UNIVERSITI MALAYA

FAKULTI ALAM BINA
Faculty of Built Environment

ACADEMIC PROGRAMME HANDBOOK

SESSION 2026/2027

ACADEMIC PROGRAMME HANDBOOK SESSION 2026/2027

For Undergraduate and Postgraduate Programmes
Faculty of Built Environment
Universiti Malaya

DEAN'S MESSAGE

"For more than two decades, our faculty has stood at the forefront of research and innovation, establishing itself as a trendsetter in Malaysia and a symbol of academic excellence in the built environment. We remain committed to delivering dynamic, industry-relevant learning experiences that blend academic rigour with real-world application. Our goal is to nurture forward-thinking professionals equipped with the knowledge and skills to make meaningful contributions to the global building, construction, and property sectors"

Assalamu'alaikum Warahmatullahi Wabarakatuh and Selamat Sejahtera.

It is my distinct pleasure to welcome all new students to the Faculty of Built Environment (FBE), Universiti Malaya. You have joined an academic community where traditional excellence meets forward-thinking innovation.

As a leader in the built environment, FBE is dedicated to nurturing *future-proof* graduates—individuals who are not only technically proficient but also possess critical thinking and professional integrity. In alignment with the university's commitment to *Education for Sustainable Development* (ESD), our curriculum is holistically designed to empower you to tackle global challenges in architecture, urban planning, construction, and surveying.

Our academic programmes are meticulously crafted to bridge the gap between academic rigour and industry realities. With esteemed professional accreditations from bodies such as the *Board of Architects Malaysia* (LAM), the *Royal Institute of British Architects* (RIBA), the *Royal Institution of Chartered Surveyors* (RICS), and the *Project Management Institute* (PMI), we ensure that the education you receive meets the highest international standards.

Throughout your academic journey, I encourage you to fully utilize our state-of-the-art labs, design studios, and resource centres. Our studio-centric and interdisciplinary approach provides you with exposure to cutting-edge

technologies like AI, BIM, and virtual reality, while fostering collaboration and social responsibility towards our communities.

I urge you to seize every opportunity—be it through international mobility programmes, research initiatives, or industry networking. Challenge the status quo, think innovatively, and remain lifelong learners.

In closing, I hope your time here at FBE will be a transformative experience that shapes your personal growth and professional success. I wish you all the best and look forward to celebrating your achievements. Welcome to the *Home of the Bright, Land of the Brave*.

Home of the Bright, Land of the Brave

Di Sini Bermulanya Pintar, Tanah Tumpahnya Berani

Datuk Associate Professor Ts. Dr. Zulkiflee Abdul Samad
Dean

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 strengthen research centres, in line with its position as the leading university in Malaysia, recognised on the territorial, national and international levels;
- To create a healthy and conducive intellectual environment, equipping its graduates in the ever rapidly changing future; and
- 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.

ABOUT THE UNIVERSITY

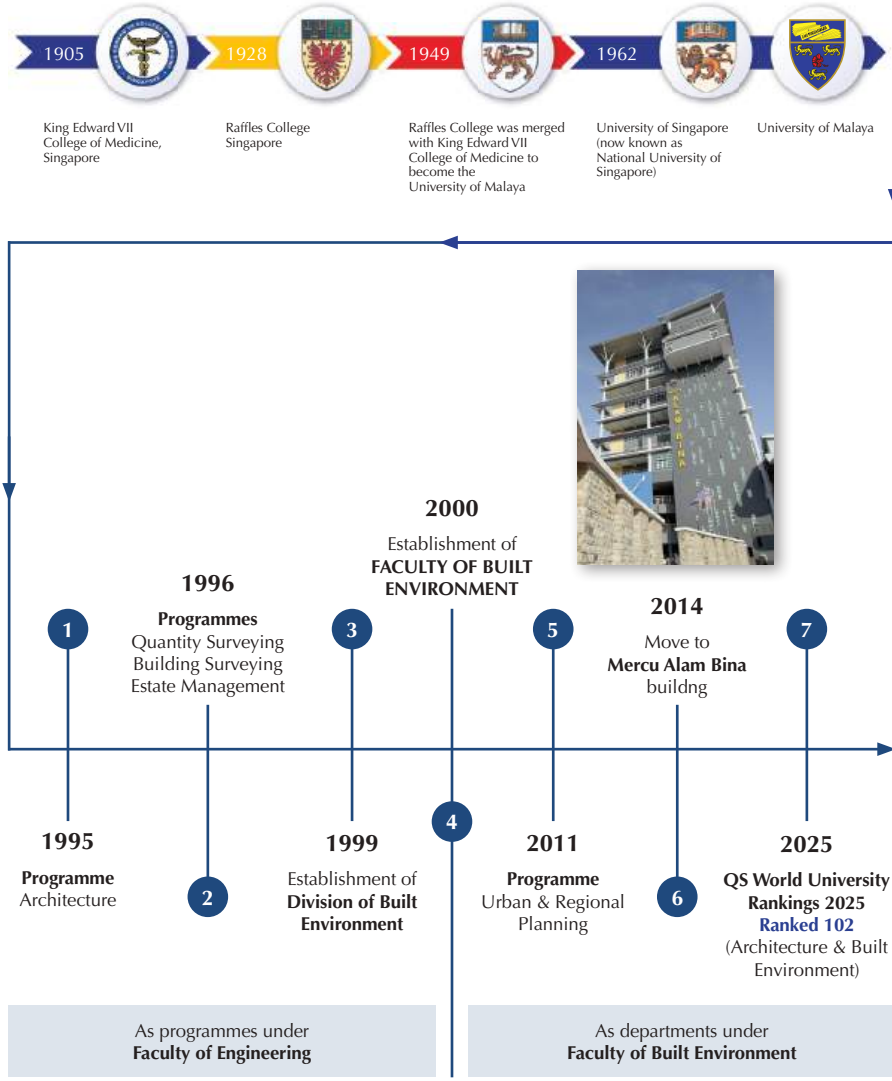
Universiti Malaya (UM) is a public research university located in Kuala Lumpur, Malaysia. It is the oldest university in Malaysia and is the highest ranking Malaysian institution of higher education according to several international ranking agencies. The university has graduated three Prime Ministers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

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

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

Today, UM has more than 2,500 academic staff and 3,500 non-academic staff and divided into 13 faculties, two academies and three academic centres. In 2026 QS World University Rankings, UM ranked at 58 th in the world the highest ranked learning institution in Malaysia.

HISTORY & MILESTONE



LOCAL ACCREDITATIONS

Board of Architects Malaysia (Lembaga Arkitek Malaysia)

- BSc Architecture (Part I) since 1998
- Master of Architecture (Part II) since 2000

Board of Quantity Surveyors Malaysia (BQSM), since 1999
(Lembaga Juru Ukur Bahan Malaysia)

- Bachelor of Quantity Surveying

Board of Valuers, Appraisers, Estate Agents & Property Managers, Malaysia since 1999
(Lembaga Penilai, Pentaksir, Ejen Harta Tanah & Pengurus Harta, Malaysia)

- Bachelor of Real Estate

Board of Town Planners Malaysia, since 2014
(Lembaga Perancang Bandar Malaysia)

- Bachelor of Urban & Regional Planning

Royal Institution of Surveyors Malaysia (RISM), since 1999
(Pertubuhan Juruukur Diraja Malaysia)

- Bachelor of Building Surveying

Royal Institute of British Architects (RIBA) UK, since 2005

- BSc Architecture (Part I)
- Master of Architecture (Part II)

The Royal Institution of Chartered Surveyors (RICS) UK, since 2004

- Bachelor of Building Surveying
- Bachelor of Quantity Surveying
- Bachelor of Real Estate
- Master of Real Estate (since 2012)
- Master of Facilities Management & Maintenance (since 2016)

Project Management Institute, since 2021

- Master of Project Management

GLOBALIZATIONS & LINKAGES

UAE
- Sarjah University
- Ajman University

JAPAN
- The Nippon Foundation
- Sumitomo Foundation
- Utsunomiya University
- Fukui University
- Shibaura Institute Technology
- Keio University

AUSTRALIA
- Deakin University
- University of Melbourne

INDIA
- SRM Institute of Science and Technology
- Vellore Institute of Technology

SPAIN
- CYPE Ingenieros, S.A, Spain
- Savills University Spain

KOREA
- Seoul University of Technology
- Pukyong University
- Hanyang University
- Inha Technical College

UZBEKISTAN
- Tashkent University of Architecture and Civil Engineering

UNITED KINGDOM
- Liverpool John Moores University
- Manchester Metropolitan University

VIETNAM
- Dong Du University
- University of Finance Marketing (UFM)

THAILAND
- Assumption University of Thailand
- King's Mongkut University
- Rangsit University
- Chulalongkorn University

INDONESIA
- Universitas Tarumunagara
- Institut Teknologi Bandung
- Universitas Syiah Kuala Aceh
- Universitas Sumatera Utara (USU)
- Universitas Hasanuddin
- Universitas Indonesia
- Universitas Diponegoro
- Universitas Islam Indonesia

SINGAPORE
- National University of Singapore

HONG KONG
- University of Hong Kong
- City University of Hong Kong

CHINA
- Nanjing University
- Nanjing University Jinling College
- Hohai University
- University of Shanghai
- Wenzhou University Of Technology

CAMBODIA
- Pannasastra University of Cambodia

MALAYSIA
- Jabatan Bomba & Penyelamat
- Pertubuhan Arkitek Malaysia (PAM)
- Malaysian Institute of Planners (MIP)
- Badan Warisan Malaysia
- Schnider (M) Sdn Bhd
- Maxwell CFM International
- UEM Edgenta Berhad
- Pusat Kecemerlangan Kejuruteraan dan Teknologi JKR (CREaTE)
- Archibus (M)
- IME Trading Sdn Bhd
- Syarikat GreeKe Sdn Bhd
- CIDB Holdings Sdn Bhd
- Jabatan Kerja Raya Malaysia
- Dewan Bandaraya Kuala Lumpur
- Lembaga Juruukur Bahan Malaysia (LJBM)
- Syphon Sdn Bhd
- SevenBond Bhd
- Swissma Sdn Bhd

LIST OF AWARD RECIPIENTS

Emeritus Professors @ Faculty of Built Environment

Emeritus Professor Ezrin Arbi
Architecture (2008)

Emeritus Professor Dr. Hamzah A Rahman
Project Management (2024)

Recipients of Honorary Doctoral – Doctor of Architecture

Ar. (Dr) Hijjas Kasturi (2005)

Dato' Dr. Ar. Kenneth Yeang King Mun (2013)

Recipient of Honorary Doctorate – Doctor of Real Estate

Tan Sri Dato' (Dr) Abdul Rahim Abdul Rahman (2018)

Recipients of Royal Education Award

Sr Dr. Raha Sulaiman
(2002)

Sr Dr. Nurshuhada Zainon
(2005)

Izhar Mustaqin Madisa
(2014)

Tham Kuen Wei
(2016)

Lau Win Yei
(2019)

GREEN BUILDING RECOGNITION

UNIVERSITI MALAYA

Excellence AWARDS

UNIVERSITI MALAYA EXCELLENCE AWARDS
2023

is presented to

FACULTY OF BUILT ENVIRONMENT

for outstanding achievement in the category of

UM GREEN AWARD

Home of the Bright, Land of the Brave
Dr. Sras Orendonya Pater, Tanah Tumpahnya Berani

PROFESSOR DATO' SERI IR. DR. NOOR AZUAN ABU OSMAN
Vice Chancellor

23 April 2024

GBI-NREB-0030(P)

11 JUNE 2025

MERCU ALAM BINA, UNIVERSITI MALAYA

green building index

CERTIFIED

DA
DESIGN ASSESSMENT

PROVISIONAL GBI CERTIFICATION

UNIVERSITI MALAYA

FACULTY OF BUILT ENVIRONMENT (FBE)

Initially started with the Architecture programme at the Faculty of Engineering in 1995 and later established as the Faculty of Built Environment (FBE) in 2000, 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 offers five undergraduate professional programmes tailored to meet the nation's development 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 has been 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.

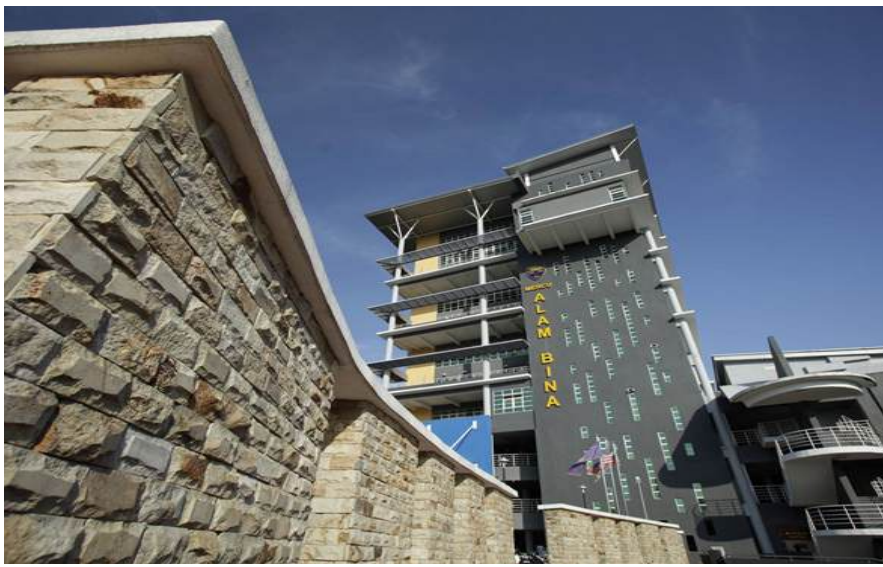
The Bachelor of Building Surveying programme was developed based on the Programme Standards: Building Surveying by Malaysian Qualifications Agency (MQA). The programme is accredited by the Royal Institution of Surveyors Malaysia (RISM) and the Royal Institution of Surveyors (RICS, UK). Meanwhile, the 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). The programme has also been accredited by the Royal Institution of Chartered Surveyors (RICS, UK) since 2004.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 (in Malay known as Lembaga Perancang Bandar Malaysia or "LPBM").

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'.

Upon completing the undergraduate degree, students may pursue any of the master by coursework programmes offered at FBE, i.e., Master of Real Estate (MRE), Master of Project Management (MPM), Master of Facilities and Maintenance Management (MFMM) and 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, whereas MPM is accredited by the Project Management Institute (PMI) from the United States. Additionally, the FBE also offers two postgraduate research programmes namely Master of Built Environment and PhD in Built Environment.

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 been occupying the 10-storey Mercu Alam Bina since October 2012, which is a state-of-d'art building while transforming it as a living lab for research.



ACADEMIC CALENDAR 2026/2027 ACADEMIC SESSION

SEMESTER I

Orientation (*Week of Welcome*) - *WOW*	1 week	26.09.2026 – 04.10.2026
Lectures	8 week*	05.10.2026 – 29.11.2026
Mid Semester I Break	1 weeks	30.11.2026 – 06.12.2026
Lectures	6 week*	07.12.2026 – 17.01.2027
Revision Week	1 week*	18.01.2027 – 24.01.2027
Semester I Final Examination	2 week*	25.01.2027 – 04.02.2027
Semester Break	3 week*	05.02.2027 – 28.02.2027
	22 weeks	

SEMESTER II

Lectures	7 week*	01.03.2027 – 18.04.2027
Mid Semester II Break	1 weeks	19.04.2027 – 25.04.2027
Lectures	7 week*	26.04.2027 – 13.06.2027
UM iFest 2027	*1 week*	*08.06.2027 – 11.06.2027*

(Conducting any Teaching and Learning activities is not permitted. (PdP). Participation is mandatory for final-year students and students undertaking their Final Year Project (FYP)).

Revision Week	1 week	14.06.2027 – 20.06.2027
Semester II Final Examination	2 weeks	21.06.2027 – 04.07.2027
Semester Break	3 week	05.07.2027 – 25.07.2027
	21 weeks	

SPECIAL SEMESTER

Lectures	7 week*	19.07.2027 – 05.09.2027
Special Semester Final Examination	1 weeks	06.09.2027 – 12.09.2027
Semester Break	1 week*	13.09.2027 – 19.09.2027
	9 weeks	

Notes:

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

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

Deepavali	08 November 2026 (Sunday)	*Hibrid Class 06 November 2026 (Friday)
Christmas Day	25 December 2026 (Friday)	*Hibrid Class 24 Dicember 2026 (Thursday)
New Year	01 January 2027 (Friday)	
Thaipusam	22 January 2027 (Friday)	
Federal Territory Day	01 February 2027 (Monday)	
Chinese New Year	06 & 07 February 2027 (Saturday & Sunday)	
Nuzul Al-Quran	24 February 2027 (Wednesday)	
Eidul Fitri	10 & 11 March 2027 (Wednesday & Thursday)	*Hibrid Class 01 - 12 March 2027 (Monday - Friday)
Labour Day	01 May 2027 (Saturday)	
Eidul Adha	17 May 2027 (Monday)	
Wesak Day	20 May 2027 (Thursday)	
Harvest Festival	30 May 2027 (Sunday)	*Hibrid Class 31 May 2027 (Monday)
Gawai Day	01 June 2027 (Tuesday)	*Hibrid Class 31 May 2027 (Monday)
Awal Muharram	06 June 2027 (Sunday)	
His Majesty the King's Birthday	07 June 2027 (Monday)	
Prophet Muhammad's (Maulidur Rasul)	15 August 2027 (Sunday)	
National Day	31 August 2027 (Tuesday)	
Malaysia Day	16 September 2027 (Thursday)	

(#)	Academia Day	05 October 2026 (Monday)
	International Week	19 – 23 October 2026 (Monday - Friday)
	UM iFest 2027	08 – 11 June 2027 (Tuesday - Friday)

(Conducting any Teaching and Learning activities is not permitted. (PdP). Participation is mandatory for final-year students and students undertaking their Final Year Project (FYP)).

