic Style, Language and References (10%)			
<p>Consistently applied standards of language composition, and APA guidelines, especially in regards to citations, references, headings, table of contents, page numbers, and running headers. Limited errors in spelling, grammar, word order, word usage, sentence structure, and/or punctuation.</p> <p>The reference list is complete and accurate.</p>	<p>Manuscript conformed to most standards of language composition and APA guidelines. Few errors per page that do not impede the meaning in spelling, grammar, word order, word usage, sentence structure, and/or punctuation</p> <p>The reference list is mostly complete and accurate.</p>	<p>Weak, incomplete, ambiguous, or inconsistent application of APA; manuscript organization, rules of language composition. Noticeable errors that do not impede readability. Moderate editing needed.</p> <p>The reference list is incomplete and / or contains some inaccuracies.</p>	<p>Failure to apply standard rules for manuscript presentation and language composition Errors begin to impede readability. Significant editing needed. Several errors per paragraph informal language used in multiple instances</p> <p>The reference list is incomplete and inaccuracies.</p>

Communication / Presentation (Q&A) (10%)			
<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> • Research information is presented in logical, interesting and effective sequence and easy to follow. • Very clear voice, fluent, confident, very good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> • Research information is presented in sequence that can be followed. • Clear voice, fluent, confident, good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> • Research information is presented in less logical sequence. • Clear voice, fluent, confident, good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> • Research information is presented in no logical sequence. • Voice not clear, hesitation and no body-language
TOTAL MARKS: 100%			

The assessment of **Candidature Defence (CD)** is based on the evaluation criteria below:

EXCELLENT (acceptable with minor or no revision)	GOOD (acceptable with minor revision)	SATISFACTORY (acceptable with major revision)	UNSATISFACTORY (unacceptable & requires major revision)
6 scale	5 scale	4 scale	3-1 scale
Introduction (10%)			
<p>The introduction clearly, convincingly and precisely (in relation to or within the research context provides the following:</p> <ul style="list-style-type: none"> • states the problem/issues • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction clearly provides the following:</p> <ul style="list-style-type: none"> • states the problem/issues • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction attempts to address all or most of the following:</p> <ul style="list-style-type: none"> • states the problem/issues • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions 	<p>The introduction fails to address all or most of the following:</p> <ul style="list-style-type: none"> • states the problem/issues • gives the research questions /objectives • states the significance of the study • defines operational terms/ definitions
Literature review (15%)			
<p>The review achieves the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review achieves most of the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review does not achieve most of the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review fails to achieve the following:</p> <ul style="list-style-type: none"> • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence.
Conceptual Framework / Methods / Approach (20%)			

<p>The description of the conceptual framework and methodology is clear and corresponding justification is convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis technique • validity and reliability / trustworthiness approaches • critical awareness of the strengths and weaknesses of approach, techniques, or procedures used 	<p>The description of the conceptual framework and methodology is quite clear and corresponding justification is mostly convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis technique • validity and reliability / trustworthiness approaches • ethical aspects and issues • some awareness of the strengths and weakness of approach, technique, or procedures used 	<p>The description of the conceptual framework and methodology is somewhat clear and corresponding justification is marginally convincing and in accordance with acceptable research conventions. Attempts to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis technique • validity and reliability / trustworthiness approaches • ethical aspects and issues • emerging awareness of the strengths and weakness of approach, technique, or procedures used 	<p>The description of the conceptual framework and methodology is not clear and corresponding justification is unconvincing and not in accordance with acceptable research conventions. Fails to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis technique • validity and reliability / trustworthiness approaches • ethical aspects and issues • strengths and weakness of approach, technique, or procedures used
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Results / Data Analyses / Findings (20%)

<p>The analyses and results illustrate the following:</p> <ul style="list-style-type: none"> • are appropriate align with the questions / hypotheses raised show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses • In addition, the amount and quality of data or information is sufficient, well presented and well interpreted • The author also: Critically uses the best available analytical techniques and appropriately created new ones. 	<p>The analyses and results illustrate much of the following:</p> <ul style="list-style-type: none"> • are appropriate align with the questions / hypotheses raised • show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses • In addition, the amount and quality of data or information is mostly quite: sufficient, well presented and well interpreted 	<p>The analyses and results do not illustrate much of the following:</p> <ul style="list-style-type: none"> • are appropriate • align with the questions / hypotheses raised • show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses • In addition, the amount and quality of data or information is mostly not: sufficient, well presented and well interpreted 	<p>The analyses and results fail to illustrate the following:</p> <ul style="list-style-type: none"> • are appropriate • align with the questions / hypotheses raised • show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses • In addition, the amount and quality of data or information is not: sufficient, well presented and well interpreted
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Discussion and Conclusion (20%)

The discussion and conclusion clearly, convincingly and precisely:

- Restate the objectives
- Summarize the findings
- Provide perspective on the finding
- Relate back to the introduction and ties everything together
- Discuss research implications
- Provide recommendations for future research
- Highlight the correlation between title proposed and research findings/outcomes.

The discussion and conclusion quite clearly, convincingly and precisely:

- Restate the objectives
- Summarize the findings
- Provide perspective on the finding
- Relate back to the introduction and ties everything together
- Discuss research implications
- Provide recommendation for future research
- Highlight the correlation between title proposed and research findings/outcomes.

The discussion and conclusion attempts to address all or most of the following, but could be more clear and convincing:

- Restate the objectives
- Summarize the findings
- Provide perspective on the finding
- Relate back to the introduction and ties everything together
- Discuss research implications
- Provide recommendation for future research
- Highlight the correlation between title proposed and research findings/outcomes.

The discussion and conclusion fails to address all or most of the following clearly and convincingly:

- Restate the objectives
- Summarize the findings
- Provide perspective on the finding
- Relate back to the introduction and ties everything together
- Discuss research implications
- Provide recommendation for future research
- Highlight the correlation between title proposed and research findings/outcomes.

Academic Style, Language and References (10%)

Consistently applied standards of language composition, and APA guidelines, especially in regards to citations, references, headings, table of contents, page numbers, and running headers. Limited errors in spelling, grammar, word order, word usage, sentence structure, and/or punctuation.

The reference list is complete and accurate.

Manuscript conformed to most standards of language composition and APA guidelines. Few errors per page that do not impede the meaning in spelling, grammar, word order, word usage, sentence structure, and/or punctuation

The reference list is mostly complete and accurate.

Weak, incomplete, ambiguous, or inconsistent application of APA; manuscript organization, rules of language composition. Noticeable errors that do not impede readability. Moderate editing needed.

The reference list is incomplete and / or contains some inaccuracies.

Failure to apply standard rules for manuscript presentation and language composition. Errors begin to impede readability. Significant editing needed. Several errors per paragraph informal language used in multiple instances

The reference list is incomplete and inaccuracies.

Communication / Presentation (Q&A) (5%)

The candidate demonstrates the following:

- Research information presented in logical, interesting and effective sequence and easy to follow.
- Very clear voice, fluent, confident, very good body-language.

The candidate demonstrates the following:

- Research information presented in sequence that can be followed.
- clear voice, fluent, confident, good body-language.

The candidate demonstrates the following:

- Research information presented in less logical sequence.
- clear voice, fluent, confident, good body-language.

The candidate demonstrates the following:

- Research information presented in no logical sequence.
- Voice not clear, hesitation and no body-language

TOTAL MARKS: 100%

Programme Coordinator



Sr DR. ZAFIRAH AL SADAT ZYED

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**MASTER OF BUILT
ENVIRONMENT**
(Research)

[BMA] MASTER OF BUILT ENVIRONMENT (BY RESEARCH)

PROGRAM OVERVIEW

Candidates will have the benefits of exposure in conducting research in their particular areas of interest or specialisation and acquisition of an understanding of a body of knowledge in the respective area of specialisation.

PROGRAMME STRUCTURE

This Master's programme is purely based on individual supervised research. Candidates will be exposed to [Code: BMX7001] Research Methodology Course (3 Credits) to strengthen their research knowledge. At the end of the candidate's study, a dissertation must be submitted and upon successful defence of the dissertation, the candidate will be awarded a Masters' degree. All research proposals must be approved and supervised by the Faculty. Candidates are required to complete their studies within 8 semesters.

PROGRAMME FEES

Candidate	Fees (RM)
Local (Malaysian)	RM 18,400
International	RM 34,200

Source: <https://study.um.edu.my>

CANDIDACY

Minimum period : 2 Semesters
Maximum period : 8 Semesters

REGISTERED CANDIDATE

A candidate will be classified as a registered candidate of the University of Malaya from his/her initial registration until the award of his/her degree, subject to the candidate to renew his/her registration every semester.

Candidature Requirements

- Attend at least 3 credits of **[Code: BMX7001] Research Methodology Course not later than the second (2nd) semester** of candidature;
- Candidates need to present his/her **initial research proposal in the Pre-Research Proposal at the end of Research Metodology Course**;
- Fulfil attendance requirements for the **University Bahasa Malaysia course not later than the second (2nd) semester** of candidature (International students only);
- Present research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;

- Present research progress at **Candidature Defence not later than the third (3rd) semester** of candidature;
- Present research progress at **Dissertation Seminar before the submission of dissertation for examination**;
- Must show proof of acceptance for publication as per the following (according to the criteria set in the publication guidelines), prior to graduation:
 - (a) at least **one (1) article** in journals indexed by Thomson Reuters Web of Science (WoS) **or**;
 - (b) at least **one (1) book published** by publishers listed in the Thomson Reuters Web of Science (WoS) Master Book List or by University of Malaya Press or Dewan Bahasa dan Pustaka or any publishers listed and recognized by the Faculty **or**;
 - (c) at least **one (1) publication** in Category A or B refereed journals, or book chapters as follows:
 - i. **Articles in Category A journals:***
Journals indexed in the Scopus citation database
 - ii. **Articles in Category B journals:***
Journals published by University or scholarly publishers or listed in MyJurnal (Malaysian Journal Management System). (List of Category B journals must be listed and recognized by the Faculty)
 - iii. **Book chapters of different books:***
Book chapters published by publishers listed in the Thomson Reuters Web of Science (WoS) Master Book List, or by University of Malaya Press or Dewan Bahasa dan Pustaka or any publishers listed and recognized by the Faculty. Two (2) book chapters in different books are equivalent to one (1) publication; and
- Fulfil the residential requirement of **6 months**.

