

# POSTGRADUATE HANDBOOK

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**SESSION 2020/2021**

**"BUILD YOUR FUTURE"**



**FACULTY OF BUILT ENVIRONMENT**  
UNIVERSITY OF MALAYA

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



## DEAN'S MESSAGE

*.....Times Higher Education Asia University Rankings 2019 shows UM has also improved from 46 to 38<sup>th</sup> place.*

*The latest QS World University Rankings showed that University of Malaya has improved its world ranking from 70 in 2020 to 59 in 2021. With this improvement, UM is now within the top 1% percent of World's Universities.*



Assalamu'alaikum Warahmatullahi Wabarakatuh and Selamat Sejahtera.

Congratulations and welcome new students of the Faculty of Built Environment (FBE), a truly extraordinary group of students who are enrolled in the era of Covid19 pandemic. On behalf of the entire FBE community, I am thrilled that you will be coming to FBE and joining us to explore a new experience of your life.

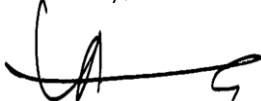
I know you are preparing for the start of your university experience under a particularly challenging set of conditions. Throughout the past few months, you have shown great resilience in creating new traditions and finding alternate ways to celebrate cherished milestones with the new normal. Even as the Covid19 continues to transform our world, the FBE community spirit remains as strong and as vital as ever. The entire university community has responded to these recent challenges with ingenuity, compassion and a shared commitment to our mission. We are eager for you to join us and engage in FBE's transformative education, and we know that you are eager for information about what your FBE experience will look like under these unique circumstances. While your first semester at FBE will look different from our previous semesters, please know that we are committed to designing and delivering an outstanding experience for you this time.

The FBE offers a comprehensive range of degree programs that are distinctive within Malaysia and South East Asia Region. All programs are accredited by the Malaysian Qualifying Agency (MQA), local and international professional bodies. The programs bring theory to practice through rigorous curricula led by experts in their fields, providing opportunities for students to excel academically and professionally. Hence, the broad range of programs provide unique research, teaching and learning opportunities tailored to undergraduate in an environment which enables intellectual risk, choice and critical rigour to flourish.

The FBE welcomes you again into this vibrant environment where you will be part of a diverse student body in which students are holistically developed as confident, innovative, knowledgeable and future ready professionals. Finally, I want to reiterate that the safety of you is of the utmost importance. While keeping that foremost in our thoughts, we can continue to work together, remain determined, and move towards a better tomorrow.

Good luck and enjoy your studies! We cannot wait to meet you!

Sincerely,



**PROFESSOR DR SR ANUAR ALIAS**

Dean

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## ABOUT THE UNIVERSITY OF MALAYA



The **University of Malaya (UM)**; Malay: *Universiti Malaya*) 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 two 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 University of Malaya. Legislation was passed in 1961 and the University of 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 2021 QS World University Rankings, UM ranked at 59<sup>th</sup> in the world, 9<sup>th</sup> in Asia, 3<sup>rd</sup> 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.

## **VISION, MISSION AND OBJECTIVES**

### **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 DR. Sr ANUAR ALIAS**  
Dean



**ASSOC. PROF. DR. Sr YASMIN MOHD ADNAN**  
Deputy Dean  
(Undergraduate)



**PROF. DR. Sr Ts AZLAN SHAH ALI**  
Deputy Dean  
(Postgraduate)



**DR. ASRUL MAHJUDDIN RESSANG AMINUDDIN**  
Deputy Dean  
(Research & Development)



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Head  
Dept. of Architecture



**DR. Sr RAHA SULAIMAN**  
Head  
Dept. of Building Surveying



**DR. Sr HASNIYATI HAMZAH**  
Head  
Dept. of Real Estate



**Sr DR. OTHMAN MOHAMED**  
Head  
Dept. of Quantity Surveying



**DR. NIKMATUL ADHA NORDIN**  
Head  
Urban & Regional Planning



**MOHD NORAZLIN MANSOR**  
Assistant Registrar



**NOR AZLINA ABDULLAH**  
Senior Assistant Registrar



## ACADEMIC CALENDAR 2020/2021 SESSION

### SEMESTER I

Registration	1 week	05.10.2020 – 09.10.2020
Lectures	5 weeks*	12.10.2020 – 15.11.2020
Mid Semester Break I	1 week	16.11.2020 – 22.11.2020
Lectures	9 weeks*	23.11.2020 – 24.01.2021
Examination Semester I	3 weeks*	25.01.2021 – 14.02.2021
Semester Break	3 weeks*	15.02.2021 – 07.03.2021

21 weeks

### SEMESTER II

Registration	1 week	01.03.2021 – 05.03.2021
Lectures	7 weeks	08.03.2021 – 16.05.2021
Mid Semester Break II	1 week	17.05.2021 – 23.05.2021
Lectures	7 weeks*	24.05.2021 – 20.06.2021
Revision Week	1 week*	21.06.2021 – 27.06.2021
Examination Semester II	3 weeks	28.06.2021 – 18.07.2021

19 weeks

### SEMESTER BREAK

Semester Break	11 weeks	17.07.2021 – 03.10.2021
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### SPECIAL SEMESTER

Lectures	7 weeks*	26.07.2021 – 12.09.2021
Examination Special Semester	1 week	13.09.2021 – 19.09.2021
Special Semester Break	3 weeks	20.09.2021 – 03.10.2021

11 weeks

### Malaysia Public Holiday

#### 2020

Malaysian National Day (31 August 2020)  
 Malaysia Day (16 September 2020)  
 Maulidur Rasul (29 October 2020)  
 Deepavali (14 November 2020)  
 Christmas (25 December 2020)

#### 2021

New Year Holiday (1 January 2021)  
 Taipusam (28 January 2021)  
 Federal Territory Day (1 February 2021)  
 Chinese New Year (12 & 13 February 2021)  
 Nuzul Al-Quran (29 April 2021)  
 Labour Day (1 May 2021)  
 Eid-Fitri (13 & 14 May 2021)  
 Wesak Day (26 May 2021)  
 Hari Keputraan DYMM Agong (5 June 2021)  
 Eid-Adha (20 July 2021)  
 Awal Muharram (10 August 2021)  
 Malaysian's National Day (31 August 2021)

## 2020 Calendar

<b>January 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>February 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	<b>March 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>April 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
<b>May 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>June 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>July 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>August 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
<b>September 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>October 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>November 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>December 2020</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

## 2021 Calendar

<b>January 2021</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>February 2021</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	<b>March 2021</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>April 2021</b> <b>S M T W T F S</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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# **GENERAL INFORMATION**

## GENERAL INFORMATION

### PROGRAMMES

Code	Programmes	Mode	Intake	
			Semester II (February)	Semester I (September)
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	√	√
BVH	Master of Architecture	Coursework	-	√

### ENTRY REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY (BY RESEARCH)

#### Non-University of Malaya 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.

#### University of Malaya 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.

## ENTRY REQUIREMENTS FOR MASTER'S PROGRAMMES

### Non-University of Malaya 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.

### University of Malaya 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 to the programme requirements:

#### **Master of Architecture**

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

1. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation.
  - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of six (6) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test).
2. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation
  - b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test)
3. Candidates with CGPA of 2.70 – 2.99
  - a. Obtained LAM Part 1 accreditation
  - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test)
4. Candidates with CGPA of 2.70 – 2.99
  - a. Obtained LAM Part 1 accreditation
  - b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & 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:

1. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation.
  - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of twelve (12) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test).
2. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation
  - b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test)

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**

- a. Bachelor's Degree in Built Environment, Engineering, Management, IT, Sciences, Social Sciences, Economy, Finance or equivalent qualification in a relevant discipline with CGPA of 3.00 and above; OR
- b. Professional qualification from a recognized professional body; OR
- c. Other qualifications as written by the Senate from time to time; AND
- d. Have at least one (1) year of working experience in related field; OR
- e. Bachelor's Degree with CGPA of less than 3.00 (2.70 to 2.99) with a minimum of three (3) years of working experience in related field; OR
- f. Bachelor's Degree with CGPA of less than 2.70 (2.50 to 2.69) with a minimum of three (3) years of working experience in related field; AND University of Malaya graduate; OR Produce at least one (1) publication in related fields; OR Scholarship recipient; OR
- g. Bachelor's Degree with CGPA of less than 2.50 (2.10 to 2.49) with a minimum of five (5) years of working experience in related field; AND University of Malaya graduate; AND 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, a score of 213 for computer-based total or a score of 80 for internet-based total for Test of English as a Foreign Language (TOEFL); or
- Band 4 and above in the Malaysian University English Test (MUET); or
- A score of 42 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.