EDITORIAL COMMITTEE

Advisory Committee

Associate Professor Dr. Peter Aning Tedong	*Deputy Dean (Undegraduate)*
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Chief Editor

Mr. Asrul Sani Abdul Razak	*Department of Architecture*

Co-Editors

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Mr. Mohd Fakhrulrazi Ibrahim
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Mr. Muhammad Afiq Jasmuri
Mdm. Nor Hafizah Abdullah

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FACULTY OF BUILT ENVIRONMENT (FBE)

FACULTY MANAGEMENT ORGANIZATION CHART

YBhg. DATUK ASSOC. PROFESSOR Ts. DR. ZULKIFLEE ABDUL SAMAD
Dean

ASSOC. PROFESSOR DR. PETER ANING ANAK TEDONG
Deputy Dean
(Undergraduate)

Sr DR. KHO MEI YE
Deputy Dean
(Postgraduate)

ASSOC. PROFESSOR DR. HAZREENA HUSSEIN
Deputy Dean
(Student Affairs)

ASSOC. PROFESSOR Sr DR. NOOR SUZAINI MOHAMED ZAID
Deputy Dean
(Research & Innovation)

ASSOC. PROFESSOR Sr DR. AINORIZA MOHD AINI
Deputy Dean
(Development)

MOHD FAKHRULRAZI IBRAHIM
Manager
(Faculty)

Ar. DR. MOHD FIRRDHAUS MOHD SAHABUDDIN
Head
Dept. of Architecture

ASSOC. PROF. DR. MOHD RIZAL BAHARUM
Head
Dept. of Building Surveying

ASSOC. PROF. Sr DR. ZAFIRAH AL SADAT ZYED
Head
Dept. of Real Estate

Sr DR. NURSHUHADA ZAINON
Head
Dept. of Quantity Surveying

ASSOC. PROF. DR. YONG ADILAH SHAMSUL HARUMAIN
Head
Dept. Urban & Regional Planning

NOOR HIDAYATI ISMAIL
Assistant Registrar
(Postgraduate)

NOR ZAHIAN HANAFI
Assistant Registrar
(Undergraduate)

MAISARAH ROSMAN
Assistant Registrar
(Research & Innovation)

AHMAD TALHAH NABHANI
Assistant Bursar

Updated as of August 2026

EXECUTIVE STAFF

Mohd Fakhrulrazi Ibrahim
Manager (Faculty)
Tel: 03 - 7967 5304
E-mail: fakhrulz@um.edu.my

Noor Hidayati Ismail
Assistant Registrar (Postgraduate)
Tel: 03 - 7967 4449
E-mail: hidayati@um.edu.my

Nor Zahian Hanafi
Assistant Registrar (Undergraduate)
Tel: 03 - 7967 5394
E-mail: zahianhanafi@um.edu.my

Maisarah Rosman
Assistant Registrar (Research & Innovation)
Tel: 03 - 7967 2465
E-mail: maisarah37@um.edu.my

Ahmad Talhah Nabhani
Assistant Bursar
Tel: 03 - 7967 5334
E-mail: ahmadtalhah@um.edu.my

SUPPORTING STAFF

Suzana Md Din
Office Secretary
Dean / Deputy Dean
(Undergraduate)
Tel: 03 - 7967 5395 / 5372
E-mail: suezana@um.edu.my

Nur Hamizah Amalina Muhammad
Assistant Office Secretary
Deputy Dean (Research) /
Deputy Dean (Student Affairs)
Tel: 03 - 7967 7673
E-mail: amalinamuhammad@
um.edu.my

Mohd. Azren Misnan
Assistant Engineer
Tel: 03 - 7967 5374
E-mail: md_azren@um.edu.my

Noraerna Abdul Rahim
Assistant Office Secretary
Deputy Dean (Postgraduate)
Tel: 03 - 7967 6880
E-mail: noraerna@um.edu.my

Muhammad Daim Zuhair Che Mat
Assistant Architecture Officer
Tel: 03 - 7967 5374
E-mail: daim@um.edu.my

Tc. Muhammad Kamalrul Ariffin Mohd Shariffuddin
Assistant Engineer
Tel: 03 - 7967 5374
E-mail: kamalrul@um.edu.my

Nurulfazila Mohd Sajuti
Assistant Science Officer
Tel: 03 - 7967 7610
E-mail: nurulms@um.edu.my

Nur Shuhada Hilal
Assistant Science Officer
Tel: 03 - 7967 6889
E-mail: nurshuhadahilal@um.edu.
my

Norlina Mohamad Istar
Senior Administrative Assistant
(Clerical and Operational)
(Postgraduate)
Tel: 03 - 7967 6856
E-mail: nor_lina@um.edu.my

Muhammad Azli Ab Aziz
Assistant Administrative Officer
Tel: 03 - 7967 2465
E-mail: azli_aziz@um.edu.my

Jayasutha a/p Kamrajoo
Senior Administrative Assistant
(Clerical and Operational)
(Postgraduate)
Tel: 03 - 7967 6856
E-mail: jayasutha@um.edu.my

Siti Norzana Mohd Saleh
Senior Administrative Assistant
(Clerical and Operational)
Dept. of Architecture
Tel: 03 - 7967 5320
E-mail: acim23@um.edu.my

Norhisham Mohamed Halim
Senior Administrative Assistant
(Clerical and Operational)
(Student Affairs)
Tel: 03 - 7967 6807
E-mail: shamz@um.edu.my

Zarina Mohd Yunus
Senior Administrative Assistant
(Clerical and Operational)
Dept. of Building Surveying
Tel: 03 - 7967 5320
E-mail: zarina71@um.edu.my

Noor Hafizah Abdullah
Administrative Assistant
(Clerical and Operational)
(Postgraduate)
Tel: 03 - 7967 6856
E-mail: fyza@um.edu.my

Muhammad Afiq Jasmuri
Administrative Assistant
(Clerical and Operational)
Dept. of Quantity Surveying
Tel: 03 - 7967 5320
E-mail: afiqjasmuri@um.edu.my

Noor Fathehah Kamarzaman
Administrative Assistant
(Clerical & Operational)
(Development Office)
Tel: 03 - 7967 6889
E-mail: fathehah@um.edu.my

Khatijah Abd Kadir
Administrative Assistant
(Clerical & Operational)
(Faculty Manager Office)
Tel: 03 - 7967 6841
E-mail: khatijahkadir@um.edu.my

Jefri Awaluddin
Senior Administrative Assistant
(Finance)
Tel: 03 - 7967 5334
E-mail: jefri@um.edu.my

Siti Mawadah Mohd Shakir
Administrative Assistant
(Finance)
Tel: 03 - 7967 5334
E-mail: mawadah@um.edu.my

Nur Nasuha Abd Razak
Administrative Assistant
(Clerical and Operational)
Dept. of Urban and Regional Planning
Tel: 03 - 7967 5320
E-mail: nurnasuha@um.edu.my

Nur Ainoon Jariah Abdul Hadi
Administrative Assistant
(Clerical and Operational)
Dept. of Real Estate
Tel: 03 - 7967 5320
E-mail: ain_91@um.edu.my

Mohd. Shezul Shaheen Mohd. Adnan
Operational Assistant
Tel: 03 - 7967 7955
E-mail: shezul@um.edu.my

SUPPORT SERVICES

BUILT ENVIRONMENT LIBRARY

With the growing emphasis on information, knowledge and scholarly engagement, the Universiti Malaya (UM) Library has been rebranded as the Digital Scholarship & Information Commons (DSIC). Established in 1959, DSIC now houses a comprehensive collection of over one million up-to-date titles. DSIC comprises the Central Library, which serves the entire campus community, as well as a network of branches and specialised libraries tailored to the specific needs of individual faculties. The Library is headed by the Executive Director and supported by a team of professional librarians, technical and administrative staff.

Built Environment Library is among the specialised libraries within the UM Library network, which caters specifically to the Faculty of Built and Environment (FBE). Prior to 2003, the collection was housed in the Engineering Library, at the Faculty of Engineering. Now, it is located in its own faculty building, the Faculty of Built and Environment. Thus, the Library offers a convenient access to the faculty students and staff during office hours. The library spans approximately 835 square metres, with seating capacity for 133 users. The library is managed by a senior librarian and supported by two staff.

The primary role of the Built and Environment Library is to support the teaching, learning and research activities of both undergraduate and postgraduate students, as well as academic staff and researchers within the faculty. It also extends services to registered users of the UM Library network, subject to borrowing restrictions.

The library's collection focuses on materials relevant to FBE programmmes comprising books, journals, reference books, dissertations and theses, conference proceedings, measured drawings and electronic resources. These can be accessed through Pendeta Discovery, the union catalogue of the UM Library network, which is available to users both on and off campus via the Internet. In addition to Pendeta, a wide range of other digital collections and online services are also available and can be accessed through the UM Library Portal.

Library Collections

- **General**
  The library has a general collection of about 14,500 items consisting of textbooks, reference books, handbooks, journal, CD-ROM and etc.
- **Dissertations & Theses and Academic Exercise**
  This ever-expanding collection consists of works produced by undergraduate and postgraduate students of the FBE. Beginning in late 2024, all new submissions are made available exclusively in digital format.

- **Conference Papers**
  Conference papers presented by academic staff at seminars, conferences especially held in Malaysia are systematically collected and indexed in a dedicated database known as iMalaysiana Collection.

- **Journal, Online Databases and e-Books**
  The Library subscribes to a range of online databases, offering access to mostly full text journals and e-books. Therse resources are accessible via the campus network and remote by registered users. Key databases relevant the built environment include RIBA e-books, IEEE Xplore, Art & Architecture Complete @EBSCOHOST, Science Direct, Springer Link, etc.

Library Services

- **Loans, Online Renewal and Reservation**
  Most books are available for loan, excluding Reference collection and Special collection such as dissertation & thesis, academic exercise, measured drawings, personal collection, conference proceedings. The library's integrated system allows online renewal by the individual by each user; and also reservation of books when materials on loan to other user.

- **Discussion Area**
  Located adjacent to the library office and can accommodate up to 16 users. This area is spacious and suitable for any discussion and meeting. It is open to the public whereby users need to make a reservation at the counter.

- **Inter-Library Loan and Document Supply Services**
  Postgraduate students, researchers and academic staff of the Faculty may request materials that are not available in UM Library via inter-library loans and document delivery services. Requests are submitted electronically through the UM Library's interactive portal.

- **Access to Other Resource Centres in Malaysia**
  Registered students and academic staff of the Universiti Malaya may visit and use (for reference purposes) other academic and public universities libraries in Malaysia, as part of a national resource-sharing initiative.

- **User Education Session**
  Special sessions are conducted for postgraduate students, researchers and academic staff to guide them in the use of library resources, including Pendeta Discovery catalogue, A-Z Online Databases, Students' Repository, Endnote reference management software and subscribed online databases.

- **Reference and Information Enquiries**
  Librarian is available to assist users in locating resources. For assistance, please contact Miss Ulya Sujak at 03-79676802 or email at ulya.um.edu.my

- **Opening Hours**

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

OTHER FACILITIES

- **Studios**
  Studios are located from Levels 4 to 7 and can be accessed from 8.00 am to 10.00 pm (weekdays) and from 8.00 am to 6.00 pm (Saturday) but closed on Sunday. Students are reminded to keep the studios clean and observe proper code of conduct at all times.

- **Photocopying and Printing Services**
  Photocopying and printing services are provided in the Printing Room, Level 6 during normal working hours.

- **Student Lounge**
  The Student Lounge is located at Level 3, Mercu Alam Bina to give students space for study and relaxation between classes.

- **Surau/Musolla (Praying Room)**
  Male and female Musollas are located on the second floor of Mercu Alam Bina.

- **WIFI**
  Access is available within the building with a number of access points.

- **Computer and Virtual Reality Laboratories**
  The computer laboratory is a facility for all students of the faculty. The computer laboratory is for teaching purposes that include facilities for 2D draughting, 3D modelling and simulation. All the computers are networked within the faculty's area network and are situated at Level 6. The Virtual Reality Lab is located within the Computer Lab and requires booking in advance. The labs are open during normal working hours.

- **Woodworking and Metalworking Workshop**
  Woodworking and Metalworking Workshop is available for students to make and construct small-scale products from architecture models to furniture prototypes. The workshop, equipped with hand and power tools for model-making with wood, plastics and metal, is open by request during normal working hours by all students of the faculty. Several equipment are available for loan outside operating hours. One full-time technician supervises the workshop activities and provides hands-on training and assistance to students.

- **Specialised Laboratories**
  There are specialised laboratories within the faculty buildings that support lecturers and students in teaching and research activities. These are Environmental Physics Lab, Building Lab and Digital Fabrication Lab. These three labs provide advanced training and practical applications with the use of state-of-the-art machines and equipment, under the supervision of experienced academic and technical staff. These labs are open by request during normal working hours. Faculty staff supervises the workshop activities and provides hands-on training and assistance to students. The faculty is in the process of establishing new labs such as Fire Lab and BIM lab that can cater for future teaching and learning in the built environment.

- **Measuring and Surveying Equipments**
  Measuring and Surveying equipment such as theodolite, QLASSIC inspection tools and PPE equipment are available at Level 6. The equipment is available for borrowing upon request during normal working hours.
- **Café**
  The faculty's café is located at Level 3 and is open during office hours on weekdays.
- **Motorcycle Parking Space**
  The motorcycle parking space is located at the rear of Mercu Alam Bina (Parking B).
- **E-hailing and Food Delivery Service Pick-up and Drop-off Point**
  The e-hailing and food delivery service pick-up and drop-off point is located at the lobby of Mercu Alam Bina (front).

OTHER MATTERS

Cashless Campus

As part of the UM Smart Campus initiative, UM has launched UM cashless services across campus including cafés, shops, administrative offices, as well as other amenities.

Disciplinary Matters

Dress code for students:

These rules are made in accordance with Rule 28, the University of Malaya (Discipline of Students) Rules 2024. The rules aim to provide guidelines on the appropriate dress code and conduct to be observed by all students of the Universiti Malaya.

(1) Every student is required **TO DISPLAY THEIR MATRIC CARD** when attending or when they present in the vicinity of the University's Administration Offices including lecture halls, examination halls, seminar rooms, libraries and in any formal ceremony;
(2) Each student is required to abide by the rules indicated at specific venues such as the library, laboratory, sports arena, prayer room, dining hall, at formal university function and so forth;
(3) Wear neat and decent attire, for instance: shirt, T-shirts, long pants for male students and baju kurung, kebaya labuh or any ethnic costumes or decent clothing approved for Muslim students; and
(4) Shoes.

Enforcement:

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

Excerpt

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

Students must follow the Dress Etiquettes as stated below:

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

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

UNIVERSITI MALAYA

TATACARA BERPAKAIAN DAN PENAMPILAN PELAJAR UNIVERSITI MALAYA

DRESS CODE AND APPEARANCE GUIDES FOR UNIVERSITI MALAYA STUDENTS

Semua pelajar dikehendaki mematuhi Arahan Pentadbiran Universiti Malaya (Etika Berpakaian dan Penampilan Pelajar) 2024 sewaktu berada di kawasan kampus.
UM Students must adhere to the Universiti Malaya Administrative Directions (Student Dress Code and Appearance) 2024 while on campus.

Majlis Rasmi
Official Events

Kuliah, Urusan Pejabat, Peperiksaan dan Perpustakaan
Lectures, Office Matters, Examination and Library

Sukan dan Rekreasi
Sports and Recreational

Semua staf universiti termasuk staf akademik, pentadbiran, perpustakaan, dan keselamatan adalah diberi kuasa memberi teguran sama ada secara lisan atau bertulis kepada mana-mana pelajar yang didapati melanggar mana-mana peruntukan di dalam Arahan Pentadbiran ini. Mana-mana pelajar yang tidak mematuhi peruntukan Arahan Pentadbiran ini boleh dihalang daripada memasuki atau berurusan di kawasan yang dikuatkuasakan peruntukan Arahan Pentadbiran ini atau apa-apa tindakan pentadbiran lain yang ditetapkan dari semasa ke semasa.

All university staff members including academic, administrative, library and security are authorised to reprimand either verbally or in writing to any student who is found to be in violation of any of the provisions in these Administrative Directions. Any student who does not comply with the provisions of these Administrative Directions may be prevented from entering or dealing in the area where the provisions of these Administrative Directions are enforced or any other administrative actions determined from time to time.

