



UNIVERSITY
OF MALAYA



SESSION
2019
2020

Postgraduates

Handbook

FACULTY OF BUILT ENVIRONMENT

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

DEAN'S MESSAGE



.....Times Higher Education Asia University Rankings 2019 shows UM has also improved from 46 to 38th place.

The latest QS World University Rankings showed that University of Malaya has improved its world ranking from 87 in 2019 to 70 in 2020. With this improvement, UM is now within the top 1% percent of World's Universities.

Assalamu'alaikum Warahmatullahiwabarakatuh and Selamat Sejahtera.

Selamat Datang, Welcome to the Faculty of Built Environment, University of Malaya. In this Faculty we combine top teaching and learning facilities, state-of-the-art technology and stimulating academic programmes to produce highly sought-after graduates in the fields of Architecture, Building Surveying, Quantity Surveying, Real Estate and Urban and Regional Planning.

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

The Bachelors programmes in Architecture, Building Surveying, Quantity Surveying, Real Estate and Urban and Regional Planning are also accredited by relevant local and international professional bodies, which is an indication of our quality.

International relations are of great importance to us and the faculty provides opportunities for international engagement in our teaching, learning and research through established collaborative relationships with leading universities around the world. Students may explore to undertake part of their courses in another country through our established network of international relationships.

The Faculty welcomes you into this vibrant environment where you will be part of a diverse student body in which students are holistically developed as confident, innovative and knowledgeable professionals.

Good Luck and enjoy your studies!



PROFESSOR DR. YAHAYA AHMAD
Dean
Faculty of Built Environment

TABLE OF CONTENTS

Dean's Message	ii
Table of Contents	iii
About the University of Malaya	1
About the Faculty of Built Environment	2 - 3
Vision, Mission and Objectives	4
Administrative Management Chart	5
Academic Calendar 2019/2020 Session	6
Calendar 2019 & 2020	7 - 8
Staff Directories	9 - 38
General Information	39 - 47
Academic Programmes	
Doctor of Philosophy	48 - 51
Master of Built Environment	52 - 55
Master of Facilities and Maintenance Management	56 - 63
Master of Project Management	64 - 72
Master of Real Estate	73 - 79
Master of Architecture	80 - 90
Fees Structure	91 - 95
Miscellaneous Information	96 - 97
Campus Map	98

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 2020 QS World University Rankings, UM ranked at 70th in the world, 19th in Asia, 3rd in Southeast Asia and the highest ranked learning institution in Malaysia

ABOUT THE FACULTY OF BUILT ENVIRONMENT



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

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

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

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

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

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

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

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

FBE's graduates are not only highly demanded in Malaysia but also regularly employed in different parts of the world such as the United Kingdom, Australia, New Zealand, the Middle East countries, Singapore, China, Hong Kong SAR, Brunei and Indonesia. 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 2 postgraduate research programmes namely PhD in Built Environment and Master of Built Environment. Additionally, FBE also offers 5 master by coursework programmes; 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



PROF. DR. YAHAYA AHMAD
Dean



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



ASSOC. PROF. DR. TPr MELASUTRA MD DALI
Deputy Dean
(Postgraduate)



ASSOC. PROF. DR. Ts NAZLI CHE DIN
Deputy Dean
(Research & Development)



DR. NORAFIDA AB GHAFAR
Head
Dept. of Architecture



DR. SR Ts FARID WAJDI AKASHAH
Head
Dept. of Building Surveying



DR. Sr HASNIYATI HAMZAH
Head
Dept. of Estate Management



DR. Sr SAIPOL BARI ABD KARIM
Head
Dept. of Quantity Surveying



DR. TPr GOH HONG CHING
Coordinator
Urban & Regional Planning
Programme



MOHD NORAZLIN MANSOR
Assistant Registrar



FAKHRIATUL AZHAN ABD AZIZ
Senior Assitant Registrar

ACADEMIC CALENDAR 2019/2020 SESSION

SEMESTER I

Orientation Week	1 week*	01.09.2019 – 08.09.2019
Lectures	8 weeks*	09.09.2019 – 03.11.2019
Mid Semester Break I	1 week*	04.11.2019 – 10.11.2019
Lectures	6 weeks	11.11.2019 – 22.12.2019
Revision Week	1 week*	23.12.2019 – 29.12.2019
Examination Semester I	3 weeks*	30.12.2019 – 19.01.2020
Semester Break	4 weeks*	20.01.2020 – 16.02.2020

24 weeks

SEMESTER II

Lectures	9 weeks	17.02.2020 – 19.04.2020
Mid Semester Break II	1 week	20.04.2020 – 26.04.2020
Lectures	5 weeks*	27.04.2020 – 31.05.2020
Revision Week	1 week*	01.06.2020 – 07.06.2020
Examination Semester II	3 weeks	08.06.2020 – 28.06.2020

19 weeks

SEMESTER BREAK

Semester Break	11 weeks	29.06.2020 – 13.09.2020
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SPECIAL SEMESTER

Lectures	7 weeks*	29.06.2020 – 16.08.2020
Examination Special Semester	1 week*	17.08.2020 – 23.08.2020
Special Semester Break	3 weeks*	24.08.2020 – 13.09.2020

11 weeks

Public Holiday (Malaysia)

Awal Muharam (01 September 2019)
 Yang dipertuan Agong's Birthday (9 September 2019)
 Malaysia Day (16 September 2019)
 Deepavali (27 Oktober 2019)
 Birthday of Prophet Muhammad s.a.w (09 November 2019)
 Christmas (25 December 2019)
 New Year (1 January 2020)
 Chinese New Year (25 & 26 February 2020)
 Federal Territory Day (01 February 2020)

Thaipusam (08 February 2020)
 Labour Day (01 May 2020)
 Wesak Day (07 May 2020)
 Nuzul Al-Quran (10 May 2020)
 Eid al-Fitr (24 & 25 May 2020)
 Eid al-Adha (31 July 2020)
 Awal Muharam (20 August 2020)
 National Day (31 August 2020)

CALENDAR 2019 & 2020

{2019}

JANUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
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FEBRUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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{2020}

JANUARY

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FEBRUARY

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MARCH

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APRIL

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AUGUST

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DECEMBER

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**UNIVERSITI
MALAYA**

STAFF DIRECTORIES

DEAN'S OFFICE



PROFESSOR DR. YAHAYA AHMAD D.J.N (PP)

*PhD (Conservation Management), University of Liverpool, UK
MA (Architecture), Washington University, USA
MConst Mgmt., Washington University, USA
BA, Washington University, USA
Registered Conservator, MRISM*

Dean

03 – 7967 5395

yahaya@um.edu.my



NORHAYATI BINTI MAT

Office Secretary

03 – 7967 5395

yatiey@um.edu.my



INTAN SHAFURA BINTI ABDULLAH

*B.Corporate Admin, MARA University of Technology (UiTM)
Dip.Public Admin, MARA University of Technology (UiTM)*

Assistant Administrative Officer

03 – 7967 6899

intansha@um.edu.my



NORHASANAH BINTI SUMADI

Administrative Assistant (Financial)

03 – 7967 5334

hasanah2004@um.edu.my



MOHD NAZRI ABU SAMAH

Administrative Assistant (Clerical and Operational)

03 – 7967 6807

nazri7069@um.edu.my



ZAINAL BIN MUSA

Senior Operational Assistant

03 – 7967 7955

zaenal@um.edu.my



MOHAMMAD BIN RENTAH

Operational Assistant

03 – 7967 7955

zezul@um.edu.my

DEPUTY DEAN (POSTGRADUATE) OFFICE



ASSOCIATE PROFESSOR DR. TPr MELASUTRA MD DALI

*PhD (Urban Planning), University of Melbourne, AUS
M. Sc. (Urban and Regional Planning), University of Wisconsin, Madison, USA
BSc. (Urban Studies & Envi. Planning), University of Wisconsin, Green Bay, USA
Registered Town Planner of the Board of Town Planners Malaysia
Corporate Member of the Malaysian Institute of Planners,
Member of Malaysian Social Impact Assessment Association*

Deputy Dean (Postgraduate)

03 – 7967 6880

melasutr@um.edu.my



MOHD NORAZLIN BIN MANSOR

*MA(Communication), Universiti Putra Malaysia (UPM)
B.Comm, Universiti Putra Malaysia (UPM)
Dip.Management, Universiti Teknologi Malaysia (UTM)*

Assistant Registrar

03-7967 4449

muhammad@um.edu.my



AFIDAH BINTI ADIAT

Office Secretary

03 – 7967 6880

cdah@um.edu.my



NORIZAN BINTI ABD. RAJI

Senior Administrative Assistant (Clerical and Operational)

03 – 7967 5320

norizanabd@um.edu.my



SILA A/P BALAKERSNAN

B.Public Management, Universiti Utara Malaysia (UUM)

Administrative Assistant (Clerical and Operational)

03 – 7967 5320

sil@um.edu.my

DEPUTY DEAN (UNDERGRADUATE) OFFICE



ASSOCIATE PROFESSOR DR. Sr YASMIN MOHD ADNAN

PhD (Urban Land Economy), UM
MBA, UiTM
BSc. (Hons) (Land Management), University of Reading, UK
Registered Valuer, Estate Agent & Property Manager
FRISM, MRICS, MMIPFM

Deputy Dean (Undergraduate)

Tel: 03-7967 5372

e-mail: yasmin_alambina@um.edu.my



FAKHRIATUL AZHAN BINTI ABD AZIZ

MBA, Universiti Utara Malaysia (UUM)
BBA (Human Resource Management), MARA University of Technology (UiTM)

Senior Assistant Registrar

03 - 7967 5394

fakhriatulazhan@um.edu.my



SALMIZAH BINTI SAMSUDIN

Dip. Office Management & Technology, Universiti Teknologi MARA (UiTM)

Office Secretary

03 - 7967 5372

miza_s@um.edu.my

DEPUTY DEAN (RESEARCH & DEVELOPMENT) OFFICE



ASSOCIATE PROFESSOR DR. TsNAZLI CHE DIN

PhD (Engineering), Oita University, Japan
M.Eng. (Architecture), Oita University, Japan
B.Eng (Architecture), Oita University, Japan

Deputy Dean (Research & Development)

03 – 7967 7673

nazlichedin@um.edu.my



NABILAH BINTI AHMAD

Office Secretary

03 – 7967 7673

nabilahahmad@um.edu.my

RESEARCH & PUBLICATIONS



MOHD NORAZLIN BIN MANSOR

MA (Communication), Universiti Putra Malaysia (UPM)
B.Comm, Universiti Putra Malaysia (UPM)
Dip.Management, Universiti Teknologi Malaysia (UTM)

Assistant Registrar

03-7967 4449

muhammad@um.edu.my



NUR SHUHADA HILAL

BSc (Physics), MARA University of Technology (UiTM)
Dip.Sc (Physics), MARA University of Technology (UiTM)

Assistant Science Officer

03- 7967 6889

nurshuhadahilal@um.edu.my



NURULFAZILA MOHD SAJUTI

BSc (Applied Chemistry), MARA University of Technology (UiTM)
Dip.Science, MARA University of Technology (UiTM)

Assistant Science Officer

03- 7967 7610

nurulms@um.edu.my

DEVELOPMENT



FAKHRIATUL AZHAN BINTI ABD AZIZ

MBA, Universiti Utara Malaysia (UUM)
BBA (Human Resource Management), MARA University of Technology (UiTM)