## RESEARCH AREAS OR EXPERTISE

Below are listing of research field under the Faculty of Built Environment, UM for candidates who are taking the **[BVA] Doctor of Philosophy (by Research)** and **[BMA] Master of Built Environment (by Research)** based on the National Education Code (NEC)

<b>Architecture &amp; Building</b> (NEC code: 58)	<b>Arts</b> (NEC code: 21)
Architecture & Town Planning (581) Building (582)	Arts (210) Fine Arts (211) Music and Performing Arts (212) Audio-Visual Techniques and Media Production (213) Design (214) Craft Skills (215)
<b>Business &amp; Administration</b> (NEC code: 34)	<b>Engineering &amp; Engineering Trades</b> (NEC code: 52)
Business and Administration (340) Wholesale and Retail Sales (241) Marketing and Advertising (342) Finance, Banking and Taxation (343) Management and Administration (345) Secretarial and Office Work (346) Working Life (347)	Engineering and Engineering Trades (520) Mechanics and Metal Work (521) Electricity and Energy (522) Electronics and Automation (523) Chemical and Process (524) Motor Vehicles, Ships and Aircraft (525) Civil Engineering (526) Material Engineering (527)
<b>Environment Protection</b> (NEC code: 85)	<b>Security Service</b> (NEC code: 86)
Environmental Protection (850) Environmental Protection Technology (851) Natural Environments and Wildlife (852) Community Sanitation Services (853)	Security Services (860) Protection of Persons and Property (861) Occupational Health and Safety (862) Military and Defence (863)

Source : <http://maya.um.edu.my>

## LEGISLATIONS AND PRESCRIBED RULES

A Doctoral candidate is governed by the University of Malaya (Doctoral Degrees) Rules and Regulations, 2019 and for Master's candidate is governed by the University of Malaya (Master's Degrees) Rules and Regulations, 2019

## SUPPORT SERVICES

### LIBRARY

The University of Malaya Library established since 1962 in Kuala Lumpur is a network of 17 Libraries, fully computerized and integrated in its operation and services. The Built Environment Library is one of the special subject libraries in the University of 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 two full-time staff members and one senior librarian which covers a floor space of about 835 sq. meters with seating capacity for 133 students.

The Library's core function is to support the learning, teaching and research needs of undergraduate, postgraduate students, and the academic staff and researchers of the Faculty of Built Environment. However, it is also opened to other registered users of the University of Malaya Library network, subject to some limitation in borrowings.

The collection gives priority on the learning and teaching programme of the Built Environment Faculty especially in the areas of architecture, real estate, quantity surveying, building surveying and urban planning. The library materials include both primary and secondary sources, such as books, journals, reference books, dissertation and theses, conference proceedings and electronic resources. The library online catalogue, known as Pendeta WebPAC is a union catalogue of the University of Malaya Library network which provides 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 @EBSCOHST, 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 Literacy (GIG1004)	Besides that, the library conducts a formal compulsory course for first year undergraduate called Information Literacy (GIG1004) to equip them with the skills on information retrieval 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 Puan Hanani Fauzi at 03-79676802 or email at [hananif@um.edu.my](mailto:hananif@um.edu.my)



## Operating Hours

Monday - Friday	8.30 am – 5.30 pm
Closed on Saturday, Sunday and Public Holidays.	

## STUDENT FACILITIES

FACILITIES	DISCRIPTION
Self-Photocopying Machines	Photocopying services operated by commercial contractors are provided in the Library and cards can be purchased at the Service Counter.
Computers (PC)	Computers with Internet connections are provided for use in the Library for searching information from Library resources and other online databases subscribed by the Library.
Student Centre	Located at Level 3, Mercu Alam Bina was designed to give students space for study and relaxation between classes.
Surau/Musolla (Praying Room)	Located at the second floor of Mercu Alam Bina for both male and female
WIFI	Access is available within the building with a number of access points.
Vending Machines	Available on selected floors.
Centralised and Special Computer Laboratories	The general computer laboratory is a centralised facility for all students of the Faculty. The facilities include desktop publishing and image editing. The special 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.
Centralised Workshop	A Model-Making Workshop that has 100m <sup>2</sup> floor area is available for students to make architecture models and construct small-scale objects. The workshop, equipped with hand and power tools for model-making with wood, plastics and metal, is open during normal working hours for use by all students of the faculty. Some equipment are available for loan outside operating hours. One full-time technician supervises the workshop activities and provides hand-on training and assistance to students.
Centralised Laboratories	There are three centralized laboratories within the Faculty buildings that support the lecturers and students in teaching and research activities. These are Physics, Building Laboratories and Digital Crafting Lab. The labs offer advanced practical, research and model-making facilities

	with state-of-the-art machines and equipment, under the supervision of experienced academic and technical staff. In addition, students have access to more specialized laboratories in Engineering and Science Faculties.
Cafe	The faculty's café is located at level 3 and is open during office hours on weekdays.



# **DOCTOR OF PHILOSOPHY (BY RESEARCH)**

## [BVA] DOCTOR OF PHILOSOPHY (BY RESEARCH)

### Program Overview

PhD students 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 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.

### Candidacy

Minimum period	:	4 Semesters
Maximum period	:	12 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 **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;

- f. present research progress at **Thesis Seminar before the submission of thesis for examination**;
- g. must show proof of acceptance for publication as per the following (according to the criteria set in the publication guidelines), prior to graduation:
  - (i) at least **one (1) article** in journals indexed by Thomson Reuters Web of Science (WoS)  
**or;**
  - (ii) 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;**
  - (iii) at least **two (2) publications** in Category A or B refereed journals, or book chapters as follows:
    - **Articles in Category A journals:**  
Journals indexed in the Scopus citation database
    - **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)
    - **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
- h. fulfil the residential requirement of **12 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**

Research candidates are required to submit a progress report online at the end of each semester. The supervisor(s) shall evaluate the progress report, which will then be submitted to the Deputy Dean of Higher Degree or Head of Department. Candidates with satisfactory progress will be recommended for continuation of their candidature. The Faculty shall terminate the candidature of any candidate who with unsatisfactory progress for three consecutive semesters. Candidates who fail to submit his/her progress report within the stipulated period shall be barred from registering for the following semester.

## 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.

## Programme Coordinator



### **DR. Sr AINORIZA MOHD. AINI**

*Coordinator for Doctor of Philosophy and Master by Research*

*PhD (Property Investment), Kingston University, UK  
MSc. (Corporate Real Estate Finance & Strategy), City University of London, UK  
B. (Hons) (Estate Management), UM  
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Tel: 03-7967 5396

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## Administrative Staff



### **SILA A/P BALAKERSNAN**

Administrative Assistant (Clerical and Operational)

Higher Degrees Office

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University of Malaya

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# **MASTER OF BUILT ENVIRONMENT (BY RESEARCH)**





# [BMA] MASTER OF BUILT ENVIRONMENT (BY RESEARCH)

## Program Overview

Students 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 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.

## 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.

## Upgrade to PhD

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).

## Candidature Requirements

- a. attend at least 3 credits of **Research Methodology Course not later than the second (2nd) semester** of candidature;
- b. candidates need to present his/her **initial research proposal in the Pre-Research Proposal at the end of Research Metodology Course**;
- c. fulfil attendance requirements for the **University Bahasa Malaysia course not later than the second (2nd) semester** of candidature (International students only);

- d. present research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;
- e. present research progress at **Candidature Defence not later than the third (3rd) semester** of candidature;
- f. present research progress at **Dissertation Seminar before the submission of dissertation for examination**;
- g. must show proof of acceptance for publication as per the following (according to the criteria set in the publication guidelines), prior to graduation:
  - (i) at least **one (1) article** in journals indexed by Thomson Reuters Web of Science (WoS)  
**or**;
  - (ii) 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**;
  - (iii) at least **one (1) publication** in Category A or B refereed journals, or book chapters as follows:
    - **Articles in Category A journals:**  
Journals indexed in the Scopus citation database
    - **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)
    - **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
- h. 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**

Research candidates are required to submit a progress report online at the end of each semester. The supervisor(s) shall evaluate the progress report, which will then be submitted to

the Deputy Dean of Higher Degree or Head of Department. Candidates with satisfactory progress will be recommended for continuation of their candidature. The Faculty shall terminate the candidature of any candidate who with unsatisfactory progress for three consecutive semesters. Candidates who fail to submit his/her progress report within the stipulated period shall be barred from registering for the following semester.

### **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 of 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.

### **Programme Coordinator**



#### **DR. Sr AINORIZA MOHD. AINI**

*Coordinator for Doctor of Philosophy and Master by Research*

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### **Administrative Staff**



#### **MOHD NAZRI ABU SAMAH**

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# **MASTER OF REAL ESTATE (BY COURSEWORK)**

## **[BQA] MASTER OF REAL ESTATE (BY 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 after-office and / or weekend session.
- The program is offered at University of Malaya's Faculty of Built Environment, Kuala Lumpur.
- 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 Real Estate degree from the University of Malaya.

### **Program Structure and Assessment**

This program consists of 11 courses apportioned as follows: Semester 1 has four compulsory courses, Semester 2 has four compulsory courses and two elective courses from three choices and Semester 3 (Special Semester) has one progressive course. Altogether students must undertake 10 courses. Each course is delivered over a 14-week period, except for BQA7002 (Research Project) which is conducted over two semesters. The courses are assessed by examination and / or continuous assessment.

### **Programme Outcomes**

Graduate will be able to:

PO1	Enhance the knowledge of property development to meet academic and industry needs locally and internationally
PO2	Apply knowledge and skills in coordinating and managing various types of property effectively
PO3	Undertake social responsibility in providing real estate consulting and valuation services

PO4	Demonstrate professionalism in implementing property management services to meet the needs of industry and communities
PO5	Communicate and work effectively in industry and communities to make investment decisions and property development
PO6	Develop analytical capabilities and problem solving skills
PO7	Possess relevant information and knowledge in property consulting and valuation services

### Course Structure

COMPO NENTS	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	3	BQA 7002	Research Project <i>( Progressive I )</i>	6	BQA 7002	Research Project <i>( Progressive II )</i>	6	42
	BQA 7003	Development Economics and Planning	4	BQA 7006	Real Estate Development Process	4				
	BQA 7004	Property Law and Institutional Framework	4	BQA 7007	Property Market Research and Marketing	4				
	BQA 7005	Property Finance and Investment Analysis	4	BQA 7008	Valuation and Investment Appraisal	4				
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQA 7009	Corporate Real Estate	3	BQA 7009	Corporate Real Estate	3				3
	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

#### PROGRESSIVE COURSE :

Candidates need to register and complete the **BQA7002 – Research Project (progressive I & progressive II) in two (2) semesters (Semester II and Special Semester)**. BQA7002 (Progressive I) is given Grade P (progressive) in the first semester of registration. Final grade will be given once the candidates are completed the BQA 7002 (progressive 2) in Special Semester.