SCAN ME

Dikeluarkan oleh: Jabatan Hal Ehwal Pelajar (JHEP)
Issued by: Student Affairs Department

Tarikh dikeluarkan: 21 Februari 2024
Date of issue: *21st February 2024*

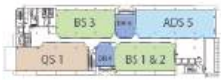
Refer to: https://hep.um.edu.my/URUSAN%20TATATERTIB/POSTER%20ASAL%20%20PERATURAN%20PEMAKAIAN%20(Saiz%2020%20x%2028%20inci).pdf

FBE LAYOUT – Mercu Alam Bina

Level 10
- Lecturer Rooms
- Meeting Room 2

Level 9
- Lecturer Rooms
- Meeting Room 1

Level 8
- Faculty Meeting Hall
- Administrative Office
- Dean/Deputy Dean Offices
- Head of Department Offices



Level 7
- Discussion Room 4 & 5
- Architecture Design Studio 5
- Quantity Surveying Studio 1
- Building Surveying Studio 1 - 3

Level 6
- Printing Room
- Conference Room 2
- e-Learning Lab
- ICT Laboratory
- Quantity Surveying Studio 2
- Built Environment Development Unit
- Aun-DDPnet Lab
- Virtual Design and Construction Lab

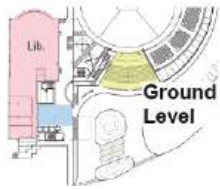
Level 5
- Discussion Room 2 & 3
- Architecture Design Studio 1 - 4

Level 4
- Exhibition Space
- Real Estate Studio 1 & 2
- Discussion Room 1
- Urban and Regional Planning Studio 1- 4

Level 3
- Seminar Room, BK 1-7
- Student Lounge
- Cafeteria

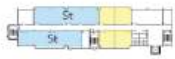
Level 2
- Sidang Karyawan
- Musolla
- Staff Parking
- Auditorium (upper level)

Level 1
- Auditorium
- VIP Lounge
- Conference Room 1
- Built Environment Banquet Hall



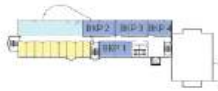
Ground Level
- Built Environment Library
- Main Lobby
- Outdoor Ampitheatre
- Guest Parking

FBE LAYOUT – Surveying Block



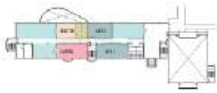
Level 4

- Studio
- Research Offices



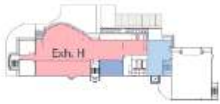
Level 3

- Post Graduate Room, BKP 1 - 4
- Post Graduate Lounge
- Offices



Level 2

- Research Lounge
- Centre for Building, Construction and Tropical Architecture (BUCTA)
- Centre for Sustainable Urban Planning and Real Estate (SUPRE)
- CORE Room
- Meeting Room 1 & 2

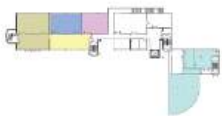


Level 1

- Staff Parking
- Main Lobby
- Exhibition Hall
- Discussion Area

Upper Ground Level

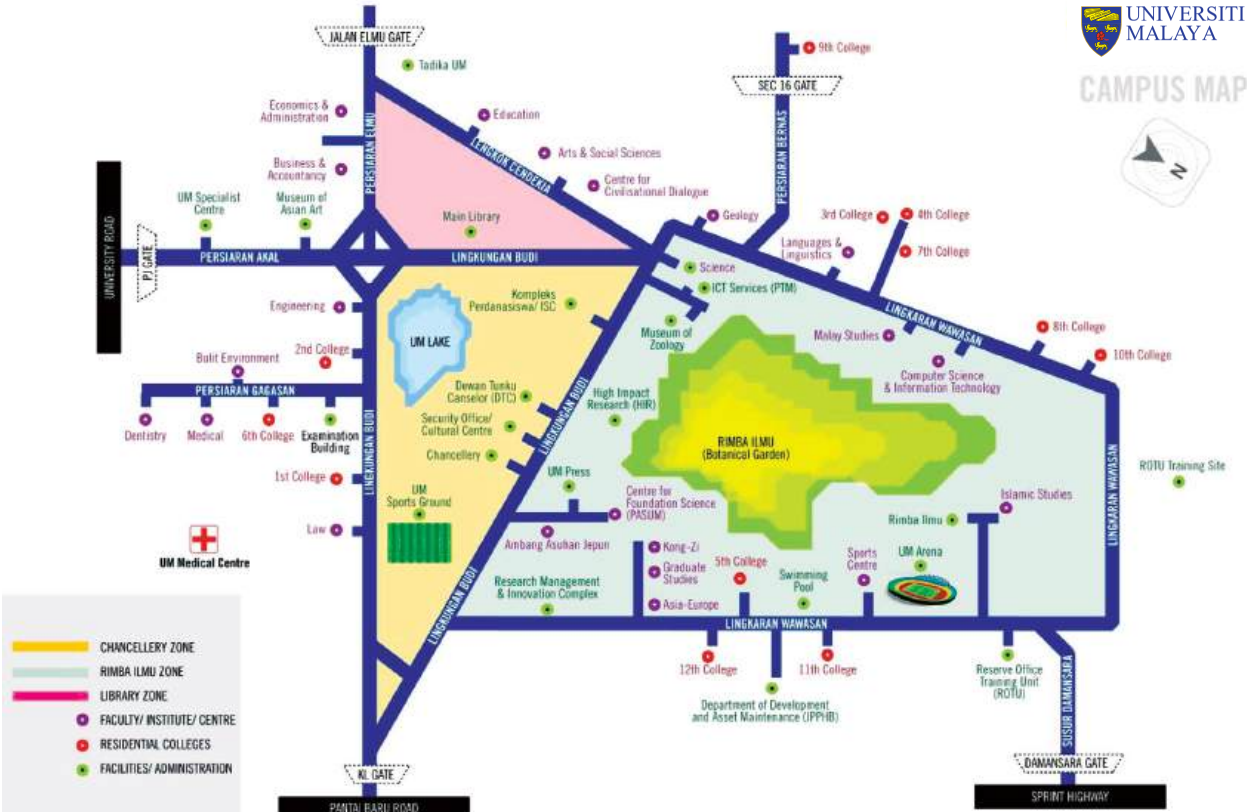
- Office



Ground Level

- Woodworking Workshop
- Building Surveying Lab
- Environmental Physics Lab
- Digital Fabrication Lab
- Office

CAMPUS MAP


UNIVERSITI MALAYA
CAMPUS MAP
JALAN ELMU GATE
Tadika UM
Economics & Administration
Education
Business & Accountancy
Arts & Social Sciences
Centre for Civilisational Dialogue
UM Specialist Centre
Museum of Asian Art
Main Library
Geology
3rd College
4th College
7th College
Languages & Linguistics
Science
ICT Services (PTM)
Engineering
Kompleks Perdanasiswa/ ISC
UM LAKE
Museum of Zoology
Malay Studies
8th College
10th College
Computer Science & Information Technology
Bulit Environment
2nd College
Dewan Tunku Canselor (DTC)
High Impact Research (HIR)
Security Office/ Cultural Centre
Chancellery
Dentistry
Medical
6th College
Examination Building
1st College
UM Press
RIMBA ILMU (Botanical Garden)
ROTU Training Site
UM Sports Ground
Centre for Foundation Science (PASUM)
Islamic Studies
Rimba Ilmu
Law
UM Medical Centre
Ambang Asuhan Jepun
Kong-Zi
Graduate Studies
5th College
Sports Centre
UM Arena
Swimming Pool
Research Management & Innovation Complex
Asia-Europe
12th College
11th College
Reserve Office Training Unit (ROTU)
Department of Development and Asset Maintenance (JPPHB)
UNIVERSITY ROAD
PJ GATE
PERSIARAN AKAL
LINGKUNGAN BUDI
PERSIARAN ELMU
LENGKON CENDEKIA
PERSIARAN BERNAS
SEC 16 GATE
9th College
LINGKARAN WAWASAN
PERSIARAN GAGASAN
SUSUR DAMANSARA
KL GATE
PANTAI BARU ROAD
DAMANSARA GATE
SPRINT HIGHWAY
CHANCELLERY ZONE
RIMBA ILMU ZONE
LIBRARY ZONE
FACULTY/ INSTITUTE/ CENTRE
RESIDENTIAL COLLEGES
FACILITIES/ ADMINISTRATION

UNDERGRADUATE PROGRAMMES

IMPORTANT INFORMATION

1. APPLICATION FOR TRANSFER AND EXEMPTION OF CREDIT

(a) An application for transfer or exemption of credit can be submitted through the PaCE system available on the MAYA Portal. The application can be made in the first year (up to the second semester) not later than third week of lectures in a regular semester and all required documents listed below:
   (i) Course information (The currency of knowledge for the programme must be capped at 5 years; and
   (ii) Course Learning Outcome; and
   (iii) Course Objectives and Assessment
   (iv) Academic Transcript
   (v) Grading Scheme

(b) The maximum total of credit hours that may be transferred or exempted shall not exceed one-third (1/3) of the total credit hours of the programme of study concerned.

2. DEAN'S LIST

A student who obtains a GPA of 3.7 and above in any Normal Semester and fulfils the following conditions shall be recorded with a "Pass with Distinction" for the Semester concerned:

(a) Had taken and sat for the examinations of courses totaling a minimum of 15 credits hours in the Normal Semester concerned consisting of a minimum of four courses, not including courses with Grade S as a pass;
(b) Had obtained no lower than a grade C for any course taken in the semester concerned; and
(c) Did not repeat any course in the semester concerned.

3. AWARD OF A DEGREE

(a) The Degree will be awarded is an honours degree based on the final CGPA and must obtain a final CGPA of not less than 2.0.
(b) A student is qualified for the award of a degree of a Pass with Honours (With Distinction) if:
   (i) Achieves a final CGPA of 3.7 and above;
   (ii) Has never obtained Grade F for any course for the duration of his programme of study; and
   (iii) Has successfully completed his programme of study within the prescribed duration.

4. ACADEMIC TEACHING LEARNING ASSESSMENT SYSTEM (UM-ATLAS)

(a) All undergraduate and postgraduate students are required to complete the evaluation for all courses registered in the current semester. Access to the system is available via https://myum.um.edu.my or https://spectrum.um.edu.my.
(b) Please be advised that failure to complete the UM-ATLAS evaluation within the stipulated period will result in students being unable to access their final examination results for current semester.

5. ASSESSMENT AND EXAMINATIONS

Grades can be awarded based on continuous assessment, examination and a combination of both. Students should be aware that the components of assessment methods may differ based on the requirements of each subject.

6. COURSE REGISTRATION

(a) All students are required to register for the courses within the period prescribed every semester through http://maya.um.edu.my.

(b) Registration for any course must be completed before the start of a semester. Any student who does not complete registration within the duration prescribed will not be allowed to pursue the course concerned.

(c) The maximum number of credits which can be registered by a student is not exceeding 22 credits in the Normal Semester and 11 credits in the Special Semester. For students under the Academic Probationary Period, the maximum number of credits that can be registered by a student is not exceeding 15 credits in the Normal Semester and 9 credits in the Special Semester.

7. ATTENDANCE IN PROGRAMME OF STUDY

(a) It is compulsory for a student to attend all teaching and learning activities related to his programme of study.

(b) A student who does not attend any teaching and learning activities is required to inform the reason for absence to the lecturer/ instructor immediately together with the relevant supporting documents.

8. APPEAL AGAINST EXAMINATION RESULTS

(a) A student who is not satisfied with his examination results including the continuous assessment component and/or final examination of the course may appeal for a review of the examination results. The appeal shall be made within seven (7) days from the official date of announcement of the examination results.

(b) A payment based on the prescribed rate shall be made to process the application for examination results to be reviewed. The payment made is non-refundable regardless of whether the appeal is successful or otherwise.

(c) The appeal shall be made in a prescribed form by the University. The completed form shall be submitted to the Dean's Office together with a copy of the receipt of the payment for the appeal made.

9. GRADING SCHEME

The passing grade for all courses is grade C. The official University grades including the marks and their meaning are as follows:

Grade	Marks	Grade Point	Meaning
A+	90.00 — 100.00	4.0	High Distinction
A	80.00 — 89.00	4.0	Distinction
A–	75.00 — 79.00	3.7	D istinction
B+	70.00 — 74.00	3.3	Good
B	65.00 — 69.00	3.0	
B–	60.00 — 64.00	2.7	
C+	55.00 — 59.00	2.3	Pass
C	50.00 — 54.00	2.0	
C–	45.00 — 49.00	1.7	Fail
D+	40.00 — 44.00	1.3	
D	35.00 — 39.00	1.0	
F	0.00 — 34.00	0.0	

*As extracted from Universiti Malaya (Bachelor's Degree) Rules & Regulations 2019 in Student Portal (MYUM Portal).

STUDENT AWARDS (UNIVERSITY LEVEL)

Student Awards	Notes
Royal Education Award	• Has obtained in a final semester at least a Pass with Honours (with Distinction) with a final CGPA of 3.70 and above; • Has never obtained grade F and/or grade U for any courses; • Has never repeated any course for the purpose of improving a grade; • Has successfully completed this programme of study within the minimum period prescribed for his programme unless has been approved withdrawal from any semester but not include in the period of study by the University; • Active in co-curricular activities and obtained prizes based on the excellent academic achievement and co-curricular activities; • Has never been convicted on any disciplinary offence under any disciplinary rules; and • No outstanding debt to the University.
Universiti Malaya Book Prize	• Awarded to graduates who have completed the undergraduate programmes with an honour's degree (With Distinction) and a final CGPA of 3.70 and above.
Professor Ezrin Arbi's prize	• Awarded to a graduate with the highest score in CGPA. Recipient may be selected from the various disciplines offered by the Faculty at the undergraduate level.
Tan Sri Abdul Rahim Excellence Award	• Awarded to a graduate who has completed the degree of Bachelor of Real Estate with an Honours degree (With • Distinction) and a final CGPA must achieve 3.70 and above and also active in co-curriculum activities.
Puan Sri Datin Seri Nila Inangda Manyam Keumala Excellence Award	• Awarded to graduates who have completed the degree of Bachelor of Science in Architecture (with an Honours degree (With Distinction) and a final CGPA must achieve 3.70 and above and also active in co-curriculum activities) and in Master of Architecture.
Urban Scale Excellence Award	• Awarded to a graduate who has completed the degree of Bachelor of Urban and Regional Planning with an Honours degree (With Distinction) and a final CGPA must achieve 3.70 and above and also active in co-curriculum activities.

UNIVERSITY COURSES

UNIVERSITY COURSES

Students are **REQUIRED** to complete university courses (each carries 2 credit) based on the respective study plan of the programme.

Local Student	International Student
GIG1017 Philosophy and Current Affairs (FCS) 2 credits	GIG1018 Malaysian Citra (CM) 2 credits
GIG1019 Malaysian Nation-State Aspiration (ANB) 2 credits	GLT1049 Malay Language Communication 2 credits
GIG1003 Basic Entrepreneurship Culture 2 credits	GIG1003 Basic Entrepreneurship Culture 2 credits
GIG1016 Integrity and Anti-Corruption Course (KIAR) 2 credits	GIG1016 Integrity and Anti-Corruption Course (KIAR) 2 credits
GLTXXXX English Communication Courses 4 credits	GLTXXXX English Communication Courses 4 credits
GKXXXXX Co-curriculum Courses 2 credits	GKXXXXX Co-curriculum Courses 2 credits
GUL1001 Embrace@UMLEADER 2 credits	GUL1001 Embrace@UMLEADER 2 credits
GUL2002 Ignite@UMLEADER 2 credits	GUL2002 Ignite@UMLEADER 2 credits
GLT2000 Professional Malay for Career and Organisation	N/A

GIG1017 **PHILOSOPHY AND CURRENT AFFAIRS**

2 credits

Synopsis of Course Contents

This course explains the foundational principles and philosophical framework underlying the development of Malaysian society, with emphasis on key concepts such as the Rukun Negara, the National Education Philosophy, Sejahtera Philosophy, and MADANI Philosophy. The use of philosophical analysis as a mode of thinking is introduced as a systematic intellectual approach to understanding and addressing various contemporary life challenges. Through exposure to the main components of philosophical knowledge, students are trained to analyse contemporary issues and develop critical and reflective thinking skills. By the end of the course, students are expected to evaluate and formulate strategies based on philosophical approaches in addressing future challenges, thereby contributing to the development of an inclusive, prosperous, and forward-looking Malaysian society.

Learning Outcomes

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

1. Explain the foundations and philosophical framework in the development of Malaysian society.
2. Describe the main components of philosophical knowledge.
3. Analyse current issues and challenges based on philosophical analysis.

Assessment:

Continuous Assessment 100%

GIG1018 **MALAYSIAN CITRA**

2 credits

Synopsis of Course Contents

This course offers a comprehensive introduction to Malaysia, encompassing its historical evolution, geographical diversity, cultural richness, and socio-political development. Students will explore the formation of modern Malaysia, its multicultural society, linguistic diversity, and unique traditions rooted in ethnic and religious diversity. The course also highlights Malaysia's traditional arts and heritage, including elements recognised by UNESCO. Students will acquire foundational knowledge of Malaysia's political and administrative system, federal structure, and Constitutional Monarchy system. In addition, the course examines Malaysia's economic transformation, key industrial sectors, and current challenges in the context of digital and sustainable development. Malaysia's position as an international tourism hub, as well as its global achievements in diplomacy, sports, and trade, are also emphasised. The final part of the course focuses on Malaysia's future prospects, particularly in relation to smart cities, climate change, youth engagement, and innovation. Through this course, students will develop a comprehensive understanding of Malaysia's national identity and its evolving role at the global level. The teaching and learning process, through experiential learning, lectures, and assignments, enables students to acquire knowledge while appreciating the realities of life in Malaysia.