Senior Assistant Registrar

03 - 7967 5394

fakhriatulazhan@um.edu.my



AZZYATY BINTI RAZALI

BSc (Computer), Universiti Teknologi Malaysia (UTM)
Dip.Information Technology, Infotec MARA

Senior Assistant Information Technology Officer

03 – 7967 6857

azzyaty@um.edu.my



MOHD FARHAN BIN IBRAHIM

Assistant Information Technology Officer
03- 7967 4498
frhan@um.edu.my



MOHD ANNUAR BIN JA'AFAR

Assistant Information Technology Officer
03- 7967 4498
annuar@um.edu.my



MUHAMMAD DAIM ZUHAIR CHE MAT

*BSc (Hons.) Architecture, Universiti Kebangsaan Malaysia
Dip. Architecture, PolIPD*

Assistant Architecture Officer
03-7967 6857



SYEDI BIN MUHAMAD

Assistant Engineer
03-7967 5374
syedi@um.edu.my



AHMAD FAUZI BIN MOHAMMAD ASHRI

Assistant Engineer
03 – 7967 6887
ahmadfauzi@um.edu.my

DEPARTMENT OF ARCHITECTURE

HEAD OF DEPARTMENT



DR. NORAFIDA AB. GHAFAR

*PhD (Sustainable Architecture), University of Nottingham, UK
MA (Urban Design), Oxford Brookes University, UK
Pg.Dipl. (Architecture), Oxford Brookes University, UK
Pg.Dipl. (Urban Design), Oxford Brookes University, UK
Dipl. (Architecture), Institute Technology Mara*

Tel: 03- 7967 5392

E-mail: norafida@um.edu.my

PROFESSOR



PROFESSOR DR. YAHAYA AHMAD, D.J.N (PP)

*PhD (Conservation Management), University of Liverpool, UK
MA (Architecture), Washington University, USA
MConst Mgmt., Washington University, USA
BA, Washington University, USA
Registered Conservator, MRISM*

Tel: 03-7967 5395

E-mail: yahaya@um.edu.my

ASSOCIATE PROFESSORS



ASSOCIATE PROFESSOR DR. NAZIATY MOHD YAACOB

*PhD (Universal Design), University of Salford, UK
MSc (Architecture), University of College London, UK
PG Dipl. (Architecture), North London Polytechnic, UK
BA(Architecture), Leicester Polytechnic, UK
Dipl. (Architecture), University Technology Malaysia
LAM/RIBA Part I & II*

Tel: 03-7967 5396

E-mail: naziaty@um.edu.my



ASSOCIATE PROFESSOR DR. HAZREENA HUSSEIN

*PhD (Landscape Architecture), Edinburgh College of Art, UK
MA (Landscape Research), Manchester Metropolitan University, UK
PG Dipl. (Landscape Architecture), University of Sheffield, UK
BA (Hons) Landscape Design, Manchester Metropolitan University, UK
Dipl. Seni (Rupabumi), Institute Technology Mara*

Tel: 03-7967 7674

E-mail: reenalambina@um.edu.my



ASSOCIATE PROFESSOR DR. Ts NAZLI CHE DIN

*PhD (Engineering), Oita University, JAPAN
M.Eng. (Architecture), Oita University, JAPAN
B.Eng (Architecture), Oita University, JAPAN*

Tel: 03-7967 7602

E-mail: nazlichedin@um.edu.my

ASSOCIATE PROFESSORS (INDUSTRY)



ASSOCIATE PROFESSOR (INDUSTRY) Ar SARLY ADRE SARKUM

*B.Arch Hons, Universiti Sains Malaysia
B.A. Arch Hons, Liverpool University, UK
LAM Professional Architect*

Tel: 03-8688 3830

E-mail: sarly@um.edu.my



ASSOCIATE PROFESSOR (INDUSTRY) HIROYUKI SUBE

*MArch, University College London (Bartlett), UK
BArch (Hons), Tokyo University of Science
LAM I & II*

Tel: 03-7967 5373 / 5216

E-mail: hiroyuki.sube@um.edu.my

SENIOR LECTURERS



DR. ZUNAIBI ABDULLAH

*PhD (Architecture Education), University of Nebraska, USA
M.Arch, University of Nebraska, USA
B.Sc (Architecture), University of Nebraska, USA*

Tel: 03-7967 5396

E-mail: bonn@um.edu.my



ATI ROSEMARY MOHD ARIFFIN

*MA (Urban Design), Oxford Brookes University, UK
Pg.Dip (Architecture), Oxford Brookes University, UK
Pg.Dipl. (Urban Design), Oxford Brookes University, UK
Dipl. (Architecture), Institute Technology Mara*

Tel: 03-7967 5393

E-mail: aa_alambina@um.edu.my



DR. Ar KONG SENG YEAP

*PhD (Architecture), University of Malaya
B.Arch, University of Malaya
B.Sc (Architecture), University of Malaya
LAM/RIBA Part I & II*

Tel: 03-7967 7613

E-mail: k_sengyeap@um.edu.my



DR. MUHAMMAD AZZAM ISMAIL

*PhD (Built Environment), University of New South Wales, AUS
BArch (Hons), University of Malaya
BArch, University of Glasgow, UK
LAM/RIBA I & II*

Tel: 03-7967 5373 / 7613

E-mail: ma.ismail@um.edu.my



DR. MASTURA ADAM

*PhD (Urban Design), University of Salford, UK
MA (Urban Design), Oxford Brookes University, UK
PG Dipl. (Architecture), Oxford Brookes University, UK,
Dipl. (Architecture), Institute Technology Mara*

Tel: 03-7967 5331

E-mail: mastura@um.edu.my



DR. Ar HELENA AMAN HASHIM

*PhD, University of Malaya
B.Arch, University of Miami, US
APAM, LAM Professional Architect*

Tel: 03-7967 6839

E-mail: helena@um.edu.my



Ar ANIZA ABDUL AZIZ

*B.Arch, Louisiana State University, USA
APAM, LAM Professional Architect*

Tel: 03-7967 4586

E-mail: anizaziz@um.edu.my



DR. HAZRINA HAJA BAVA MOHIDIN

*PhD (Architecture), University Technology of Malaysia (UTM)
B.Arch, University Rechnology of Malaysia (UTM)*

Tel: 03-7967 5392

E-mail: hazrinahaja@um.edu.my



DR. ASRUL MAHJUDDIN RESSANG AMINUDDIN

*M.Sc (Construction Management), Institute Technology Mara
Pg.Dipl. (Architecture), Polytechnic of Central London, UK
Canterbury College of Art (RIBA Part I)
Dipl. (Architecture), University Technology Malaysia*

Tel: 03-7967 2454

E-mail: asrilmahjuddin@um.edu.my

LECTURERS



ASRUL SANI ABDUL RAZAK

*M.Sc (Design & Digital Media), University of Edinburgh, UK
MA (Hons), University of Edinburgh, UK
B.Arch, University of Edinburgh, UK
LAM/RIBA Part I & II*

Tel: 03-7967 5217

E-mail: asrulsani@um.edu.my

EXPERTS



Ar ZURAINA LEILI AWALUDDIN

*B.Arch, University of Newcastle, UK
Dipl. (Architecture), University Technology Malaysia
APAM, LAM Professional Architect*

Tel: 03-7967 6825

E-mail: zurainaleily@um.edu.my

ADJUNCT PROFESSOR



PROFESSOR (DR.) Ar HIJJAS KASTURI

*Honorary Doctorate Member, University of Malaya
BSc.(Architecture), University of Adelaide, AUS
B.(Architecture), University of Melbourne, AUS
Diploma (Town and Regional Planning), University of Melbourne, AUS*

Principal of Hijjas Kasturi Associates Sdn. Bhd. Malaysia
23rd Floor Menara KH, Jalan Sultan Ismail
50250 Kuala Lumpur

EXTERNAL ASSESSORS



Ar DAVID TEH

Bachelor of Architecture, University of Melbourne

Director of Pakatan Reka Arkitek Sdn Bhd
44 Persiaran 65C
Pekeliling Business Centre
Off Jalan Pahang Barat
53000 Kuala Lumpur

ADMINISTRATIVE STAFF



HASNITA BINTI MOHD ZHARI

Senior Administrative Assistant (Clerical and Operational)
03 – 7967 6899
hasrh@um.edu.my

DEPARTMENT OF BUILDING SURVEYING

HEAD OF DEPARTMENT



DR. Sr Ts FARID WAJDI AKASHAH

*PhD (Fire Risk Assessment), Ulster University, UK
B (Hons) (Building Surveying), University of Malaya
MRISM*

Tel: 03-7967 6874/ 6813

e-mail: faridakashah@um.edu.my

PROFESSOR



PROFESSOR DR. Sr Ts AZLAN SHAH ALI

*PhD Built Environment (Building Refurbishment), Universiti Teknologi MARA
MSc (Real Estate & Property Mgmt), University of Salford, UK
MSc (Integrated Construction Project Management), Universiti Teknologi MARA
B (Hons) (Building Surveying), Universiti Teknologi MARA
Prof. Dip. (Property Management Valuation Surveying), RISM
Dip (Estate Management), Universiti Teknologi MARA
Chartered Surveyor, P.Tech. (Building & Construction)
FRISM, FRICS, MSET*

Tel: 03-7967 4494

e-mail: asafab@um.edu.my

ASSOCIATE PROFESSOR



ASSOCIATE PROFESSOR Sr DR. NORHAYATI MAHYUDDIN

*PhD (Indoor Air Quality), University of Reading, UK
MSc (Integrated Construction Project Management), Universiti Teknologi MARA
BSc (Hons) (HBP-Architecture), University Science Malaysia
MISIAQ, MRISM, MBEng*

Tel: 03-7967 6860

e-mail: hayati@um.edu.my



ASSOCIATE PROF. DR. Sr Ts SYAHRUL NIZAM KAMARUZZAMAN

*PhD (Building), University of Manchester, UK
MSc (Building Technology), University Science Malaysia
BSc (Hons) (HBP), University Science Malaysia
Cert. Building Services Eng. (POLIMAS)
Reg. Build. Surveyor, P. Tech. (Building & Construction)
FRISM, MSET, MIACSIT*

Tel: 03-7967 6833

e-mail: syahrulnizam@um.edu.my

SENIOR LECTURERS



DR. Sr ZURAINI MD. ALI

*PhD (Architectural Conservation), University of Sheffield, UK
MSc [Construction Management (Risk) with Distinction], Glasgow Caledonian University, UK
BSc (Architectural Studies), University of Illinois at Urbana-Champaign, USA
Registered Conservator, MRISM, MICOMOS*

Tel: 03-7967 4588

e-mail: zuraini_mdali@um.edu.my



DR. Sr NOR HANIZA ISHAK

PhD (Architecture), Universiti Kebangsaan Malaysia
MSc (Integrated Construction Project Management), Universiti Teknologi MARA
B (Hons) (Building Surveying), Universiti Teknologi MARA
Dip (Architecture), Universiti Teknologi MARA
MRISM, MSET

Tel: 03-7967 6858

e-mail: niza_alambina@um.edu.my



DR. Sr RODIAH ZAWAWI

PhD (Construction), Heriot-Watt University, UK
M. Civ.Eng (Env.Eng), University of Technology Malaysia
B. Civ.Eng (Hons), University of Technology Malaysia
MRISM