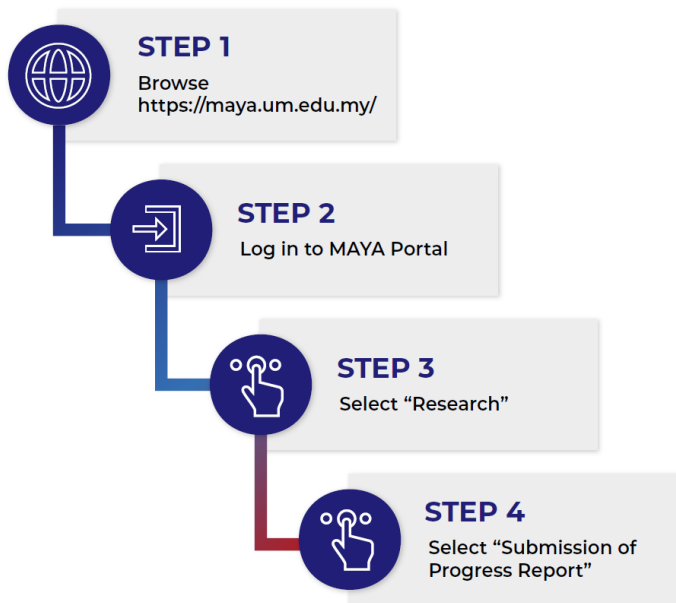
ADDITIONAL REQUIREMENTS

Compulsory to attend the seminars/conference/workshop or special seminars organized by the faculty or others at least one (1) times during the study period.

PROGRESS REPORT

A candidate is required to submit a research progress report latest between **week sixteen and week eighteen of each semester before the registration of the subsequent semester** begins in accordance with the prescribed procedure. The Supervisor, Co-Supervisor and Consultant shall evaluate the candidate's research progress report in accordance with the prescribed procedures and complete the said evaluation within one (1) week from the date of receipt of progress report for the semester concerned.

A candidate whose **progress is satisfactory shall be recommended to continue** with his candidature. A candidate whose **progress is not satisfactory for two (2) consecutive semesters shall have his candidature terminated** by the University. Please make sure the following steps are followed to ensure successful submission of your progress report:



CANDIDATURE SEMINAR

1. Submission for the Proposal Defence (PD)

Candidates are required to submit **four (4) copies of complete research proposal report of 3,000 – 7,000 words** to the Postgraduate Office **not later than two (2) weeks before the date of the presentation**, which includes the following:

- introduction, statement of problem and scope of research;
- research objective;
- summary of literature review;
- description of conceptual framework or summary of experimental methods or summary of research design and required equipment;
- importance and relevance of study;
- preliminary findings / pilot test (initial findings, if any)
- proposed work schedule based on the designated date of submission of thesis/dissertation; and
- brief bibliography.

2. Submission for the Candidature Defence (CD)

Candidates are required to submit **four (4) copies of a complete research progress report of 5,000 - 10,000 words** to the Postgraduate Office **not later than two (2) weeks before the date of the presentation**, which includes the following:

- abstract (500 words in Malay and English);
- objective and Statement of Problem
- importance and relevance of the study;
- brief and concise literature review;
- credible research methodology;
- research findings that have been obtained to this point;
- brief and concise bibliography;
- research plan that will lead to the submission of the dissertation/thesis on the designated date; and
- list of publications or conference papers presented during the candidature period.

3. Submission for the Dissertation Seminar

Candidates shall submit presentation notes with abstract to the Postgraduate Office **not later than three (3) working days** before the date of presentation

4. Submission of Dissertation for Examination

Candidates shall submit their dissertation for examination after the minimum period and within the maximum period of the candidature. Candidates must ensure that they have submitted a Three Months' Notice and that dissertation title has been approved by the Faculty prior to submission of the dissertation for examination. Any corrections or re-examination required for the dissertation must be submitted before the lapse of the prescribed period. Failure to do so shall be deemed a failure in the examination of the dissertation unless an extension to the prescribed period is approved by the Senate. Candidates are not allowed to withdraw from an examination for a dissertation where the dissertation has already been submitted for examination. Candidates are advised to refer to the latest Guidelines for the Preparation of Research Reports.

CONVERSION OF CANDIDATURE STATUS FROM MASTER'S PROGRAMME BY RESEARCH TO A DOCTORAL PROGRAMME BY RESEARCH

A program leading to a doctoral degree (PhD) within the same research area is possible and conversion from Master to PhD is based on merits. The PhD Candidacy is for a period of four (4) semesters (minimum) and up to twelve (12) semesters (maximum). Application for this option should be made before the expiry of the third semester of study (no later than 15 months from registration).

1. Terms and Requirements

- A full-time Master's by research candidate may be considered for a change in his candidature status to a full-time Doctoral programme by research, subject to the following conditions:
- the duration of **application for the change of candidature is between twelve (12) to fifteen (15) months** from the commencement date of the registration for the Master's programme;
- submit a **written application to the Supervisor** using the form provided;
- submit **one (1) research report not exceeding 6,000 words** regarding:
 - i. introduction and scope of research;
 - ii. research objectives;
 - iii. research methodology;
 - iv. research plans leading to the Doctoral programme.
- submit **research findings during the duration of the Master's programme** which is:
 - i. a journal paper accepted for publication and a seminar presentation at the university or national or international level;
OR
 - ii. a patent application pending approval or approved and a seminar presentation at the university or national or international level;
- A full-time candidate must **present their research findings in one (1) seminar** in front of a panel of assessors consisting of two (2) experts from within or outside the University in the field concerned as determined by the Faculty.
- The candidature duration of the Master's degree is taken into account in the duration of the Doctoral programme by research.

- A full-time candidate who has been approved for a change in candidature status shall register for the Doctoral programme by research not later than the second lecture week of the following semester.
- A full-time candidate who has been approved for a change in candidature status need not to retake the Research Methodology course at the Doctoral programme by research level.
- A full-time candidate who has been approved for a change in candidature status shall meet the graduation requirement

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Master's Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- The candidate's **progress report is unsatisfactory for two (2) consecutive semesters.**
- **Fails in his/her Candidature Defense presentation twice (2).**
- **Fails in the thesis or dissertation's examination** and viva voce.
- **Fails to fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration.**
- **Failure to renew his candidature for two (2) consecutive semesters.**
- The candidate was found to **plagiarise his thesis or dissertation** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.
- Candidate was found to have given **false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

EVALUATION RUBRIC FOR PROPOSAL DEFENCE (PD) AND CANDIDATURE DEFENCE (CD)

The assessment of **Proposal Defence (PD)** is based on the evaluation criteria below:

EXCELLENT (acceptable with minor or no revision)	GOOD (acceptable with minor revision)	SATISFACTORY (acceptable with major revision)	UNSATISFACTORY (unacceptable & requires major revision)
6 scale	5 scale	4 scale	3-1 scale
Title and Abstract (5%)			
The title and abstract clearly and precisely: <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings in relation to the objectives • highlight major implications/findings • abstracts must not exceed 500 words 	The title and abstract clearly: <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words 	The title and abstract attempt to address all or most of the following: <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words 	The title and abstract fail to address all or most of the following: <ul style="list-style-type: none"> • state the research purpose and objectives • summarize methods used • describe major findings • highlight major implication • abstracts must not exceed 500 words

Introduction (25%)			
<p>The introduction clearly, convincingly and precisely (in relation to or within the research context) provides the following:</p> <ul style="list-style-type: none"> states the problem/issues provides a research framework gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction clearly provides the following:</p> <ul style="list-style-type: none"> states the problem/issues provides a research framework gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction attempts to address all or most of the following:</p> <ul style="list-style-type: none"> states the problem/issues provides a research framework gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction fails to address all or most of the following:</p> <ul style="list-style-type: none"> states the problem/issues provides a research framework gives the research questions /objectives states the significance of the study defines operational terms/ definitions
Literature review (25%)			
<p>The review achieves the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review achieves most of the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review attempts to address all or most of the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review fails to address all or most of the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence.
Conceptual Framework / Methods / Approach (20%)			
<p>The description of the conceptual framework and methodology is clear and corresponding justification is convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is quite clear and corresponding justification is mostly convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is somewhat clear and corresponding justification is marginally convincing and in accordance with acceptable research conventions. Attempts to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is not clear and corresponding justification is unconvincing and not in accordance with acceptable research conventions. Fails to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures

Discussion and Conclusion (5%)			
<p>The discussion and conclusion clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the findings Relate back to the introduction and tie everything together 	<p>The discussion and conclusion quite clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Summarize the findings Provides perspective on the finding Relate back to the introduction and ties everything together 	<p>The discussion and conclusion attempts to address all or most of the following, but could be more clear and convincing:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together 	<p>The discussion and conclusion fail to address all or most of the following clearly and convincingly:</p> <ul style="list-style-type: none"> Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together
Academic Style, Language and References (10%)			
<p>Consistently applied standards of language composition, and APA guidelines, especially in regards to citations, references, headings, table of contents, page numbers, and running headers. Limited errors in spelling, grammar, word order, word usage, sentence structure, and/or punctuation.</p> <p>The reference list is complete and accurate.</p>	<p>Manuscript conformed to most standards of language composition and APA guidelines. Few errors per page that do not impede the meaning in spelling, grammar, word order, word usage, sentence structure, and/or punctuation</p> <p>The reference list is mostly complete and accurate.</p>	<p>Weak, incomplete, ambiguous, or inconsistent application of APA; manuscript organization, rules of language composition. Noticeable errors that do not impede readability. Moderate editing needed.</p> <p>The reference list is incomplete and / or contains some inaccuracies.</p>	<p>Failure to apply standard rules for manuscript presentation and language composition Errors begin to impede readability. Significant editing needed. Several errors per paragraph informal language used in multiple instances</p> <p>The reference list is incomplete and inaccuracies.</p>
Communication / Presentation (Q&A) (10%)			
<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> Research information is presented in logical, interesting and effective sequence and easy to follow. Very clear voice, fluent, confident, very good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> Research information is presented in sequence that can be followed. Clear voice, fluent, confident, good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> Research information is presented in less logical sequence. Clear voice, fluent, confident, good body-language. 	<p>The candidate demonstrates the following:</p> <ul style="list-style-type: none"> Research information is presented in no logical sequence. Voice not clear, hesitation and no body-language
TOTAL MARKS: 100%			

The assessment of **Candidature Defence (CD)** is based on the evaluation criteria below:

EXCELLENT (acceptable with minor or no revision)	GOOD (acceptable with minor revision)	SATISFACTORY (acceptable with major revision)	UNSATISFACTORY (unacceptable & requires major revision)
6 scale	5 scale	4 scale	3-1 scale
Introduction (10%)			
<p>The introduction clearly, convincingly and precisely (in relation to or within the research context) provides the following:</p> <ul style="list-style-type: none"> states the problem/issues gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction clearly provides the following:</p> <ul style="list-style-type: none"> states the problem/issues gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction attempts to address all or most of the following:</p> <ul style="list-style-type: none"> states the problem/issues gives the research questions /objectives states the significance of the study defines operational terms/ definitions 	<p>The introduction fails to address all or most of the following:</p> <ul style="list-style-type: none"> states the problem/issues gives the research questions /objectives states the significance of the study defines operational terms/ definitions
Literature review (15%)			
<p>The review achieves the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review achieves most of the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review does not achieve most of the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence. 	<p>The review fails to achieve the following:</p> <ul style="list-style-type: none"> Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Attention is given to different perspectives, threats to validity, and opinion vs. evidence.
Conceptual Framework / Methods / Approach (20%)			
<p>The description of the conceptual framework and methodology is clear and corresponding justification is convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures data analysis technique validity and reliability / trustworthiness approaches critical awareness of the strengths and weaknesses of 	<p>The description of the conceptual framework and methodology is quite clear and corresponding justification is mostly convincing and in accordance with acceptable research conventions. This includes:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures data analysis technique validity and reliability / trustworthiness approaches 	<p>The description of the conceptual framework and methodology is somewhat clear and corresponding justification is marginally convincing and in accordance with acceptable research conventions. Attempts to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures 	<p>The description of the conceptual framework and methodology is not clear and corresponding justification is unconvincing and not in accordance with acceptable research conventions. Fails to address all or most of the following, but could be more convincing:</p> <ul style="list-style-type: none"> theoretical framework research sample, sample procedure and technique instrumentation data collection procedures data analysis technique

<p>approach, techniques, or procedures used</p>	<ul style="list-style-type: none"> ethical aspects and issues some awareness of the strengths and weakness of approach, technique, or procedures used 	<ul style="list-style-type: none"> data analysis technique validity and reliability / trustworthiness approaches ethical aspects and issues emerging awareness of the strengths and weakness of approach, technique, or procedures used 	<ul style="list-style-type: none"> validity and reliability / trustworthiness approaches ethical aspects and issues strengths and weakness of approach, technique, or procedures used
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Results / Data Analyses / Findings (20%)

<p>The analyses and results illustrate the following:</p> <ul style="list-style-type: none"> are appropriate align with the questions / hypotheses raised show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses In addition, the amount and quality of data or information is sufficient, well presented and well interpreted <p>The author also:</p> <ul style="list-style-type: none"> Critically uses the best available analytical techniques and appropriately created new ones. 	<p>The analyses and results illustrate much of the following:</p> <ul style="list-style-type: none"> are appropriate align with the questions / hypotheses raised show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses In addition, the amount and quality of data or information is mostly quite: sufficient, well presented and well interpreted 	<p>The analyses and results do not illustrate much of the following::</p> <ul style="list-style-type: none"> are appropriate align with the questions / hypotheses raised show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses In addition, the amount and quality of data or information is mostly not: sufficient, well presented and well interpreted 	<p>The analyses and results fail to illustrate the following:</p> <ul style="list-style-type: none"> are appropriate align with the questions / hypotheses raised show sophistication (e.g. recognize complex patterns in the data) and iteratively explore questions raised by analyses In addition, the amount and quality of data or information is not: sufficient, well presented and well interpreted
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Discussion and Conclusion (20%)

<p>The discussion and conclusion clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Restate the objectives Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together Discuss research implications Provide recommendations for future research Highlight the correlation between title proposed and 	<p>The discussion and conclusion quite clearly, convincingly and precisely:</p> <ul style="list-style-type: none"> Restate the objectives Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together Discuss research implications Provide recommendation for future research 	<p>The discussion and conclusion attempts to address all or most of the following, but could be more clear and convincing:</p> <ul style="list-style-type: none"> Restate the objectives Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together Discuss research implications 	<p>The discussion and conclusion fails to address all or most of the following clearly and convincingly:</p> <ul style="list-style-type: none"> Restate the objectives Summarize the findings Provide perspective on the finding Relate back to the introduction and ties everything together Discuss research implications Provide recommendation for future research
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research findings/outcomes.	<ul style="list-style-type: none"> Highlight the correlation between title proposed and research findings/outcomes. 	<ul style="list-style-type: none"> Provide recommendation for future research Highlight the correlation between title proposed and research findings/outcomes. 	<ul style="list-style-type: none"> Highlight the correlation between title proposed and research findings/outcomes.
Academic Style, Language and References (10%)			
Consistently applied standards of language composition, and APA guidelines, especially in regards to citations, references, headings, table of contents, page numbers, and running headers. Limited errors in spelling, grammar, word order, word usage, sentence structure, and/or punctuation. The reference list is complete and accurate.	Manuscript conformed to most standards of language composition and APA guidelines. Few errors per page that do not impede the meaning in spelling, grammar, word order, word usage, sentence structure, and/or punctuation The reference list is mostly complete and accurate.	Weak, incomplete, ambiguous, or inconsistent application of APA; manuscript organization, rules of language composition. Noticeable errors that do not impede readability. Moderate editing needed. The reference list is incomplete and / or contains some inaccuracies.	Failure to apply standard rules for manuscript presentation and language composition Errors begin to impede readability. Significant editing needed. Several errors per paragraph informal language used in multiple instances The reference list is incomplete and inaccuracies.
Communication / Presentation (Q&A) (5%)			
The candidate demonstrates the following: <ul style="list-style-type: none"> Research information presented in logical, interesting and effective sequence and easy to follow. Very clear voice, fluent, confident, very good body-language. 	The candidate demonstrates the following: <ul style="list-style-type: none"> Research information presented in sequence that can be followed. clear voice, fluent, confident, good body-language. 	The candidate demonstrates the following: <ul style="list-style-type: none"> Research information presented in less logical sequence. clear voice, fluent, confident, good body-language. 	The candidate demonstrates the following: <ul style="list-style-type: none"> Research information presented in no logical sequence. Voice not clear, hesitation and no body-language
TOTAL MARKS: 100%			

Programme Coordinator



Gs DR. NUR AULIA ROSNI

Coordinator for Master programmes

PhD in Built Environment, IIUM

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Bachelor of Urban and Regional Planning, IIUM

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MASTER OF REAL ESTATE

(Coursework)

Conventional and Online & Distance Learning (ODL)

[BQA] MASTER OF REAL ESTATE (COURSEWORK)

PROGRAM OVERVIEW

This program aims to create reflective practitioners in the Real Estate Industry, with enhanced knowledge and skills in land and property development. This cutting edge program, designed with inputs from the real estate industry, will significantly strengthen and develop the expertise of contemporary real estate professionals besides meeting the needs of aspiring real estate professionals.

DELIVERY AND ATTENDANCE

- The minimum duration of the program is two (2) normal semesters (one year) and one (1) special semester, with the maximum is eight (8) semesters (four years).
- Classes will be conducted through physically after-office and / or weekend session for Conventional Mode candidates at the Universiti Malaya's Faculty of Built Environment.
- The Online classes will only be conducted for the Online & Distance Learning (ODL) candidates.
- The medium of instruction are taught fully in English.
- The program is delivered through lectures, tutorials and seminars.

CONFERMENT OF DEGREE

Upon successful completion of the program, students will be conferred the **Master of Real Estate** degree from the Universiti Malaya (UM).

PROGRAMME FEES

Candidate	Fees (RM) (Conventional)	Fees (RM) (Online & Distance Learning)
Local (Malaysian)	RM 16,900	RM 21,967
International	RM 30,800	RM 33,200

Source: <https://study.um.edu.my>

PROGRAM STRUCTURE AND ASSESSMENT

This program consists of twelve (12) courses apportioned as follows: Semester 1 has four (4) compulsory courses and one (1) elective course. In Semester 2, candidates need to registered four (4) compulsory courses and one (1) elective course from choice of three courses. Meanwhile in Semester 3 (Special Semester) candidate need to registered one (1) compulsory course. The courses are assessed by examination and / or continuous assessment.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Apply the real estate knowledge and skills in the real estate industry
PLO2	Adapt the relevant approaches related to real estate

PLO3	Use up-to-date techniques, resources and/or standards in their jobs
PLO4	Interact professionally with clients or stakeholders.
PLO5	Develop analytical and problem solving skills.
PLO6	Able to make decisions, lead, motivate and communicate effectively in a career
PLO7	Integrate personal skills for professional development and real estate entrepreneurship
PLO8	Demonstrate ethical values and professionalism in performing tasks to meet the needs of clients, the profession and society.

**COURSE STRUCTURE
MASTER OF REAL ESTATE (CONVENTIONAL)**

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQA 7001	Research Methodology in Real Estate <i>(prerequisite subject)</i>	3	BQA 7018	Research Project I <i>(prerequisite subject)</i>	6	BQA 7019	Research Project II <i>(prerequisite subject)</i>	6	39
	BQA 7003	Development Economics and Planning	4	BQA 7006	Real Estate Development Process	4				
	BQA 7012	Real Estate Law	4	BQA 7015	Real Estate Market Research	4				
	BQA 7013	Real Estate Finance and Investment	4	BQA 7016	Real Estate Valuation	4				
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQA 7009	Corporate Real Estate	3	BQA 7009	Corporate Real Estate	3				6
	BQA 7010	Real Estate Project Management		BQA 7010	Real Estate Project Management					
	BQA 7011	Sustainable Real Estate Development		BQA 7011	Sustainable Real Estate Development					
TOTAL CREDIT										45

COURSE STRUCTURE
MASTER OF REAL ESTATE (ONLINE & DISTANCE LEARNING - ODL)

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQA 7001D	Research Methodology in Real Estate <i>(prerequisite subject)</i>	3	BQA 7014D	Research Project I <i>(prerequisite subject)</i>	6	BQA 7017D	Research Project II <i>(prerequisite subject)</i>	6	39
	BQA 7003D	Development Economics and Planning	4	BQA 7006D	Real Estate Development Process	4				
	BQA 7012D	Real Estate Law	4	BQA 7015D	Real Estate Market Research	4				
	BQA 7013D	Real Estate Finance and Investment	4	BQA 7016D	Real Estate Valuation	4				
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQA 7009D	Corporate Real Estate	3	BQA 7009D	Corporate Real Estate	3				6
	BQA 7010D	Real Estate Project Management		BQA 7010D	Real Estate Project Management					
	BQA 7011D	Sustainable Real Estate Development		BQA 7011D	Sustainable Real Estate Development					
TOTAL CREDIT										45

PREREQUISITE COURSE

Candidates need to register and complete the **BQA7001 / BQA7001D – Research Methodology for Real Estate** before proceed with **BQA7018 / BQA7014D - Research Project I** and then after with **BQA7019 / BQA7017D - Research Project II** in the following semester.