## Syllabus Summary

<b>BQA7001 RESEARCH METHODOLOGY IN REAL ESTATE</b>	
3 Credits	<p>Students will be exposed to real estate research elements and processes of problem and hypothesis formulation, research design, data collection and analysis methods, developing the conclusion, and writing the research report. Data collection and sources of data, library research, research methodologies in terms of the general philosophies and detailed research methods. Computer usage: SPSS and other relevant software.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Apply qualitative and quantitative methods that are applicable to evaluate real estate related research.</li> <li>2. Apply the theory and techniques of developing and conducting research in real estate development.</li> <li>3. Illustrate communication skills that contain critical thinking and problem solving elements.</li> <li>4. Structure a research proposal.</li> </ol>
<b>BQA7002 RESEARCH PROJECT (P)</b>	
12 Credits	<p>This course requires the students to conduct research and write a research report under supervision.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Develop a research framework</li> <li>2. Apply appropriate research methodology</li> <li>3. Demonstrate data collection and analysis using appropriate techniques</li> <li>4. Synthesize research results and findings</li> <li>5. Relate information and express ideas clearly and effectively</li> </ol>
<b>BQA7003 DEVELOPMENT ECONOMICS AND PLANNING</b>	
4 Credits	<p>Characteristics of land as an investment, its importance, market trend and property performance in various economic condition; rent and location theories as well as theories related to urban structure and growth; government intervention in property market, and urban problems.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Classify the theories and issues related to development and planning</li> <li>2. Distinguish urban real estate issues in land development.</li> <li>3. Predict potential property development</li> <li>4. Evaluate problem solving measures in the context of real estate development process.</li> </ol>
<b>BQA7004 PROPERTY LAW AND INSTITUTIONAL FRAMEWORK</b>	
4 Credits	<p>Relevant governance and legislation related to real estate development which includes land, building and environmental laws (Federal Constitutions, National Land Code 1965, Local Government Act 1976, Town and Country Planning Act</p>



	<p>1976, Street, Drainage and Building Act 1974, Building by-Law 1984, Environmental Quality Act 1974, Environmental Quality Order 1985, Strata Title Act 1985/ Strata Management Act 2013, Housing Development Act (Control and Licensing) 1966.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify relevant legislation framework suitable for land development</li> <li>2. Integrate knowledge in determining requirements and restrictions to be adhered to in land development.</li> <li>3. Relate the development laws to the environmental management aspect of sustainable development</li> <li>4. Criticise the current regulatory framework</li> </ol>
<b>BQA7005 PROPERTY FINANCE AND INVESTMENT ANALYSIS</b>	
4 Credits	<p>Financial and capital market (secondary mortgage market REITs); the relationship between investment and property development; investment technique and financing (financing property development, residential product, income-generating property); financial and investment analysis; capital budgeting and portfolio theory.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify the principles of financial and investment property</li> <li>2. Distinguish techniques of financial analysis and investment-related</li> <li>3. Evaluate the performance of real estate investment</li> <li>4. Choose the best option for real estate investment devise.</li> </ol>
<b>BQA7006 REAL ESTATE DEVELOPMENT PROCESS</b>	
4 Credits	<p>Parties and institutions involved in property development; development process from initial stage to handing over vacant possession, development process models; impact of public policy and legislation restrictions; fundamental of project management and project appraisals; risk management.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify real estate development process models</li> <li>2. Establish relevant attributes of a successful property development</li> <li>3. Identify relevant negotiation techniques</li> <li>4. Assess the performance and viability of the development project.</li> </ol>
<b>BQA7007 PROPERTY MARKET RESEARCH AND MARKETING</b>	
4 Credits	<p>Property market research: data collection; types and methods, survey design, sampling, data analysis, forecasting: economy and property market (behaviour and trends, economy/ property cycle) and research findings.</p> <p>Property marketing: characteristics and market segment, market catchment, market positioning, principles and strategies in marketing management, marketing skills</p> <p>At the end of the course students will be able to:</p>

	<ol style="list-style-type: none"> <li>1. Identify marketing techniques and real estate market research</li> <li>2. Develop the relevant attributes towards a successful real estate marketing</li> <li>3. Produce a real estate market study report</li> <li>4. Evaluate real estate market research findings</li> </ol>
<b>BQA7008 VALUATION AND INVESTMENT APPRAISAL</b>	
4 Credits	<p>Methods of valuation and discounting techniques; Market, Cost and Income methods as outlined by the International Valuation Standard and the 5 methods by the Malaysian Valuation Standard in determining the Market Value of various types of landed property. Explain and apply the various types of investment appraisals.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Determine the different property valuation approaches</li> <li>2. Apply the valuation methods and discounting techniques</li> <li>3. Appraise the suitability of valuation methods for different types of property.</li> <li>4. Explain and apply the various types of investment appraisals</li> </ol>
<b>BQA7009 CORPORATE REAL ESTATE</b>	
3 Credits	<p>Strategies in managing effective real estate portfolio, operational and non-operational real estate; strategic planning and analysis; legal, economic and technical aspects in execution of portfolio management; space planning; lease and tenancy; merger, acquisition and disposal; corporate financing.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Recognise corporate holdings in real estate.</li> <li>2. Perform strategic decision-making in real estate investment portfolio.</li> <li>3. Evaluate performance of real estate</li> <li>4. Appraise real estate tenure decisions</li> </ol>
<b>BQA7010 REAL ESTATE PROJECT MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Determine the development of modern project management</li> <li>2. Identify project stakeholders' key factors associated with successful execution of projects.</li> <li>3. Formulate measurable criteria for assessment of project performance and success.</li> <li>4. Evaluate constraints and assumptions, related projects and out of scope activities</li> </ol>

## BQA7011 SUSTAINABLE REAL ESTATE DEVELOPMENT

3 Credits	<p>Sustainability is a wide topic in real estate. 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> <ol style="list-style-type: none"><li>1. Identify sustainable development principles and practices in real estate development.</li><li>2. Apply sustainable development principles in real estate development.</li><li>3. Appraise institutional factors that could affect sustainable real estate development.</li></ol>
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### Programme Coordinator



#### **DR. ZAIRUL NISHAM MUSA**

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# **MASTER OF PROJECT MANAGEMENT (BY COURSEWORK)**

## **[BQB] MASTER OF PROJECT MANAGEMENT (BY 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:

- a. Bachelor's Degree in Built Environment, Engineering, Management, IT, Sciences, Social Sciences, Economy, Finance or equivalent qualification in a relevant discipline with CGPA of 3.00 and above; OR
- b. Professional qualification from a recognized professional body; OR
- c. Other qualifications as written by the Senate from time to time; AND
- d. Have at least one (1) year of working experience in related field; OR
- e. Bachelor's Degree with CGPA of less than 3.00 (2.70 to 2.99) with a minimum of three (3) years of working experience in related field; OR
- f. Bachelor's Degree with CGPA of less than 2.70 (2.50 to 2.69) with a minimum of three (3) years of working experience in related field; AND University of Malaya graduate; OR Produce at least one (1) publication in related fields; OR Scholarship recipient; OR
- g. Bachelor's Degree with CGPA of less than 2.50 (2.10 to 2.49) with a minimum of five (5) years of working experience in related field; AND University of Malaya graduate; AND 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 after-office and / or weekend session.
- The program is offered at University of Malaya's Faculty of Built Environment.
- 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 University of Malaya.

### **Programme Structure and Assessment**

This program consists of 12 courses. Each course is delivered over a 14-week period (normal semester). The courses are assessed by examination and/or continuous assessment.

### **Programme Outcomes**

Graduate will be able to:

PO1	Demonstrate in-depth comprehension of the 10 areas of project management as identified in the Project Management Body of Knowledge Guide (PMBOK).
PO2	Apply project management skills in a project environment.
PO3	Apply the right techniques and technology of project management in work environment.
PO4	Demonstrate the required level of professionalism and commitment to ethical practice.
PO5	Demonstrate the ability to provide clear, reasonable and professional views in all forms of communication and ability to work independently and in groups as a leader.
PO6	Analyse the problem of assessing strategic options and being able to make decisions with supporting evidence and providing good judgement.
PO7	Demonstrate the ability to improve knowledge to enhance self-formation.

## Course Structure

COMPO NENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: NORMAL 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 7002	Research Project I <i>(prerequisite subject)</i>	5	BQB 7003	Research Project II <i>(prerequisite subject)</i>	5	37
	BQB 7004	Principles of Project Management	3	BQB 7007	Integrated Project	6	BQB 7009	Value and Risk Management for Projects	3	
	BQB 7005	Project Management Professional Development	3	BQB 7008	Project Management Professional Development II	3	BQB 7010	Project Investment and Financial Management	3	
	BQB 7006	Organizations and Strategic Management for Projects	3							
ELECTIVE SUBJECTS (CHOOSE 2 ONLY)				BQB 7011	Health and Safety Management	3	BQB 7011	Health and Safety Management	3	6
				BQB 7012	Legal Studies for Project Management		BQB 7012	Legal Studies for Project Management		
				BQB 7013	Assets and Facilities Management		BQB 7013	Assets and Facilities Management		
				BQB 7014	IT Management for Projects		BQB 7014	IT Management for Projects		
TOTAL CREDIT										43

### PREREQUISITE COURSE :

Candidates need to register and complete the **BQB7001 – Research Methodology for Project Management** before proceed with **BQB7002 - Research Project I** and then after with **BQB7003 - Research Project II** in the following semester.