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Learning Outcomes

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

1. Identify Malaysia's unique identity as a multi-ethnic and multicultural nation.
2. Explain the importance of Malaysia's political and economic transformation in promoting sustainable development through respectful dialogue and collaborative discussion.
3. Demonstrate commitment through a comprehensive understanding of Malaysia's identity, its role at the global level, and the factors that contribute to the harmony and progress of its society.

Assessment:

Continuous Assessment 100%

GIG1019 MALAYSIAN NATION-STATE ASPIRATION

2 credits

Synopsis of Course Contents

This course explores the foundations of the formation and development of the Malaysian nation-state, with emphasis on elements of nationhood, the history of ethnic interactions, and the uniqueness of Malaysian society. The course also discusses the theoretical framework of unity, the concept of the nation-state, and the vision of Bangsa Malaysia Madani, which is rooted in the values of the Rukun Negara, Vision 2020, Malaysia Madani, and other national initiatives. In addition, the course exposes students to current realities, including regional and territorial sentiments, as well as the challenges in building a harmonious and inclusive society. Emphasis is also placed on the influence and impact of technology and climate change on the aspirations of nation-state development, in line with the Sustainable Development Goals (SDGs).

The teaching and learning (T&L) of this course will strengthen students' understanding of Malaysia's aspirations as a progressive and tolerant nation, highlighting shared values such as goodwill, acceptance, harmony, and the sharing of common values.

Learning Outcomes

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

1. Analyse the concept of the Malaysian nation-state through historical development, sociocultural changes, and the influence of technology.
2. Practise the principles of nationhood and unity in daily life based on the framework of the Malaysian nation state.
3. Integrate Malaysia's aspirations as a guide in community life towards the development of the nation state.

Assessment:

Continuous Assessment 100%

GLT1049 **BASIC MALAY LANGUAGE**

2 credits

Synopsis of Course Contents

This course trains international students to communicate in basic Malay, covering everyday life situations. Students will be introduced to simple spoken and written Malay. Teaching and learning will be conducted through tutorials, assignments, and students' learning experiences inside and outside the classroom. By the end of this course, students are expected to communicate and write effectively using simple sentences.

Learning Outcomes

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

1. Read and explain the meaning of texts
2. Speak in various situations using simple sentences and compound sentences;
3. Organise essay content systematically and creatively.

Assessment:

Continuous Assessment 100%

GLT2000 **PROFESSIONAL MALAY FOR CAREER AND ORGANISATION**

2 credits

Synopsis of Course Contents

This course is designed to introduce students to the concepts and practices of Malay language oral and written communication in workplace and professional contexts. Students will apply the principles of professional Malay language communication, communication ethics, and effective message delivery strategies in a variety of workplace situations. In addition, the course provides exposure to the preparation and analysis of various Malay language management documents in accordance with organizational requirements and professional contexts.

At the end of the course, students will be able to apply effective Malay language communication skills and produce appropriate documents that meet workplace communication needs.

Learning Outcomes

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

1. Identify the concepts of Malay oral and written communication in the workplace;
2. Analyse different types of Malay language management documents according to workplace situations.
3. Apply Malay communication principles in various workplace or career-related situations.

Assessment:

Continuous Assessment: 100%

LIST OF REFERENCE:

1.	**MUET**	-	MALAYSIAN UNIVERSITY ENGLISH TEST
2.	**IELTS**	-	INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM
3.	**TOEFL**	-	TEST OF ENGLISH AS A FOREIGN LANGUAGE
4.	**PTE (ACADEMIC)**	-	PEARSON TEST OF ENGLISH (ACADEMIC)
5.	**FCE**	-	CAMBRIDGE ENGLISH: FIRST
6.	**GCE (A LEVELS)**	-	GENERAL CERTIFICATE OF EDUCATION (A LEVEL), UNIVERSITY OF CAMBRIDGE
7.	**IGCSE/GCSE (O LEVELS)**	-	INTERNATIONAL GENERAL CERTIFICATE OF SECONDARY EDUCATION / INTERNATIONAL GENERAL CERTIFICATE OF SECONDARY EDUCATION (O LEVEL), UNIVERSITY OF CAMBRIDGE

SUMMARY OF LANGUAGE UNIVERSITY COURSE PACKAGE EFFECTIVE FROM INTAKE 2026/2027

Pathway	Stream	Y1S1 (if applicable)	Y1S2	Y2S1	Y2S2 (if applicable)
Path 1 (CEFR B1)	Arts	Placement Test# *- for students without recognised English qualifications upon entry*	GLT1050	GLT1052	GLT1053 (APM)
	Science		GLT1051	GLT1052	-
Path 2 (CEFR B2)	Arts		GLT1054	GLT1056	GLT1057 (APM)
	Science		GLT1055	GLT1056	GLT1058 (MBBS)
Path 3 (Foreign Language)	Arts		GLT Foreign Languages	GLT Foreign Languages	GLT Foreign Languages
	Science		GLT Foreign Languages	GLT Foreign Languages	GLT Foreign Languages

#Placement Test is required for students who do not possess recognised English qualifications upon admission.

KEY FEATURES

- Placement Mechanism – Students are placed into Path 1, Path 2, or Path 3 based on recognised English qualifications. A Placement Test will be conducted for students who do not possess recognised English qualifications upon admission.
- Course Registration – Courses will be packaged into students' course registration in Semester 2 (Y1S2) and Semester 3 (Y2S1) according to the designated pathway and stream-specific entry courses for Arts and Science.
- Pathway Design – Path 1 and Path 2 are offered as English pathways, while Path 3 focuses on Foreign Language courses to provide students with higher English language proficiency, the opportunity to develop additional global language competencies, and multilingual communication skills.

LANGUAGE UNIVERSITY COURSES (LUC) EFFECTIVE FROM INTAKE 2026/2027
KURSUS UNIVERSITI BAHASA (LUC) BERKUAT KUASA MULAI KEMASUKAN 2026/2027

Semester Enrolment/ Path	**Path 1** **Entry: A2/ B1** **Exit: High B1/ Low B2**		**Path 2** **Entry: High B1/ Low B2** **Exit: High B2/ Low C1**		**Path 3 (Foreign Language)** **Entry: A1/ A2** **Exit: B1**
Semester 1 (if applicable) Placement test# *- for students without recognised English qualifications upon entry*	CEFR A2 and B1 MUET Band 2, 2.5, 3 & 3.5 IELTS Band 4.0 – 5.0 TOEFL Paper-Based Test (437 – 510) TOEFL Computer-Based Test (123 – 180) TOEFL Internet-Based Test (TBC) TOEFL Essentials (Online) (Band 3 – 7.5) PTE (Academic) – (10 – 41) IGCSE/GCSE (English) (D, E, F, and G)		CEFR B2 MUET Band 4 & 4.5 IELTS Band 5.5 – 6.0 TOEFL Paper-Based Test (513 – 547) TOEFL Computer-Based Test (183 – 210) TOEFL Internet-Based Test (TBC) TOEFL Essentials (Online) (Band 8 – 9.5) PTE (Academic) – (42 – 57) GCE A Level (English) (Minimum C) IGCSE/GCSE (English) (C)		CEFR C1 and C2 MUET Band 5, 5+ & 6 IELTS Band 6.5 – 9.0 TOEFL Paper-Based Test (550 – 677) TOEFL Computer-Based Test (213 – 300) TOEFL Internet-Based Test (TBC) TOEFL Essentials (Online) (Band 10 – 12) PTE (Academic) (58 – 90) GCE A Level (English) (A and B) IGCSE/GCSE (English) (A and B)
Semester 2	Arts Stream GLT1050 Intermediate Reading and Writing for Social Sciences and Humanities	Science Stream GLT1051 Intermediate Reading and Writing for Science	Arts Stream GLT1054 Advanced Reading and Writing for Social Sciences and Humanities	Science Stream GLT1055 Advanced Reading and Writing for Science	GLTxxxx Foreign Languages
Semester 3	GLT1052 Intermediate Speaking Skills		GLT1056 Advanced Speaking Skills		GLTxxxx Foreign Languages
Semester 4 (Programmes with 6-credit LUC)	GLT1053 Intermediate Writing Skills APM only		Arts Stream GLT1057 Advanced Writing Skills APM only	Science Stream GLT1058 Science Communication for Global Audiences MBBS only	GLTxxxx Foreign Languages

Note: #Placement Test applies where results are unavailable, including for students admitted via Kemasukan Khas (Athlete/SATU) and graduates of the Foundation Programme (China campus)

Note: #Placement Test applies where results are unavailable, including for students admitted via Kemasukan Khas (Athlete/SATU) and graduates of the Foundation Programme (China campus)

LIST OF LANGUAGE UNIVERSITY COURSES - FOREIGN LANGUAGES

NO.	COURSE CODE	COURSE NAME	CREDIT
1	GLT1029	Basic Arabic Language 1	2
2	GLT1030	Basic Arabic Language 2	2
3	GLT1031	Basic Japanese Language 1	2
4	GLT1032	Basic Japanese Language 2	2
5	GLT1033	Basic Korean Language 1	2
6	GLT1034	Basic Korean Language 2	2
7	GLT1035	Basic Persian Language	2
8	GLT1036	Basic Portuguese Language 1	2
9	GLT1037	Basic Portuguese Language 2	2
10	GLT1038	Basic Russian Language 1	2
11	GLT1039	Basic Russian Language 2	2
12	GLT1040	Basic Spanish Language 1	2
13	GLT1041	Basic Spanish Language 2	2
14	GLT1042	Basic Thai Language 1	2
15	GLT1043	Basic Thai Language 2	2
16	GLT1044	Basic Turkish Language	2
17	GLT1045	Basic Filipino Language I	2
18	GLT1046	Basic Filipino Language II	2
19	GLT1047	Basic Vietnamese Language I	2
20	GLT1048	Basic Vietnamese Language 2	2

ARCHITECTURE

Bachelor of Science in Architecture

ACADEMIC STAFF
DEPARTMENT OF ARCHITECTURE

HEAD

Ar. Dr. Mohd Firrdhaus Mohd Sahabuddin
PhD (Sustainable Architecture), University of Strathclyde, United Kingdom
M.Sc (Advanced Sustainable Design), University of Edinburgh, United Kingdom
B.Arch (Hons), Universiti Teknologi Malaysia
Dipl. (Architecture), Universiti Teknologi Malaysia
LAM Registered Architect
Tel : 03-7967 2459
E-mail: firrdhaus@um.edu.my

EMERITUS PROFESSOR

Emeritus Professor Ezrin Arbi
Pg Dip TRP, B.Arch (Melb), Cert. Prjt Analysis (UN AIEDP Bangkok)
FRAIA, FPPM, FBeng (UK)

ASSOCIATE PROFESSORS

Associate Professor Dr. Norafida Ab Ghafar
PhD (Sustainable Architecture), University of Nottingham, UK
M.A (Urban Design), Pg.Dipl. (Architecture),
Pg.Dipl. (Urban Design), Oxford Brookes University, UK
Dipl. (Architecture), Institut Teknologi MARA
LAM Graduate Member
Tel: 03-7967 6820
E-mail: norafida@um.edu.my

Associate Professor Ts. Dr. Nazli Che Din
PhD (Engineering), Oita University, Japan
M.Eng (Architecture), Oita University, Japan
B.Eng (Architecture), Oita University, Japan
BEM Registered Engineering Technologist
BEM Graduate Member
LAM Registered Architectural Technologist
MBOT Professional Technologist
MBOT Graduate Member
Tel: 03-7967 6827
E-mail: nazlichedin@um.edu.my

Associate Professor Dr. Hazreena Hussein
PhD (Landscape Architecture), University of Edinburgh, UK
M.A (Landscape Research), Manchester Metropolitan University, UK
PG Dipl. (Landscape Architecture), University of Sheffield, UK
B.A (Hons) Landscape Design, Manchester Metropolitan University, UK
Dipl. Seni (Rupabumi), Institut Teknologi MARA
Tel: 03-7967 7674
E-mail: reenalambina@um.edu.my

Associate Professor Dr. Mohd Hafizal Mohd Isa
PhD Eng. (Architecture), Tohoku University, Japan
M.Sc (Sustainable Building Technology), University of Nottingham, UK
B.Arch (Hons), Universiti Sains Malaysia
B.Sc Housing, Building and Planning (Architecture) (Hons), Universiti Sains Malaysia
Tel: 03-7967 6839
E-mail: hafizal.isa@um.edu.my

Associate Professor Ar. Ts. Dr. Hazrina Haja Bava Mohidin
PhD (Architecture), Universiti Teknologi Malaysia
B.Arch, Universiti Teknologi Malaysia
LAM Registered Architect
Tel: 03-7967 6858
E-mail: hazrinahaja@um.edu.my

SENIOR LECTURERS

Ati Rosemary Mohd Ariffin, PRBr
MA (Urban Design), Oxford Brookes University, UK
Pg.Dipl. (Architecture), Oxford Brookes University, UK
Pg.Dipl. (Urban Design), Oxford Brookes University, UK
Dipl. (Architecture), Institut Teknologi MARA
LAM Graduate Member
RIBA Part I
Tel: 03-7967 5393
E-mail: aa_alambina@um.edu.my

Dr. Nurdiyana Zainal Abidin
PhD (Heritage & Conservation Studies), Universiti Teknologi Malaysia
M.Arch, Universiti Teknologi Malaysia
B.Arch, Universiti Islam Antarabangsa Malaysia
B.Sc (Arch), Universiti Islam Antarabangsa Malaysia
LAM Graduate Member
MBOT Graduate Technologist
Tel: 03-7967 4585
E-mail: nurdiyana@um.edu.my

Dr. Liyana Hasnan
PhD (Architecture), Universiti Putra Malaysia
M.Sc Critical, Curatorial, and Conceptual Practices in Architecture (MScCCCP),
Columbia University, New York, USA
B.Arch & B.Sc (Architecture), Universiti Teknologi MARA
LAM Graduate Member
Tel : 03-7967 5389
E-mail: liyana_h@um.edu.my

Dr. Najah Md Alwi
PhD (Architecture, Urban & Planning), University of Nottingham, UK
M.Arch (Sustainable Design), University of Auckland,
New Zealand
B.Arch, Victoria University of Wellington, New Zealand
BSc. (Arch), Universiti Teknologi MARA
GBI Facilitator
LAM Graduate Member
RIBA Associate Member
RIBA Part I & II
Tel : 03-7967 2460
E-mail: najah.alwi@um.edu.my

Dr. Hazwan Ariff Hakimi
PhD (Architecture), Universiti Kebangsaan Malaysia
M.A (Architectural History) University College London, UK
Dip.Arch, University of Nottingham, UK
B.Arch (Hons), University of Nottingham, UK
LAM Graduate Member
RIBA Associate Member
RIBA Part I & II
Tel: 03-7967 6842
E-mail: hazwanariff@um.edu.my

Dr. Nur Mazidah Che Ghani
PhD (Urban Design), Universiti Malaya
M.Arch, Pratt Institute, USA
B.Sc (Arch), Universiti Teknologi MARA
NAAB
LAM Graduate Member
Tel: 03-7967 7950
E-mail: nur_mazidah@um.edu.my

Ts. Dr. Sharyzee Mohmad Shukri
PhD (Architecture), Universiti Teknologi Malaysia
M.Sc (Sustainable Urban Design), Universiti Teknologi Malaysia
B.Arch (Hons), Universiti Sains Malaysia
B.Sc Housing, Building and Planning (Architecture),
Universiti Sains Malaysia
MBOT Registered Member
LAM Graduate Member
ICOMOS member
Tel: 03-7967 6874
E-mail: sharyzee@um.edu.my

LECTURER

Asrul Sani Abdul Razak
M.Sc (Design & Digital Media), University of Edinburgh, UK
B.Arch, University of Edinburgh, UK
M.Arts (Hons) (Architecturral Design), University of Edinburgh, UK
LAM Graduate Member RIBA Part I & II
Tel: 03-7967 5217
E-mail: asrulsani@um.edu.my

ADJUNCT PROFESSOR

Ar. Dr. Tan Loke Mun
PhD (Architecture), Melbourne University, Australia
B.Arch, Deakin University, Australia
B.A (Architecture) Deakin University, Australia
19 Jalan SS15/4C, 47500 Subang Jaya
Selangor Darul Ehsan, Malaysia
LAM Registered Architect
Tel: 03-5635 0055
Fax: 03-5611 8611
Email: drtanlm@gmail.com

EXTERNAL ASSESSORS

Professor Dr. Ashraf M. Salama
Professor in Architecture and Urbanism, Head of School of Architecture and Built Environment, University of Northumbria, UK
PhD, Al-Azhar University, Egypt & North Carolina State University, USA
M.Sc (Architectural Engineering), Al-Azhar University, Egypt
B.Sc (Architectural Engineering), Al-Azhar University, Egypt
E-mail: ashraf.salama@northumbria.ac.uk

Ar. (Dr.) Serina Hijjas
Principal Director, Hijjas Kasturi Associates Sdn. Bhd.
B.Sc (Architecture), University of Sydney, Australia
Dip.Arch, University of London, UK
23rd Floor Menara KH, Jalan Sultan Ismail, 50250 Kuala Lumpur
LAM Registered Architect
Email: serina@hijjas.com

ARCHITECTURE

Introduction

The Architecture Department was first initiated as a programme under the Faculty of Engineering with 26 students enrolled in the semi-professional Bachelor of Science in Architecture course in May 1995. The Bachelor of Architecture programme, a professional course which was introduced in 1998 and in 2013, the programme was upgraded into the Master of Architecture in line with the requirements of the Board of Architects, Malaysia (LAM).