ASSESSMENT FOR PROGRAMME OF STUDY BY COURSEWORK (GRADING SCHEME)

The assessment of examinations for the programme of study by coursework is based on the following grading scheme:

Marks	Grade	Grade Point	Meaning
90.00 – 100.00	A+	4.0	High Distinction
80.00 – 89.99	A	4.0	Distinction
75.00 – 79.99	A-	3.7	
70.00 – 74.99	B+	3.3	Pass
65.00 – 69.99	B	3.0	
60.00 – 64.99	B-	2.7	Fail

55.00 – 59.99	C+	2.3	
50.00 – 54.99	C	2.0	
45.00 – 49.99	C-	1.7	
40.00 – 44.99	D+	1.5	
35.00 – 39.99	D	1.0	
0.00 – 34.99	F	0.00	

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Master's Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- Candidate does **not achieve at least a minimum passing grade** for the core course including compulsory courses by the Faculty **after three (3) attempts**.
- Obtains a **GPA of less than 3.00 for three (3) consecutive semesters** including Special Semester (if any).
- A candidate who is **re-admitted after being terminated** from his programme of study and obtains a CGPA of **less than 3.00 for the examinations** in the semester in which he has registered immediately upon re-admission will be terminated from his study.
- Fails to **fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration**.
- **Failure to renew his candidature for two (2) consecutive semesters**.
- The candidate was found to **plagiarise his dissertation or research report** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.
- The candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

SYLLABUS SUMMARY

BQA7001 / BQA7001D RESEARCH METHODOLOGY IN REAL ESTATE	
3 Credits	<p>This course provides an understanding and guidance on research and research methodology. Students are provided with the knowledge on literature review and the design of research framework. At the end of this course, the students will be able to prepare a research proposal.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Review relevant literature for the proposed study • Propose a significant research problem with research questions, aim, objectives and significance of study • Adopt suitable methodology for the proposed study

BQA7003 / BQA7003D DEVELOPMENT ECONOMICS AND PLANNING	
4 Credits	<p>This course provides an overview of economics and planning in real estate development. Among others this course covers land economics, urbanisation issues and government intervention in real estate market.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Illustrate theories and issues related to real estate development and design. • Describe real estate issues in the real estate development process. • Evaluate problem solving measures in land development.
BQA7006 / BQA7006D REAL ESTATE DEVELOPMENT PROCESS	
4 Credits	<p>This course covers stakeholders and processes in real estate development. It also includes marketing and appraisal of the proposed development project.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Identify real estate development process models. • Explain relevant attributes of a successful property development. • Appraise the performance and viability of the development project.
BQA7012 / BQA7012D REAL ESTATE LAW	
4 Credits	<p>The course provides students knowledge in law related to real estate development which includes land, building and environmental laws [Federal Constitutions, National Land Code 1965, Town and Country Planning Act 1976, Local Government Act 1976, Street, Drainage and Building Act 1974, Environmental Quality Act 1974 and Housing Development Act (Control and Licensing) 1966.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Explain the legal framework in real estate law. • Relate the different law provisions to real estate development stages. • Evaluate the importance of various law provisions for real estate development.
BQA7013 / BQA7013D REAL ESTATE FINANCE AND INVESTMENT	
4 Credits	<p>This course provides an understanding of the types of real estate finance system available at Malaysian and global contexts. The course also includes the process used by financial institutions in Malaysia in determining the financial position of the bridging and end financing of a development project. It also provides an understanding of various types of investment, investment analysis techniques and risk elements in real estate.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Identify the principles of financial and investment property. • Evaluate the performance of real estate investment. • Use real estate financial analysis and investment techniques in decision-making related to real estate investment
BQA7018 / BQA7014D RESEARCH PROJECT I	
6 Credits	<p>This course involved a sustained, in-depth and research-informed project in consultation with the supervisor. At this stage, students will produce Chapter 1 to Chapter 3, which includes the introduction, literature review and research methodology.</p>

	<p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Develop concepts and frameworks based on issues in the field of real estate. • Write a literature review of the research project. • Apply a suitable research methodology for the research project.
BQA7015 / BQA7015D REAL ESTATE MARKET RESEARCH	
4 Credits	<p>This course covers property market research topics including types of data, methods of data collection, survey design, sampling, data analysis, forecasting and market research findings.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Explain real estate market research process. • Evaluate real estate market research findings. • Report real estate market research findings.
BQA7016 / BQA7016D REAL ESTATE VALUATION	
4 Credits	<p>This course covers methods of valuation and discounting techniques; Market, Cost and Income approaches as outlined by the Malaysian Valuation Standards in determining the Market Value of various types of property.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Explain the different property valuation approaches. • Apply the valuation methods and discounting techniques. • Justify the suitability of valuation methods for different types of property.
BQA7019 / BQA1017D RESEARCH PROJECT II	
6 Credits	<p>This course involved a sustained, in-depth and research-informed project in consultation with the supervisor. At this stage, students will produce the final project report.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Conduct the collection and analysis of data using appropriate techniques. • Prepare a report of research projects using appropriate format and recommended academic references and citation style. • Demonstrate the knowledge acquired from the programme in the research project.

EVECTIVE COURSES

BQA7009 / BQA7009D CORPORATE REAL ESTATE	
3 Credits	<p>This course provides an understanding on the management and strategic planning of corporate real estate assets. This course introduces the tools and techniques to develop corporate real estate (CRE) strategies. The course also covers procurement analysis, corporate relocation, space strategy and corporate real estate asset performance measurement.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Explain the roles of corporate real estate asset in an organisation. • Propose suitable strategies in corporate real estate. • Evaluate corporate real estate holdings performance and tenure decision.

BQA7010 / BQA7010D REAL ESTATE PROJECT MANAGEMENT	
3 Credits	<p>This course provides basic knowledge and skills required to manage a project or to be an effective member of a project team. It covers the nine functions of project management (cost, time, quality, scope, risk, communication, human resource, procurement and integration) tracking a project through its various lifecycles from inception through to completion.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> Evaluate constraints, assumptions and other activities in real estate project management. Formulate measurable criteria for assessment of project performance and success. Identify the key needs and interests of stakeholders for successful execution of projects.
BQA7011 / BQA7011D SUSTAINABLE REAL ESTATE DEVELOPMENT	
3 Credits	<p>This course provides the basic knowledge of sustainable development principles in real estate development. It translates the abstract concepts of sustainability into tangible trends and cases to assist in understanding of sustainable real estate development including, but not limited to, the green building movement and city development concepts.</p> <p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> Identify sustainable development principles and practices in real estate development. Explain sustainable development principles in real estate development. Integrate sustainable development ethics and values in real estate development.

Programme Coordinator



DR. ZAIRUL NISHAM MUSA

Coordinator for Master of Real Estate (by Coursework)

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MASTER OF PROJECT MANAGEMENT

(Coursework)

Conventional and Online & Distance Learning (ODL)

[BQB] MASTER OF PROJECT MANAGEMENT (COURSEWORK)

PROGRAM OVERVIEW

This program intends to produce knowledgeable and competent project management professionals who are ethically and socially responsible, and sensitive to the needs for promoting sustainability. Students are trained with the skills to handle problems, challenges and a project management perspective in a global context. Among others, disciplines stressed in this program include Principles of Project Management, Project Management Professional Development, Project Investment and Financial Management, Organisational and Strategic Management, and also Value and Risk Management. The multi-disciplinary approach in the program also allows exploration of other disciplines that are relevant to project management including Health and Safety Management, Information Technology Management for Projects, Legal Studies for Project Management as well as Assets and Facilities Management. The component that is given emphasis in this program is research in selected areas specific to project management, so that students are trained to become effective analyzers and develop skills towards problem solving using scientific approach.

PROGRAM OBJECTIVES

- To produce project management graduates who are skilled, knowledgeable, and professional in managing projects as required by the industries;
- To produce project management graduates who are critical, creative, innovative, able to lead and competitive; and
- To produce project management graduates who are alert to technological advancement, professional, ethical and having responsibilities towards community and environment.

Additional Requirements

Beside the general entry requirement that is stated by the University, below are the additional requirements for candidates specific requirements for the Master of Project Management programme:

1. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with CGPA of 3.00 and above; OR
 2. Professional qualification from a recognized professional body; OR other qualifications as written by the Senate from time to time;
- AND
3. Have at least one (1) year of project-related working experience in related field upon completion of Bachelor Degree; OR
 4. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with CGPA of 2.70 to 2.99 with a minimum of two (2) years of project-related working experience in related field upon completion of Bachelor Degree; OR
 5. Bachelor's Degree in Science or Non-Science qualification in a relevant discipline from a recognized University with CGPA of 2.50 to 2.69 with a minimum of three (3) years of project-related working experience in related field upon completion of Bachelor Degree and fulfils one (1) of the following criteria:
 - Universiti Malaya (UM) graduate; OR
 - Produce at least one (1) publication in related fields; OR
 - Scholarship recipient; OR

6. Bachelor's Degree with CGPA of 2.00 to 2.49 with a minimum of five (5) years of project-related working experience in related field and fulfils upon completion of Bachelor Degree two (2) of the following criteria:
- Universiti Malaya graduate; OR
 - Produce at least one (1) publication in related fields; OR
 - Scholarship recipient

DELIVERY AND ATTENDANCE

- The minimum duration of the program is three (3) normal semesters or one and a half (1½) years while the maximum duration is eight (8) semesters or four (4) years.
- Classes will be conducted through physically after-office and / or weekend session for Conventional Mode candidates at the Universiti Malaya's Faculty of Built Environment.
- The Online classes will only be conducted for the Open & Distance Learning (ODL) candidates.
- The medium of instruction are taught fully in English.
- The program is delivered through lectures, tutorials and coursework.

CONFERMENT OF DEGREE

Upon successful completion of the program, students will be conferred the **Master of Project Management** degree from the Universiti Malaya (UM).

PROGRAMME FEES

Candidate	Fees (RM) (Conventional)	Fees (RM) (Online & Distance Learning)
Local (Malaysian)	RM 16,600	RM 23,757
International	RM 36,300	RM 38,723

Source: <https://study.um.edu.my>

PROGRAMME STRUCTURE AND ASSESSMENT

This program consists of eleven (11) courses. Each course is delivered over a 17-week period (normal semester). The courses are assessed by examination and/or continuous assessment.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Demonstrate in-depth comprehension of the knowledge areas in the project management body of knowledge
PLO2	Apply project management knowledge critically and integratively to manage and resolve complex problems and issues in project environment
PLO3	Apply the tools and techniques related to project management in work environment
PLO4	Assess strategic options and being able to make decisions with supporting evidence and providing good judgement.