## Syllabus Summary

<b>BQB7001 RESEARCH METHODOLOGY FOR PROJECT MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Practice different types of qualitative and quantitative methods related to the assessment, methods of project management, data interpretation and report writing.</li> <li>2. Communicate with critical thinking and problem solving skills.</li> <li>3. Apply the theory and technique development and implementation of research in related fields.</li> </ol>
<b>BQB7002 RESEARCH PROJECT I</b>	
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 3 chapters which include the introduction, literature review and research methodology.</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Identify and write with a concise explanation of why the project is needed.</li> <li>2. Have the skills and knowledge in the application of concepts and strategies in a research project.</li> <li>3. Apply the skills of problem solving and scientific skills.</li> </ol>
<b>BQB7003 RESEARCH PROJECT II</b>	
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 materials or literature search, and the writing of the results of the project. At this stage, students will produce a balance of about 6 chapters comprising of data collection, analysis discussion and conclusions. It also includes a complete research report produced by integrated with previous chapters that have been generated during the course investigational of Research Project I and comply with the procedures earnings reports research projects required by the university.</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> <li>1. Apply the theories learned to the academic research.</li> </ol>

	<ol style="list-style-type: none"> <li>2. Apply the data collection and analysis skills learned to the research.</li> <li>3. Present the research results and findings in an academic manner</li> </ol>
<b>BQB7004 PRINCIPLES OF PROJECT MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Explain the concept and principles of project management.</li> <li>2. Analyse effective project management methodology towards a successful and effective projects.</li> <li>3. Apply effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure).</li> </ol>
<b>BQB7005 PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT I</b>	
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"> <li>• Project Integration Management,</li> <li>• Project Scope Management,</li> <li>• Project Schedule Management,</li> <li>• Project Cost Management, and</li> <li>• Project Quality Management.</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Discuss about Project Management Body of Knowledge (PMBOK).</li> <li>2. Identify best practices recognized by the discipline of project management for implementation into a successful project management.</li> <li>3. Apply a successful project management disciplines through a strong foundation, intellectually, and professionally.</li> </ol>
<b>BQB7006 ORGANIZATIONS AND STRATEGIC MANAGEMENT FOR PROJECTS</b>	
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> <ol style="list-style-type: none"> <li>1. Explain the concept and principles of organization and strategic management for the project.</li> <li>2. Understand the context of strategic management and project organization.</li> </ol>

	3. Analyse and relate it to another level in project management.
<b>BQB7007 INTEGRATED PROJECT</b>	
6 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> <ol style="list-style-type: none"> <li>1. Understand the interests of the combination and integration of knowledge.</li> <li>2. Relate concepts, principles, techniques and the academic knowledge acquired.</li> <li>3. Apply the knowledge gained and confidence to solve problems.</li> </ol>
<b>BQB7008 PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT II</b>	
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"> <li>• Project Resource Management,</li> <li>• Project Communication Management,</li> <li>• Project Risk Management,</li> <li>• Project Procurement Management, and</li> <li>• Project Stakeholder Management.</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Discuss about Project Management Body of Knowledge (PMBOK).</li> <li>2. Identify best practices recognized by the discipline of project management for implementation into a successful project management.</li> <li>3. Apply a successful project management disciplines through a strong foundation, intellectually, and professionally</li> </ol>
<b>BQB7009 VALUE AND RISK MANAGEMENT FOR PROJECTS</b>	
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> <ol style="list-style-type: none"> <li>1. Identify the value and risk management aspects that are needed in projects.</li> <li>2. Explain the concepts and principles of value and risk management in projects.</li> <li>3. Develop the skills and methods of implementation of value and risk management in the context of projects.</li> </ol>

<b>BQB7010 PROJECT INVESTMENT AND FINANCIAL MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Explain the financial concepts, especially opportunity cost and time value of money.</li> <li>2. Discuss the ways in which business plans are developed and the role of projected financial statements in the planning process.</li> <li>3. Analyze capital budgeting projects and focus on the short-term and long-term financial implications of business decisions.</li> </ol>
<b>BQB7011 HEALTH AND SAFETY MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Exposure to current and comprehensive occupational safety and health management</li> <li>2. Identify the safety and health problems individually, conduct an investigation and preparing safety plan activities</li> <li>3. Evaluate the impact and capable of using the program and procedures for effective safety and health in the project.</li> </ol>
<b>BQB7012 LEGAL STUDIES FOR PROJECT MANAGEMENT</b>	
3 Credits	<p>This module provides an overview of the legal issues that will be faced during the project life cycle.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Describe the knowledge of the management rights and responsibilities, agency and representation, contract formation and negotiation of contracts, dispute prevention and settlement.</li> <li>2. Identify the legal implications of the associated issues by taking into account ethical project management contract procurement.</li> <li>3. Assess the acquisition strategy in project management contract by concrete evidences.</li> </ol>

<b>BQB7013 ASSETS AND FACILITIES MANAGEMENT</b>	
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 &amp; maintenance; which use higher cost of facilities.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Understand the strategies and operational facility management.</li> <li>2. Translating the main capital through proper maintenance and achieve the value of the cost of daily operations</li> <li>3. Apply appropriate management theory to meet the core objectives of a business</li> </ol>
<b>BQB7014 IT MANAGEMENT FOR PROJECTS</b>	
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> <ol style="list-style-type: none"> <li>1. Develop knowledge in a business context and technical developments of the management aspects of information technology in contemporary projects.</li> <li>2. Build good relationships and interaction through the management of information technology projects.</li> <li>3. Use conceptual and analytical approaches to the management of information technology projects.</li> </ol>

## Programme Coordinator



**Sr DR. LOO SIAW CHUING**, PQS

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**UNIVERSITI  
MALAYA**

**MASTER OF  
FACILITIES AND  
MAINTENANCE  
MANAGEMENT  
(BY COURSEWORK)**



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

## **Program Overview**

The programme aims to produce professional Facilities Management and Maintenance 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 after-office and/or weekend sessions.
- The medium of instruction are in English.
- The programme is offered by attendance at the Faculty of Built Environment, University of Malaya, Kuala Lumpur.
- 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 University of Malaya.

## **Programme Structure and Assessment**

This program consists of 10 courses. Each course is delivered over a 14-week period (normal semester) or 8-week period (special semester). The courses are assessed by examination and/or continuous assessment.

## **Programme Outcomes**

Graduate will be able to:

PO1	Synthesize knowledge, skills and good management practice in the field of facilities management and building maintenance
PO2	Integrate knowledge and ability in solving building facilities problems with critical, creative and innovative approach
PO3	Demonstrate communication and interaction skills among team members in the context of facilities management and building maintenance
PO4	Propose consultation works in the context of facilities management and building maintenance
PO5	Express high leadership qualities and ability to work in groups

PO6	Develop and apply techniques, resources and tools for research on facilities and building maintenance research
PO7	Inculcate awareness and ethics regarding social, health, safety, and legislation issues in facilities management and maintenance
PO8	Cultivate awareness on the importance of entrepreneurship and sustainable development; and
PO9	Cultivate readiness in the facilities management and maintenance career development for lifelong learning

### Course Structure

COMPO NENTS	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 7002	Research Project <i>(prerequisite subject)</i>	12	BQC 7009	Strategic FM Project	5	43
	BQC 7003	Organisational Behaviour and Resource Management	3	BQC 7007	Building Performance, 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

#### PREREQUISITE COURSE :

Candidates need to register and complete the **BQC7001 – Research Methodology** before proceed with **BQC7002 - Research Project** in the following semester.

## Syllabus Summary

<b>BQC7001 RESEARCH METHODOLOGY</b>	
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> <ol style="list-style-type: none"> <li>1. Interpret research principles, processes and the requirements for conducting research within facilities and maintenance management</li> <li>2. Develop critical theoretical literature reviews, research methods and systematic approaches applicable to facilities and maintenance management</li> <li>3. Practise awareness and ethics in executing good research project</li> </ol>
<b>BQC7002 RESEARCH PROJECT</b>	
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> <ol style="list-style-type: none"> <li>1. Apply skills, knowledge and good management on the application of concepts and strategies in research project.</li> <li>2. Integrate knowledge, communication skills and critical thinking in solving research problems</li> <li>3. Apply theory and techniques of facilities management in formulating research project.</li> <li>4. Practise ethics in the research project.</li> </ol> <p><b>*** Pre-requisite: BQC7001 Research Methodology</b></p>
<b>BQC7003 ORGANIZATIONAL BEHAVIOUR AND RESOURCE MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Identify teamwork skills in management organization which include relationship of individual, industries and workplace environment</li> <li>2. Interpret knowledge of theories in organizational concept and effective resource management</li> <li>3. Explain issues and problems in organization and human behaviour through critical and practical approach</li> </ol>