Tel: 03-7967 4450

e-mail: rodiah31@um.edu.my



DR. Sr BRENNAN BRIT ANAK KAYAN

PhD (Construction Management), Heriot-Watt University, UK
MSc (Building), University of Malaya
BSc (Hons) (Building Surveying), University of Malaya
Registered Conservator, MRISM

Tel : 03-7967 6885

e-mail: brit284@um.edu.my



DR. MOHAMAD RIZAL BAHARUM

PhD (Facilities Management), Liverpool John Moores University, UK
MSc (Facilities Management), Heriot-Watt University, UK
B (Hons) (Building Surveying), University of Malaya
Dip (QS), University of Technology Malaysia

Tel : 03-7967 7608

e-mail: mrizal@um.edu.my



DR. AU YONG CHEONG PENG

PhD (Facilities Management), University of Malaya
B (Hons) (Building Surveying), University of Malaya
Graduate Member RISM

Tel: 03-7967 6822

e-mail: auyongcp@um.edu.my



DR. ZAHIRUDDIN FITRI ABU HASSAN

PhD (Civil Engineering), University of Dundee, UK
MSc (Building Surveying), University of the West of England, UK
B (Hons) (Building Surveying), University of Malaya
Dip (QS), University of Technology Malaysia
Graduate Member RISM

Tel: 03-7967 7601

e-mail: zahiruddin@um.edu.my



DR. NIK ELYNA MYEDA NIK MAT

PhD (Facilities Management), University College London, UK
MSc (Building), University of Malaya
B (Hons) (Building Surveying), University of Malaya
Graduate Member RISM

Tel: 03-7967 7022/2455

e-mail: elyna@um.edu.my



DR. NOOR SUZAINI BINTI MOHAMED ZAID

PhD (Planning and Development), University of New South Wales, AUS
MSc (Building and Urban Design Development), University College London, UK
B (Hons) (Building Surveying), University of Malaya
Graduate Member RISM

Tel: 03-7967 7603

e-mail: suzaini_zaid@um.edu.my



DR. SHIRLEY CHUA JIN LIN

PhD (Asset & Facilities Management), University of Malaya
B (Hons) (Building Surveying), University of Malaya
Graduate Member RISM

Tel : 03-7967 7952

e-mail: shirleychua88@um.edu.my



DR. PAYAM SHAFIGH

PhD (Structural Engineering & Materials), University of Malaya
MSc (Structural Engineering), University of Mazandaran, Iran
BSc (Civil Engineering), University of Mazandaran, Iran

Tel: 03-7967 2464

e-mail: pshafigh@um.edu.my



DR. NUR FARHANA AZMI

PhD (Building Control & Performance), University of Malaya
B (Hons) (Building Surveying), University of Malaya
Graduate Member RISM

Tel : 03-7967 5391

e-mail: farhanazmi@um.edu.my

LECTURERS



Dr. Sr RAHA SULAIMAN

PhD (Building Services), University of Malaya
MSc (Building Services Eng. Management), Heriot-Watt University, UK
B (Hons with Distinction)(Bldg. Surveying), University of Malaya
Dip (Architecture), Universiti Teknologi MARA
MRISM

Tel : 03-7967 6836

e-mail: rahasulaiman@um.edu.my



IMADUDDIN ABDUL HALIM

MSc (Building Technology), University Science Malaysia
BSc (Hons) (Building Technology), University Science Malaysia

Tel: 03-7967 2458

e-mail: imaduddin@um.edu.my

EXTERNAL ASSESSORS



PROFESSOR DR. MICHAEL RILEY

*Doctor of Philosophy (Liverpool John Moores University, UK) 2013
Master of Science (Building Services Engineering)(Heriot-Watt University, UK) 1993
Bachelor of Science in Building Surveying (Salford University, UK) 1986
FRICS CEnv FRISM SFHEA*

Head of Department of Built Environment
Department of the Built Environment
Faculty of Engineering & Technology
Liverpool John Moores University
Byrom Street, Liverpool L3 3AF
United Kingdom



MOHAMMAD SHAHRIZAL BIN MOHAMMAD IDRIS

*MSc. (Facilities Management) (Universiti Teknologi Malaysia)
Bachelor Eng. (Hons.) (Mechanical) (Universiti Teknologi Malaysia)
Certified British Institute of Facilities Management (CBIFM), UK
CERTIFICATION Certified Energy Manager, Energy Commission Malaysia
Certified Member British Institute of Facilities Management (BIFM)
Ordinary Member Malaysian Association of Facility Management (MAFM)
Ordinary Member Harvard Business School Alumni Club Malaysia
Graduate Member Board of Engineers Malaysia (BEM)
Professional Member, International Facility Management Association (IFMA)*

Director,
GFM Services Berhad,
257A, 1st Floor, Jalan Bandar 12,
Taman Melawati,
53100 Kuala Lumpur

ADMINISTRATIVE STAFF



JUNITA BINTI HALIM

Administrative Assistant (Clerical and Operational)
Tel: 03-7967 6856
e-mail: june1981@um.edu.my

DEPARTMENT OF QUANTITY SURVEYING

HEAD OF DEPARTMENT



DR. Sr SAIPOL BARI ABD KARIM, PQS
PhD (Project Risk Management), Manchester Business School, UK
MSc Management of Project, University of Manchester, UK
Bachelor of Quantity Surveying (Hons), University of Malaya
Reg. Professional QS (BQSM), FIVMM, MRISM, MAPM (UK), MACPM
Tel : 03-7967 5375/6834
e-mail: saipolbari@um.edu.my

HONORARY PROFESSOR



PROFESSOR DR. HAMZAH ABDUL RAHMAN
PhD (Quality & Project Management), UMIST, UK
MSc Construction Management, University of Florida
BSc. Construction Technology, Center Missouri State University
Diploma in Building, Universiti Teknologi MARA
FRICS, MCIOB, RISM, MIVMM
Tel : 03-7967 5252/3202
e-mail : arhamzah@um.edu.my / arhamzah@gmail.com

ASSOCIATE PROFESSORS



ASSOCIATE PROFESSOR DR. Sr FAIZUL AZLI MOHD RAHIM, PQS
PhD (Life Cycle Risk), University of Liverpool, UK
MSc Information Technology in Property & Construction, University of Salford, UK
BSc (Hons) Quantity Surveying, University of Salford, UK
Reg. Professional QS (BQSM), MRISM, MIVMM, MCIOB
Tel : 03-7967 5331
e-mail : azli@um.edu.my



ASSOCIATE PROFESSOR DR. Sr HAFEZ SALLEH, CQS
PhD (Strategic IT Management), University of Salford, UK
MSc (Information Technology in Property & Construction), University of Salford, UK
BSc (Hons) Quantity Surveying, University of Salford, UK
Diploma in Quantity Surveying, Universiti Teknologi MARA
Reg. Professional QS (BQSM), MRISM
Tel : 03-7967 4476
e-mail : hafez@um.edu.my

SENIOR LECTURERS



DR. Sr ZULKIFLEE ABDUL SAMAD, PMP
PhD (Project Management), University of Cambridge, UK
MSc (Project Management), Universiti Sains Malaysia
MBA ESG Paris, France
MAppMgt (Architecture), University of Newcastle, Australia
B. (Hons) Quantity Surveying, Universiti Teknologi MARA
Proj. Mgmt. Professional (PMP), FAPM (UK), MRICS, MRISM, MCIOB
Tel : 03-7967 4474
e-mail : zulkiflee1969@um.edu.my



DR. Sr MOHD SUHAIMI MOHD DANURI, CQS

PhD (Business Law), Universiti Putra Malaysia
Master of Construction Law, University of Melbourne, Australia
B (Hons) Quantity Surveying, Universiti Teknologi Malaysia
Diploma in Quantity Surveying, Universiti Teknologi Malaysia
Reg. Consultant QS (BQSM), ACIArb, MRISM, MIVMM

Tel : 03-7967 4473

e-mail : msuhaimi@um.edu.my



DR. NORHANIM ZAKARIA

PhD (Real Estate/Project Management), Universiti Teknologi Malaysia
MSc (Construction Management), Universiti Teknologi Malaysia
B (Hons) Quantity Surveying, Universiti Teknologi Malaysia
Diploma in Quantity Surveying, Universiti Teknologi Malaysia
Reg. Provisional QS (BQSM), MIVMM, Graduate Member (RISM)

Tel : 03-7967 6875

e-mail : norhanimz@um.edu.my



DR. OTHMAN MOHAMED, PQS

PhD (Knowledge Management), University of Salford, UK
MSc Building Technology, Universiti Sains Malaysia
MSc Information Management, Universiti Teknologi Malaysia
B (Hons) Quantity Surveying, Universiti Teknologi Malaysia
Diploma in Quantity Surveying, Universiti Teknologi MARA
Reg. Professional QS (BQSM), Cert. in Edu (MPKB), Cert. in Value Mgmt (CIDB), MIVMM

Tel : 03-7967 5379

e-mail : othmanmohamed@um.edu.my



DR. MAHANIM HANID

PhD (Construction Management), University of Salford, UK
MSc Building Technology, Universiti Sains Malaysia
B (Hons) Quantity Surveying, Universiti Malaya
Diploma in Quantity Surveying, Universiti Teknologi Malaysia
MIVMM, Graduate Member (RISM)

Tel : 03-7967 6872

e-mail : mahanim@um.edu.my



DR. Sr UMI KALSUM ZOLKAFLI @ ZULKIFLY, CQS

PhD (Building Conservation), Universiti Teknologi MARA
MSc Construction Contract Management, Universiti Teknologi Malaysia
B. (Hons) Quantity Surveying, Universiti Teknologi MARA
Diploma in Quantity Surveying, Universiti Teknologi MARA
Reg. Consultant QS (BQSM), FRISM

Tel : 03-7967 7604

e-mail : umi@um.edu.my



DR. NURSHUHADA ZAINON

PhD (IT Management), Universiti Malaya
MSc Construction Economics & Management, University College London, UK
B. (Hons) Quantity Surveying, Universiti Malaya
Reg. Provisional QS (BQSM), Graduate Member (RISM)

Tel : 03-7967 2461

e-mail: zshuhada@um.edu.my



DR. Sr KHO MEI YE, PQS

PhD (Project Management), Universiti Malaya
MSc (Building), Universiti Malaya
B. (Hons) Quantity Surveying, Universiti Malaya
Reg. Professional QS (BQSM), MRISM

Tel : 03-7967 2457

e-mail: meiye@um.edu.my

**DR. NUR MARDHIYAH AZIZ**

*PhD (IT in Construction), Universiti Malaya
MSc Facilities Management, Universiti Teknologi MARA
BSc (Hons) Housing, Planning & Building - Quantity Surveying, Universiti Sains Malaysia
Reg. Provisional QS (BQSM)*

Tel : 03-7967 4587

e-mail: nurmardhiyah@um.edu.my

**DR. LOO SIAW CHUING**

*PhD (Project & Construction Management), Universiti Malaya
MSc (Building), Universiti Malaya
B (Hons) Quantity Surveying, Universiti Malaya
Reg. Provisional QS (BQSM)*