PLO5	Demonstrate the ability to provide clear, reasonable and professional views in all forms of communications
PLO6	Demonstrate significant leadership and interpersonal skills in managing work within project environment independently and collaboratively
PLO7	Exemplify self-advancement through continuous academic and professional development in project management
PLO8	Contribute ethically and professionally to social, technological and economic development in the project environment both nationally and internationally

COURSE STRUCTURE
MASTER OF PROJECT MANAGEMENT (CONVENTIONAL)

YEAR 1

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7001	Research Methodology for Project Management <i>(prerequisite subject)</i>	3	BQB 7017	Research Project I <i>(prerequisite subject)</i>	5				24
	BQB 7004	Principles of Project Management	3	BQB 7016	Integrated Project	4				
	BQB 7005	Project Management Professional Development	3	BQB 7008	Project Management Professional Development II	3				
	BQB 7006	Organizations and Strategic Management for Projects	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)				BQB 7011	Health and Safety Management	3				3
				BQB 7012	Legal Studies for Project Management					
TOTAL CREDIT										27

YEAR 2

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7018	Research Project II <i>(prerequisite subject)</i>	7							13
	BQB 7009	Value and Risk Management for Projects	3							
	BQB 7010	Project Investment and Financial Management	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQB 7013	Assets and Facilities Management	3							3
	BQB 7014	IT Management for Projects								
TOTAL CREDIT										16

**COURSE STRUCTURE
MASTER OF PROJECT MANAGEMENT (ONLINE & DISTANCE LEARNING - ODL)**

YEAR 1

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7001D	Research Methodology for Project Management <i>(prerequisite subject)</i>	3	BQB 7002D	Research Project I <i>(prerequisite subject)</i>	5				24
	BQB 7004D	Principles of Project Management	3	BQB 7016D	Integrated Project	4				
	BQB 7005D	Project Management Professional Development	3	BQB 7008D	Project Management Professional Development II	3				
	BQB 7006D	Organizations and Strategic Management for Projects	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)				BQB 7011D	Health and Safety Management	3				3
				BQB 7012D	Legal Studies for Project Management					
TOTAL CREDIT										27

YEAR 2

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7015D	Research Project II <i>(prerequisite subject)</i>	7							13
	BQB 7009D	Value and Risk Management for Projects	3							
	BQB 7010D	Project Investment and Financial Management	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQB 7013D	Assets and Facilities Management	3							3

	BQB 7014	IT Management for Projects								
TOTAL CREDIT										16

PREREQUISITE COURSE

Candidates need to register and complete the **BQB7001/ BQB7001D – Research Methodology for Project Management** before proceed with **BQB7017/ BQB7002D - Research Project I** and then after with **BQB1018/ BQB7015D - Research Project II** in the following semester.

ASSESSMENT FOR PROGRAMME OF STUDY BY COURSEWORK (GRADING SCHEME)

The assessment of examinations for the programme of study by coursework is based on the following grading scheme:

Marks	Grade	Grade Point	Meaning
90.00 – 100.00	A+	4.0	High Distinction
80.00 – 89.99	A	4.0	Distinction
75.00 – 79.99	A-	3.7	
70.00 – 74.99	B+	3.3	Pass
65.00 – 69.99	B	3.0	
60.00 – 64.99	B-	2.7	Fail
55.00 – 59.99	C+	2.3	
50.00 – 54.99	C	2.0	
45.00 – 49.99	C-	1.7	
40.00 – 44.99	D+	1.5	
35.00 – 39.99	D	1.0	
0.00 – 34.99	F	0.00	

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Master's Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- Candidate does **not achieve at least a minimum passing grade** for the core course including compulsory courses by the Faculty **after three (3) attempts**.
- Obtains a **GPA of less than 3.00 for three (3) consecutive semesters** including Special Semester (if any).
- A candidate who is **re-admitted after being terminated** from his programme of study and obtains a CGPA of **less than 3.00 for the examinations** in the semester in which he has registered immediately upon re-admission will be terminated from his study.
- Fails to **fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration**.

- **Failure to renew his candidature for two (2) consecutive semesters.**
- The candidate was found to **plagiarise his dissertation or research report** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.
- The candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

SYLLABUS SUMMARY

BQB7001 / BQB7001D RESEARCH METHODOLOGY FOR PROJECT MANAGEMENT	
3 Credits	<p>Students will be exposed to the elements and processes of scientific research problem and hypothesis formulation, research design, data collection and analysis methods, forming conclusions, and writing research reports. Data collection and data sources, library research, research methodology, philosophy of science in general and research methods in detail. The use of computers: SPSS, and other software.</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> • Propose different types of qualitative and quantitative methods related to the assessment, methods of project management, data interpretation and report writing. • Evaluate research reports with critical thinking and problem-solving skills. • Select the theory and technique development and implementation of research in related fields.
BQB7017 / BQB7002D RESEARCH PROJECT I	
7 Credits	<p>Research projects involving the production of scientific information through research methodologies that have been studied. Research will be conducted on the basis of the title and the scope proposed by students and supervised regularly by designated supervisors. Time commitment involves the formation justification of project planning, project implementation, collecting research data, reading or literature search, and the writing of the results of the project. At this stage, students will produce 3 chapters which include the introduction, literature review and research methodology.</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> • Evaluate fundamental knowledge including theories, concepts, frameworks, literature and issues in the field of project management. • Manage the collection and analysis of secondary data using appropriate techniques in an ethical and professional manner. • Identify research methods and analytical techniques that are appropriate to the chosen research topic.
BQB7018 / BQB7015D RESEARCH PROJECT II	
5 Credits	<p>Research projects involving the production of scientific information through research methodologies that have been studied. Research will be conducted on the basis of the title and the scope proposed by students and supervised regularly by designated supervisors. Time commitment involves the formation justification of project planning, project implementation, collecting research data, reading or literature search, and the writing of the results of the project. At this stage, students will produce a balance of about 4-6 comprising about data collection, analysis and conclusions. It also includes a complete research report produced by integrated with previous chapters that have been</p>

	<p>generated during the course investigational Project I and comply with the procedures earnings reports research projects required by the university.</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> • Carry out the collection and analysis of primary data using appropriate techniques in an ethical and professional manner. • Evaluate the achievement of the objectives of research, the research questions / hypotheses and research findings. • Compose a report of research projects using appropriate format and recommended academic references and citation style.
BQB7004 / BQB7004D PRINCIPLES OF PROJECT MANAGEMENT	
3 Credits	<p>The course contains the fundamentals of the project, the project management process, project planning and project execution and closure. These include the establishment of the project organization, the establishment of effective leadership, team preparation, settlement issues, effective implementation (performance measurement, monitoring and control, coordination, record, report status, communication, conflict management), and the closure of the project (measurement of project success, closure contracts, data transfer, learning, and administrative closure)</p> <p>At the end of this course, students can:</p> <ul style="list-style-type: none"> • Interpret the concept and principles of project management. • Identify effective project management methodology towards successful and effective projects. • Develop effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure).
BQB7005 / BQB7005D PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT I	
3 Credits	<p>This course provides an overview of the aspects covered by the Project Management Institute (PMI) Project Management Professional certification (PMP) by the Project Management Body of Knowledge (PMBOK). Five of the ten knowledge areas contained in the PMBOK that will be covered are:</p> <ul style="list-style-type: none"> • Project Integration Management, • Project Scope Management, • Project Schedule Management, • Project Cost Management, and • Project Quality Management. <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Explain about Project Management Body of Knowledge (PMBOK). • Justify best practices recognized by the discipline of project management for implementation into a successful project management. • Propose a successful project management disciplines through a strong foundation, intellectually, and professionally.
BQB7006 / BQB7006D ORGANIZATIONS AND STRATEGIC MANAGEMENT FOR PROJECTS	
3 Credits	<p>The course includes a review of scientific results in organization and strategic management for the project. The course will also look at how to formulate corporate decisions related to the project.</p>

	<p>At the end of this course, students can:</p> <ul style="list-style-type: none"> • Interpret the concept and principles of organization and strategic management for the project. • Specify the context of strategic management and project organization. • Solve the relate it to organisation and project strategic management.
BQB7016 / BQB7016D INTEGRATED PROJECT	
4 Credits	<p>Students will be guided and supervised by the lecturer. The theme for the given issues and problems in the course of project work is based on the elements of one or a combination of knowledge related to project management. Students are required to present and defend the results of project work courses given in the seminar.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Appraise the interests of the combination and integration of knowledge. • Relate concepts, principles, techniques and the academic knowledge acquired. • Use the knowledge gained and confidence to solve problems.
BQB7008 / BQB7008D PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT II	
3 Credits	<p>This course provides an overview of the aspects covered by the Project Management Institute (PMI) Project Management Professional certification (PMP) by the Project Management Body of Knowledge (PMBOK). Five of the ten knowledge areas contained in the PMBOK that will be covered are:</p> <ul style="list-style-type: none"> • Project Resource Management, • Project Communication Management, • Project Risk Management, • Project Procurement Management, and • Project Stakeholder Management. <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Explain about Project Management Body of Knowledge (PMBOK). • Identify best practices recognized by the discipline of project management for implementation into a successful project management. • Propose a successful project management disciplines through a strong foundation, intellectually, and professionally
BQB7009 / BQB7009D VALUE AND RISK MANAGEMENT FOR PROJECTS	
3 Credits	<p>This course introduces the general theories of value engineering/ value management and risk management as part of the process involved in project management. Each element will be emphasized in terms of theory, methodology and practical applications for the project.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Interpret the value and risk management aspects that are needed in projects. • Explain the concepts and principles of value and risk management in projects. • Develop the skills and methods of implementation of value and risk management in the context of projects.

BQB7010 / BQB7010D PROJECT INVESTMENT AND FINANCIAL MANAGEMENT	
3 Credits	<p>This course provides an in-depth view of the processes in project finance, project costs and entrepreneurial project management. Project finance includes the allocation, management and funding of financial resources. This partly involves short-term dealing with day-to-day working capital decisions; another part is longer-term, involving major capital investment decisions and raising long-term finance. Private Finance Initiative (PFI) and Public Private Partnership (PPP) procurement systems will also be explored during the course of this subject.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Explain the financial concepts, especially opportunity cost and time value of money. • Evaluate the ways in which business plans are developed and the role of projected financial statements in the planning process. • Adapt financial management methods professionally and ethically for short-term and long-term business finance implications

EVECTIVE COURSES

BQB7011 / BQB7011D HEALTH AND SAFETY MANAGEMENT	
3 Credits	<p>Students will be exposed to the latest safety management and comprehensive. Statutory requirements, regulations and laws related to security such as the Occupational Safety and Health Act 1994 (OSHA) and the Factories and Machinery Act 1967 (MFA) will be studied in depth. Coverage of topics related to the establishment and implementation of safety and health programs such as pre-bid consideration, planning and scheduling, personal training, orientation and health and safety audit.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Develop perspectives on comprehensive occupational safety and health management. • Coordinate the role of safety and health at all levels within the organisation including investigation and safety planning activities. • Assess different perspectives of safety and health performance using the programme and procedures for effective implementation in the project.
BQB7012 / BQB7012D LEGAL STUDIES FOR PROJECT MANAGEMENT	
3 Credits	<p>This course focuses on the legal issues that will emerge throughout the project management life cycle. It includes issues on rights and liabilities, agency and representation, formation and negotiation of contracts, as well as implications on project management and contract procurement strategy. This module will also touch on ethical and professionalism issues in project management, and provide exposure on the dispute avoidance and settlement methods.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Interpret the legal issues related to rights and liabilities, agency and representation, formation and negotiation of contracts throughout the project management life cycle. • Specify the legal implications on the issues related to ethics, project management and contract procurement strategy throughout the project management life cycle. • Solve the conflict through dispute avoidance and settlement methods throughout

	the project management life cycle.
BQB7013 / BQB7013D ASSETS AND FACILITIES MANAGEMENT	
3 Credits	<p>This module explores the strategy and operation of facilities management. Facility management strategy includes the introduction of discipline to the management of facility management. Facilities management operation look to external constraints in corporate priorities including issues that affect the theory of why the organization determine its position and overall look of the four main areas of facility management in the management plan; security, cleaning; energy, and repair & maintenance; which use higher cost of facilities.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Understand the strategies and operational facility management. • Translating the main capital through proper maintenance and achieve the value of the cost of daily operations • Apply appropriate management theory to meet the core objectives of a business
BQB7014 / BQB7014D INFORMATION TECHNOLOGY MANAGEMENT FOR PROJECTS	
3 Credits	<p>The course aims to introduce different techniques for managing projects and increased project management skills. These include exposure to a variety of concepts and project management application using information technology. Course contents include information technology tools and techniques used in the design and implementation of projects that involve budgeting, human resources, and physical resources. It also touches on the scope of the project, time management, cost management, project integration management, risk management, human resources and quality.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Integrate knowledge in a business context and technical developments of the management aspects of information technology in contemporary projects • Use conceptual and analytical skills to the management of information technology projects • Formulate comprehensive business and information technology strategy using skills acquired in managing complex projects.