<b>BQC7004 OPERATION &amp; MAINTENANCE</b>	
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> <ol style="list-style-type: none"> <li>1. Discuss procedures for operation and maintenance of asset and facilities</li> <li>2. Analyse guideline and legislation in the current practices of asset and facilities maintenance</li> <li>3. Appraise techniques and technologies in asset and facilities maintenance</li> </ol>
<b>BQC7005 TOTAL ASSET AND FACILITIES MANAGEMENT</b>	
4 Credits	<p>This module examines the strategic and operational total asset and facilities management. Strategic facilities management include the introduction of management discipline to the facilities management. Operational facilities management looks at external constraints on corporate priorities which include the theoretical issues influencing why an organization locates where it does and take an overview of four of the major facility operational areas that are amenable to management: Security, Cleaning, Energy, and Repairs &amp; Maintenance, which consume major portion of facilities costs.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Identify the total asset &amp; facilities management theory</li> <li>2. Apply strategic and operational total facilities management to fulfill the core organizational objectives</li> <li>3. Decide appropriate management system in achieving value added in operational maintenance and facilities management</li> </ol>
<b>BQC7006 PROCUREMENT &amp; CONTRACT MANAGEMENT</b>	
4 Credits	<p>This course introduces how business support are developed and outsourced competitively via strategic or conventional FM service delivery framework. Student will also learn a how FM contracts is managed that are made as part of the delivery of a built asset. It involves the creation, analysis and execution of contracts by the parties to those contracts to ensure operational and financial performance is maximised, and risks are minimised between a service provider (either internal or external) and the end user that defines the level of service expected from the service provider.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Identify the type, process, procedure, procurement and liability of contract.</li> <li>2. Determine the key component parts in a Service Level Agreement.</li> <li>3. Evaluate contract performance measurement systems in facilities management.</li> <li>4. Prepare a service level agreement</li> </ol>

<b>BQC7007 BUILDING PERFORMANCE, PRODUCTIVITY AND WELLBEING</b>	
4 Credits	<p>Introduction to environmental quality in buildings, and ways of producing desirable environments in energy, resourceful and efficient manner. 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> <ol style="list-style-type: none"> <li>1. Identify green building principles and practices.</li> <li>2. Discuss various methods of implementation in energy audit.</li> <li>3. Propose sustainable or green building solutions.</li> </ol>
<b>BQC7008 FINANCIAL AND BUSINESS MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Identifiy the theories and application of business and financial management in facilities management</li> <li>2. Appraise the suitable financial management tools towards effective facilities and business performance</li> <li>3. Integrate the function of financial analysis in organizational decision making</li> </ol>
<b>BQC7009 STRATEGIC FACILITIES MANAGEMENT PROJECT</b>	
5 Credits	<p>Candidate will learn and demonstrate how strategic FM delivery framework can be applied to business organisation. This course aims to enable students to understand FM business strategy, appraise and analyse the diverse nature of developing strategic facility project. Student will acquire the way to optimise FM knowledge by means of appropriate management of information system and operational processes. Students are required to present the results of FM project work courses in seminar.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Determine relationship between strategic facility planning and business strategy for FM project.</li> <li>2. Identify appropriate framework for strategic facility planning, with appropriate procurement method.</li> <li>3. Structuring the management of key information on FM system for business performance.</li> <li>4. Critically evaluate the impact (benefits and challenges) and use of FM system on facility life cycle.</li> </ol>

<b>BQC7010 SUSTAINABLE AND ENVIRONMENTAL MANAGEMENT</b>	
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 &amp; 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> <ol style="list-style-type: none"> <li>1. Identify sustainable development principles and practices in facilities management</li> <li>2. Apply sustainable development principles in facilities management to mitigate environmental risks</li> <li>3. Integrate professional skills in achieving sustainable environmental management system</li> </ol>
<b>BQC7011 CORPORATE REAL ESTATE</b>	
3 Credits	<p>Strategies in managing effective real estate portfolio, operational and non-operational real estate; strategic planning and analysis; legal, economic and technical aspects in execution of portfolio management; space planning; lease and tenancy; merger, acquisition and disposal; corporate financing</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Identify corporate holdings in real estate.</li> <li>2. Select strategic decision-making in real estate investment portfolio.</li> <li>3. Evaluate performance of real estate</li> <li>4. Appraise real estate tenure decisions</li> </ol>
<b>BQC7012 PRINCIPLES OF PROJECT MANAGEMENT</b>	
4 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 the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Explain the concept and principles of project management.</li> <li>2. Analyse effective project management methodology towards successful and effective projects.</li> <li>3. Apply effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure)</li> </ol>

## Programme Coordinator



### **DR. SHIRLEY CHUA JIN LIN**

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# **MASTER OF ARCHITECTURE (BY COURSEWORK)**



# [BVH] MASTER OF ARCHITECTURE (BY COURSEWORK)

## Program Overview

The programme is serviced by highly qualified and experienced academic staff including one (1) Professor, four (24) 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:
1. Candidates with CGPA of 3.0 and above
    - a. Obtained LAM Part 1 accreditation.
    - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
    - c. Completed a minimum of six (6) months working experience upon completion of the undergraduate degree.
    - d. Pass competency interview (Interview, portfolio & technical drawing test).
  2. Candidates with CGPA of 3.0 and above
    - a. Obtained LAM Part 1 accreditation
    - b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
    - c. Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
    - d. Pass competency interview (Interview, portfolio & technical drawing test)
  3. Candidates with CGPA of 2.70 – 2.99
    - a. Obtained LAM Part 1 accreditation
    - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
    - c. Completed a minimum of twenty-four (24) months working experience upon completion of the undergraduate degree.
    - d. Pass competency interview (Interview, portfolio & technical drawing test)
  4. Candidates with CGPA of 2.70 – 2.99

- a. Obtained LAM Part 1 accreditation
- b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
- c. Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
- d. Pass competency interview (Interview, portfolio & 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:**

1. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation.
  - b. Attained an overall grade of 'B' and above for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of twelve (12) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test).
2. Candidates with CGPA of 3.0 and above
  - a. Obtained LAM Part 1 accreditation
  - b. Attained an overall grade of 'B -' and below for Architectural Design Studio course in the final semester of the undergraduate degree program.
  - c. Completed a minimum of thirty-six (36) months working experience upon completion of the undergraduate degree.
  - d. Pass competency interview (Interview, portfolio & technical drawing test)

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 at University of 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 University of Malaya.

### **Program Structure and Assessment**

This program consists of 13 core courses and two (2) elective courses. Each course is delivered over a 14-week period (normal semester) or 8-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 Outcomes**

Graduate will be able to:

PO1	Command adequate knowledge in the areas of design, research, technology, management practices law, culture and theory related to the field of architecture.
PO2	Use practical skills and computer software in researching, designing, and managing projects spanned architecture to achieve the requirements of clients and stakeholders in the construction industry.
PO3	Demonstrate social skills and responsibility towards society and the environment in designing, researching, managing and implementing architectural projects.
PO4	Applying ethical values, professionalism and integrity in advising clients and dealing with parties interested in the construction industry.
PO5	Communicate effectively, capable of teamwork and leadership skills in managing architectural projects.
PO6	Using scientifically researching skills in problem solving and decision making and technical design for architectural projects.
PO7	Using information management skills and the ability to lifelong learning for designing architectural projects.
PO8	Using managerial and entrepreneurial skills in managing architectural projects and presenting ideas to clients to ensure the benefits and use of resources fully.

## Course Structure

No	Group	Code	Courses	SEMESTER					Credit
				1	2	K-1	3	4	
1	DESIGN 33 credits (51%)	BAGS6101	Advanced Architectural Design I	7					7
		BAGS6102	Advanced Architectural Design II		7				7
		BAGS6203	Pre-Thesis Research			3			3
		BAGS6204	Architectural Design Thesis I				8		8
		BAGS6205	Architectural Design Thesis II					8	8
2	TOPICAL RESEARCH 11 credits (17%)	BAGS6106	Research Methodology		3				3
		BAGS6207	Architectural Research I				5		5
		BAGS6208	Architectural Research II					3	3
3	TECHNOLOGY & ENVIRONMENT 6 credits (9%)	BAGS6109	Sustainable & Green Technology I	3					3
		BAGS6110	Sustainable & Green Technology II					3	3
4	LAW, PRACTICE & MANAGEMENT 9 credits (14%)	BAGS6111	Professional Practice I	3					3
		BAGS6112	Professional Practice II		3				3
		BAGS6213	Architects and Construction Management				3		3
5	CULTURAL & CONTEXT (Electives)		<b>Choose any two</b>	3	3				6
		BAGS6314	Architecture Theory & Philosophy						
		BAGS6315	Architectural Comparative Studies						
		BAGS6316	Building Conservation						
		BAGS6317	Design –Built Project						
		BAGS6318	Urban Planning						
		BAGS6319	Interior Architecture						
		BAGS6320	Landscape Architecture						
		BAGS6321	Universal Design						
			<b>Total/Semester</b>	<b>16</b>	<b>16</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>65</b>

## Syllabus Summary

<b>BAGS6101 ADVANCED ARCHITECTURAL DESIGN I</b>	
7 Credits	<p>Students will design a cultural building and apply relevant passive design strategies; and design a complex building within an urban context. This course entails possible collaboration with students from other institution.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Summarize precedent studies on climactically responsive buildings.</li> <li>2. Apply passive design strategies on the architectural solutions of a small cultural building typology.</li> <li>3. Integrate green building approach into a project related to a complex building typology.</li> <li>4. Design appropriate architectural solutions comprising drawings and models incorporating the architectural project issues that comprise sustainable design strategies.</li> </ol>
<b>BAGS6102 ADVANCED ARCHITECTURAL DESIGN II</b>	
7 credits	<p>Students will design and affordable high-density housing project; focus on the psychological and physiological aspects of a human being, communal living and socio-cultural issues and; apply theories and principles of housing design such as defensible spaces, security by design, crime prevention through environmental design (CPTED) and clustering or block grouping to accelerate social interaction</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Summarize lessons learned from research on precedent studies into a project brief of complex buildings or high density housing in an urban context.</li> <li>2. Apply building statutory and other development requirements, taking into consideration the feasibility study to inform and justify the viability of the project.</li> <li>3. Share views and opinions academically through discussions with people from different cultural backgrounds or related disciplines.</li> <li>4. Design appropriate architectural solutions comprising drawings and models incorporating the architectural project issues which comprises of site planning, contextual studies, social-cultural issues and universal design.</li> </ol>
<b>BAGS6203 PRE THESIS RESEARCH</b>	
3 credits	<p>Students will conduct an in depth study to form a viable and suitable architectural design thesis project with adequate complexity; involve identification, analysis and development of the proposal for the design thesis project and; 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> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Determine the conceptual framework based on research topic to assist the formulation of a design brief.</li> <li>2. Prepare a comprehensive report for proposed topic.</li> <li>3. Justify selection of design topic / project.</li> </ol>