Today both the Architecture programmes offered by the Department of Architecture are accredited by the Board of Architects Malaysia and the Royal Institute of British Architects (RIBA), UK.

The Department has three niche areas: Green and Sustainable Architecture, Architectural Heritage and Conservation, and Community and Urban Architecture. These three niches are emphasised in both the undergraduate and postgraduate programmes to produce graduates who fulfil professional and community needs.

The BSc in Architecture programme constitutes the first tier of a two-tier system. The programme provides a solid academic foundation for those who wish to pursue professional architecture qualifications. It is an intensive 3-year undergraduate course in architectural studies with the aim of getting an exemption from both LAM Part I (Malaysia) and RIBA Part I (UK).

Design is the core subject taught across several subjects as part of integrated learning and knowledge acquisition. It forms the basic framework for an appropriate architectural foundation. The programme is further enriched by practical knowledge gained from industrial attachment. The BSc in Architecture operates under the semester system for six full semesters and two special semesters, covering 120 credits.

The BSc in Architecture course is also structured as a stand-alone undergraduate course that can sufficiently function as an independent course, that is, instead of continuing with the Master of Architecture (M.Arch) programme, graduates may venture into other related fields. For example, the BSc in Architecture qualification will enable graduates to work as assistant architects, contractors, or developers in the private sector, as schoolteachers, lecturers at polytechnics or technical colleges, or technical administrators in government departments and agencies, designers, product makers and many more.

The BSc in Architecture programme has received recognition from the Malaysian government, Part 1 qualification from both the Malaysian Board of Architects (LAM) since 2003 and the Royal Institute of British Architects (RIBA) since 2005. The programme may involve inbound and outbound mobility programmes with regional and international universities that encourage cross- disciplinary learning and credit transfers between selected subjects taught in the programme. The universities in which the mobility programmes have been carried out in the past include Deakin University of Australia, National University of Singapore (NUS) of Singapore, Institut Teknologi Bandung (ITB) and Universitas Katolik Parahyangan (UNPAR) of Indonesia and Kyung Hee University (KHU) of Korea.

Programme Aims

To produce graduates who have obtained a strong design foundation and are able to be creative, critical, skillful and technically competent in creating architecture that is sensitive to culture and the environment.

Programme Learning Outcomes

At the end of the programme, graduates are able to:

PLO1	Demonstrate theoretical and technical knowledge in architectural design, aligning with the requirements and standards of the professional bodies and architectural industries.
PLO2	Employ critical thinking, analytical, and evaluative skills to address complex architectural challenges through creative and innovative design approaches.
PLO3	Apply methods and procedures effectively to address architectural design problems.
PLO4	Collaborate effectively with individuals and professional organisations from multidisciplinary fields, locally and globally.
PLO5	Communicate architectural concepts and ideas confidently, accurately, and coherently in written, oral, and visual forms, utilising appropriate presentation methods for diverse audiences and contexts.
PLO6	Leverage a broad array of information, media, and technology to enhance architectural studies and professional practice.
PLO7	Integrate numerical, graphical, and visual data effectively into architectural studies, design processes, and architectural projects.

PLO8	Carry out tasks independently and responsibly through leadership and professionalism in managing various projects.
PLO9	Engage in lifelong learning through professional practice within the field of architecture.
PLO10	Demonstrate basic entrepreneurial skills by developing and managing architectural projects.
PLO11	Understand ethical issues by making responsible decisions in diverse social, environmental, and professional contexts to address architectural challenges at both local and global levels.

STUDY PLAN—BACHELOR OF SCIENCE IN ARCHITECTURE
SEMESTER 1 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Science in Architecture)										
COMPONENTS	**SEMESTER 1**			**SEMESTER 2**			**SPECIAL SEMESTER**			**TOTAL CREDITS**
	COURSE CODE	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	
University Courses	GIG1003	Principles of National Entrepreneurship Culture	2	GLTXXXX	English I	2				8
	GUL1001	Embrace@ UMLEADER	2	GIG1017/ GIG1018*	Philosophy and Current Affairs / Malaysian Citra*	2				
Programme Core Courses	BIA1031	Architectural Design Studio I	10	BIA1035	Architectural Design Studio II	10				30
	BIA1029	Materials and Construction I	3	BIA1028	History of Asian Architecture	2				
	BIX1007	Artificial Intelligence for Built Environment	2	BIA1030	Environmental Physics	3				
Programme Elective Courses										
Total credits			**19**	**Total credits**		**19**	**Total credits**		**0**	**38**

YEAR 2 (Bachelor of Science in Architecture)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
University Courses	GUL2002	Ignite@ UMLEADER	2	GIG1016	Integrity and Anti-Corruption Course	2				6
					Co-Curriculum	2				
				GLT2000	Professional Malay for Career and Organisation	0				
Programme Core Courses	BIA2031	Architectural Design Studio III	10	BIA2035	Architectural Design Studio IV	10				35
	BIA2032	Digital Architecture and Fabrication	3	BIA2034	Architectural Measured Drawings and Documentation I	2				
	BIA2033	Building Structure	2	BIA2036	Building Services	3				
	BIA2038	History of World Architecture	2							
	BIA2039	Materials and Construction II	3							
Programme Elective Courses							BIA3033/ BIA3037	Architectural Enrichment and Engagement/ Landscape Studies	2	2
Total credits			**22**	**Total credits**		**19**	**Total credits**		**2**	**43**

* Non-Malaysian

YEAR 3 (Bachelor of Science in Architecture)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
University Courses	GIG1019/ GLT1049*	Malaysian Nation-State Aspiration / Malay Language Communication*	2							4
	GLTXXXX	English II	2							
Programme Core Courses	BIA3031	Architectural Design Studio V	10	BIA3035	Architectural Design Studio VI	10	BIA3036	Industrial Training	4	35
	BIA3030	Architectural Academic Report	3	BIA3029	Professional Studies	3				
	BIA3034	Architectural Measured Drawings and Documentation II	3	BIA3032	Culture and Context	2				
Programme Elective Courses										
Total credits			**20**	**Total credits**		**15**	**Total credits**		**4**	**39**

OVERALL TOTAL CREDITS: 120

The study plan maybe subjected to change

PROGRAMME STRUCTURE – BACHELOR OF SCIENCE IN ARCHITECTURE
SEMESTER 1 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	Year 1			Year 2			Year 3			Total Credits	Pre-requisite
				S1	S2	SS	S1	S2	SS	S1	S2	SS		
COMPULSORY UNIVERSITY COURSES	1	GIG1003	Principles of National Entrepreneurship Culture	2									18	
	2	GUL1001	Embrace@UMLEADER	2										
	3	GIG1017 / GIG1018*	Philosophy and Current Affairs / Malaysian Citra*		2									
	4	GLTxxxx	English I		2									
	5	GUL2002	Ignite@UMLEADER				2							
	6	GIG1016	Integrity and Anti-Corruption Course					2						
	7		Co-Curriculum					2						
	8	GLT2000	Professional Malay for Career and Organisation					0						
	9	GIG1019 / GLT1049*	Malaysian Nation-State Aspiration / Malay Language Communication*							2				
	10	GLTXXXX	English II							2				
PROGRAMME CORE COURSES	11	BIA1031	Architectural Design Studio I	10									100	
	12	BIA1029	Materials and Construction I	3										
	13	BIX1007	Artificial Intelligence for Built Environment	2										
	14	BIA1035	Architectural Design Studio II		10									*BIA1031*
	15	BIA1028	History of Asian Architecture		2									
	16	BIA1030	Environmental Physics		3									
	17	BIA2031	Architectural Design Studio III				10							*BIA1035*
	18	BIA2032	Digital Architecture and Fabrication				3							
	19	BIA2033	Building Structure				2							
	20	BIA2038	History of World Architecture				2							
	21	BIA2039	Materials and Construction II				3							*BIA1029*
	22	BIA2035	Architectural Design Studio IV					10						*BIA2031*
	23	BIA2036	Building Services					3						
	24	BIA2034	Architectural Measured Drawings and Documentation I					2						
	25	BIA3031	Architectural Design Studio V							10				*BIA2035*
	26	BIA3030	Architectural Academic Report							3				
	27	BIA3034	Architectural Measured Drawings and Documentation II							3				*BIA2034*
	28	BIA3035	Architectural Design Studio VI								10			*BIA3031*
	29	BIA3029	Professional Studies								3			
	30	BIA3032	Culture and Context								2			
	31	BIA3036	Industrial Training									4		
PROGRAMME ELECTIVE COURSES	32	BIA3033 / BIA3037	Architectural Enrichment and Engagement / Landscape Studies						2				2	
Total Subject Breakdown			**Total credits**	**19**	**19**	**0**	**22**	**19**	**2**	**20**	**15**	**4**	**120**	
			Compulsory University Courses	4	4	-	2	4	-	4	-	-	18	
			Programme Core Courses	15	15	-	20	15	-	16	15	4	100	
			Programme Electives Courses	-	-	-	-	-	2	-	-	-	2	

TOTAL CREDITS: 120

The programme structure maybe subjected to change

PROGRAMME CORE COURSES

BIA1031 **ARCHITECTURAL DESIGN STUDIO I**

10 credits

Synopsis of Course Contents

The course is an introduction to basic design, emphasizing using various media to explore the concept of space and form. Through a series of design studies, students can learn, understand, analyze and apply basic design principles and elements within architectural design representations.

Learning Outcomes

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

1. Identify the fundamentals and principles of design through architectural vocabulary;
2. Relate knowledge of design principles with concepts and ideas through illustrations and physical models;
3. Present design ideas and concepts through architectural graphic and oral presentation; and
4. Illustrate a schematic design of a small-scale design project of 'space for one or two users' through the application of basic design principles, human factors, and architectural communications.

Assessment:

Continuous Assessment 100%

BIA1035 **ARCHITECTURAL DESIGN STUDIO II**

10 credits

Synopsis of Course Contents

This course strengthens basic design knowledge and vocabulary introduced previously, where a series of design projects would highlight the importance of the design process. Projects would concentrate on form-making, and would revisit ideas of basic design elements (linear, planar, volume, addition/subtraction, interlocking space etc.) and enclosure and include architectonic aspects such as entrances, fenestrations, overhead enclosure/roof, furniture etc.

Learning Outcomes

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

1. Identify the basic structural system and the fundamental design principles of a small-scale architectural project;
2. Implement basic skills in technical drawing and graphic presentation using computer applications through basic training;
3. Apply the principles and design vocabulary through studio projects;
4. Propose the elements and language of architecture through the study of selected architectural precedents and apply them in studio projects; and
5. Illustrate, compose and deliver a clear, engaging, and well-structured presentation, demonstrating effective verbal and oral communication skills.

Assessment:

Continuous Assessment 100%

BIA2031 **ARCHITECTURAL DESIGN STUDIO III**

10 credits

Synopsis of Course Contents

This course allows students to further build and strengthen skills using an experiential 'master-apprentice' studio-based learning approach. The student is given two assignments based on a brief and program to complete a final set of drawings and models, graphically and verbally presented. The design process requires the students to practice an approach of:

- combining architectural elements
- putting together a scheme
- conceptualising
- application of architectural theory

This course also provides learning on the architectural theories and themes for this semester, which is:

- architectural representation
- architectural language
- form
- space
- context
- materiality/immateriality

Learning Outcomes

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

1. Describe architectural theory principles and themes while describing good building design practices, emphasising space and form design;
2. Analyse architectural precedents through documents referencing prominent architects to explore design concepts as well as conducting a site visit;
3. Assemble a small single function building design though conceptual exploration space and form;
4. Develop a public building, in urban environment, applying architectural theory, precedents, key themes, and best design practices, not more than two stories high; and
5. Justify good building design practices with a focus on space and form design, using plans, sections, drawings through verbal and graphic presentations.

Assessment:

Continuous Assessment 100%

BIA2035 **ARCHITECTURAL DESIGN STUDIO IV**

10 credits

Synopsis of Course Contents

This course allows students to further build and strengthen skills by using an experiential 'master-apprentice' studio-based learning approach. The student is given two assignments based on a brief and program to complete a final set of drawings and models, graphically and verbally presented. The design process requires the students to practice an approach of:

- combining architectural elements,
- putting together a scheme and,
- conceptualising.

The architectural design program provides a learning on the sustainable design theory and principles for this semester, which is:

- elements—site elements, topography, vegetation, natural materials, building materials;
- scheme—climatic design ideas, passive energy design principles, building form, and function; and
- concepts—vernacular architecture, tropical architectural design, bio-climatic design, ecological design, sustainable design, adaptive reuse, etc.

Learning Outcomes

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

1. Describe sustainable architecture theories and principles in the design of buildings and public spaces;
2. Design an infill project with focus on internal planning and contextual issues;
3. Analyze and evaluate architectural case studies and site studies to generate alternative design ideas towards sustainable design;
4. Design a building which has multiple functions, not more than two stories high located in an urban area; and
5. Articulate and defend good building design practices with a focus on sustainability, through verbal and graphic presentations.

Assessment:

Continuous Assessment 100%

BIA3031 ARCHITECTURAL DESIGN STUDIO V

10 credits

Synopsis of Course Contents

This course allows students to design individually an institutional building which prioritised on the principles of sustainable architecture in a selected urban area through a thorough design process from macro and micro urban studies, site analysis, precedent studies and design requirement adhering to the local authorities guidelines.

Learning Outcomes

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

1. Identify the urban fabric of a selected city based on historical, environmental, socio-cultural, and economic aspects;
2. Analyze the project site in the urban area, covering local development context, climate, existing infrastructure, traffic networks, landscape, and development guidelines;
3. Evaluate architectural design through precedent studies, user information, space functions, sustainability requirements, and design concepts;
4. Generate a schematic design for an institutional building, considering urban studies, site analysis, precedent studies, project brief, and local authority guidelines; and
5. Perform the final design through verbal and multimedia presentation.

Assessment:

Continuous Assessment 100%

BIA3035 **ARCHITECTURAL DESIGN STUDIO VI**

10 credits

Synopsis of Course Contents

This course allows students to design individually an institutional building which prioritised on the principles of sustainable architecture in a selected urban area through a thorough design process from macro and micro urban studies, site analysis, precedent studies and design requirement adhering to the local authorities guidelines.

Learning Outcomes

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

1. Synthesizing the project site information, urban design principles, and urban studies gathered from the previous semester;
2. Evaluate architecture design through precedent studies, user information, space function, sustainability requirements, and design concepts;
3. Generate a schematic design for a sustainable five-storey institutional building, including one level of underground parking, with various spaces and functions through a comprehensive design process;
4. Integrate the technical requirements of the building such as structure, buildability, services, and local authority building by-laws; and
5. Perform the final design proposal orally and through multimedia in front of internal and external juries, and prepare a comprehensive building design report including technical requirements proposals.

Assessment:

Continuous Assessment 100%

BIA1028 **HISTORY OF ASIAN ARCHITECTURE**

2 credits

Synopsis of Course Contents

This course exposes students to:

- The evolution of Asian Architecture based on historical timeline starting from ancient to modern era
- Asian architectural characteristics covering:
  - East Asian Architecture
  - South Asian Architecture
  - Southeast Asian Architecture
  - Malaysian Architecture
- The influences of Asian architecture towards Malaysian architecture.

Learning Outcomes

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

1. Identify architectural origins and identity of Asian architecture;
2. Describe the various characteristics of Asian architecture; and
3. Differentiate the development of Asian architecture with Malaysian architecture and their influences.

Assessment:

Continuous Assessment: 100%

BIA1029 **MATERIALS AND CONSTRUCTION I**

3 credits

Synopsis of Course Contents

This course is an introduction to:

- Basic construction materials such as timber, bamboo, steel, glass, masonry and reinforced concrete and construction techniques for 2 storey domestic structures.
- General knowledge on materials defects and preventive measures, basic concept of sustainability in the production, use of materials and construction techniques.

Learning Outcomes

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

1. Identify basic construction materials such as timber, bamboo, steel, glass, masonry and reinforced concrete;
2. Determine the basic construction components and techniques involved in a 2-storey structure using timber, bamboo, steel, glass, masonry and reinforced concrete; and
3. Illustrate the principles of construction for timber, bamboo, steel, glass, masonry and reinforced concrete.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIA1030 **ENVIRONMENTAL PHYSICS**

3 credits

Synopsis of Course Contents

This course introduces basic knowledge of the relationship between environmental physics and the built environment in determining human comfort, analysing the influence of natural elements and climate on design, the appropriateness of building sitting on site and the problem of heat and wind in the context of micro climate. It will also review the effectiveness and efficiency of vernacular architectural design, bioclimatic design and passive solar architecture.

Learning Outcomes

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

1. Identify the basic environmental technology in building design.(acoustics & lighting basics);
2. Answer the needs of the user, community and environment to achieve thermal comfort;
3. Describe the relationship between 'man, building and climate'; and
4. Relate the importance of acoustics and lighting to the context of building user.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIA2032 **DIGITAL ARCHITECTURE AND FABRICATION**

3 credits

Synopsis of Course Contents

This course provides discussion and information on emerging digital technologies–Building Information Modelling (BIM), digital fabrication, virtual reality (VR), etc.–used in contemporary and innovative design practice. Students will be exposed with information modelling techniques within digital, physical and/or virtual environments to present and interact with architectural design proposals.