Programme Coordinator



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MASTER OF FACILITIES AND MAINTENANCE MANAGEMENT

(Coursework)

Conventional and Online & Distance Learning (ODL)

[BQC] MASTER OF FACILITIES AND MAINTENANCE MANAGEMENT (COURSEWORK)

PROGRAM OVERVIEW

The programme aims to produce professional Facilities Management and Maintenance (MFMM) graduates who are critical and innovative towards sustainable development globally

DELIVERY AND ATTENDANCE

- The minimum duration of this programme is two (2) normal semesters and one (1) special semester or one (1) year. The maximum period is eight (8) semesters or four (4) years.
- Classes will be conducted through physically after-office and / or weekend session for Conventional Mode candidates at the Universiti Malaya's Faculty of Built Environment.
- The Online classes will only be conducted for the Online & Distance Learning (ODL) candidates.
- The medium of instruction are taught fully in English.
- The programme is delivered through formal lectures, laboratory, tutorials and coursework.

CONFERMENT OF DEGREE

Upon successful completion of the programme, students will be conferred the **Master of Facilities & Maintenance Management** degree from the Universiti Malaya (UM).

PROGRAMME FEES

Candidate	Fees (RM) (Conventional)	Fees (RM) (Online & Distance Learning)
Local (Malaysian)	RM 14,500	RM 22,395
International	RM 31,300	RM 33,773

Source: <https://study.um.edu.my>

PROGRAMME STRUCTURE AND ASSESSMENT

This program consists of eleven (11) courses. Each course is delivered over a 17-week period (normal semester) or 9-week period (special semester). The courses are assessed by examination and/or continuous assessment.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Synthesize knowledge, skills and good management practice in the field of facilities management and building maintenance
PLO2	Integrate knowledge and ability in solving building facilities problems with critical, creative and innovative approach
PLO3	Communicate and work collaboratively in a learning environment ethically and professionally.

PLO4	Adapt application and systems to address defined and new situations in consultation works.
PLO5	Demonstrate significant autonomy, independence, leadership and interpersonal skills in collaborative learning.
PLO6	Apply latest development of techniques, resources and tools in facilities and maintenance management research.
PLO7	Demonstrate adherence to legal, ethical and professional code of practice in facilities and maintenance management.
PLO8	Demonstrate awareness for entrepreneurial skills and sustainable development projects.
PLO9	Exemplify self advancement through continuous academic and professional development in facilities and maintenance management.

COURSE STRUCTURE
MASTER OF FACILITIES & MAINTENANCE MANAGEMENT (CONVENTIONAL)

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQC 7001	Research Methodology <i>(prerequisite subject)</i>	3	BQC 7015	Research Project <i>(prerequisite subject)</i>	12	BQC 7014	Digital Facilities Management	5	43
	BQC 7003	Organisational Behaviour and Resource Management	3	BQC 7013	Workplace, Productivity & Wellbeing	4				
	BQC 7004	Operation & Maintenance	4	BQC 7008	Financial & Business Management	4				
	BQC 7005	Total Asset & Facilities Management	4							
	BQC 7006	Procurement & Contract Management	4							
ELECTIVE SUBJECTS (CHOOSE 1)	BQC 7010	Sustainable & Environmental Management	3							3
	BQC 7011	Corporate Real Estate	3							
	BQC 7012	Principles of Project Management	3							
TOTAL CREDIT										46

**COURSE STRUCTURE
MASTER OF FACILITIES & MAINTENANCE MANAGEMENT
(ONLINE & DISTANCE LEARNING - ODL)**

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQC 7001D	Research Methodology <i>(prerequisite subject)</i>	3	BQC 7002D	Research Project <i>(prerequisite subject)</i>	12	BQC 7014D	Digital Facilities Management	5	43
	BQC 7003D	Organisational Behaviour and Resource Management	3	BQC 7013D	Workplace, Productivity & Wellbeing	4				
	BQC 7004D	Operation & Maintenance	4	BQC 7008D	Financial & Business Management	4				
	BQC 7005D	Total Asset & Facilities Management	4							
	BQC 7006D	Procurement & Contract Management	4							
ELECTIVE SUBJECTS (CHOOSE 1)	BQC 7010D	Sustainable & Environmental Management	3						3	
	BQC 7011D	Corporate Real Estate	3							
	BQC 7012D	Principles of Project Management	3							
TOTAL CREDIT										46

PREREQUISITE COURSE

Candidates need to register and complete the **BQC7001 / BQC7001D – Research Methodology** before proceed with **BQB7015 / BQC7002D - Research Project** in the following semester.

ASSESSMENT FOR PROGRAMME OF STUDY BY COURSEWORK (GRADING SCHEME)

The assessment of examinations for the programme of study by coursework is based on the following grading scheme:

Marks	Grade	Grade Point	Meaning
90.00 – 100.00	A+	4.0	High Distinction
80.00 – 89.99	A	4.0	Distinction
75.00 – 79.99	A-	3.7	
70.00 – 74.99	B+	3.3	Pass
65.00 – 69.99	B	3.0	

60.00 – 64.99	B-	2.7	Fail
55.00 – 59.99	C+	2.3	
50.00 – 54.99	C	2.0	
45.00 – 49.99	C-	1.7	
40.00 – 44.99	D+	1.5	
35.00 – 39.99	D	1.0	
0.00 – 34.99	F	0.00	

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Master's Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- Candidate does **not achieve at least a minimum passing grade** for the core course including compulsory courses by the Faculty **after three (3) attempts**.
- Obtains a **GPA of less than 3.00 for three (3) consecutive semesters** including Special Semester (if any).
- A candidate who is **re-admitted after being terminated** from his programme of study and obtains a CGPA of **less than 3.00 for the examinations** in the semester in which he has registered immediately upon re-admission will be terminated from his study.
- Fails to **fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration**.
- **Failure to renew his candidature for two (2) consecutive semesters**.
- The candidate was found to **plagiarise his dissertation or research report** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.
- The candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

SYLLABUS SUMMARY

BQC7001 / BQC7001D	
RESEARCH METHODOLOGY	
3 Credits	<p>This course introduces the students to the field of research. It examines in depth the research process and introduces the student to the various aspect of doing social and scientific research related to facilities and maintenance management. The topics covered include research process, research design, data collection and analysis process, and reporting of research results.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Illustrate processes and methods in designing research in the field of facilities and maintenance management. • Adapt research methods and systematic approaches in research planning. • Display self advancement in making research plans.
BQC7015 / BQC7002D	
RESEARCH PROJECT	

12 Credits	<p>Research projects will involve the generation of new scientific information and a review and understanding of the pertinent scientific literature. The research may be conducted in a university laboratory, organisation, etc., depending upon the project and the supervisor. The time commitment includes developing a justified research plan, implementing that plan, gathering the research data, reading or searching literature, and writing up the results of the project.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Design research objectives based on problems in the field of Facilities and Maintenance Management. • Perform empirical data collection based on identified research methodology. • Analyze the data and findings of the study based on the objectives of the study. • Present the result of the study to various groups effectively. <p><i>*** Pre-requisite: BQC7001 Research Methodology</i></p>
BQC7003 / BQC7003D ORGANIZATIONAL BEHAVIOUR AND RESOURCE MANAGEMENT	
3 Credits	<p>This course is about theories of organisational behaviour and resource management. Topics include management theories and concept, effective communication, leadership, decision making process, human resource management, ethics and performance evaluation.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Identify teamwork skills in management organization which include relationship of individual, industries and workplace environment • Interpret knowledge of theories in organizational concept and effective resource management • Explain issues and problems in organization and human behaviour through critical and practical approach
BQC7004 / BQC7004D OPERATION & MAINTENANCE	
4 Credits	<p>This course aims to devise and develop a strategic approach to the understanding of the role of asset and facilities maintenance in meeting corporate objectives; and reviews the principles of the guideline and legislation affecting asset maintenance. The course will also examine the building services and fabric, their life cycle and the maintenance, refurbishment, maintenance strategy and effectiveness; management organization; planning and co-ordination techniques; and managing cost effectiveness.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Propose procedures for operation and maintenance of asset and facilities • Identify guideline and legislation in the current practices of asset and facilities maintenance • Adapt techniques and technologies in asset and facilities maintenance
BQC7005 / BQC7005D TOTAL ASSET AND FACILITIES MANAGEMENT	
4 Credits	<p>This module examines the financial and business management elements within facilities management context. Focus is given to the fundamental principles of financial management and the concept of best value in facilities management. Among the core components of this course appraise on the strategic analysis of business requirements, financial control, fundamental financial analysis tools and facilities management financial models. This module also covers the theories in forecasting and managing future financial requirements.</p> <p>At the end of the course, students are able to:</p>

	<ul style="list-style-type: none"> • Appraise the total asset & facilities management theory. • Adapt strategic and operational total facilities management approaches to fulfil the core organizational objectives. • Propose appropriate quality management approach in achieving value added in operational maintenance and facilities management.
BQC7006 / BQC7006D PROCUREMENT & CONTRACT MANAGEMENT	
4 Credits	<p>This course introduces how business support are developed and outsourced competitively via strategic or conventional framework. Students will also learn how procurement (pre and post) of asset and facilities management are managed as part of the operational delivery of a built asset. In post procurement phase, it involves the creation, analysis, and execution of contract (i.e., SLA) by the parties to those contracts to ensure value for money and, added value is built-in, and risks are mitigated. SLAs are output-based in that their purpose is specifically to define what the customer will receive and experience. This course enables student to draft an SLA and logistics decisions-making to develop and implement reliable service, and predictable manner for measuring performance and innovative solutions.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Explain the type, process, procedure, procurement and liability of contract. • Integrate the key component parts in a Service Level Agreement • Propose performance measurement system for facilities management service contract • Develop service level agreement for facilities management service delivery
BQC7008 / BQC7008D FINANCIAL AND BUSINESS MANAGEMENT	
4 Credits	<p>This module examines the financial and business management elements within facilities management context. Focus is given to the fundamental principles of financial management and the concept of best value in facilities management. Among the core components of this course appraise on the strategic analysis of business requirements, financial control, fundamental financial analysis tools and facilities management financial models. This module also covers on the theories in forecasting and managing future financial requirements.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Identify the theories and application of business and financial management in facilities management • Appraise the suitable financial management techniques towards effective facilities and business performance • Integrate the function of financial analysis in organizational decision making
BQC7013 / BQC7013D WORKPLACE, PRODUCTIVITY AND WELLBEING	
4 Credits	<p>Introduction to physical and environmental quality in the workplace, and ways of producing desirable environments in organization, energy aspects, resources and healthy work culture. This module aims to enable students to understand the role and utilisation of the physical asset within facilities management that could affect its occupant's productivity and wellbeing as well as the energy usage.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Identify the importance of ergonomics, design principles and practices in the workplace. • Adapt methods of workplace assessment and energy audit in buildings. • Solve workplace performance and users wellbeing through sustainable or green building solutions.