<b>BAGS6204 ARCHITECTURAL DESIGN THESIS I</b>	
8 credits	<p>Students will develop works that were produced in BAGS 6203, 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> <ol style="list-style-type: none"> <li>1. Discuss design thesis concept based on areas of research such as sustainable design, building typology, conservation/adaptive reuse, site/issue-driven arguments and community architecture.</li> <li>2. Translate design concept into detailed architectural design scheme.</li> <li>3. Analyse site through series of studies from macro to micro level.</li> <li>4. Defend design thesis project through verbal and architectural graphics.</li> </ol>
<b>BAGS6205 ARCHITECTURAL DESIGN THESIS II</b>	
8 credits	<p>This course is a continuation of the development of conceptual design, ideas and scheme explored in BAGS 6204 Architectural Design Thesis I. The emphasis is on the development of: an architectural design proposal; design of the special studies and; design proposal report</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Translate design concept into a detailed architectural design proposal.</li> <li>2. Report a special study that focuses on the core ideas of the design thesis project.</li> <li>3. Defend design thesis project through verbal and architectural graphics.</li> <li>4. Justify design proposal in a written report.</li> </ol>
<b>BAGS6106 RESEARCH METHODOLOGY</b>	
3 credits	<p>Students will be exposed to: library search; research methodology; scientific research elements; problem formulation process and hypotheses; research design; data collection; data analysis; research findings; writing up and; the use of computer software SPSS</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Apply qualitative and/or quantitative research methods suitable to the research scope, data analysis and academic writing.</li> <li>2. Apply theory and techniques of research development and implementation.</li> <li>3. Debate effectively based on critical thinking and problem solving skills.</li> </ol>
<b>BAGS6207 ARCHITECTURAL RESEARCH I</b>	
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. The students are encouraged to select a topic or issue for dissertation in design or a related field. It may be concerned with any aspect of architecture such as history, theory, aesthetics, technology, sociology, philosophy, anthropology, town planning, conservation or landscape design. For each dissertation, a supervisor will be appointed to monitor the student progress and advice on source material and writing up.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Enumerate critically literature review.</li> </ol>

	<ol style="list-style-type: none"> <li>2. Report primary and related data.</li> <li>3. Analyse data and syntheses findings.</li> </ol>
<b>BAGS6208 ARCHITECTURAL RESEARCH II</b>	
3 credits	<p>This course totally depends totally on discussions between the student and supervisor. Discussions cover: various levels of journals; communication with journals; writing research papers; writing for publication and; presentation techniques.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Organise architectural research thesis outcome.</li> <li>2. Experiment ready-made information.</li> <li>3. Compose an academic paper.</li> </ol>
<b>BAGS6109 GREEN AND SUSTAINABLE TECHNOLOGY I</b>	
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"> <li>• Building Physics</li> <li>• Design &amp; Fire Engineering</li> <li>• Environmental Performance</li> <li>• Design Integration of Services</li> <li>• Other related topics</li> <li>• The course will also involve precedents studies.</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Determine the advantages and disadvantages of conventional and 'green' building services.</li> <li>2. Illustrate elements of green building services and building environmental control strategies to enhance the ability to design according to the concept of sustainability.</li> <li>3. Analyse the applicability of green building services and building environmental control.</li> </ol>
<b>BAGS6110 GREEN AND SUSTAINABLE TECHNOLOGY II</b>	
3 credits	<p>This course introduces the technical definition of working drawings, Differences between design sketch analyses, discussions and applications of the sustainability concept</p> <ul style="list-style-type: none"> <li>• green building construction</li> <li>• green building materials in green building design</li> <li>• environmental impact assessments (EIA)</li> <li>• green building rating methods</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Appraise various methods of 'green' building construction and the characteristics of green building materials.</li> <li>2. Propose green building solutions into the studio architectural design project.</li> <li>3. Anticipate the sustainability, performance and cost-effectiveness of green buildings utilising available building assessment software</li> </ol>

<b>BAGS6111 PROFESSIONAL PRACTICE I</b>	
3 credits	<p>This course introduces the:</p> <ul style="list-style-type: none"> <li>• Concept of ethics, moral and professional obligations</li> <li>• Principles of professionalism, competency, responsibilities and due diligence</li> <li>• The architect's roles and responsibilities in the building team and society</li> <li>• The laws and regulations that govern the architectural profession and its practice</li> <li>• The scope of architectural services and the relevant terms of appointment of an architect</li> </ul> <p>This course also exposes the legislative aspects including:</p> <ul style="list-style-type: none"> <li>• Statutory controls and their application in practice:</li> <li>• Land and property legislation;</li> <li>• Planning control – Legislation on town and country planning and its administration;</li> <li>• Building control, Building Legislation and Regulations, Local authority guidelines.</li> </ul> <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> <li>• Determine the architect's professional ethics and their role in the building industry.</li> <li>• Relate to the architect's scope of work, in terms of his/her ethical obligations, responsibilities, moral values that are required in the building industry.</li> <li>• Explain the types of architectural services based on terms of appointment and current Malaysian legislation.</li> </ul>
<b>BAGS6112 PROFESSIONAL PRACTICE II</b>	
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"> <li>• Types of practice</li> <li>• Marketing strategies</li> <li>• Financial management, fees, remuneration and expenses</li> <li>• Managing work distribution and human resources</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Explain different types of architectural practices as professional business entities.</li> <li>2. Interpret principles of marketing strategies for architectural practices.</li> </ol>
<b>BAGS6213 ARCHITECT AND CONSTRUCTION MANAGEMENT</b>	
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> <ol style="list-style-type: none"> <li>1. Illustrate the course of a construction project from the letter of appointment of contractor to the handover of site to the project owner.</li> <li>2. Apply management knowledge and tools in managing construction and work progress in accordance with the building contract.</li> <li>3. Determine the role of an architect during the construction phase.</li> </ol>



## EVECTIVE COURSES

<b>BAGS6314 ARCHITECTURAL THEORY AND PHILOSOPHY</b>	
3 credits	<p>Study on: Modernism (rationalism, structuralism, phenomenology); Post-modernism (post-structuralism, de-constructivism, critical regionalism, abstract expressionism, algorithmic design, sustainable/green design)</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Conclude theories, philosophies and manifestos of various architects or architectural movements based on their differing characters and values.</li> <li>3. Enumerate theories and philosophies of various architects or architectural movements based on their salient features.</li> </ol>
<b>BAGS6315 ARCHITECTURAL COMPARATIVE STUDIES</b>	
3 credits	<p>This course introduces the students to:</p> <ul style="list-style-type: none"> <li>• the culture, site and context in architecture</li> <li>• design impact of the building</li> <li>• comparative studies between local and abroad</li> <li>• building styles</li> <li>• significant cultural and social aspects</li> <li>• specific technical and/or environmental studies.</li> <li>• Students will have the opportunity to present research findings effectively and professionally.</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Analyze issues of culture, site and context in architecture of a site outside Malaysia and the influence of different civilisations on architecture.</li> <li>2. Analyze the design of selected buildings and sites to include concept, spaces, structure, material, sustainability and uniqueness.</li> <li>3. Perform the presentation of research findings effectively and professionally.</li> </ol>
<b>BAGS6316 BUILDING CONSERVATION</b>	
3 credits	<p>The course 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. The course also introduces 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.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Indicate the principles of building conservation that emphasizes on the importance of cultural significance, authenticity and integrity of built forms.</li> <li>2. Explain various forms of conservation practice in architecture, international conventions and guidelines on conservation of cultural properties and relevant existing Malaysian legislations.</li> <li>3. Analyze best conservation practices related to the use of materials, techniques, approaches, philosophies, measured drawings, dilapidation surveys and conservation statements.</li> </ol>