Tel : 03-7967 7959

e-mail : siawchuing@um.edu.my

LECTURERS**IMRAN ARIFF YAHYA, PQS**

*MSc (Building), Universiti Malaya
BSc (Hons) Quantity Surveying, University of Salford, UK
Reg. Professional QS (BQSM), MIVMM*

Tel : 03-7967 6846

e-mail : imranariff@um.edu.my

**MAZNAH OTHMAN**

*MSc (Project Management), Universiti Sains Malaysia
BSc (Hons) Housing, Planning & Building, Universiti Sains Malaysia
MIVMM*

Tel : 03-7967 6847

e-mail : maznah_o@um.edu.my

EXTERNAL ASSESSORS**PROFESSOR DR. LING YEAP YNG, FLORENCE**

*PhD, (1998) National University of Singapore
MSc (Intl Constrn Mngt) (Guthrie Gold Medal)
BSc (Building) (First Class Hons), (1987) National University of Singapore
Member of the Royal Institution of Chartered Surveyors
Fellow of Singapore Institute of Surveyors and Valuer*

Department of Building
School of Design and Environment
National University of Singapore (NUS)
e-mail: bdglyy@nus.edu.sg

**Sr JAILANI BIN JASMANI, CQS**

*Bachelor of Applied Science (Quantity Surveying), WAIT
Reg. Consultant QS (BQSM), MRISM, MICEC, MMWA*

Director, JUB Central Sdn Bhd (Consultant QS Practice)
Director, Perunding Maju Arah Sdn Bhd (Multi-Disciplinary Practice)
e-mail: jailani.jubc@gmail.com

ADMINISTRATIVE STAFF



NORLEELA BINTI AHMAD

Senior Administrative Assistant (Clerical and Operational)

Tel : 03 – 7967 6841

e-mail: norlela_a@um.edu.my

DEPARTMENT OF ESTATE MANAGEMENT

HEAD OF DEPARTMENT



DR. Sr HASNIYATI HAMZAH

PhD (Property), University of Auckland, NZ
Master (Property Law), University of Aberdeen, UK
BSc. (Land Management), University of Reading, UK
MRISM, MMIPFM

Tel: 03-7967 5389

e-mail: hasniyati@um.edu.my

ASSOCIATE PROFESSORS



ASSOCIATE PROFESSOR Sr DR. ANUAR ALIAS

PhD (Property Development and Environment), UM
MSc (Project Management), USM
B.Surv. (Hons) (Property Management), UTM
Diploma (Valuation), UTM
PGCert. (Professional Development), UCONN
Registered Valuer & Estate Agent
MRISM, MMIPPM

Tel: 03-7967 6835

e-mail: anuar_a@um.edu.my



ASSOCIATE PROFESSOR DR. Sr NOOR ROSLY HANIF

PhD (Negotiation and Land Development), University of Dundee, UK
Masters Land Economy (Property Investment & Development), University of Aberdeen, UK
B. (Hons) (Estate Management), UiTM
Diploma (Estate Management), UiTM
Registered Valuer, Estate Agent & Property Manager
FRISM, MRICS

Tel: 03-7967 6827

e-mail: nroslyhanif@um.edu.my



ASSOCIATE PROFESSOR DR. Sr WAN NOR AZRIYATI WAN ABD. AZIZ

PhD (Housing and Planning), University of Dundee, UK
Masters (Environment), UPM
B. (Hons) (Estate Management), UiTM
Diploma (Estate Management), UiTM
Registered Valuer, Estate Agent & Property Manager
MRISM

Tel: 03-7967 4499

e-mail: wyati@um.edu.my



ASSOCIATE PROFESSOR DR. Sr ROSLI SAID

PhD (Real Estate Finance), University of Ulster, UK
MSc. (Urban Land Appraisal), University of Reading, UK
BSc. (Hons) (Land Management), University of Reading, UK
Diploma (Property Valuation), UTM
Chartered Surveyor, Registered Valuer, Estate Agent & Property Manager
MRISM, MMIPFM, MRICS

Tel: 03-7967 5378/ 6886

e-mail: rosli_alambina@um.edu.my



ASSOCIATE PROFESSOR DR. Sr YASMIN MOHD ADNAN

PhD (Urban Land Economy), UM
MBA, UiTM
BSc. (Hons) (Land Management), University of Reading, UK
Registered Valuer, Estate Agent & Property Manager
FRISM, MRICS, MMIPFM

Tel: 03-7967 6845

e-mail: yasmin_alambina@um.edu.my

SENIOR LECTURERS



DR. Sr AINORIZA MOHD. AINI

*PhD (Property Investment), Kingston University, UK
MSc. (Corporate Real Estate Finance & Strategy), City University of London, UK
B. (Hons) (Estate Management), UM
Reg. Probationary Valuer, MRISM*

Tel: 03-7967 5396

e-mail: ainoriza@um.edu.my



DR. Sr ZAFIRAH AL SADAT BINTI ZYED

*PhD (Housing Studies), UM
B.(Hons) (Estate Management), UM
Reg. Probationary Valuer, MRISM, MMIPFM*

Tel: 03-7967 2454

e-mail: zafirahzyed@um.edu.my



DR. Sr ZAHIRIAH YAHYA

*PhD (Urban Land Economy), UM
MSc. (Facilities Management), UiTM
B.(Hons) (Estate Management), UiTM
Diploma (Estate Management), UiTM
Registered Valuer, Estate Agent & Property Manager, MRISM*

Tel: 03-7967 4590

e-mail: zahiriah@um.edu.my



DR. ZAIRUL NISHAM MUSA

*PhD [Built Environment (Facilities Management)], Liverpool John Moores University, UK
MSc. (Facilities Management), University of Greenwich, UK
BSc. (Hons) (Estate Management), University of Luton, UK
Diploma (Valuation), UTM*

Tel: 03-7967 4490

e-mail: zairul@um.edu.my



DR. OLUSEGUN OLAOPIN OLANRELE

*PhD (Real Estate Finance), UM
MSc (Estate Management) (Lagos)
B.Sc (Hons) Estate Management (Ife)
Registered Valuer (ESVARBON), NIESV*

Tel: 03-7967 2463

e-mail: olanrelesegun@um.edu.my

LECTURERS



Sr ABDUL GHANI SARIP

*MSc. Geoinformatics (Geographical Information System), UTM
B. (Hons) Estate Management, UM
Diploma (Valuation), UTM
MRISM*

Tel: 03-7967 6861

e-mail: garnae@um.edu.my



Sr ZULKIFLI ESHA

*MSc. (Real Estate Development & Investment), University of Greenwich, UK
BSc. (Hons) (Estate Management), University of Luton, UK
Diploma (Valuation), UTM
MRISM*

Tel: 03-7967 6862

e-mail: zules@um.edu.my

ADJUNCT PROFESSOR



TAN SRI DATO' (DR.) Sr ABDUL RAHIM BIN ABD RAHMAN

*Executive Chairman, Rahim & Co International Sdn Bhd
BSc (London)
Registered Valuer, Estate Agent & Property Manager
FRISM, FRICS*

Executive Chairman
Rahim & Co International Sdn Bhd
Level 17 Menara Liberty, 1008,
Jalan Sultan Ismail,
50250 Kuala Lumpur

EXTERNAL ASSESSORS



PROFESSOR DR. EDDIE HUI CHI-MAN, MH

*PhD. (Cantab), MPhil (Cantab), BSc(Hons) (Hong Kong)
MRICS, FHKIS, MHKICM, FHKIR*

Department of Building & Real Estate
The Hong Kong Polytechnic University
Hong Kong
e-mail: eddie.hui@polyu.edu.hk

ADMINISTRATIVE STAFF



NORIZAN MAT SAMAN

Senior Administrative Assistant (Clerical and Operational)

Tel: 03-7967 6856

e-mail: izan2080@um.edu.my

URBAN AND REGIONAL PLANNING PROGRAMME

PROGRAMME COORDINATOR



DR. TPr GOH HONG CHING

Dr. rer. nat., Rheinische Friedrich-Wilhelms-Universitaet Bonn, GERMANY
M. Sc. (Tourism Planning) UTM
B. URP, UTM
Corporate Member of the Malaysian Institute of Planners
Registered Town Planner of the Board of Town Planners Malaysia
Tel: 03-7967 7606/ 5376
e-mail: gohhc@um.edu.my

ASSOCIATE PROFESSORS



ASSOCIATE PROFESSOR DR. TPr MELASUTRA MD DALI

PhD (Urban Planning), University of Melbourne, AUS
M. Sc. (Urban and Regional Planning), University of Wisconsin, Madison, USA
BSc. (Urban Studies & Envi. Planning), University of Wisconsin, Green Bay, USA
Registered Town Planner of the Board of Town Planners Malaysia
Corporate Member of the Malaysian Institute of Planners,
Member of Malaysian Social Impact Assessment Association
Tel: 03-7967 7950
e-mail: melasutr@um.edu.my



ASSOCIATE PROFESSOR DR. Gs ROSILAWATI ZAINOL

PhD (Science), UiTM
MIMT, UNITAR
BA (cum laude) Arkansas State University, Arkansas, USA
Professional Member of the Institution of Geospatial and Remote Sensing Malaysia (IGRSM)
Associate Member of the Malaysian Institute of Planners
Tel: 03-7967 5325
e-mail: rosilawatizai@um.edu.my

ASSOCIATE PROFESSORS (INDUSTRY)



ASSOCIATE PROFESSOR (INDUSTRY) TPr MOHAMED JAMIL AHMAD

MSc. Urban and Regional Planning, University of Strathclyde, SCOTLAND
BA. (Hons) Geography UM
Advisory Board of the Malaysian Institute of Planners
Member of the Board of Town Planners
Tel: 03-7967 5325
e-mail: jamil7798@um.edu.my

SENIOR LECTURERS



DR. NIKMATUL ADHA NORDIN

*PhD (Urban Planning) USM
MSc. (Planning) USM
BSc. Housing, Building & Planning, USM
Graduate Member of the Malaysian Institute of Planners*

Tel: 03-7967 6824

e-mail: nikmatul@um.edu.my



DR. YONG ADILAH BINTI SHAMSUL HARUMAIN

*PhD (Land Use and Transport Planning), Utsunomiya University, JAPAN
MSc. (Land Administration and Development) UTM
BSc. Urban and Regional Planning UIA
Graduate Member of the Malaysian Institute of Planners*

Tel: 03-7967 6811

e-mail: adilah_shamsul@um.edu.my



DR. PETER ANING TEDONG

*PhD (Housing studies) UM
Master of Real Estate (MRE) UM
BA. (Major: Urban Studies and Planning, Minor: Geography) UM
Associate Member of the Malaysian Institute of Planners*

Tel: 03-7967 7953

e-mail: peteraning@um.edu.my



DR. Gs NUR AULIA ROSNI

*PhD in Built Environment, IUM
Master science in Built Environment, IUM
Bachelor of Urban and Regional Planning, IUM
Graduate member of the Malaysian Institute of Planners
Professional Member of Institute of Geospatial & Remote Sensing Malaysia*

Tel : 03-7967 7607

Email : nurauliarosni@um.edu.my



DR. ZAKARIA ALCHEIKH MAHMOUD

*PhD Urban Planning and Design, SPA, INDIA
MUP, SPA, INDIA
Bachelor of Architectural Eng. Al-Baath University Syria
Urban Planning Consultant, Syria
Member Architects Board, UAE*