BQC7014 / BQC7014D DIGITAL FACILITIES MANAGEMENT	
5 Credits	<p>Candidate will learn and demonstrate the application and integration of Digitalization tool in FM. The initiation of digital FM will transform and provide new ways to the building industry. This course aims to enable students to acquire skills and knowledge on digital FM focusing on Building Information Modelling Facilities Management (BIMFM). The core relating to these two imperative areas of BIM and FM, starting from theory introduction, to hands on implementation of the theory and innovate tools.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Acquire theoretical knowledge and good practice in digital construction and facilities management • Integrate precise data and information requirements through BIM applications in facilities management. • Develop digital analytical techniques in solving building facilities issues and challenges critically, creatively and innovatively

EVECTIVE COURSES

BQC7010 / BQC7010D SUSTAINABLE AND ENVIRONMENTAL MANAGEMENT	
3 Credits	<p>Understanding of sustainability and climate change is vital topic in development. This course provides fundamental knowledge of sustainable development principles and effects of climate change. It Integrates sustainable development issues including, but not limited to, sustainable economics & policy, green building movement and life-cycle assessments. It translates the abstract concepts of sustainability into Environmental Management System (EMS) practice of development and facilities management.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Identify sustainable development principles and practices in facilities management • Evaluate sustainable development principles in facilities management to mitigate environmental risks. • Display professional skills in achieving sustainable environmental management system.
BQC7011 / BQC7011D CORPORATE REAL ESTATE	
3 Credits	<p>This course provides an understanding on the management and strategic planning of corporate real estate assets. This course introduces the tools and techniques to develop corporate real estate (CRE) strategies. The course also covers procurement analysis, corporate relocation, space strategy and corporate real estate asset performance measurement.</p> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Illustrate the roles of corporate real estate asset in an organisation. • Propose suitable strategies in corporate real estate. • Evaluate corporate real estate holdings performance and tenure decision.
BQC7012 / BQC7012D PRINCIPLES OF PROJECT MANAGEMENT	
3 Credits	<p>The course contains the fundamentals of the project, the project management process, project planning and project execution and closure. These include the establishment of the project organization, the establishment of effective leadership, team preparation, settlement issues, effective implementation (performance measurement, monitoring and control, coordination, record, report status, communication, conflict management), and the closure of the project (measurement of project success, closure contracts, data</p>

transfer, learning, and administrative closure)

At the end of the course, students are able to:

- Appraise the concept and principles of project management.
- Analyse effective project management methodology towards successful and effective projects.
- Coordinate effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure).

Programme Coordinator



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**MASTER OF
ARCHITECTURE**
(Coursework)

[BQD] MASTER OF ARCHITECTURE (BY COURSEWORK)

PROGRAM OVERVIEW

The programme is serviced by highly qualified and experienced academic staff including one (1) Professor, four (4) Associate Professors, three (3) Associate Professor (Industry) and ten (10) lectures. Students are frequently assessed by professionally qualified architects who are at the forefront of the building industry through regular 'crit' sessions and reviews. This Master by coursework programme is run in a self-contained facility with well-equipped studios, wood and model workshop, building laboratory, computing and printing facilities. More than 150 graduates have successfully graduated from the predecessor for this programme (the Bachelor of Architecture; LAM/ RIBA Part II accredited/validated) and continued to fulfil their aspirations

ADDITIONAL REQUIREMENTS

Beside the general entry requirement that is stated by the University, below are the additional requirements for candidates specific requirements for the Master of Architecture programme:

- A. UM graduates with Bachelor of Science in Architecture** degree can be considered if they meet all of the following criteria:

Candidates with CGPA of 3.00 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation.
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of six (6) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test).

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

Candidates with CGPA of 2.70 – 2.99

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

Candidates with CGPA of 2.70 – 2.99

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

- B. Non UM graduates and International students with Bachelor of Science in Architecture degree can be considered if they meet all of the following criteria:**

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation.
- Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of twelve (12) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test).

Candidates with CGPA of 3.0 and above

- Obtained the Board of Architects Malaysia (LAM) Part 1 accreditation
- Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
- Pass competency interview (Interview, portfolio and technical drawing test)

- C. Non UM graduate and International students with CGPA of 2.99 and below are not eligible to apply for the Master of Architecture program**

DELIVERY AND ATTENDANCE

- The minimum duration of the programme is four (4) normal semesters and one (1) special semester or two (2) years and the maximum period is eight (8) semesters or four (4) years.
- The programme is offered by attendance physically at Universiti Malaya's Faculty of the Built Environment, Kuala Lumpur.
- The programme is delivered through formal lectures, studios, field trip, tutorials and coursework.

CONFERMENT OF DEGREE

Upon successful completion of the programme, students will be conferred the **Master of Architecture** degree from the Universiti Malaya (UM).

PROGRAMME FEES

Candidate	Fees (RM)
Local (Malaysian)	RM 16,800
International	RM 42,100

Source: <https://study.um.edu.my>

PROGRAM STRUCTURE AND ASSESSMENT

This program consists of fourteen (14) core courses and three (3) elective courses. Each course is delivered over a 17-week period (normal semester) or 9-week period (special semester). The courses are assessed by examination and/or continuous assessment. In the Master of Architecture programme, all design-related courses will have 100% continuous assessment. In courses where final examination is carried out, coursework assignment constitutes 40% while end of semester examination constitutes 60% of the overall marks.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Command adequate knowledge in the field of design, research, sustainable building technology and environment, culture, theory & philosophy, urban studies, professional practice rules, regulation and management
PLO2	Command adequate practical skills and use of computer software in researching, designing, presenting and managing the architectural projects to meet the requirements of clients and stakeholders in the construction industry.
PLO3	Demonstrate social skills and responsibility towards the society and environment in designing, researching, managing and implementing architectural projects.
PLO4	Practicing ethical values, professionalism and integrity in the process of designing, researching, managing and implementing professional practices in the field of architecture.
PLO5	Communicate effectively in groups in managing architectural projects and demonstrate leadership skills and teamwork abilities in performing tasks related to the field of architecture
PLO6	Apply scientific research skills in decision making and solving design and technical related issues for works related to the field of architecture.
PLO7	Command adequate ICT information management skills and practice the concept of lifelong learning by relating to resources for deeper applications in completing works related to the field of architecture
PLO8	Command adequate management and entrepreneurial skills in the implementation of architectural projects optimally and professionally

Course Structure

YEAR 1

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQD 7001	Advanced Architectural Design I	7	BQD 7005	Advanced Architectural Design II	7	BQD 7008	Pre-Thesis Research	3	35
	BQD 7002	Green and Sustainable Technology I	3	BQD 7006	Architectural Comparative Studies	3	BQD 7009	Research Methodology	3	
	BQD 7003	Professional Practice	3	BQD 7007	Architect and Construction Management	3				
	BQD 7004	Architectural Theory and Philosophy	3							
TOTAL CREDIT										35

YEAR 2

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQD 7010	Architectural Design Thesis Lab I	8	BQD 7015	Architectural Design Thesis Lab II	8				27
	BQD 7018	Architectural Research I	5	BQD 7016	Green and Sustainable Technology II	3				
				BQD 7019	Architectural Research II	3				
ELECTIVE SUBJECTS (CHOOSE 1)	BQD 7012	Advanced Building Conservation	3							3
	BQD 7013	Advanced Urban Studies	3							
	BQD 7014	Advanced Sustainability	3							
TOTAL CREDIT										30

Assessment for Programme of Study by Coursework (Grading Scheme)

The assessment of examinations for the programme of study by coursework is based on the following grading scheme:

Marks	Grade	Grade Point	Meaning
90.00 – 100.00	A+	4.0	High Distinction
80.00 – 89.99	A	4.0	Distinction
75.00 – 79.99	A-	3.7	
70.00 – 74.99	B+	3.3	Pass
65.00 – 69.99	B	3.0	
60.00 – 64.99	B-	2.7	
55.00 – 59.99	C+	2.3	Fail
50.00 – 54.99	C	2.0	
45.00 – 49.99	C-	1.7	
40.00 – 44.99	D+	1.5	
35.00 – 39.99	D	1.0	
0.00 – 34.99	F	0.00	

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the Universiti Malaya (Master's Degree) Regulations 2019 stated that a candidate is termed as failed and terminated from the programme of study if:

- Candidate does **not achieve at least a minimum passing grade** for the core course including compulsory courses by the Faculty **after three (3) attempts**.

- Obtains a **GPA of less than 3.00 for three (3) consecutive semesters** including Special Semester (if any).
- A candidate who is **re-admitted after being terminated** from his programme of study and obtains a CGPA of **less than 3.00 for the examinations** in the semester in which he has registered immediately upon re-admission will be terminated from his study.
- Fails to **fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration.**
- **Failure to renew his candidature for two (2) consecutive semesters.**
- The candidate was found to **plagiarise his dissertation or research report** as stipulated under the Universiti Malaya (Discipline of Students) Rules 1999.
- The candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 1999.