Learning Outcomes

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

1. Identify use of 2D/3D CAD application in architectural design and documentation practice;
2. Build and architectural digital model of an interior or exterior; and
3. Appraise digital and virtual design processes.

Assessment:

Continuous Assessment: 100%

BIA2033 **BUILDING STRUCTURE**

2 credits

Synopsis of Course Contents

The course expose students to the design of building structure, among the topics covered include:

- Distribution of loads on structural systems
- Structural systems
- Structural design
- Structural analysis

The final assignment is the integration of structure design in a design studio project.

Learning Outcomes

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

1. Explain structural systems of buildings;
2. Calculate structural forces and loading in a building; and
3. Analyse structural systems in building design.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIA2038 **HISTORY OF WORLD ARCHITECTURE**

2 credits

Synopsis of Course Contents

This course immerses students in the historical progression of world architecture, exploring its evolution from prehistoric times to the postmodern era. Students will gain insights into significant architectural styles that emerged across various historical periods, including ancient architecture, the classical age, the age of religion, the medieval period, early modern movements, modernism, and postmodernism. The course also examines the dynamic interplay between global architectural developments and their influence on Malaysian architecture, highlighting the contextual adaptations and cultural integration that shape the nation's architectural identity.

Learning Outcomes

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

1. Summarize architectural development in world architecture history across different eras, emphasizing cultural, social, and technological contexts;
2. Illustrate the diverse developments in architectural history, focusing on various architectural styles and their underlying cultural and historical contexts; and
3. Explain the similarities and differences in the historical developments of world architecture and Malaysian architecture, including the influences that shape their architectural identity.

Assessment:

Continuous Assessment: 100%

BIA2039 **MATERIALS AND CONSTRUCTION II**

3 credits

Synopsis of Course Contents

This course provides the learning of construction methods and processes including site clearance, piling, basement, waterproofing systems, metal and concrete composite structures, cladding systems, industrial building systems, infrastructure works and demolition works for medium-rise buildings.

Learning Outcomes

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

1. Identify the process of construction of supporting infrastructures for medium rise building;
2. Determine the building components and construction works of buildings with reinforced concrete and steel framed structures; and
3. Analyze the theoretical and practical aspects of construction through exposure to construction works on site.

Assessment:

Continuous Assessment: 100%

BIA2034 **ARCHITECTURAL MEASURED DRAWINGS AND DOCUMENTATION I**

2 credits

Synopsis of Course Contents

Students will have the opportunity to measure and report their findings from their study of heritage buildings, gaining exposure to various aspects of the process. They will explore the historical significance of the buildings, develop skills in architectural measurement and manual drawing techniques, and master basic videography and photography for documenting architectural elements. Additionally, they will learn to integrate measured drawings with multimedia tools, such as video and photography, to create comprehensive documentation. Through on-site measurements, students will record building features both visually and technically, enhancing their understanding and ability to document heritage structures effectively.

Learning Outcomes

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

1. Identify architectural features, construction method, structure, architectural style, and historical background of a building;
2. Implement measured drawing with multimedia tools such as video and photography to produce comprehensive documentation of architectural elements, and
3. Illustrate draft architectural measured drawings and documentation for selected buildings.

Assessment:

Continuous Assessment: 100%

BIA2036 **BUILDING SERVICES**

3 credits

Synopsis of Course Contents

This course introduces the basic needs for building services in modern living such as the following systems:

- Firefighting including active and passive equipment.
- Domestic water supply and distribution.
- Surface water and underground drainage and rainwater harvesting.
- Electrical, telephone and data wiring.
- Soil, waste water and sewerage.
- Refuse disposal systems.
- Mechanical ventilation and air-conditioning.
- Vertical and horizontal transportation in buildings.
- Liquid petroleum gas (LPG) system.

This course introduces based on relevant local authority's building plan submission requirements and legislations such as Uniform Building By Laws (UBBL), SPAN, TNB, IWK etc.

Learning Outcomes

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

1. Identify the needs of commonly used outdoor and indoor technical components found in building services according to building size, types and various building designs;
2. Apply various basic technical aspects required in buildings services for various building type and size; and
3. Prepare building services analysis outlining the requirements appropriate to building type, size, guidelines and by-law requirements.

Assessment:

Continuous Assessment: 100%

BIA3030 **ARCHITECTURAL ACADEMIC REPORT**

3 credits

Synopsis of Course Contents

This course provides knowledge in conducting an academic research. Selected themes within architecture disciplines are explored including; sustainability, technology, design, environmental studies, culture, material studies, construction, urban studies, innovative design practice, heritage, BIM, education, etc. Among the topics covered to conduct research include: Research Proposal, Literature Review, Research Design and Citing and Referencing. Students will prepare a report and present their research findings.

Learning Outcomes

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

1. Develop a well-structured and coherent research proposal that demonstrates a clear understanding of fundamental research principles and methodologies;
2. Conduct a critical and in-depth literature review by identifying relevant academic sources within the research domain;
3. Identify appropriate research methods that includes data collection and data analysis; and
4. Compile a detailed, well-organized, and structured research report.

Assessment:

Continuous Assessment: 100%

BIA3034 **ARCHITECTURAL MEASURED DRAWINGS AND DOCUMENTATION II**

3 credits

Synopsis of Course Contents

Students will have the opportunity to create working drawings based on their study of heritage buildings from semester 1, focusing on detailed and comprehensive working drawings. They will be exposed to the production of detailed plans, elevations, and sections, as well as the integration of measured data into construction documentation, including material details, dimensions, and technical specifications. Additionally, students will gain an understanding of building codes, regulations, and standards necessary for producing construction-ready working drawings. They will also develop skills in both manual and digital drawing techniques, with an emphasis on precision and technical accuracy.

Learning Outcomes

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

1. Identify various architectural measured drawings and documentation features and format for selected buildings;
2. Illustrate specific measured architectural drawings and documentation technical requirements according to specification standards;
3. Apply skills to draw architectural measured drawings and documentations to produce related documents; and
4. Develop architectural measured drawings and documentation on the selected building.

Assessment:

Continuous Assessment: 100%

BIA3029 **PROFESSIONAL STUDIES**

3 credits

Synopsis of Course Contents

The course intends to expose students on professional practice and building construction site administration. The course also introduces concept and basic project management, feasibility studies, project control, organization structure, BIM practice and team management. Architects and other consultants' works and responsibility shall be introduced and explained.

Learning Outcomes

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

1. Describe architect's code of conduct, roles and responsibilities in a real-life situation in an architect's office;
2. Understanding the process of getting planning and building plans approval;
3. Explain the fundamentals of planning, managing and organizing building construction projects creatively, efficiently and professionally according to laws and regulation; and
4. Appraise project management principle with architectural best practices.

Assessment:

Continuous Assessment: 100%

BIA3032 **CULTURE AND CONTEXT**

2 credits

Synopsis of Course Contents

The course emphasises the importance of collaboration between students with external university/external industry and selected community. Students will be able to understand how the culture and context elements influence the design of settlements and urbanisations of the community. Students will practice their skills to empower the community through video recording, taking photo, freehand sketching, cultural mapping and drawing of the tangible and intangible heritage of the said community. Final outcome will be recorded for archival and/or published in newspaper or magazine or book.

Learning Outcomes

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

1. Determine architectural culture and context of different civilisations outside of Malaysia through external collaboration;
2. Analyze the context of tangible and intangible architectural using various method; and
3. Interpret the architecture context of tangible and intangible into the architecture final documentation.

Assessment:

Continuous Assessment: 100%

BIA3036 **INDUSTRIAL TRAINING**

4 credits

Synopsis of Course Contents

This course introduces students to the actual architectural practice in an architectural company or in a company involved in related architectural practice, local or abroad. Each student is required to find the practical training placement for approval to ensure the placement company and the proposed work tasks are appropriate to the course requirements. An academic staff will oversee the student's progress with assistance from the company supervisor.

Learning Outcomes

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

1. Internalising the ability to practice knowledge gained in an actual situation in the architectural practice or related industry, local or abroad;
2. Adhere to the work order in an efficient, ethical and professional manner to obtain satisfactory results;
3. Record the work experiences in a timely manner to produce an industrial training report; and
4. Perform architectural tasks seamlessly, integrating entrepreneurial innovation, ethical practices, and resource management instinctively and autonomously in diverse project contexts.

Assessment:

Continuous Assessment: 100%

PROGRAMME ELECTIVE COURSES

BIA3033 **ARCHITECTURAL ENRICHMENT AND ENGAGEMENT**

2 credits

Synopsis of Course Contents

The course focuses on active participation in programme/event/competition design, planning, and project management. Contributing to a programme approved and supported by the Department involves aligning with departmental goals, fostering collaboration, and ensuring that the programme's objectives are met. This includes engaging with peers, across institutions, and related industries to enhance learning and development. Students learn organizational skills to manage tasks efficiently, while communication skills ensure clear interaction with stakeholders. Leadership skills are embedded in the course to guide teams, making informed decisions, and motivating others. Together, these competencies are essential for success in both academic and professional architectural settings.

Learning Outcomes

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

1. Present competently through visual and verbal skills appropriate to the level of listener;
2. Demonstrate leadership qualities and ability to be a catalyst for change; and
3. Organize programme/event/competition.

Assessment:

Continuous Assessment 100%

BIA3037 **LANDSCAPE STUDIES**

2 credits

Synopsis of Course Contents

The Landscape Studies course explores the principles of landscape design, ecological systems, and sustainable planning. It covers site analysis, spatial design, and environmental impact assessment. Students learn to integrate cultural, social, and ecological aspects to create resilient landscapes, promoting well-being, biodiversity, and sustainable development through practical and theoretical approaches.

Learning Outcomes

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

1. Identifying the natural and built environments, including ecological, cultural, and aesthetic components, to support sustainable design practices;
2. Present design strategies that integrate environmental, social, and spatial elements to create functional landscapes; and
3. Explaining critically the environmental, social, and economic impacts of landscape interventions to propose solutions that enhance ecological resilience and human well-being.

Assessment:

Continuous Assessment 100%

BUILDING SURVEYING

Bachelor of Building Surveying

ACADEMIC STAFF
DEPARTMENT OF BUILDING SURVEYING

HEAD

Associate Professor Dr. Mohamad Rizal Baharum
PhD (Facilities Mgmt), Liverpool John Moores University, UK
M.Sc (Facilities Mgmt),Herriot-Watt University, UK
B (Hons) (Bldg. Surveying), Universiti Malaya
Dipl (QS), Universiti Teknologi Malaysia
IFMA (Professional Member)
MAFM (Committee Member)
Tel: 03-7967 7608
E-mail: mrizal@um.edu.my

PROFESSORS

Professor Sr Ts. Dr. Azlan Shah Ali
PhD Built Environment (Building Refurbishment),
Universiti Teknologi MARA
M.Sc (Real Estate & Property Mgmt), University of Salford, UK
M.Sc (Integ.Const.Proj.Mgmt), Universiti Teknologi MARA
B (Hons) (Bldg Surveying), Institut Teknologi MARA
Prof. Dip. (Property Mgmt Valuation Surveying), RISM
Dipl. (Estate Mgmt), Institut Teknologi MARA
Chartered Surveyor, P.Tech. (Building & Construction),
Reg. Bldg. Surveyor, Reg. Property Mgr.
FRISM, FRICS, MSET
Tel: 03-7967 4494
E-mail: asafab@um.edu.my

Professor Sr Ts. Dr. Syahrul Nizam Kamaruzzaman
PhD (Building), University of Manchester, UK
M.Sc (Bldg.Tech), Universiti Sains Malaysia
B.Sc (Hons) (HBP), Universiti Sains 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

ASSOCIATE PROFESSORS

Associate Professor Sr Dr. Norhayati Mahyuddin
PhD (Indoor Air Quality), University of Reading, UK
M.Sc (Integ.Const.Proj.Mgmt), Universiti Teknologi MARA
B.Sc (Hons) (HBP-Architecture), Universiti Sains Malaysia
Reg. Build. Surveyor
MRISM
Tel: 03-7967 6837/6813
E-mail: hayati@um.edu.my

Associate Professor Sr Ts. Dr. Farid Wajdi Akashah
PhD (Fire Risk Assessment), Ulster University, UK
B (Hons) (Bldg. Surveying), Universiti Malaya
Reg. Bldg. Surveyor, P.Tech. (Building & Construction)
MRISM
Tel: 03-7967 6874
E-mail: faridakashah@um.edu.my

Associate Professor Sr Dr. 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

Associate Professor Sr Dr. Brennan Brit Anak Kayan
PhD (Construction Management), Heriot-Watt University, UK
M.Sc (Bldg), Universiti Malaya
B.Sc (Hons) (Bldg. Surveying), Universiti Malaya
Registered Conservator, MRISM
Tel: 03-7967 6885
E-mail: brit284@um.edu.my

Associate Professor Sr Dr. Noor Suzaini Mohamed Zaid
PhD (Planning and Development),
University of New South Wales, AUS
M.Sc (Building and Urban Design Development),
University College London, UK
B (Hons) (Bldg. Surveying), Universiti Malaya
Green Building Index Facilitator, GBI
MRISM
Tel: 03-7967 7603
E-mail: suzaini_zaid@um.edu.my

Associate Professor Sr Dr. Au Yong Cheong Peng
PhD (Facilities Management), Universiti Malaya
B (Hons) (Bldg. Surveying), Universiti Malaya
MRISM
Tel: 03-7967 6822
E-mail: auyongcp@um.edu.my

Associate Professor Sr Dr. Shirley Chua Jin Lin
PhD (Asset & Facilities Management), Universiti Malaya
B (Hons) (Bldg. Surveying), Universiti Malaya
MRISM
Tel: 03-7967 7952
E-mail: shirleychua88@um.edu.my

SENIOR LECTURERS

Sr Dr. Zahiruddin Fitri Abu Hassan
PhD (Civil Engineering), University of Dundee, UK
M.Sc (Building Surveying), University of the West of England, UK
B (Hons) (Bldg. Surveying), Universiti Malaya
MRISM
Tel: 03-7967 7601
E-mail: zahiruddin@um.edu.my

Sr Dr. Nik Elyna Myeda Nik Mat
PhD (Facilities Management), University College London, UK
M.Sc (Building), Universiti Malaya
B (Hons) (Bldg. Surveying), Universiti Malaya
MRISM
Tel: 03-7967 7022 / 2455
E-mail: elyna@um.edu.my

Sr Dr. Nur Farhana Azmi
PhD (Building Control & Performance), Universiti Malaya
B (Hons) (Bldg. Surveying), Universiti Malaya
MRISM
Tel: 03-7967 5391
E-mail: farhanazmi@um.edu.my

Sr Dr. Raha Sulaiman
PhD (Building Services), Universiti Malaya
M.Sc (Bldg Services Eng. Mgmt), Heriot-Watt University, UK
B (Hons with Distinction) (Bldg. Surveying), Universiti Malaya
Dipl. (Architecture), Universiti Teknologi MARA
MRISM
Tel: 03-7967 6836
E-mail: rahasulaiman@um.edu.my

Dr. Nuratiqah Aisyah Awang @ Mat Nawi
PhD (Facilities Management), Universiti Malaya
B (Hons) (Bldg. Surveying), Universiti Malaya
Graduate Member RISM
Tel: 03-7967 4560
E-mail: nuratiqahaisyahawang@um.edu.my

Dr. Nurshafarina Jasme
PhD (Construction Materials and Technology),
Universiti Sains Malaysia
M.Sc (Building Technology), Universiti Sains Malaysia
B.Sc (Hons) (HBP-Building Surveying), Universiti Sains Malaysia
Graduate Member, RISM
Graduate Technologist, MBOT
Tel: 03-7967 7950
E-mail: shafarina@um.edu.my

LECTURER

Imaduddin Abdul Halim
M.Sc (Bldg.Tech), Universiti Sains Malaysia
B.Sc (Hons) (Bldg.Tech), Universiti Sains Malaysia
Graduate Technologist, MBOT
Tel: 03-7967 2458
E-mail: imaduddin@um.edu.my

Dr. Mozhgan Samzadeh
PhD (Sustainable Design), Universiti Malaya
M.Sc (Architecture), Universiti Malaya
B.Arch (Hons), Islamic Azad University, Iran
Green Building Index Facilitator, GBI
Member, Malaysia Green Building Council
Tel: 03-7967 6872
E-mail: mozhgan.sum.edu.my

ADJUNCT PROFESSOR

Dr. Kang Kok Hin
PhD (Building Science), National Univesity of Singapore, Singapore
M.Engineering, National Univesity of Singapore, Singapore
MBA, Trinity International University, USA
B.Engineering, Monash University, Australia
Chartered Professional Engineer, UK
E-mail: kkh88@um.edu.my

EXTERNAL ASSESSORS

Professor Sara Wilkinson
Professor of Property
PhD (Building Adaptation and Property Attributes), Deakin University, Australia
MA (Social Science Research Methods), Sheffield Hallam University, UK
MPhil (Green Building), University of Salford, UK
BSc (Building Surveying), University of Greenwich, UK
Fellow of the Royal Institution of Chartered Surveyors
Associate Member of Australian Property Institute
E-mail: sara.wilkinson@uts.edu.au

Sr Pang Ching Chooi
MBA, Universiti Kebangsaan Malaysia
B (Hons)(Bldg. Surveying), Universiti Malaya
Chartered Building Surveyor, RICS
FRISM, FCABE
E-mail: ccpang98@gmail.com

BUILDING SURVEYING

Introduction

Building Surveying is a rapidly growing profession in Malaysia and its services are highly needed in all economics and development situations. Its scope begins from the very early stage of planning a development project to construction management, maintenance and up to the conservation of historical and architecturally important buildings. To address the shortage of professional Building Surveyors in the country, the Building Surveying Programme at undergraduate level was introduced in the Universiti Malaya (UM) in 1996. This programme is recognised locally and internationally by professional bodies i.e. Royal Institution of Surveyors Malaysia (RISM) and The Royal Institution of Chartered Surveyors (RICS), UK. The degree can also be pursued at higher learning institutions abroad especially in the United Kingdom, Australia, Hong Kong and New Zealand or through a professional examination conducted by the RISM.