Tel: 03-7967 4493

e-mail: zakaria2009@um.edu.my

EXTERNAL ASSESSORS



TPr. ISHAK BIN ARIFFIN

*B. Sc (Hons) Town Planning Studies (Wales)
Post-Graduate Diploma in Town Planning (Wales)
Corporate Member of the Malaysian Institute of Planners
Registered Town Planner of the Board of Town Planners Malaysia*

Via Nature (M) Sdn. Bhd.
23A, Jalan Bandar 1,
Taman Melawati,
53100 Kuala Lumpur
e-mail : ishak.ariffin@gmail.com

ADMINISTRATIVE STAFF



ROSAIDA ZEBEDI

Senior Administrative Assistant (Clerical and Operational),

03 – 7967 6856

rose_aida@um.edu.my

CENTRE FOR BUILDING CONSTRUCTION & TROPICAL ARCHITECTURE (BuCTA)

HEAD OF RESEARCH CENTRE



PROFESSOR DR. Sr Ts AZLAN SHAH ALI

PhD Built Environment (Building Refurbishment), Universiti Teknologi MARA
MSc (Real Estate & Property Mgmt), University of Salford, UK
MSc (Integ.Const.Proj.Mgmt), Universiti Teknologi MARA
B (Hons) (Bldg Surveying), Universiti Teknologi MARA
Prof. Dip. (Property Mgmt Valuation Surveying), RISM
Dip (Estate Mgmt), Universiti Teknologi MARA
Chartered Surveyor, P.Tech. (Building & Construction)
FRISM, FRICS, MSET

Tel: 03-7967 4494

e-mail: asafab@um.edu.my

CONSERVATION & CULTURAL HERITAGE



PROFESSOR DR. YAHAYA AHMAD, D.J.N (PP)

PhD (Conservation Management), University of Liverpool, UK
MA (Architecture), Washington University, USA
MConst Mgmt., Washington University, USA
BA, Washington University, USA
Registered Conservator, MRISM

Tel: 03-7967 5395

E-mail: yahaya@um.edu.my

ASSET, FACILITIES & MAINTENANCE



ASSOCIATE PROF. DR. Sr Ts SYAHRUL NIZAM KAMARUZZAMAN

PhD (Building), University of Manchester, UK
MSc (Bldg.Tech), University Science Malaysia
BSc (Hons) (HBP), University Science Malaysia
Cert. Building Services Eng. (POLIMAS)
Reg. Build. Surveyor, P. Tech. (Build. & Cons.)
FRISM, MSET, MIACSIT

Tel: 03-7967 6833

e-mail: syahrulnizam@um.edu.my

DESIGN & SUSTAINABLE ARCHITECTURE



DR. MUHAMMAD AZZAM ISMAIL

PhD (Built Environment), University of New South Wales, AUS
BArch (Hons), University of Malaya
BArch, University of Glasgow, UK
LAM/RIBA I & II

Tel: 03-7967 5373 / 7613

E-mail: ma.ismail@um.edu.my

PROJECT MANAGEMENT, PROCUREMENT & ECONOMICS



ASSOCIATE PROFESSOR DR. Sr FAIZUL AZLI MOHD RAHIM, PQS

*PhD (Life Cycle Risk), University of Liverpool, UK
MSc Information Technology in Property & Construction, University of Salford, UK
BSc (Hons) Quantity Surveying, University of Salford, UK
Reg. Professional QS (BQSM), MRISM, MIVMM, MCIQB*

Tel : 03-7967 7958

e-mail : azli@um.edu.my

BUILDING SCIENCE, TECHNOLOGY & PERFORMANCE



DR. PAYAM SHAFIGH

*PhD (Structural Engineering & Materials), University of Malaya
MSc (Structural Engineering), University of Mazandaran, Iran
BSc (Civil Engineering), University of Mazandaran, Iran*

Tel: 03-7967 2464

e-mail: pshafigh@um.edu.my

ADMINISTRATIVE STAFF



NUR SHUHADA HILAL

*BSc (Physics), MARA University of Technology (UiTM)
Dip.Sc (Physics), MARA University of Technology (UiTM)*

Assistant Science Officer

03- 7967 6889

nurshuhadahilal@um.edu.my

CENTRE FOR SUSTAINABLE URBAN PLANNING & REAL ESTATE (SUPRE)

HEAD OF RESEARCH CENTRE



ASSOCIATE PROFESSOR DR. Sr WAN NOR AZRIYATI WAN ABD. AZIZ

*PhD (Housing and Planning), University of Dundee, UK
Masters (Environment), UPM
B. (Hons) (Estate Management), UiTM
Diploma (Estate Management), UiTM
Registered Valuer, Estate Agent & Property Manager
MRISM*

Tel: 03-7967 4499

e-mail: wyati@um.edu.my

HOUSING & SETTLEMENTS



ASSOCIATE PROFESSOR DR. Sr NOOR ROSLY HANIF

*PhD (Negotiation and Land Development), University of Dundee, UK
Masters Land Economy (Property Investment & Development), University of Aberdeen, UK
B. (Hons) (Estate Management), UiTM
Diploma (Estate Management), UiTM
Registered Valuer, Estate Agent & Property Manager
FRISM, MRICS*

Tel: 03-7967 6827

e-mail: nroslyhanif@um.edu.my

ENVIRONMENTAL & URBAN DESIGN



ASSOCIATE PROFESSOR DR. NAZIATY MOHD YAACOB

*PhD (Universal Design), University of Salford, UK
MSc (Architecture), University of College London, UK
PG Dipl (Architecture), North London Polytechnic, UK
BA(Architecture), Leicester Polytechnic, UK
Dipl. (Architecture), University Technology Malaysia
LAM/RIBA Part I & II*

Tel: 03-7967 5396

E-mail: naziaty@um.edu.my

REAL ESTATE DEVELOPMENT & MANAGEMENT



ASSOCIATE PROFESSOR DR. Sr ANUAR ALIAS

*PhD (Property Development and Environment), UM
MSc (Project Management), USM
B.Surv. (Hons) (Property Management), UTM
Diploma (Valuation), UTM
PGCert. (Professional Development), UCONN
Registered Valuer & Estate Agent
MRISM, MMIPPM*

Tel: 03-7967 6835

e-mail: anuar_a@um.edu.my

SUSTAINABLE PLANNING & DEVELOPMENT



ASSOCIATE PROFESSOR DR. Gs ROSILAWATI ZAINOL

PhD (Science), UiTM

MIMT, UNITAR

BA (cum laude) Arkansas State University, Arkansas, USA

Professional Member of the Institution of Geospatial and Remote Sensing Malaysia (IGRSM)

Associate Member of the Malaysian Institute of Planners

Tel: 03-7967 5325

e-mail: rosilawatizai@um.edu.my

REAL ESTATE ECONOMICS, FINANCE & INVESTMENT



ASSOCIATE PROFESSOR DR. Sr YASMIN MOHD ADNAN

PhD (Urban Land Economy), UM

MBA, UiTM

BSc. (Hons) (Land Management), University of Reading, UK

Registered Valuer, Estate Agent & Property Manager

FRISM, MRICS, MMIPFM

Tel: 03-7967 6845 / 5378

e-mail: yasmin_alambina@um.edu.my

ADMINISTRATIVE STAFF



NURULFAZILA MOHD SAJUTI

BSc (Applied Chemistry), MARA University of Technology (UiTM)

Dip.Science, MARA University of Technology (UiTM)

Assistant Science Officer

03- 7967 7610

nurulms@um.edu.my

ASEAN UNIVERSITY NETWORK (AUN) – DISABILITY AND PUBLIC POLICY (DPPnet)

DIRECTOR



PROFESSOR DR. YAHAYA AHMAD, D.J.N (PP)

*PhD (Conservation Management), University of Liverpool, UK
MA (Architecture), Washington University, USA
MConst Mgmt., Washington University, USA
BA, Washington University, USA
Registered Conservator, MRISM*

Tel: 03-7967 5395

E-mail: yahaya@um.edu.my

OFFICERS



NASREEN ATHIRAH BINTI MOHD ALUDIN

*B.Business Study, MARA University of Technology (UiTM)
Dip.Business Admin, MARA University of Technology (UiTM)*

Project Officer

Tel: 03-7967 7618

E-mail: athirah@um.edu.my

ADMINISTRATIVE STAFF



VEL KALASHINI PATHMA SIVAN

Administrative Assistant (Clerical and Operational)

03- 7967 5334

shini@um.edu.my

POSTGRADUATE PROGRAMMES 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
Reg. Probationary Valuer, MRISM

Tel: 03-7967 5396

e-mail: ainoriza@um.edu.my



DR. Ar KONG SENG YEAP

Coordinator for Master of Architecture (by coursework)

PhD (Architecture), University of Malaya
B.Arch, University of Malaya
B.Sc (Architecture), University of Malaya
LAM/RIBA Part I & II

Tel: 03-7967 7613

E-mail: k_sengyeap@um.edu.my



DR. NIK ELYNA MYEDA NIK MAT

*Coordinator for Master of Facilities & Maintenance Management
(by Coursework)*

PhD (Facilities Management), University College London, UK
MSc (Building), University of Malaya
B (Hons) (Bldg. Surveying), University of Malaya
Graduate Member RISM

Tel: 03-7967 7022/2455

e-mail: elyna@um.edu.my



DR. Sr ZULKIFLEE ABDUL SAMAD, PMP

Coordinator for Master of Project Management (by Coursework)

PhD (Project Management), University of Cambridge, UK
MSc (Project Management), Universiti Sains Malaysia
MBA ESG Paris, France
MAppMgt (Architecture), University of Newcastle, Australia
B. (Hons) Quantity Surveying, Universiti Teknologi MARA
Proj. Mgmt. Professional (PMP), FAPM (UK), MRICS, MRISM, MCI0B

Tel : 03-7967 4474

e-mail : zulkiflee1969@um.edu.my



DR. LOO SIAW CHUING

Coordinator for Master of Project Management (by Coursework)

PhD (Project & Construction Management), Universiti Malaya
MSc (Building), Universiti Malaya
B (Hons) Quantity Surveying, Universiti Malaya
Reg. Provisional QS (BQSM)

Tel : 03-7967 7959

e-mail : siawchuing@um.edu.my



DR. Sr ZAFIRAH AL SADAT BINTI ZYED

Coordinator for Master of Real Estate (by Coursework)

PhD (Housing Studies), University of Malaya, Malaysia
B.(Hons) (Estate Management), University of Malaya, Malaysia
Reg. Probationary Valuer, MRISM, MMIPFM

Tel: 03-7967 2454

e-mail: zafirahzyed@um.edu.my



**UNIVERSITI
MALAYA**

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	√	√
BVH	Master of Architecture	Coursework	-	√
BQC	Master of Project Management	Coursework	-	√
BQA	Master of Real Estate	Coursework	-	√
BQC	Master of Facilities and Maintenance Management	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 **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.
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 **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 **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 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 year** of work experience in related field; **OR**
- b. Produce **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 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 **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

Additional requirements for candidates who is applying for the **Master of Architecture (by Coursework)**:

- a. Meet the requirements of Part I of the Board of Architects Malaysia (LAM); **AND**
- b. Pass the technical test and portfolio interview.