<b>BAGS6317 DESIGN - BUILD PROJECT</b>	
3 credits	<p>This course introduces the students to:</p> <ul style="list-style-type: none"> <li>the process of design and building the real construction site</li> <li>simple design, build task and familiarize with tools and trade of construction</li> <li>design a usable project and the best design will be selected to be constructed</li> <li>Students will also be working with builders and exposed construction technical aspect.</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Translate design ideas into construction detail.</li> <li>2. Assemble small physical structure to 1:1 scale.</li> <li>3. Appraise the performance of the built structure.</li> </ol>
<b>BAGS6318 URBAN PLANNING</b>	
3 credits	<p>Study on an overview of basic urban planning and design techniques; urban development policies, land use policies; housing policies, transport policies and traffic management policies and; basic city structure and form.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Determine basic urban planning and design techniques.</li> <li>2. Discuss basic urban planning and design policies and strategies.</li> <li>3. Analyze an existing urban development area to planning and urban design theories and concepts.</li> </ol>
<b>BAGS6319 INTERIOR ARCHITECTURE</b>	
3 credits	<p>Synopsis of Course Contents</p> <ul style="list-style-type: none"> <li>Study on planning and layout of interior spaces; colour theory; finishes and furniture; lighting and acoustics; M &amp; E services; structure and; information technology applications</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Discuss the history, philosophy and essentials of interior architecture.</li> <li>2. Apply knowledge obtained with regards to all aspects of interior design.</li> <li>3. Prepare a sketch design proposal and detail design drawings for an interior space of medium complexity.</li> </ol>
<b>BAGS6320 LANDSCAPE ARCHITECTURE</b>	
3 credits	<p>This course provides opportunities for students to develop and demonstrate knowledge, understanding and skills in the following areas:</p> <ul style="list-style-type: none"> <li>knowledge and understanding of landscape design</li> <li>planting design</li> <li>theoretical studies</li> </ul> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> <li>1. Criticize the qualities of landscape spaces.</li> <li>2. Appraise critically landscape design works.</li> <li>3. Integrate basic principles of planting design, maintenance and management in design projects.</li> </ol>

## BAGS6321 UNIVERSAL DESIGN

3 credits

The students will be exposed to:

- obtain basic skills and eventually build on those skills to be Universal Design advisors or facilitators
- assist in conducting 'access audit' training
- do access audit reports
- appraise building plans on accessibility issues
- interview the user with special needs

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

1. Investigate building plans for accessibility.
2. Apply knowledge and skills of Universal Design.
3. Propose solutions for accessible building plans.

### Programme Coordinator



#### **DR. NORAFIDA AB GHAFAR**

*Coordinator for Master of Architecture (by coursework)*

*PhD (Sustainable Architecture), University of Nottingham, UK*

*MA (Urban Design), Oxford Brookes University, UK*

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# **FEE STRUCTURE**

## FEES STRUCTURE

### MALAYSIAN (LOCAL CANDIDATES)

Component of Fees	Master of Real Estate		Master of Project Management		Master of Facilities & Maintenance Management		Master of Architecture		Master of Built Environment	Doctor of Philosophy
	Credit hour	RM 297/ch	Credit Hour	RM 297/ch	Credit hour	RM 297/ch	Credit hour	RM 200/ ch	RM600/ ch	RM105/ch
<b>SEMESTER 1</b>										
Candidature		330		330		330		330	330	550
Alumni Fee		110		110		110		110	110	110
Graduation Fee - 1st Payment		110		110		110		110	110	110
Insurance		15		15		15		15	15	15
Other Services Fee		330		330		330		330	330	330
<b>Recurring Fees:-</b>										
<b>(i) Registration</b>		50		50		50		50	50	50
<b>(ii) Service</b>		100		100		100		100	100	100
<b>(iii) Health</b>		27		27		27		27	27	27
<b>(iv) Library</b>		200		200		200		200	200	200
<b>(v) Welfare</b>		10		10		10		10	10	10
<b>(vi) Recreation</b>		10		10		10		10	10	10
<b>(vii) ICT</b>		100		100		100		100	100	100
Tuition Fees	18	5,346	12	3,564	18	5,346	16	3,200	1,800	315
Examination Fees	18	540	12	360	18	540	16	480	90	90
Research Fee		-		-		-		-	2,700	940
Supervision Fee		-		-		-		-	-	1,175
Submission of Dissertation/Thesis - 1st Payment		-		-		-		-	800	900
<b>Total</b>		<b>7,278</b>		<b>5,316</b>		<b>7,278</b>		<b>5,072</b>	<b>6,782</b>	<b>5,032</b>
<b>SEMESTER 2</b>										
Graduation Fee - 2nd Payment		110		110		110		110	110	110
<b>Recurring Fees</b>		497		497		497		497	497	497
Tuition Fees	15	4,455	12	3,564	8	2,376	16	3,200	-	-
Examination Fees	15	450	12	360	8	240	16	480	-	-
Project Paper (1st time)	12	3,564	5	1,485	12	3,564		-	-	-
Examination Fees (Project Paper)	12	360	5	150	12	360		-	-	-
Research Fees		-		-		-		-	2,700	940
Supervision Fee		-		-		-		-	-	1,175
Submission of Dissertation/Thesis - 2nd Payment		-		-		-		-	800	900
<b>Total</b>		<b>9,436</b>		<b>6,166</b>		<b>7,147</b>		<b>4,287</b>	<b>4,107</b>	<b>3,622</b>
<b>SPECIAL SEMESTER</b>										
<b>Recurring Fees</b>		163.50		-		165.5		165.5	-	-
Tuition fees		-		-	8	2,376	3	600	-	-

Examination Fees		-		-	8	240	3	90	-	-
Total		165.50		-		2,779.50		853.50	-	-
SEMESTER 3										
Insurance		-		15		-		15	15	15
Recurring Fees		-		497		-		497	497	497
Tuition Fees		-	9	2,673		-	16	3,200	-	-
Examination Fees		-	9	270		-	16	480	-	-
Project Paper (2nd time)		-	5	1,485		-		-	-	-
Examination Fees (Project Paper)		-	5	150		-		-	-	-
Research Fees		-		-		-		-	1,350	940
Supervision Fee		-		-		-		-	-	1,175
Submission of Dissertation/Thesis – 3rd Payment		-		-		-		-	-	900
Total		-		5,090		-		4,192	1,862	3,527
SEMESTER 4										
Recurring Fees		-		-		-		-	497	-
Tution Fees/ Project Paper (1st time)		-		-		-	14	2,800	-	-
Examination Fees		-		-		-	14	420	-	-
Research Fee		-		-		-		-	1,350	940
Supervision Fee		-		-		-		-	-	1,175
Submission of Dissertation/Thesis – 4th Payment		-		-		-		-	-	900
Total		-		-		-		3,220	1,847	3,015
SEMESTER 5										
Insurance		-		-		-		-	15	15
Recurring Fees		-		-		-		-	497	497
Research Fees		-		-		-		-	1,350	470
Supervision Fee		-		-		-		-	-	1,175
Total		-		-		-		-	1,862	2,157
SEMESTER 6 ONWARDS										
Recurring Fees		-		-		-		-	497	497
Research Fees		-		-		-		-	1,350	470
Supervision Fee		-		-		-		-	-	1,175
Total		-		-		-		-	1,862	2,142
Grand Total		RM16,877.50		RM16,572		RM14,425		RM16,771	RM18,307	RM19,495
Total Credit Hours		45		43		46		65	3	3

**Notes:**

- Fees mentions are effective 2018/2019 untill 2020/2021 academic session.
- All fees are subjected to amendment by the Management of University of Malaya

## NON-CITIZEN (INTERNATIONAL CANDIDATES)

Component of Fees	Master of Real Estate		Master of Project Management		Master of Facilities & Maintenance Management		Master of Architecture		Master of Built Environment	Doctor of Philosophy
	Credit hour	RM 475/ch	Credit Hour	RM 605/ch	Credit hour	RM 475/ch	Credit hour	RM 407/ch	RM950/ ch	RM540/ ch
<b>SEMESTER 1</b>										
Candidature		570		570		570		570	570	950
Alumni Fee		290		209		209		209	209	209
Graduation Fee - 1st Payment		195		195		195		195	195	195
International Students Fee		2,650		2,650		2,650		2,650	2,650	2,650
Other Services Fee		570		570		570		570	570	570
<b>Recurring Fees:-</b>										
<i>(i) Registration</i>		75		75		75		75	75	75
<i>(ii) Service</i>		150		150		150		150	150	150
<i>(iv) Library</i>		450		450		450		450	450	450
<i>(v) Welfare</i>		150		150		150		150	150	150
<i>(vi) Recreation</i>		75		75		75		75	75	75
<i>(vii) ICT</i>		300		300		300		300	300	300
Tuition Fees	18	8,550	12	7,260	18	8,550	16	7,520	2,850	1,620
Examination Fees	18	900	12	600	18	900	16	800	150	150
Research Fee		-		-		-		-	4,205	1,970
Supervision Fee		-		-		-		-	-	2,160
Submission of Dissertation/Thesis - 1st Payment		-		-		-		-	1,330	1,400
<b>Total</b>		<b>14,925</b>		<b>13,335</b>		<b>14,925</b>		<b>13,795</b>	<b>14,010</b>	<b>13,155</b>
<b>SEMESTER 2</b>										
Graduation Fee - 2nd Payment		195		195		195		195	195	195
<b>Recurring Fees</b>		1,200		1,200		1,200		1,200	1,200	1,200
Tuition Fees	15	7,125	12	7,260	8	3,800	16	7,520	-	-
Examination Fees	15	750	12	600	8	400	16	800	-	-
Project Paper (1st time)	12	5,700	5	3,025	12	5,700		-	-	-
Examination Fees (Project Paper)	12	600	5	250	12	600		-	-	-
Research Fees		-		-		-		-	4,205	1,970
Supervision Fee		-		-		-		-	-	2,160
Submission of Dissertation/Thesis - 2nd Payment		-		-		-		-	1,330	1,400
<b>Total</b>		<b>15,570</b>		<b>12,530</b>		<b>11,895</b>		<b>9,715</b>	<b>6,930</b>	<b>6,925</b>
<b>SPECIAL SEMESTER</b>										
<b>Recurring Fees</b>		225		-		225		225	-	-
Tuition fees		-		-	8	3,800	3	1,410	-	-
Examination Fees		-		-	8	400	3	150	-	-
<b>Total</b>		<b>225</b>		<b>-</b>		<b>4,425</b>		<b>1,785</b>	<b>-</b>	<b>-</b>
<b>SEMESTER 3</b>										