In the Malaysian context, a professional Building Surveyor is a qualified person, by examination and experience, and a member of the RISM. The main roles and responsibilities of a Building Surveyor in Malaysia, as prescribed by the RISM cover the following areas:

- Building Control and Space Planning;
- Building Performance & Risk Assessment; and
- Building Maintenance and Refurbishment.

The career as a professional Building Surveyor includes every aspect of a building life cycle from its planning stage to restoration, demolition and redevelopment. A competent Building Surveyor will be able to manage, organise, monitor, assess and coordinate construction works while acting as the main link to other professional services in the construction industry.

A qualified Building Surveyor can work at the Government/Semi-Government Department such as Local Authority, higher learning institution (public and private) and also private sector such as developer, financial and banking institution, consultant firm, insurance company and research organisation.

Programme Structure
Bachelor of Building Surveying
(7 semesters and 1 Special Semester)

The Bachelor of Building Surveying programme consists of 8 semesters (including 1 special semester) with a total of 125 credits. This programme comprises two major components namely, university (20 credits) and faculty courses (105 credits) which constitute 16% and 84% respectively from the total credits.

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

Programme Aim

To produce ethical and professional Building Surveyors and Property Managers who are able to function effectively as members of the construction and property industry and able to face technological and managerial challenges in the national and international context.

Programme Learning Outcomes

At the end of the programme, graduates are able to:

PLO1	Apply knowledge, skills and appropriate characters of the Building Surveying and Property Management procedures.
PLO2	Coordinate support services in the area of Building Surveying and Property Management.
PLO3	Demonstrate effective communication within the built environment community and teamwork.
PLO4	Propose problem-solving solutions in Building Surveying and Property Management using the latest technological approach.
PLO5	Plan and diagnose building problems.
PLO6	Select and apply appropriate and relevant techniques, resources and equipment of Building Surveying and Property Management.
PLO7	Demonstrate awareness and responsibility towards social, health, safety, ethics and legal issues.
PLO8	Foster awareness towards entrepreneurship and sustainable development.
PLO9	Encourage readiness for career development and lifelong learning.

STUDY PLAN: BACHELOR OF BUILDING SURVEYING
SEMESTER 1 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GIG1003	Basic Entrepreneurship Enculturation	2	GIG1017 / *GLT1018	Philosophy and Current Affairs / *Malaysia CITRA	2				10
	GUL1001	Embrace@ UMleader	2	GLTxxxx	English I	2				
				GXXxxxx	Co-Curiculum	2				
Faculty Core Courses	BIX1008	Innovation in Built Environment	2							2
Programme Core Courses	BIB1012	Legal Studies And Built Environment Laws	3	BIB1016	Construction Technology – High Rise Building	3				26
	BIB1013	Construction Technology – Low Rise Building	3	BIB1017	Integrated Project I – Design Communication	4				
	BIB1014	Building Services	3	BIB1018	Computer Aided Design	3				
	BIB1015	Building Services & Environment	4	BIB1019	Sustainable Built Environment	3				
University Elective Courses										
Total credits			**19**	**Total credits**		**19**	**Total credits**		**0**	**38**

* Non-Malaysian

YEAR 2 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi	2	GIG1016	Integrity and Anti-Corruption (KIAR)	2				8
	GLT10xx	English II	2	GLT2000	Professional Malay For Career and Organisation	**				
	GUL2002	KURSUS Ignite@ UMLEADER	2							
Faculty Core Courses										
Programme Core Courses	BIB2013	Construction Technology – Complex Construction	3	BIB2018	Building Dilapidation Survey	3	BIB2022	Integrated Project IV – Building Performance & Simulation	4	37
	BIB2014	Building Pathology	3	BIB2019	Integrated Project III – Building Services Audit	4	BIB2023	Procurement, Contract and Specification	3	
	BIB2016	Integrated Project II – Building Control & Development	4	BIB2020	Accounting & Financial Management	3				
	BIB2017	Structural Principle	3	BIB2021	Risk & Construction Safety	3				
				BIB2015	Property Management & Maintenance	4				
University Elective Courses										
Total credits			**19**	**Total credits**		**19**	**Total credits**		**7**	**45**

YEAR 3 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses										
Faculty Core Courses										
Programme Core Courses	BIB3011	Fundamental of Property Valuation & Taxation	3	BIB3016	Property Economics & Investment	3				32
	BIB3012	Facility Management Services	3	BIB3017	Building Surveying Professional Practice	3				
	BIB3013	Building Conservation	3	BIB3018	Construction Law	3				
	BIB3014	Research Methodology	3	BIB3019	Building Certification	3				
	BIB3015	Integrated Project V – Project Management	4	BIB3020	Academic Research	4				
University Elective Courses										
Total credits			**16**	**Total credits**		**16**	**Total credits**		**0**	**32**

YEAR 4 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses										
Faculty Core Courses										
Programme Core Courses	BIB4002	Industrial Training	10							10
University Elective Courses										
Total credits			**10**	**Total credits**		**0**	**Total credits**		**0**	**10**

OVERALL TOTAL CREDITS: 125

The programme structure maybe subjected to change

List of Programme elective courses:

- BIB1018 – Computer Aided Design (3 Credits)
- BIB1019 – Sustainable Built Environment (3 Credits)
- BIB1020 – Land & Geomatics Surveying (3 Credits)

PROGRAMME STRUCTURE – BACHELOR OF BUILDING SURVEYING
SEMESTER 1 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II			YEAR III		YEAR IV		Total Credits	Pre-requisite
				S1	S2	S1	S2	S3	S1	S2	S1	S2		
UNIVERSITY COURSES	1	GIG1003	Basic Entrepreneurship Enculturation	2									20	
	2	GUL1001	Embrace@ UMleader	2										
	3	GIG1017 / *GLT1018	Philosophy and Current Affairs / *Malaysia CITRA		2									
	4	GLT10xx	English I		2									
	5	GXXxxxx	Co-Curiculum		2									
	6	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi			2								
	7	GLT10xx	English II			2								
	8	GUL2002	KURSUS Ignite@UMLEADER			2								
	9	GIG1016	Integrity and Anti-Corruption (KIAR)				2							
	10	BIX1008	Inovasi dala AInnovation in Built Environment	2										
PROGRAMME CORE COURSES	11	BIB1012	Legal Studies and Built Environment Laws	3									99	
	12	BIB1013	Construction Technology – Low Rise Building	3										
	13	BIB1014	Building Services	3										
	14	BIB1015	Building Services & Environment	4										
	15	BIB1016	Construction Technology – High Rise Building		3									
	16	BIB1017	Integrated Project I – Design Communication		4									
	17	BIB2013	Construction Technology – Complex Construction			3								
	18	BIB2014	Building Pathology			3								
	19	BIB2015	Property Management and Maintenance			4								
	20	BIB2016	Integrated Project II – Building Control & Development			4								
	21	BIB2017	Structural Principle			3								
	22	BIB2018	Building Dilapidation Survey				3							BIB2014
	23	BIB2019	Integrated Project III – Building Services Audit				4							
	24	BIB2020	Accounting & Financial Management				3							
	25	BIB2021	Risk & Construction Safety				3							
	26	BIB2022	Integrated Project IV – Building Performance & Simulation					4						
	27	BIB2023	Procurement, Contract and Specification					3						
	28	BIB3011	Fundamental of Property Valuation & Taxation						3					
	29	BIB3012	Facility Management Services						3					
	30	BIB3013	Building Conservation						3					
	31	BIB3014	Research Methodology						3					
	32	BIB3015	Integrated Project V – Project Management						4					
	33	BIB3016	Property Economics & Investment							3				
	34	BIB3017	Building Surveying Professional Practice							3				
	35	BIB3018	Construction Law							3				
	36	BIB3019	Building Certification							3				
	37	BIB3020	Academic Research							4				BIB3014
	38	BIB4002	Industrial Training								10			
PROGRAMME ELECTIVE COURSES	39	BIB1018**	Computer Aided Design		3**								6**	
	40	BIB1019**	Sustainable Built Environment		3**									
	41	BIB1020**	Land & Geomatics Surveying		3**									
Total Subject Breakdown			**Credits**	**17**	**19**	**19**	**19**	**7**	**18**	**16**	**10**	**0**	**125**	
			Subjects	**7**	**7**	**6**	**7**	**2**	**6**	**5**	**1**	**0**	**40**	

Note :

*** Exempted for non –Malaysian students and to be replaced with another Senate-approved university course.** **** Choose only two (2) Program Elective Courses.**

STUDY PLAN: BACHELOR OF BUILDING SURVEYING
SEMESTER 2 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses				GIG1003	Basic Entrepreneurship Enculturation	2				4
				GUL1001	Embrace@ UMleader	2				
Faculty Core Courses				BIX1008	Innovation in Built Environment	2				2
Programme Core Courses				BIB1012	Legal Studies And Built Environment Laws	3				13
				BIB1013	Construction Technology – Low Rise Building	3				
				BIB1014	Building Services	3				
				BIB1015	Building Services & Environment	4				
University Elective Courses										
Total credits			**0**	**Total credits**		**19**	**Total credits**		**0**	**19**

* Non-Malaysian

YEAR 2 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GIG1017 / *GLT1018	Philosophy and Current Affairs / *Malaysia CITRA	2	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi	2				12
	GLT10xx	English I	2	GLT10xx	English II	2				
	GXXxxxx	Co-Curiculum	2	GUL2002	KURSUS Ignite@ UMLEADER	2				
				GLT2000	Professional Malay For Career and Organisation	**				
Faculty Core Courses				BIX1008	Innovation in Built Environment	2				2
Programme Core Courses	BIB1016	Construction Technology – High Rise Building	3	BIB2013	Construction Technology – Complex Construction	3	BIB2022	Integrated Project IV – Building Performance & Simulation	4	33
	BIB1017	Integrated Project I – Design Communication	4	BIB2014	Building Pathology	3	BIB2023	Procurement, Contract and Specification	3	
	BIB1018	Computer Aided Design	3	BIB2016	Integrated Project II – Building Control & Development	4				
	BIB1019	Sustainable Built Environment	4	BIB2017	Structural Principle	3				
University Elective Courses										
Total credits			**19**	**Total credits**		**19**	**Total credits**		**7**	**45**

YEAR 3 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GIG1016	Integrity and Anti-Corruption (KIAR)	2							2
Faculty Core Courses										
Programme Core Courses	BIB2018	Building Dilapidation Survey	3	BIB3011	Fundamental of Property Valuation & Taxation	3				33
	BIB2019	Integrated Project III – Building Services Audit	4	BIB3012	Facility Management Services	3				
	BIB2020	Accounting & Financial Management	3	BIB3013	Building Conservation	3				
	BIB2021	Risk & Construction Safety	3	BIB3014	Research Methodology	3				
	BIB2015	Property Management & Maintenance	4	BIB3015	Integrated Project V – Project Management	4				
University Elective Courses										
Total credits			**19**	**Total credits**		**16**	**Total credits**		**0**	**35**

YEAR 4 (Bachelor of Building Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses										
Faculty Core Courses										
Programme Core Courses	BIB3016	Property Economics & Investment	3	BIB4002	Industrial Training	10				26
	BIB3017	Building Surveying Professional Practice	3							
	BIB3018	Construction Law	3							
	BIB3019	Building Certification	3							
	BIB3020	Academic Research	4							
University Elective Courses										
Total credits			**16**	**Total credits**		**10**	**Total credits**		**0**	**26**

OVERALL TOTAL CREDITS: 125

The programme structure maybe subjected to change

List of Programme elective courses:

- BIB1018 – Computer Aided Design (3 Credits)
- BIB1019 – Sustainable Built Environment (3 Credits)
- BIB1020 – Land & Geomatics Surveying (3 Credits)

PROGRAMME STRUCTURE – BACHELOR OF BUILDING SURVEYING
SEMESTER 2 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II			YEAR III		YEAR IV		Total Credits	Pre-requisite
				S1	S2	S1	S2	S3	S1	S2	S1	S2		
UNIVERSITY COURSES	1	GIG1003	Basic Entrepreneurship Enculturation		2								20	
	2	GUL1001	Embrace@ UMleader		2									
	3	GIG1017 / *GLT1018	Philosophy and Current Affairs / *Malaysia CITRA			2								
	4	GLT10xx	English I			2								
	5	GXXxxxx	Co-Curiculum			2								
	6	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi				2							
	7	GLT10xx	English II				2							
	8	GUL2002	KURSUS Ignite@UMLEADER				2							
	9	GIG1016	Integrity and Anti-Corruption (KIAR)						2					
	10	BIX1008	Innovation in Built Environment		2									
PROGRAMME CORE COURSES	11	BIB1012	Legal Studies and Built Environment Laws		3								99	
	12	BIB1013	Construction Technology – Low Rise Building		3									
	13	BIB1014	Building Services		3									
	14	BIB1015	Building Services & Environment		4									
	15	BIB1016	Construction Technology – High Rise Building			3								
	16	BIB1017	Integrated Project I – Design Communication			4								
	17	BIB2013	Construction Technology – Complex Construction				3							
	18	BIB2014	Building Pathology				3							
	19	BIB2015	Property Management and Maintenance						4					
	20	BIB2016	Integrated Project II – Building Control & Development				4							
	21	BIB2017	Structural Principle				3							
	22	BIB2018	Building Dilapidation Survey						3					BIB2014
	23	BIB2019	Integrated Project III – Building Services Audit						4					
	24	BIB2020	Accounting & Financial Management						3					
	25	BIB2021	Risk & Construction Safety						3					
	26	BIB2022	Integrated Project IV – Building Performance & Simulation					4						
	27	BIB2023	Procurement, Contract and Specification					3						
	28	BIB3011	Fundamental of Property Valuation & Taxation							3				
	29	BIB3012	Facility Management Services							3				
	30	BIB3013	Building Conservation							3				
	31	BIB3014	Research Methodology							3				
	32	BIB3015	Integrated Project V – Project Management							4				
	33	BIB3016	Property Economics & Investment								3			
	34	BIB3017	Building Surveying Professional Practice								3			
	35	BIB3018	Construction Law								3			
	36	BIB3019	Building Certification								3			
	37	BIB3020	Academic Research								4			BIB3014
	38	BIB4002	Industrial Training									10		
PROGRAMME ELECTIVE COURSES	39	BIB1018**	Computer Aided Design			3**							6**	
	40	BIB1019**	Sustainable Built Environment			3**								
	41	BIB1020**	Land & Geomatics Surveying			3**								
Total Subject Breakdown			Credits	0	19	19	19	7	19	16	16	10	125	
			Subjects	0	7	7	7	2	6	5	5	1	40	

Note :
* Exempted for non –Malaysian students and to be replaced with another Senate-approved university course. ** Choose only two (2) Program Elective Courses.

PROGRAMME CORE COURSES

BIB1012 **LEGAL STUDIES & BUILT ENVIRONMENT LAWS**

3 credits

Synopsis of Course Contents

This course focuses on the Malaysian Legal System, Law of Tort, and Law of Contract. It also covers legislations for land development and building: National Land Code 1965; Local Government Act 1976; Town and Country Planning Act 1976; Housing Development (Control and Licensing) Act 1966; Environmental Quality Act 1974; Street, Drainage and Building Act 1974; and Strata Title Act 1985.

Learning Outcomes

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

1. Read the Malaysian Legal System, law of tort and contract;
2. Execute the principles and working of specific legislative provisions in built environment context; and
3. Apply the knowledge of law of tort, law of contract and built environment laws.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIB1013 **CONSTRUCTION TECHNOLOGY - LOW RISE BUILDING**

3 credits

Synopsis of Course Contents

Introduction to construction industry, building construction principles, materials, methods and processes for erecting low rise buildings based on relevant regulation and standard; construction activities and parties involved; civil and building works; building structures and elements; building materials and finishes.

Learning Outcomes

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

1. Determine building materials and connection methods for erecting a two-storey building;
2. Reconstruct a building at appropriate model scale; and
3. Write a report on construction for timber, masonry and reinforced concrete buildings.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB1014 **BUILDING SERVICES**

3 credits

Synopsis of Course Contents

This course introduces the need for building services in modern living, relevant regulations and guidelines; Uniform Building By-Laws (UBBL) requirements; design of rainwater collection and drainage systems, plumbing and integrated plumbing systems; water supply and distribution; underground drainage and disposal system, above ground drainage, sewerage systems and septic tanks; refuse disposal systems; electrical distribution, electrical wiring, telephone and data; vertical and horizontal transportation in buildings.