SYLLABUS SUMMARY

BQD7001 ADVANCED ARCHITECTURAL DESIGN I	
7 Credits	<p>Through this course, students will:</p> <ul style="list-style-type: none"> • design a small-scale masterplan & its urban appraisal report. • design a complex institutional building typology from the small-scale master plan, which addresses the architectural project issues, urban studies and sustainable design strategies. <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Appraise the urban development of selected location for planning a small-scale masterplan concept and design. • Integrate the findings of precedent studies on climatically responsive buildings, green building approach, building performance and design simulation for a complex institutional building typology. • Integrate passive and active architectural design strategies for a complex institutional building typology. • Design appropriate architectural solutions for a complex institutional building typology via drawings and models in addressing the architectural project issues, urban studies and sustainable design strategies.
BQD7002 GREEN AND SUSTAINABLE TECHNOLOGY I	
3 credits	<p>The course will enhance students' ability in applying various green building technologies available and the ability to solve specific design problems by appropriate technical means, covering:</p> <ul style="list-style-type: none"> • Building physics • Design & fire protection • Environmental performance • Design integration of building services • Other related topics • The course will also involve precedents studies. <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Determine the advantages and disadvantages of conventional and 'green' building services. • Illustrate elements of green building services and building environmental control

	<p>strategies to enhance the ability to design according to the concept of sustainability.</p> <ul style="list-style-type: none"> Analyse the applicability of green building services and building environmental control
BQD7003 PROFESSIONAL PRACTICE	
3 credits	<p>To provide an overview of the architect's practice as a professional business entity under the Architect Act (1967) and Rules (1996) and Scale of Minimum Fees (2010). Among the scope of discussion are:</p> <ul style="list-style-type: none"> Types of practice Code of Conduct and Conditions of Engagement Marketing strategies Financial management, fees, remuneration and expenses Managing work distribution and human resources <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> Explain different types of architectural practices as professional business entities. Adapt principles of marketing strategies for architectural practices. Explain the fees, remuneration and expenses of an architectural practice. Explain the work distribution model in an architectural practice according to agreement of appointment and phases of work.
BQD7004 ARCHITECTURAL THEORY AND PHILOSOPHY	
3 credits	<p>The course would cover the importance of architectural theories and philosophies as part of the design process with emphasis on knowledge and methods of design in creating meaningful design.</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> Analyze the influence of various architectural movements of different eras, from the inception of architectural ideas and concepts to their final expressions in built form. Explain the theories, philosophies and manifestos of various architects or architectural movements based on their differing characters and values. Synthesize the theories and philosophies of various architects or architectural movements based on their salient features
BQD7005 ADVANCED ARCHITECTURAL DESIGN II	
7 credits	<p>Ability to design a highrise building that takes into consideration green design strategies, social and cultural aspects.</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> Integrate feasibility study, building statutory and other development requirements to justify the viability of the highrise project. Appraise lessons learned from precedent studies research for highrise project in an urban context. Integrate views, opinions and green design strategies gathered from discussions with people of different cultural backgrounds or related disciplines professionally into the highrise project. Design appropriate architectural solutions for the highrise project via drawings and models in addressing the architectural project issues, site planning, urban studies, social-cultural issues, universal design and green design strategies.
BQD7006 ARCHITECTURAL COMPARATIVE STUDIES	

3 creditS	<p>This course introduces the students to:</p> <ul style="list-style-type: none"> • the culture, site and context in architecture • design impact of the building • comparative studies between local and abroad • building styles • significant cultural and social aspects • specific technical and/or environmental studies. • Students will have the opportunity to present research findings effectively and professionally. <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Study issues of culture, site and context in architecture of a site outside Malaysia and the influence of different civilisations on architecture. • Analyze the design of selected buildings and sites in terms of concept, space, structure, materials, sustainability and uniqueness. • Demonstrate the presentation of research findings effectively and professionally
BQD7007 ARCHITECT AND CONSTRUCTION MANAGEMENT	
3 credits	<p>Through this course, students will recognise the role and responsibility of a practicing architect during the construction management stage and the processes and procedures from award of tender to final account.</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Master the course of a construction project from the letter of appointment of contractor to the handover of site to the project owner. • Explain management knowledge and tools in managing construction and work progress in accordance with the building contract. • Explain in detail the roles and responsibilities of an architect and relevant consultants during the five-construction phase
BQD7008 PRE-THESIS RESEARCH	
3 credits	<p>Through this course, students will:</p> <ul style="list-style-type: none"> • Conduct an in depth study to form a viable and suitable architectural design thesis project with adequate complexity. • Identify, analyse and develop a proposal for the design thesis project. • Verbally present their proposals with appropriate visuals accompanied with a written document. • This written document will be the foundation for the design thesis project in the following semesters. <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Determine the conceptual framework based on research topic to assist the formulation of a design brief. • Prepare a comprehensive report for the proposed topic. • Appraise selection of design topic/project.
BQD7009 RESEARCH METHODOLOGY	
3 credits	<p>Students will be exposed to:</p> <ul style="list-style-type: none"> • library search • research methodology • scientific research elements • problem formulation process and hypotheses • research design • data collection

	<ul style="list-style-type: none"> • research findings • writing up <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Apply qualitative and/or quantitative research methods suitable to the research scope, data analysis and academic writing. • Determine theory and techniques of research development and implementation. • Justify research arguments based on findings from literature review.
BQD7010 ARCHITECTURAL DESIGN THESIS LAB I	
8 credits	<p>Students will develop works that were produced in BAGS6203 Pre Thesis Research to get a design concept that can be applied based on acquired hypotheses and problem statements. Through this course, students will refine and develop the design concept up to the design development stage</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Develop design thesis concept based on areas of research such as sustainable design, building typology, conservation/adaptive reuse, site/issue-driven arguments and community architecture. • Translate design concept into detailed architectural design scheme. • Analyse site through series of studies from macro to micro level. • Explain design thesis project through verbal and architectural graphics.
BQD7018 ARCHITECTURAL RESEARCH I	
5 credits	<p>This course guides the students on how to write a major piece of academic writing as a partial requirement for the conferment of the degree. Students will continue the title/ topic or issue that has been suggested in the Research Methodology (BQD7009) course and continue the research towards scholarly writing. Each student will be supervised by a lecturer who will advise and monitor the process of conducting research and progress in writing.</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Appraise literature review critically. • Report primary and related data. • Analyse data and syntheses findings. • Prepare an academic report.
BQD7015 ARCHITECTURAL DESIGN THESIS LAB II	
8 credits	<p>This course is a continuation of the development of conceptual design, ideas and scheme explored in BQD7010 Architectural Design Thesis Lab I. The emphasis is on the development of:</p> <ul style="list-style-type: none"> • architectural design proposal • design Special Study • design proposal report <p>Students will be able to:</p> <ul style="list-style-type: none"> • Translate design concept into a detailed architectural design proposal. • Develop a special study that focuses on the core ideas of the design thesis project. • Explain design thesis project through verbal and architectural graphics. • Explain design proposal in a written report.
BQD7016 GREEN AND SUSTAINABLE TECHNOLOGY II	
3 credits	<p>This course will expose the students to:</p> <ul style="list-style-type: none"> • analyses, discussions and applications of the sustainability concept

	<ul style="list-style-type: none"> • green building construction • green building materials in green building design • environmental impact assessments (EIA) • green building rating methods <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Master various methods of 'green' building construction and the characteristics of green building materials. • Propose green building solutions into the studio architectural design project. • Explain the sustainability, performance and cost-effectiveness of green buildings utilising available building assessment software.
BQD7019	
ARCHITECTURAL RESEARCH II	
3 credits	<p>This course totally depends totally on discussions between the student and supervisor. Discussions cover:</p> <ul style="list-style-type: none"> • various levels of refereed journals or other publication • communication with publisher • writing research papers • preparing a submission-ready manuscript • graphic presentation techniques <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Organize architectural research thesis outcome. • Appraise ready-made information. • Prepare an academic paper.

EVECTIVE COURSES

BQD7012	
ADVANCED BUILDING CONSERVATION	
3 credits	<p>The course focuses on the basic theories in the practice of conservation, an understanding of which is vital for responsible conservation of architectural heritage. It includes the principles and methods of building conservation as recommended by the UNESCO and ICOMOS, as well as Malaysian legislations that placed authenticity and integrity as the primary objectives. It also introduces the students to the rigorous conservation process from the need for significant research to preparation of measured drawing, survey of building condition and defects and preparation of conservation statements</p> <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Determine the principles of building conservation that emphasizes on the importance of cultural significance, authenticity and integrity of built forms. • Master various forms of conservation practice in architecture, international conventions and guidelines on conservation of cultural properties and relevant existing Malaysian legislations. • Explain best conservation practices related to the use of materials, techniques, approaches, philosophies, measured drawings, dilapidation surveys and conservation statements.
BQD7013	
ADVANCED URBAN STUDIES	
3 credits	<p>Through this course, students will acquire:</p> <ul style="list-style-type: none"> • Overview of the major concepts and ideas of urban design dimension, theory and practice, urban development policy and land use policy • Undertake critique of both contemporary and traditional urban design projects

	<p>and concepts.</p> <ul style="list-style-type: none"> • Situate urban design theories and practices within the fields of urban planning, architecture, landscape architecture and property. <p>At the end of the course students are able to:</p> <ul style="list-style-type: none"> • Determine major concept of urban design dimensions, theories, practices and policies. • Master basic implementation of urban design, policies and strategies in contemporary and traditional urban design projects and concepts. • Explain an existing urban development area using urban design theories and practices in urban planning, architecture, landscape architecture and property.
BQD7014 ADVANCED SUSTAINABILITY	
<p>3 credits</p>	<p>This course will expose students to:</p> <ul style="list-style-type: none"> • Building analysis simulation software; • Principles of living buildings; • Influence of climatic conditions on buildings; • Technical aspect of living buildings; • Consideration of various dimensions of building functionality in proposing living building solutions. <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Examine the energy usage intensity and daylighting of the building. • Formulate innovative techniques for buildings to adapt to the climate without human intervention. • Modify the design of a proposed building into a living building

Programme Coordinator



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MISCELLANEOUS INFORMATION

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- (1) All Postgraduate Candidates should adhere to the following where and when necessary:-
 - (a) University of Malaya (Degree of Doctor of Philosophy) Rules and Regulations 2019
 - (b) University of Malaya (Master Degree) Rules and Regulations 2019
 - (c) University of Malaya (Discipline of Students) Rules 1999
 - (d) Any other rules & regulations of the University
- (2) You may refer to the following for more information on our program(s) and / or miscellaneous matters pertaining to your candidacy:-
 - (a) <http://fbe.um.edu.my>
 - (b) <https://um.edu.my>
 - (c) <https://myum.um.edu.my>
 - (d) <https://epay.um.edu.my>
 - (e) <https://umsitsguide.um.edu.my/>
 - (f) <https://maya.um.edu.my>

- (3) Important Contacts and reference person:-

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STUDENT AFFAIRS DIVISION

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e-mail: kkpum@um.edu.my

UNIVERSITI MALAYA LIBRARY

Universiti Malaya

Tel: 03- 7956 7800

e-mail: query_perpustakaan@um.edu.my

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Universiti Malaya

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Fax : 03-7967 4160

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UNIVERSITI MALAYA MEDICAL CENTRE (UMMC)

Universiti Malaya

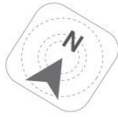
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CAMPUS MAP



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