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 Reserarch)** base on the National Education Code (NEC)

Architecture & Town Planning (NEC code: 581)	Management & Administration (NEC code: 345)
Building Design	Project Management
Architectural Technology	Programme Management
Architectural Education	Portfolio Management
Architectural Theory & Philosophy	Performance Appraisal
Architectural History	Human Resource Management
Heritage & Building Conservation	Organisational Theory & Behaviour
Urban Design	Quality Management
Interior Architecture	Logistic Management
Landscape Architecture	Administration
Professional Practice	Business Administration
Contract Management	Management Science
Industry Design	Management Skills
Planning Theory & Philosophy	Value Management / Value Engineering
Housing	Risk Management
Transportation Planning	Knowledge Management
Tourism & Recreational Planning	Lean Management
Resource & Environment Planning	Financial & Cost Management
Land Use Planning	ICT Management
Urban Management & Governance	Space Planning & Management
Technology for Planning	Strategic Facilities Planning
Public & Urban Policy	Asset & Facilities Management
Sustainable Planning & Development	Facilities Procurement
Universal Design	Performance Management
Sustainable Design	Maintenance Management
Visual Digital Media in Architecture	Workplace Productivity

Urban Planning Regional Planning	Waste Management
Wholesale and Retail Sales (NEC code: 341)	Environmental Protection (NEC code: 850)
Real Estate Valuation & Taxation Real Estate Development & Planning Real Estate Finance & Investment Real Estate Economics & Performance Real Estate Analytics Real Estate Management & Marketing Real Estate Training & Professional Development Housing Management & Strata Management	Environmental Conservation Environmental Protection Environmental Studies Natural Resources Use Programme Natural Resources Conservation Soil & Water Conservation Air Pollution Control Environmental Control Noise Pollution Control Recycling Conservation & Land Management National Parks & Wildlife
Law (NEC code: 380)	Design (NEC code: 214)
Property Law Construction Law Building Law	Interior Design Interior Architecture
Civil Engineering (NEC code: 526)	Security Service (NEC code: 860)
Construction Technology Civil Engineering Quantity Surveying	Fire Technology Fire Protection Ergonomics (occupational Health & Safety) Health & Safety in the Work Place Occupational Health & Industry Hygiene Occupational Health & Safety Stress at Work Work Environment
Building (NEC code: 582)	
Construction Economics	

Source : <http://mohe.gov.my/muat-turun/awam/statistik/177-national-education-code-manual>

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 is 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 @EBSCOHOST, Science Direct, Springer Link, etc.

Library Services	
Loans, Online Renewal and Reservation	Most books are allowed borrowings, except the Reference and special collection such as dissertation/theses and conference proceedings. The library-computerized system allows online renewal by the individual by each patron; and also reservation of books when materials on loan to other user.
Discussion Area ("Ruang Bicara")	This Discussion Area is located beside the library office and accommodate with 16 seats. This area is spacious and very interesting for any discussion and meeting. It is open to anyone who interested and users only need to make a reservation at counter services. Projectors are also provided for teaching and learning facilities.
Books Donation Corner (by Faculty Members)	This corner was initiated by faculty members to keep books donation as a library collection. All of these materials can be referred and borrowed.
Inter-library loan and Document Supply Services	Inter-library loan facilities and document delivery services are available for postgraduate students, researchers and academic staff of the Faculty of Built Environment. Requests to these services are facilitated via the Library interactive portal, which can be submitted to the Library management electronically. A special budget is allocated for this purpose with deposit accounts established at the British Library (U.K) and National University of Singapore (Singapore).
Access to Other Resource Centres in Malaysia	Registered students and academic staff of the University Malaya are allowed to visit and use (for reference only) other academic / public university libraries in Malaysia, as a part of the resource sharing programme.
Information 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

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 ² 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.



**UNIVERSITI
MALAYA**

**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

- 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;
- d. present your research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;
- e. present your research progress at **Candidature Defence not later than the fifth (5th) semester** of candidature;

- f. present your 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
Reg. Probationary Valuer, MRISM*

Tel: 03-7967 5396

e-mail: ainoriza@um.edu.my

Administrative Staff



SILA A/P BALAKERSNAN

Administrative Assistant (Clerical and Operational)

Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment

University of Malaya

Tel : 03 – 7967 5320

e-mail: sila@um.edu.my



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;

- d. present your research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;
- e. present your research progress at **Candidature Defence not later than the third (3rd) semester** of candidature;
- f. present your 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

*PhD (Property Investment), Kingston University, UK
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Tel: 03-7967 5396

e-mail: ainoriza@um.edu.my

Administrative Staff



HASNITA BINTI MOHD ZHARI

Senior Administrative Assistant (Clerical and Operational)

Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment

University of Malaya

Tel : 03 – 7967 6899

e-mail: hasrh@um.edu.my



**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	3	BQC 7002	Research Project	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	

Syllabus Summary

BQC7001 RESEARCH METHODOLOGY	
3 Credits	<p>This course introduces the students to the field of research. It examines in depth the research process and introduces the student to the various aspect of doing social and scientific research related to facilities and maintenance management. The topics covered include research process, research design, data collection and analysis process, and reporting of research results.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none">1. Interpret research principles, processes and the requirements for conducting research within facilities and maintenance management2. Develop critical theoretical literature reviews, research methods and systematic approaches applicable to facilities and maintenance management3. Practise awareness and ethics in executing good research project
BQC7002 RESEARCH PROJECT	
12 Credits	<p>Research projects will involve the generation of new scientific information and a review and understanding of the pertinent scientific literature. The research may be conducted in a university laboratory, organisation, etc., depending upon the project and the supervisor. The time commitment includes developing a justified research plan, implementing that plan, gathering the research data, reading or searching literature, and writing up the results of the project.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none">1. Apply skills, knowledge and good management on the application of concepts and strategies in research project.2. Integrate knowledge, communication skills and critical thinking in solving research problems3. Apply theory and techniques of facilities management in formulating research project.4. Practise ethics in the research project.
BQC7003 ORGANIZATIONAL BEHAVIOUR AND RESOURCE MANAGEMENT	
3 Credits	<p>This course is about theories of organisational behaviour and resource management. Topics include management theories and concept, effective communication, leadership, decision making process, human resource management, ethics and performance evaluation.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none">1. Identify teamwork skills in management organization which include relationship of individual, industries and workplace environment2. Interpret knowledge of theories in organizational concept and effective resource management3. Explain issues and problems in organization and human behaviour through critical and practical approach

BQC7004 OPERATION & MAINTENANCE	
4 Credits	<p>This course aims to devise and develop a strategic approach to the understanding of the role of asset and facilities maintenance in meeting corporate objectives; and reviews the principles of the guideline and legislation affecting asset maintenance. The course will also examine the building services and fabric, their life cycle and the maintenance, refurbishment, maintenance strategy and effectiveness; management organization; planning and co-ordination techniques; and managing cost effectiveness.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Discuss procedures for operation and maintenance of asset and facilities 2. Analyse guideline and legislation in the current practices of asset and facilities maintenance 3. Appraise techniques and technologies in asset and facilities maintenance
BQC7005 TOTAL ASSET AND FACILITIES MANAGEMENT	
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 & 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"> 1. Identify the total asset & facilities management theory 2. Apply strategic and operational total facilities management to fulfill the core organizational objectives 3. Decide appropriate management system in achieving value added in operational maintenance and facilities management
BQC7006 PROCUREMENT & CONTRACT MANAGEMENT	
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"> 1. Identify the type, process, procedure, procurement and liability of contract. 2. Determine the key component parts in a Service Level Agreement. 3. Evaluate contract performance measurement systems in facilities management. 4. Prepare a service level agreement

BQC7007 BUILDING PERFORMANCE, PRODUCTIVITY AND WELLBEING	
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"> 1. Identify green building principles and practices. 2. Discuss various methods of implementation in energy audit. 3. Propose sustainable or green building solutions.
BQC7008 FINANCIAL AND BUSINESS MANAGEMENT	
4 Credits	<p>This module examines the financial and business management elements within facilities management context. Focus is given to the fundamental principles of financial management and the concept of best value in facilities management. Among the core components of this course appraise on the strategic analysis of business requirements, financial control, fundamental financial analysis tools and facilities management financial models. This module also covers on the theories in forecasting and managing future financial requirements.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Identify the theories and application of business and financial management in facilities management 2. Appraise the suitable financial management tools towards effective facilities and business performance 3. Integrate the function of financial analysis in organizational decision making
BQC7009 STRATEGIC FACILITIES MANAGEMENT PROJECT	
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"> 1. Determine relationship between strategic facility planning and business strategy for FM project. 2. Identify appropriate framework for strategic facility planning, with appropriate procurement method. 3. Structuring the management of key information on FM system for business performance. 4. Critically evaluate the impact (benefits and challenges) and use of FM system on facility life cycle.

BQC7010 SUSTAINABLE AND ENVIRONMENTAL MANAGEMENT	
3 Credits	<p>Understanding of sustainability and climate change is vital topic in development. This course provides fundamental knowledge of sustainable development principles and effects of climate change. It Integrates sustainable development issues including, but not limited to, sustainable economics & policy, green building movement and life-cycle assessments. It translates the abstract concepts of sustainability into Environmental Management System (EMS) practice of development and facilities management.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Identify sustainable development principles and practices in facilities management 2. Apply sustainable development principles in facilities management to mitigate environmental risks 3. Integrate professional skills in achieving sustainable environmental management system
BQC7011 CORPORATE REAL ESTATE	
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"> 1. Identify corporate holdings in real estate. 2. Select strategic decision-making in real estate investment portfolio. 3. Evaluate performance of real estate 4. Appraise real estate tenure decisions
BQC7012 PRINCIPLES OF PROJECT MANAGEMENT	
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"> 1. Explain the concept and principles of project management. 2. Analyse effective project management methodology towards successful and effective projects. 3. Apply effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure)

Programme Coordinator



DR. NIK ELYNA MYEDA NIK MAT

*Coordinator for Master of Facilities & Maintenance Management
(by Coursework)*

*PhD (Facilities Management), University College London, UK
MSc (Building), University of Malaya
B (Hons) (Bldg. Surveying), University of Malaya
Graduate Member RISM*

Tel: 03-7967 7022/2455

e-mail: elyna@um.edu.my

Administrative Staff



NORIZAN BINTI ABD. RAJI

Senior Administrative Assistant (Clerical and Operational)

Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment

University of Malaya

Tel: 03 – 7967 5320

e-mail: norizanabd@um.edu.my



UNIVERSITI
MALAYA

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

[BQB] MASTER OF PROJECT MANAGEMENT (BY COURSEWORK)

Program Overview

This program intends to create Professional Project Managers that are knowledgeable and competent, possess ethics and social responsibility, as well as are aware of the need to promote 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 and Telecommunication Management, Legal Issues in 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.

Specific Entry Requirements

- Bachelor of Building Surveying, Quantity Surveying, Estate Management, Science, Architecture or equivalent qualification in a relevant discipline with CGPA of 3.00 and above; or
- Professional qualification from a recognized professional body; or
- Other qualifications as written by the Senate from time to time; and
- Having working experience of at least one (1) year; or
- Bachelor of Building Surveying, Quantity Surveying, Estate Management, Science Architecture or equivalent qualification in a relevant field with a CGPA of less than 3.00 at least three (3) years relevant working experience.