<b>Recurring Fees</b>		-		-		-		1,200	1,200	1,200
Tuition Fees		-	9	5,445		-	16	7,520	-	-
Examination Fees		-	9	450		-	16	800	-	-
Project Paper (2nd time)		-	5	3,025		-		-	-	-
Examination Fees (Project Paper)		-	5	250		-		-	-	-
Research Fees		-		-		-		-	2,102.50	1,970
Supervision Fee		-		-		-		-	-	2,160
Submission of Dissertation/Thesis – 3rd Payment		-		-		-		-	-	1,400
<b>Total</b>		-		<b>9,170</b>		-		<b>9,520</b>	<b>3,302.50</b>	<b>6,730</b>
<b>SEMESTER 4</b>										
<b>Recurring Fees</b>		-		-		-		-	1,200	1,200
Tuition Fees/ Project Paper (1st time)		-		-		-	14	6,580	-	-
Examination Fees		-		-		-	14	700	-	-
Research Fee		-		-		-		-	2,102.50	1,970
Supervision Fee		-		-		-		-	-	2,160
Submission of Dissertation/Thesis – 4th Payment		-		-		-		-	-	1,400
<b>Total</b>		-		-		-		<b>7,280</b>	<b>3,305.50</b>	<b>6,730</b>
<b>SEMESTER 5</b>										
<b>Recurring Fees</b>		-		-		-		-	1,200	1,200
Research Fees		-		-		-		-	2,102.50	985
Supervision Fee		-		-		-		-	-	2,160
<b>Total</b>		-		-		-		-	<b>3,302.50</b>	<b>4,345</b>
<b>SEMESTER 6 ONWARDS</b>										
<b>Recurring Fees</b>		-		-		-		-	1,200	1,200
Research Fees		-		-		-		-	2,102.50	985
Supervision Fee		-		-		-		-	-	2,160
<b>Total</b>		-		-		-		-	<b>3,302.50</b>	<b>4,345</b>
<b>Grand Total</b>		<b>RM30,720</b>		<b>RM35,035</b>		<b>RM31,245</b>		<b>RM42,095</b>	<b>RM34,150</b>	<b>RM42,230</b>
<b>Total Credit Hours</b>		<b>45</b>		<b>43</b>		<b>46</b>		<b>65</b>	<b>3</b>	<b>3</b>

**Notes:**

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- All fees are subjected to amendment by the Management of University of Malaya



## MISCELLANEOUS INFORMATION

- (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:-

### FACULTY OF BUILT ENVIRONMENT

- **Deputy Dean (Higher Degree)**  
Tel: 603- 7967 6880 / 5320 / 6899  
[tdit\\_fab@um.edu.my](mailto:tdit_fab@um.edu.my)
- **Assistant Registrar (Higher Degree)**  
Tel: 603- 7967 4449  
[muhammad@um.edu.my](mailto:muhammad@um.edu.my)
- **Program Coordinator, PhD and Master by Research**  
[coordinator\\_pgresearch@um.edu.my](mailto:coordinator_pgresearch@um.edu.my)
- **Program Coordinator, Master of Real Estate**  
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- **Program Coordinator, Master of Project Management**  
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- **Program Coordinator, Master of Facilities and Maintenance Management**  
[coordinator\\_mfmm@um.edu.my](mailto:coordinator_mfmm@um.edu.my)
- **Programme Coordinator, Master of Architecture**  
[coordinator\\_march@um.edu.my](mailto:coordinator_march@um.edu.my)

### ACADEMIC ADMINISTRATION & SERVICE CENTRE (AASC)

- **International Students Service Centre (visa)**  
Tel: 603- 7967 7857/ 7858/ 7859  
e-mail: [iss\\_aasc@um.edu.my](mailto:iss_aasc@um.edu.my)
- **Admission & Registration Section**

Tel: 603- 7967 4404/ 4407/ 4517/ 4528  
e-mail: skp\_aasc@um.edu.my

- **Examination & Graduation Sections**

Tel: 603- 7967 3266/ 3402/ 3450/ 3585/ 7017/ 7018/ 3401/ 4603  
e-mail: spp\_aasc@um.edu.my

- **Scholarship & Sponsorship Unit**

Tel: 603- 7967 6996/ 6999  
e-mail: sponsorship\_aasc@um.edu.my

- **Student & College Financial Management Division**

Tel: 603- 7967 4604/ 4605  
e-mail: Bursar\_student@um.edu.my

**CENTRE FOR RESEARCH SERVICES (PPP)**

Research Management & Innovation Complex  
Tel : 03-7967 4651  
e-mail: pengarah\_ppp\_ippp@um.edu.my  
Website: umresearch.um.edu.my

**STUDENT AFFAIRS DIVISION**

Level 2, Block E, Perdanasiswa Complex  
Tel: 03 7967 3506  
e-mail: hep@um.edu.my

**SECURITY OFFICE (AUXILIARY POLICE)**

Level 2, The Old Bursary Building  
Tel: 03-7967 7070 (Hotline -24 hours)  
e-mail: keselamatan@um.edu.my

**STUDENT HEALTH CLINIC**

Bangunan Siswarama, Faculty of Arts and Social Science  
Tel : 03-7967 6445  
e-mail: kkpum@um.edu.my

**UNIVERSITY OF MALAYA LIBRARY**

University of Malaya  
Tel: 03- 7956 7800  
e-mail: query\_perpustakaan@um.edu.my

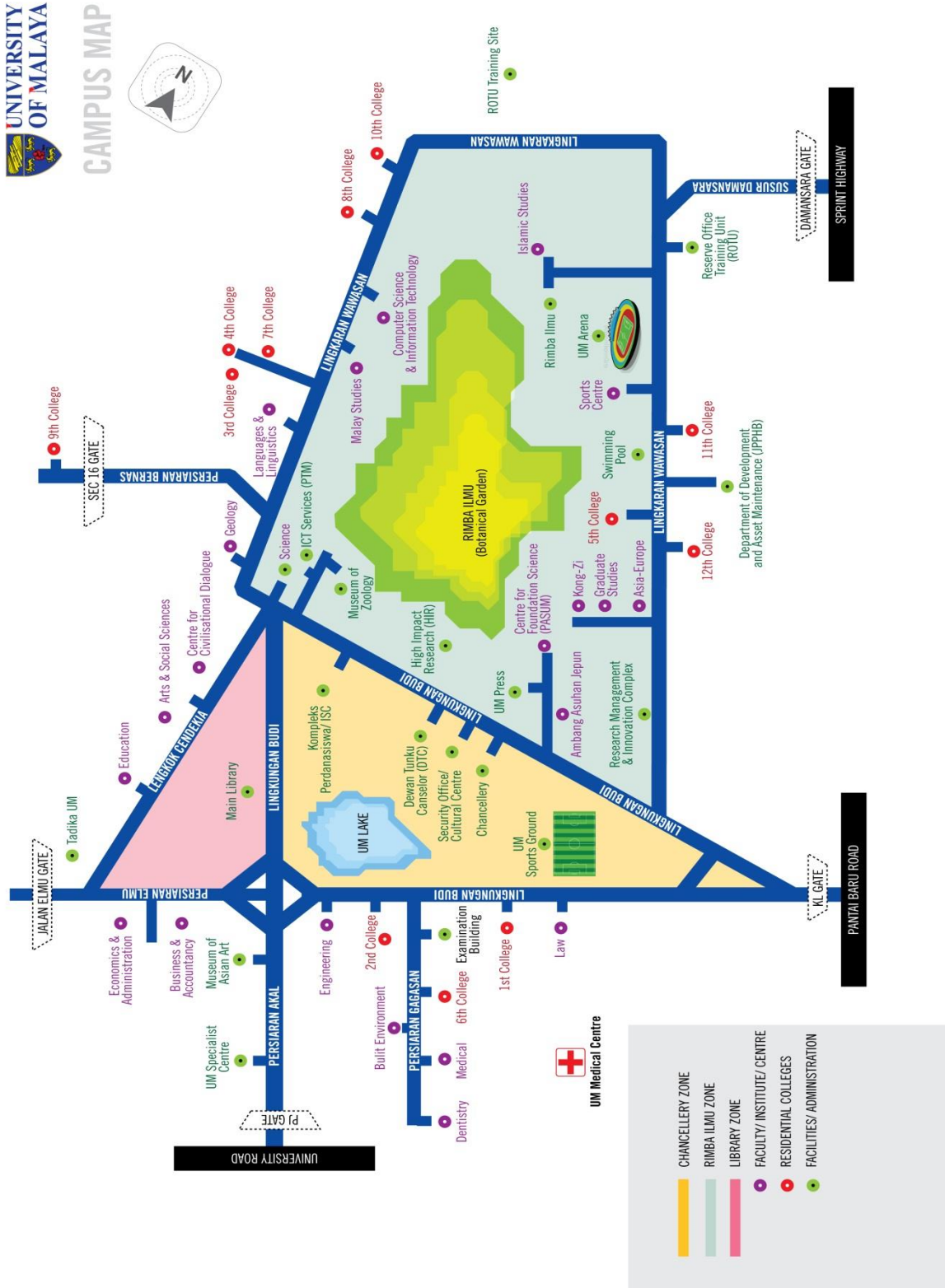
**CENTRE FOR INFORMATION TECHNOLOGY (PTM)**

University of Malaya  
PTM Hotline: 03-7967 4001 (Helpdesk)  
Fax : 03-7967 4160  
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## CAMPUS MAP



*Updated as of 26 February 2021*



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