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	3	BQB 7002	Research Project I	5	BQB 7003	Research Project II	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	

Syllabus Summary

BQB7001 RESEARCH METHODOLOGY FOR PROJECT MANAGEMENT	
3 Credits	<p>Students will be exposed to the elements and processes of scientific research problem and hypothesis formulation, research design, data collection and analysis methods, forming conclusions, and writing research reports. Data collection and data sources, library research, research methodology, philosophy of science in general and research methods in detail. The use of computers: SPSS, and other software.</p> <p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Practice different types of qualitative and quantitative methods related to the assessment, methods of project management, data interpretation and report writing. 2. Communicate with critical thinking and problem solving skills. 3. Apply the theory and technique development and implementation of research in related fields.

BQB7002 RESEARCH PROJECT I	
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"> 1. Identify and write with a concise explanation of why the project is needed. 2. Have the skills and knowledge in the application of concepts and strategies in a research project. 3. Apply the skills of problem solving and scientific skills.
BQB7003 RESEARCH PROJECT II	
5 Credits	<p>Research projects involving the production of scientific information through research methodologies that have been studied. Research will be conducted on the basis of the title and the scope proposed by students and supervised regularly by designated supervisors. Time commitment involves the formation justification of project planning, project implementation, collecting research data, reading 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"> 1. Apply the theories learned to the academic research. 2. Apply the data collection and analysis skills learned to the research. 3. Present the research results and findings in an academic manner
BQB7004 PRINCIPLES OF PROJECT MANAGEMENT	
3 Credits	<p>The course contains the fundamentals of the project, the project management process, project planning and project execution and closure. These include the establishment of the project organization, the establishment of effective leadership, team preparation, settlement issues, effective implementation (performance measurement, monitoring and control, coordination, record, report status, communication, conflict management), and the closure of the project (measurement of project success, closure contracts, data transfer, learning, and administrative closure)</p> <p>At the end of this course, students can:</p> <ol style="list-style-type: none"> 1. Explain the concept and principles of project management. 2. Analyse effective project management methodology towards a successful and effective projects.

	<p>3. Apply effective project plan covering the period of the project, monitoring and controlling the project delivery (including implementation and closure).</p>
BQB7005 PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT I	
3 Credits	<p>This course provides an overview of the aspects covered by the Project Management Institute (PMI) Project Management Professional certification (PMP) by the Project Management Body of Knowledge (PMBOK). Five of the ten knowledge areas contained in the PMBOK that will be covered are:</p> <ul style="list-style-type: none"> • Project Integration Management, • Project Scope Management, • Project Schedule Management, • Project Cost Management, and • Project Quality Management. <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Discuss about Project Management Body of Knowledge (PMBOK). 2. Identify best practices recognized by the discipline of project management for implementation into a successful project management. 3. Apply a successful project management disciplines through a strong foundation, intellectually, and professionally.
BQB7006 ORGANIZATIONS AND STRATEGIC MANAGEMENT FOR PROJECTS	
3 Credits	<p>The course includes a review of scientific results in organization and strategic management for the project. The course will also look at how to formulate corporate decisions related to the project.</p> <p>At the end of this course, students can:</p> <ol style="list-style-type: none"> 1. Explain the concept and principles of organization and strategic management for the project. 2. Understand the context of strategic management and project organization. 3. Analyse and relate it to another level in project management.
BQB7007 INTEGRATED PROJECT	
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"> 1. Understand the interests of the combination and integration of knowledge. 2. Relate concepts, principles, techniques and the academic knowledge acquired. 3. Apply the knowledge gained and confidence to solve problems.

BQB7008 PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT II	
3 Credits	<p>This course provides an overview of the aspects covered by the Project Management Institute (PMI) Project Management Professional certification (PMP) by the Project Management Body of Knowledge (PMBOK). Five of the ten knowledge areas contained in the PMBOK that will be covered are:</p> <ul style="list-style-type: none"> • Project Resource Management, • Project Communication Management, • Project Risk Management, • Project Procurement Management, and • Project Stakeholder Management. <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Discuss about Project Management Body of Knowledge (PMBOK). 2. Identify best practices recognized by the discipline of project management for implementation into a successful project management. 3. Apply a successful project management disciplines through a strong foundation, intellectually, and professionally
BQB7009 VALUE AND RISK MANAGEMENT FOR PROJECTS	
3 Credits	<p>This course introduces the general theories of value engineering/ value management and risk management as part of the process involved in project management. Each element will be emphasized in terms of theory, methodology and practical applications for the project.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Identify the value and risk management aspects that are needed in projects. 2. Explain the concepts and principles of value and risk management in projects. 3. Develop the skills and methods of implementation of value and risk management in the context of projects.
BQB7010 PROJECT INVESTMENT AND FINANCIAL MANAGEMENT	
3 Credits	<p>This course provides an in-depth view of the processes in project finance, project costs and entrepreneurial project management. Project finance includes the allocation, management and funding of financial resources. This partly involves short-term dealing with day-to-day working capital decisions; another part is longer-term, involving major capital investment decisions and raising long-term finance. Private Finance Initiative (PFI) and Public Private Partnership (PPP) procurement systems will also be explored during the course of this subject.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Explain the financial concepts, especially opportunity cost and time value of money. 2. Discuss the ways in which business plans are developed and the role of projected financial statements in the planning process. 3. Analyze capital budgeting projects and focus on the short-term and long-term financial implications of business decisions.

BQB7011 HEALTH AND SAFETY MANAGEMENT	
3 Credits	<p>Students will be exposed to the latest safety management and comprehensive. Statutory requirements, regulations and laws related to security such as the Occupational Safety and Health Act 1994 (OSHA) and the Factories and Machinery Act 1967 (MFA) will be studied in depth. Coverage of topics related to the establishment and implementation of safety and health programs such as pre-bid consideration, planning and scheduling, personal training, orientation and health and safety audit.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Exposure to current and comprehensive occupational safety and health management 2. Identify the safety and health problems individually, conduct an investigation and preparing safety plan activities 3. Evaluate the impact and capable of using the program and procedures for effective safety and health in the project.
BQB7012 LEGAL STUDIES FOR PROJECT MANAGEMENT	
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"> 1. Describe the knowledge of the management rights and responsibilities, agency and representation, contract formation and negotiation of contracts, dispute prevention and settlement. 2. Identify the legal implications of the associated issues by taking into account ethical project management contract procurement. 3. Assess the acquisition strategy in project management contract by concrete evidences.
BQB7013 ASSETS AND FACILITIES MANAGEMENT	
3 Credits	<p>This module explores the strategy and operation of facilities management. Facility management strategy includes the introduction of discipline to the management of facility management. Facilities management operation look to external constraints in corporate priorities including issues that affect the theory of why the organization determine its position and overall look of the four main areas of facility management in the management plan; security, cleaning; energy, and repair & maintenance; which use higher cost of facilities.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Understand the strategies and operational facility management. 2. Translating the main capital through proper maintenance and achieve the value of the cost of daily operations 3. Apply appropriate management theory to meet the core objectives of a business

BQB7014 IT MANAGEMENT FOR PROJECTS

3 Credits

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.

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

1. Develop knowledge in a business context and technical developments of the management aspects of information technology in contemporary projects.
2. Build good relationships and interaction through the management of information technology projects.
3. Use conceptual and analytical approaches to the management of information technology projects.

Programme Coordinator



Sr. DR. ZULKIFLEE ABDUL SAMAD, *PMP*

Coordinator for Master of Project Management (by Coursework)

*PhD (Project Management), University of Cambridge, UK
MSc (Project Management), Universiti Sains Malaysia
MBA ESG Paris, France
MAppMgt (Architecture), University of Newcastle, Australia
B. (Hons) Quantity Surveying, Universiti Teknologi MARA
Proj. Mgmt. Professional (PMP), FAPM (UK), MRICS, MRISM, MCI0B*

Tel : 03-7967 4474

e-mail : zulkiflee1969@um.edu.my



DR. LOO SIAW CHUING

Coordinator for Master of Project Management (by Coursework)

*PhD (Project & Construction Management), Universiti Malaya
MSc (Building), Universiti Malaya
B (Hons) Quantity Surveying, Universiti Malaya
Reg. Provisional QS (BQSM)*

Tel : 03-7967 7959

e-mail : siawchuing@um.edu.my

Administrative Staff



NORIZAN BINTI ABD. RAJI

Senior Administrative Assistant (Clerical and Operational)

Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment

University of Malaya

Tel: 03 – 7967 5320

e-mail: norizanabd@um.edu.my



**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 (P1)	6	BQA 7002	Research Project (P2)	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	

Syllabus Summary

BQA7001 RESEARCH METHODOLOGY IN REAL ESTATE	
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"> 1. Apply qualitative and quantitative methods that are applicable to evaluate real estate related research. 2. Apply the theory and techniques of developing and conducting research in real estate development. 3. Illustrate communication skills that contain critical thinking and problem solving elements. 4. Structure a research proposal.
BQA7002 RESEARCH PROJECT (P)	
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"> 1. Develop a research framework 2. Apply appropriate research methodology 3. Demonstrate data collection and analysis using appropriate techniques 4. Synthesize research results and findings 5. Relate information and express ideas clearly and effectively
BQA7003 DEVELOPMENT ECONOMICS AND PLANNING	
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"> 1. Classify the theories and issues related to development and planning 2. Distinguish urban real estate issues in land development. 3. Predict potential property development 4. Evaluate problem solving measures in the context of real estate development process.
BQA7004 PROPERTY LAW AND INSTITUTIONAL FRAMEWORK	
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"> 1. Identify relevant legislation framework suitable for land development 2. Integrate knowledge in determining requirements and restrictions to be adhered to in land development. 3. Relate the development laws to the environmental management aspect of sustainable development 4. Criticise the current regulatory framework
BQA7005 PROPERTY FINANCE AND INVESTMENT ANALYSIS	
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"> 1. Identify the principles of financial and investment property 2. Distinguish techniques of financial analysis and investment-related 3. Evaluate the performance of real estate investment 4. Choose the best option for real estate investment devise.
BQA7006 REAL ESTATE DEVELOPMENT PROCESS	
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"> 1. Identify real estate development process models 2. Establish relevant attributes of a successful property development 3. Identify relevant negotiation techniques 4. Assess the performance and viability of the development project.
BQA7007 PROPERTY MARKET RESEARCH AND MARKETING	
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"> 1. Identify marketing techniques and real estate market research 2. Develop the relevant attributes towards a successful real estate marketing 3. Produce a real estate market study report 4. Evaluate real estate market research findings
BQA7008 VALUATION AND INVESTMENT APPRAISAL	
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"> 1. Determine the different property valuation approaches 2. Apply the valuation methods and discounting techniques 3. Appraise the suitability of valuation methods for different types of property. 4. Explain and apply the various types of investment appraisals
BQA7009 CORPORATE REAL ESTATE	
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"> 1. Recognise corporate holdings in real estate. 2. Perform strategic decision-making in real estate investment portfolio. 3. Evaluate performance of real estate 4. Appraise real estate tenure decisions
BQA7010 REAL ESTATE PROJECT MANAGEMENT	
3 Credits	<p>This course provides basic knowledge and skills required to manage a project or to be an effective member of a project team. It covers the nine functions of project management (cost, time, quality, scope, risk, communication, human resource, procurement and integration) tracking a project through its various lifecycles from inception through to completion.</p> <p>At the end of the course students will be able to:</p> <ol style="list-style-type: none"> 1. Determine the development of modern project management 2. Identify project stakeholders' key factors associated with successful execution of projects. 3. Formulate measurable criteria for assessment of project performance and success. 4. Evaluate constraints and assumptions, related projects and out of scope activities

BQA7011 SUSTAINABLE REAL ESTATE DEVELOPMENT

3 Credits

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.

At the end of the course students will be able to:

1. Identify sustainable development principles and practices in real estate development.
2. Apply sustainable development principles in real estate development.
3. Appraise institutional factors that could affect sustainable real estate development.

Programme Coordinator



Sr. DR. ZAFIRAH AL SADAT BINTI ZYED

Coordinator for Master of Real Estate (by Coursework)

PhD (Housing Studies), University of Malaya, Malaysia
B.(Hons) (Estate Management), University of Malaya, Malaysia
Reg. Probationary Valuer, MRISM, MMIPFM

Tel: 03-7967 2454

e-mail: zafirahzyed@um.edu.my

Administrative Staff



NORIZAN BINTI ABD. RAJI

Senior Administrative Assistant (Clerical and Operational)

Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment

University of Malaya

Tel: 03 – 7967 5320

e-mail: norizanabd@um.edu.my



MASTER OF ARCHITECTURE (BY COURSEWORK)

[BVH] MASTER OF ARCHITECTURE (BY COURSEWORK)

Program Overview

The programme is serviced by highly qualified and experienced lecturers including one (1) Professor and two (2) Associate Professors. 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

Delivery and Attendance

- The minimum duration of the programme is two (2) normal semesters and one (1) special semester or one (1) year and the maximum period is eight (8) semesters or four (4) years.
- Classes will be conducted through after-office and/or weekend sessions. (*Subject to Management's approval*)
- 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, laboratory, 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 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. 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)		Choose any two	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								
			Total/Semester	16	16	3	6	4	65

Syllabus Summary

BAGS6101 ADVANCED ARCHITECTURAL DESIGN I	
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"> 1. Summarize precedent studies on climactically responsive buildings. 2. Apply passive design strategies on the architectural solutions of a small cultural building typology. 3. Integrate green building approach into a project related to a complex building typology. 4. Design appropriate architectural solutions comprising drawings and models incorporating the architectural project issues that comprise sustainable design strategies.
BAGS6102 ADVANCED ARCHITECTURAL DESIGN II	
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"> 1. Summarize lessons learned from research on precedent studies into a project brief of complex buildings or high density housing in an urban context. 2. Apply building statutory and other development requirements, taking into consideration the feasibility study to inform and justify the viability of the project. 3. Share views and opinions academically through discussions with people from different cultural backgrounds or related disciplines. 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.
BAGS6203 PRE THESIS RESEARCH	
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"> 1. Determine the conceptual framework based on research topic to assist the formulation of a design brief. 2. Prepare a comprehensive report for proposed topic. 3. Justify selection of design topic / project.

BAGS6204 ARCHITECTURAL DESIGN THESIS I	
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"> 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. 2. Translate design concept into detailed architectural design scheme. 3. Analyse site through series of studies from macro to micro level. 4. Defend design thesis project through verbal and architectural graphics.
BAGS6205 ARCHITECTURAL DESIGN THESIS II	
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"> 1. Translate design concept into a detailed architectural design proposal. 2. Report a special study that focuses on the core ideas of the design thesis project. 3. Defend design thesis project through verbal and architectural graphics. 4. Justify design proposal in a written report.
BAGS6106 RESEARCH METHODOLOGY	
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"> 1. Apply qualitative and/or quantitative research methods suitable to the research scope, data analysis and academic writing. 2. Apply theory and techniques of research development and implementation. 3. Debate effectively based on critical thinking and problem solving skills.
BAGS6207 ARCHITECTURAL RESEARCH I	
5 credits	<p>This course guides the students on how to write a major piece of academic writing as a partial requirement for the conferment of the degree. 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"> 1. Enumerate critically literature review.

	<ol style="list-style-type: none"> 2. Report primary and related data. 3. Analyse data and syntheses findings.
BAGS6208 ARCHITECTURAL RESEARCH II	
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"> 1. Organise architectural research thesis outcome. 2. Experiment ready-made information. 3. Compose an academic paper.
BAGS6109 GREEN AND SUSTAINABLE TECHNOLOGY I	
3 credits	<p>The course will enhance students' ability in applying various green building technologies available and the ability to solve specific design problems by appropriate technical means, covering:</p> <ul style="list-style-type: none"> • Building Physics • Design & Fire Engineering • Environmental Performance • Design Integration of Services • Other related topics • The course will also involve precedents studies. <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Determine the advantages and disadvantages of conventional and 'green' building services. 2. Illustrate elements of green building services and building environmental control strategies to enhance the ability to design according to the concept of sustainability. 3. Analyse the applicability of green building services and building environmental control.
BAGS6110 GREEN AND SUSTAINABLE TECHNOLOGY II	
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"> • green building construction • green building materials in green building design • environmental impact assessments (EIA) • green building rating methods <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Appraise various methods of 'green' building construction and the characteristics of green building materials. 2. Propose green building solutions into the studio architectural design project. 3. Anticipate the sustainability, performance and cost-effectiveness of green buildings utilising available building assessment software

BAGS6111 PROFESSIONAL PRACTICE I	
3 credits	<p>This course introduces the:</p> <ul style="list-style-type: none"> • Concept of ethics, moral and professional obligations • Principles of professionalism, competency, responsibilities and due diligence • The architect's roles and responsibilities in the building team and society • The laws and regulations that govern the architectural profession and its practice • The scope of architectural services and the relevant terms of appointment of an architect <p>This course also exposes the legislative aspects including:</p> <ul style="list-style-type: none"> • Statutory controls and their application in practice: • Land and property legislation; • Planning control – Legislation on town and country planning and its administration; • Building control, Building Legislation and Regulations, Local authority guidelines. <p>At the end of the course, students are able to:</p> <ul style="list-style-type: none"> • Determine the architect's professional ethics and their role in the building industry. • 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. • Explain the types of architectural services based on terms of appointment and current Malaysian legislation.
BAGS6112 PROFESSIONAL PRACTICE II	
3 credits	<p>To provide an overview of the architect's practice as a professional business entity under the Architect Act (1967) and Rules (1996) and Scale of Minimum Fees (2010). Among the scope of discussion are:</p> <ul style="list-style-type: none"> • Types of practice • Marketing strategies • Financial management, fees, remuneration and expenses • Managing work distribution and human resources <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Explain different types of architectural practices as professional business entities. 2. Interpret principles of marketing strategies for architectural practices.
BAGS6213 ARCHITECT AND CONSTRUCTION MANAGEMENT	
3 credits	<p>Through this course, students will recognise the role and responsibility of a practicing architect during the construction management stage and the processes and procedures from award of tender to final account.</p> <p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Illustrate the course of a construction project from the letter of appointment of contractor to the handover of site to the project owner. 2. Apply management knowledge and tools in managing construction and work progress in accordance with the building contract. 3. Determine the role of an architect during the construction phase.

EVECTIVE COURSES

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

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

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



Ar. DR. KONG SENG YEAP

Coordinator for Master of Architecture (by coursework)

PhD (Architecture), University of Malaya

B.Arch, University of Malaya

B.Sc (Architecture), University of Malaya

LAM/RIBA Part I & II

Tel: 03-7967 7613

E-mail: k_sengyeap@um.edu.my

Administrative Staff



NORIZAN BINTI ABD. RAJI

Senior Administrative Assistant (Clerical and Operational)
Higher Degrees Office

Level 8, Mercu Alam Bina, Faculty of Built Environment
University of Malaya

Tel: 03 – 7967 5320

e-mail: norizanabd@um.edu.my

FEEES STRUCTURE

FEES STRUCTURE

MALAYSIAN (LOCAL CANDIDATES)

Component of Fees	Master of Real Estate		Master of Project Management		Master of Facilities & Maintenance Management		Mater 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
SEMESTER 1										
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
Recurring Fees:-										
<i>(i) Registration</i>		50		50		50		50	50	50
<i>(ii) Service</i>		100		100		100		100	100	100
<i>(iii) Health</i>		27		27		27		27	27	27
<i>(iv) Library</i>		200		200		200		200	200	200
<i>(v) Welfare</i>		10		10		10		10	10	10
<i>(vi) Recreation</i>		10		10		10		10	10	10
<i>(vii) ICT</i>		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
Total		7,278		5,316		7,278		5,072	6,782	5,032
SEMESTER 2										
Graduation Fee - 2nd Payment		110		110		110		110	110	110
Recurring Fees		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
Total		9,436		6,166		7,147		4,287	4,107	3,622
SPECIAL SEMESTER										
Recurring Fees		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	-
Tuition 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		Mater 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
SEMESTER 1										
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
Recurring Fees:-										
<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
Total		14,925		13,335		14,925		13,795	14,010	13,155
SEMESTER 2										
Graduation Fee - 2nd Payment		195		195		195		195	195	195
Recurring Fees		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
Total		15,570		12,530		11,895		9,715	6,930	6,925
SPECIAL SEMESTER										
Recurring Fees		225		-		225		225	-	-
Tuition fees		-		-	8	3,800	3	1,410	-	-
Examination Fees		-		-	8	400	3	150	-	-
Total		225		-		4,425		1,785	-	-
SEMESTER 3										
Recurring Fees		-		-		-		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
Total	-		9,170	-		9,520	3,302.50	6,730
SEMESTER 4								
Recurring Fees	-	-	-	-	-	-	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
Total	-	-	-	-	-	7,280	3,305.50	6,730
SEMESTER 5								
Recurring Fees	-	-	-	-	-	-	1,200	1,200
Research Fees	-	-	-	-	-	-	2,102.50	985
Supervision Fee	-	-	-	-	-	-	-	2,160
Total	-	-	-	-	-	-	3,302.50	4,345
SEMESTER 6 ONWARDS								
Recurring Fees	-	-	-	-	-	-	1,200	1,200
Research Fees	-	-	-	-	-	-	2,102.50	985
Supervision Fee	-	-	-	-	-	-	-	2,160
Total	-	-	-	-	-	-	3,302.50	4,345
Grand Total	RM30,720	RM35,035	RM31,245	RM42,095	RM34,150	RM42,230		
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

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>
- (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
- **Assistant Registrar (Higher Degree)**
Tel: 603- 7967 4449
muhammad@um.edu.my
- **Program Coordinator, PhD and Master by Research**
coordinator_pgresearch@um.edu.my
- **Program Coordinator, Master of Real Estate**
coordinator_mre@um.edu.my
- **Program Coordinator, Master of Project Management**
coordinator_mpm@um.edu.my
- **Program Coordinator, Master of Facilities and Maintenance Management**
coordinator_mfmm@um.edu.my
- **Programme Coordinator, Master of Architecture**
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
- **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
e-mail :pengarah_ptm@um.edu.my

UNIVERSITY OF MALAYA MEDICAL CENTRE (UMMC)

University of Malaya
Tel: +603-7949 4422
e-mail: ummc@ummc.edu.my

CAMPUS MAP



CAMPUS MAP





Postgraduate Office
Level 8, Mercu Alam Bina, Faculty of Built Environment
University of Malaya, 50603 Kuala Lumpur
MALAYSIA