Learning Outcomes

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

1. Show various types of building service systems;
2. Discuss the design of installation and location of equipment in the service systems; and
3. Conform the requirements and limitations of the building services system.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIB1015 **BUILDING SERVICES & ENVIRONMENT**

4 credits

Synopsis of Course Contents

Introducing the concept of environmental physics in a sustainable development and human lifestyle influenced by lighting, ventilation and acoustic systems and how the concept is integrated in various types of mechanical and electrical systems in buildings such as air conditioning and mechanical ventilation systems, lighting and electrical systems and fire safety systems.

Learning Outcomes

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

1. Identify concepts of environmental physics in the design and performance of mechanical and electrical (M&E) services;
2. Elaborate various natural and mechanical and electrical (M&E) services within the built environment; and
3. Examine parameters of comfort being measured in buildings in terms of climate, ventilation, lighting and sound.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB1016 **CONSTRUCTION TECHNOLOGY – HIGH RISE BUILDING**

3 credits

Synopsis of Course Contents

Introduction to construction industry, building construction principles, methods and processes for multi-storey building base on relevant regulation and standard; site preparation and machineries; piling, basement, waterproofing systems, building frames, metal and concrete composite building structures, cladding systems, roof system, elements, materials and finishes; fundamental of building alteration, demolition works and infrastructural work.

Learning Outcomes

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

1. Interpret the principles, design, materials and methods in multi-storey (medium rise) building construction;
2. Show preliminary construction activities and machineries through exposure to construction works on site; and
3. Show the suitability of construction methods for multi-storey building.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB1017 **INTEGRATED PROJECT I – DESIGN COMMUNICATION**

4 credits

Synopsis of Course Contents

The course aims at developing students' capabilities of executing a broad range of architectural communication tasks and introduces fundamental graphic communication techniques. It involves studies on various drawing techniques like orthographic and free-hand drawings besides computer aided drawing to enable students to develop and present their design ideas in different mediums.

Learning Outcomes

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

1. Determine basic design principles of graphic communication;
2. Demonstrate existing building into technical drawings; and
3. Draw two and three-dimensional architectural drawings.

Assessment:

Continuous Assessment: 100%

BIB2013 **CONSTRUCTION TECHNOLOGY – COMPLEX CONSTRUCTION**

3 credits

Synopsis of Course Contents

Introduction to heavy substructure works and high-rise building construction system based on relevant regulation and standard: prefabricated building systems; pre-cast concrete; pre-stressed and post tension concrete; formworks, false works and scaffoldings; advanced contemporary materials and external works.

Learning Outcomes

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

1. Determine heavy substructure works and building construction system;
2. Show alternative construction materials and methods for highrise buildings; and
3. Adapt methods for complex constructions.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB2014 **BUILDING PATHOLOGY**

3 credits

Synopsis of Course Contents

Introduction to various types of building defects occurred on building fabrics and structures; understanding material behaviour due to mechanical, biological, chemical and environmental agents; deterioration on modern and traditional materials. Introduction to building inspection, measurement techniques using appropriate apparatus, and various remediation techniques. Preparation of building condition reporting based on RICS and RISM standards.

Learning Outcomes

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

1. Determine various types of building materials, defects, materials behaviour and agents of deterioration;
2. Report building defects based on building inspection outcomes; and
3. Show building inspection outcomes and diagnose building defects.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIB2015 **PROPERTY MANAGEMENT & MAINTENANCE**

4 credits

Synopsis of Course Contents

This course covers the property management practices; various types of building maintenance strategies; maintenance planning and budgeting; life cycle cost application; execution of maintenance activities; recording and monitoring; and contracts management.

Learning Outcomes

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

1. Determine principle and practise of property management;
2. Show various types of maintenance and procedures for buildings; and
3. Arrange maintenance planning and economical maintenance budgeting, considering the life cycle costs.

Assessment:

Continuous Assessment: 50%

Final Examination: 50%

BIB2016 **INTEGRATED PROJECT II – BUILDING CONTROL & DEVELOPMENT**

4 credits

Synopsis of Course Contents

Exposure to urban planning, planning theories, and site analysis. Application of knowledge in Uniform Building By-law 1984 and Road, Drainage & Building Acts 1995, Certificate of Fitness (CF) and Certificate of Completion and Compliance (CCC) approvals procedures; plans checking practice and inspection methods; Building design theories and concepts for building refurbishment, legal requirements, site and existing building analysis.

Learning Outcomes

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

1. Identify aspects of planning theories and site analysis;
2. Apply process and procedures for building plan approval and issuance of Certificate of Fitness for Occupation (CF) and Certificate of Completion and Compliance (CCC);
3. Show refurbishment according to relevant regulation and legislation; and
4. Conform design and legislative requirements for building plan approval.

Assessment:

Continuous Assessment: 100%

BIB2017 **STRUCTURAL PRINCIPLE**

3 credits

Synopsis of Course Contents

Introduction to building structures layout, loading on building, forces and reaction in structures. Concurrent coplanar forces and moment of forces. Axial forces, shear force and bending moment. Framed structures, properties of section, material strength and safety factors.

Learning Outcomes

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

1. Determine the type of structures and loadings react on a low rise building;
2. Show calculation on forces react on members of building structures; and
3. Show safe sections for building structures.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB2018 **BUILDING DILAPIDATION SURVEY**

3 credits

Synopsis of Course Contents

Dilapidations are breaches of contract / leases due to the condition of the property being purchased, leased, either during or at the end of the lease period. Property owners and tenants will normally be advised by a specialist surveyor or property consultant by carrying out a dilapidations survey that provides detailed survey recording the condition of building components and systems down to minor wear and tear. The outcomes of the dilapidation report will recommend appropriate method of statements with relevant standards code of practice. This course also aims to expose students to the survey project that is involving the related community/authority.

Learning Outcomes

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

1. Determine various types of building defects occurred at different building components;
2. Implement inspection and diagnosis of building defects with scientific principles;
3. Prepare the inspection outcomes with specification of repairs; and
4. Synthesise the outcome of inspection with meaningful community engagement.

Assessment:

Continuous Assessment: 100%

BIB2019 **INTEGRATED PROJECT III – BUILDING SERVICES AUDIT**

4 credits

Synopsis of Course Contents

Application on plan checking of the building services systems, the layout, sizes and numbers; with the combination of required legislation and guidelines in conducting building audits on the performance of mechanical, electrical, plumbing and other building services systems; the adaptation of sustainable in building services refurbishment work.

Learning Outcomes

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

1. Report building services problems which include the installation, operation and function based on legislation requirement and other related guideline;
2. Show building services requirement through calculation, plan checking and building audit; and
3. Present a proposed sustainable refurbishment plan for building services to achieve optimum and effective performance.

Assessment:

Continuous Assessment: 100%

BIB2020 **ACCOUNTING & FINANCIAL MANAGEMENT**

3 credits

Synopsis of Course Contents

This course deals with the concept and basic principles of accounting which include balance sheet, ledger, trading account, and profit-and-loss account. The course also introduces financial management which provides an understanding on accounting ratio and the application of financial statements.

Learning Outcomes

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

1. Describe the basic principles in accounting and financial management in accordance to accounting standards;
2. Describe the theories, concepts and practice in accounting and financial management; and
3. Show the application of a financial statement.

Assessment:

Continuous Assessment:	40%
Final Examination:	60%

BIB2021 **RISK & CONSTRUCTION SAFETY**

3 credits

Synopsis of Course Contents

Introduction to the scope of risk, safety and health in the construction industry. Risks and hazards, law and legislation pertaining occupational health (OSHA 1994). Guidelines of construction work controls. Roles, importance and management of safety and health. Characteristics, policies, inspection, manuals and procedures. Worksite accidents: reporting, control and prevention. Explanation on current case studies involving health and safety issues in the construction industry.

Learning Outcomes

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

1. Explain health and safety scenarios in the construction industry in Malaysia;
2. Study the needs of health and safety management in the construction industry on related legislation;
3. Describe the procedure of risk management in the construction industry, and
4. Complete technical report based on health and safety management in the construction industry.

Assessment:

Continuous Assessment:	60%
Final Examination:	40%

BIB 2022 **INTEGRATED PROJECT IV – Building Performance & Simulation**

4 credits

Synopsis of Course Contents

Application of practice, processes and procedures of inspections after occupancy; building quality inspections and reports; focus on Building Assessment after occupancy by promoting best practices and understanding the requirements of BPE; knowledge of architectural design principles, building construction, property building materials and technical building systems to better understand their needs with each other in terms of the building performance; able to evaluate different design concepts in terms of integration of technical systems, energy efficiency and sustainability; knowledge of simulation techniques and the introduction of theoretical and operational principles of technology to achieve a quality internal environment.

Learning Outcomes

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

1. Conclude the benefits, concepts, assumptions and limitations of building performance simulation methods;
2. Integrate a systematic and in-depth approach in identifying building failures in phase after construction period; and
3. Justify Building Performance Assessment (BPE) in meeting design goals for resource use and building-building satisfaction.

Assessment:

Continuous Assessment: 100%

BIB2023 **PROCUREMENT, CONTRACT & SPECIFICATION**

3 credits

Synopsis of Course Contents

Introduction to the standard methods of measurement and specification (SMM 2). Application of measurement forms and collection of measurement methods and writing description. Quantification for renovation works, refurbishment, internal and external buildings and estimation preparation. Types of contract: Built, Operate and Transfer (BOT), direct negotiation, design and built, turnkey, lump sum, joint venture, privatisation. Contract process and procedures, Contract liability, Document for appointment of contractor, payment to contractors (performance bond, insurance, etc.)

Learning Outcomes

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

1. Explain the standard of measurement methods in construction work;
2. Identify the type, process, procedure and liability of contract and process and procedure to engage employment of contractors and consultants;
3. Arrange job specification and quotations (PWD/PAM) and construction price estimation for internal and external building measurement works; and
4. Show method of payment for work progress and variation order.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3011 **FUNDAMENTAL OF PROPERTY VALUATION & TAXATION**

3 credits

Synopsis of Course Contents

This course provides principles that determine the value of real estate, by introducing mathematical evaluation, calculations in property valuation. This also contains legislation relating to valuation statute namely the Local Government Act 1976, Town and Country Planning Act 1976, Stamp Duty Act 1949, Real Property Gains Tax Act 1967, Customs Act 1967 and Income Tax Act 1967.

Learning Outcomes

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

1. Show the fundamentals of real estate and market value;
2. Appraise valuation based on valuation principles; and
3. Adapt appropriate valuation methods to evaluate various types of property and taxation purposes.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3012 **FACILITY MANAGEMENT SERVICES**

3 credits

Synopsis of Course Contents

Introduction to facility management functions, business organisation relationships to ensure a productive and sustainable work environment; operational management operations skills for an organisation in strategic, tactical and operational contexts; discusses the concepts and techniques of writing business plans. In addition, well designed business plans provide an operational framework that allows the business to enjoy distinct competitive advantages. Furthermore, the right facilities must be on- line at the right time. In this context, it follows that strategic facilities planning (SFP) are a business planning activity. The process integrates a company's business plan with its plan for the short- and long-term acquisition and disposition of facilities. This, in turn, should result in increased profits for the organisation.

Learning Outcomes

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

1. Apply professional facility management function in public or private sector in delivering optimal services with due consideration for cost and efficiency;
2. Show knowledge and understanding of business planning activities contributing to the achievement of corporate objective; and
3. Present an effective strategic facility plan to reach financial performance and productivity goals by integrating short- and long- term facility planning in aligned with the organization's business plan.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3013 **BUILDING CONSERVATION**

3 credits

Synopsis of Course Contents

Introduction to the significant values of existing buildings, principles and practice, techniques and methods of building conservation. It includes approaches and practices in conserving buildings according to existing legislation.

Learning Outcomes

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

1. Determine the principles and practice, techniques and methods of building conservation;
2. Show various conservation approaches and practices; and
3. Perform building evaluation for conservation purposes.

Assessment:

Continuous Assessment: 100%

BIB 3014 **RESEARCH METHODOLOGY**

3 credits

Synopsis of Course Contents

Students will be exposed to the principles and fundamental research components. This includes defining research questions; critically assessing literature, exploring suitable quantitative and qualitative research methods, analytical thinking and ethics in research. Through this process, students will construct an effective research proposal that will serve as the continuing point for the study to be conducted in the coming semester.

Learning Outcomes

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

1. Describe the research process and the principle activities, skills and ethics associated with the research work;
2. Show methodological research approach in conducting research work; and
3. Prepare a coherent research proposal to its produce a report.

Assessment:

Continuous Assessment: 100%

BIB 3015 **INTEGRATED PROJECT V – Project Management**

4 credits

Synopsis of Course Contents

This course emphasises the major theories and applications of two major aspects of the project namely the project management in building construction projects. It combines the project management theory in the built environment sector, especially for the building construction and its application in a comprehensive project management approach.

Learning Outcomes

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

1. Interpret the theory aspect of project management;
2. Integrate the project management theory in building construction projects; and
3. Propose suitable building construction projects based on the concept of comprehensive project management.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3016 **PROPERTY ECONOMICS & INVESTMENT**

3 credits

Synopsis of Course Contents

This course introduces theory and understanding of economic principles in the economic environment, in particular referring to supply and demand in the built environment as well as macro and micro economic principles. This also includes related learning on urban land economy, land prices and real estate market structure. This course will also provide an understanding of urban contexts, economic approaches to various urban problems and related policies that can be used to address urban problems.

Learning Outcomes

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

1. Identify economic principles within economic environment;
2. Relate real estate with urban economics; and
3. Compare urban economic theories with regard to urban land use and urban problems.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIB 3017 **BUILDING SURVEYING PROFESSIONAL PRACTICE**

3 credits

Synopsis of Course Contents

This course focuses on introduction to Building Surveying and Property Management Profession, scope of work in the construction and building management sector, professional qualification, qualities, skills, codes and ethics. Contractual Relationship, Duties and Fees. Organization Management and Office Establishment, appointment and job interview, professionalism and recognition in local and global level.

Learning Outcomes

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

1. Interpret the importance and roles of building surveying and property management;
2. Show working approach of building surveying and property management; and
3. Study building surveyors' and property managers' roles and responsibilities.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3018 **CONSTRUCTION LAW**

3 credits

Synopsis of Course Contents

Introduction to the principles of construction law, the roles and objectives of constrcution law, constructions contracts and related problems. This includes construction organisation structure, problems and responsibilities of the parties involved in the contract, risk allocation and claims. It will also cover the types of repudiation, litigation and alternative dispute resolution.

Learning Outcomes

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

1. Identify the objectives and roles of construction law;
2. Explain the principles of construction law; and
3. Apply construction law in construction contracts and related problems.

Assessment:

Continuous Assessment: 50%

Final Examination: 50%

BIB 3019 **BUILDING CERTIFICATION**

3 credits

Synopsis of Course Contents

Introduction to the latest assessment and certification of buildings that include aspects of fire safety and risk, construction quality and green rating/certification. Fire safety certification focuses on understanding and application of fire risk assessment principles based on legislation requirements. Construction quality certification focuses on understanding construction quality assessment principles adopted by local and international assessment tools. Green rating/certification focuses on understanding triple bottom line principles adopted by local and international assessment tools.

Learning Outcomes

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

1. Interpret the aspects of fire risk, construction quality and green rating relating to buildings based on applicable legal requirements and standards;
2. Report building performance in terms of risk and probability of fire incidents; and
3. Determine fire safety strategy based on fire risk assessment and triple bottom line sustainable development.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB 3020 **ACADEMIC RESEARCH**

4 credits

Synopsis of Course Contents

Preparation of research report related to building surveying and property management field by applying suitable research methodology, processes and techniques

Learning Outcomes

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

1. Determine appropriate research methods and processes;
2. Analyse problems of an academic or practical significance in building surveying field;
3. Describe the application of theoretical concepts in practical context; and
4. Execute writing of academic report.

Assessment:

Continuous Assessment: 100%

BIB 4002 **INDUSTRIAL TRAINING**

10 credits

Synopsis of Course Contents

Introduction to professional working environment; applying comprehensive building surveying and property management skills as well as building construction knowledge; exposure to actual working environment by practice interpersonal skills and effective teamwork.

Learning Outcomes

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

1. Apply classroom learning in the actual building industry working environment;
2. Integrate interpersonal, technical and managerial skills related with building surveying and property management; and
3. Practise work ethics and professionalism in an actual working environment.

Assessment:

Continuous Assessment: 100%

PROGRAMME ELECTIVE COURSES

BIB1018 **COMPUTER AIDED DESIGN**

3 credits

Synopsis of Course Contents

This course aims to introduce the types and components of Computer-Aided Design (CAD), the usage in designing and measuring buildings, the operating system and relevant image processing. It involves designing technical drawing using 2-D and 3-Dimension lectures and hands on sessions using appropriate CAD software and plotting design and drawings.

Learning Outcomes

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

1. Apply visual presentation and communication with Computer-Aided Design (CAD) software;
2. Complete technical construction drawing using CAD software; and
3. Draw two and three-dimensional architectural drawings using CAD software.

Assessment:

Continuous Assessment: 100%

BIB1019 **SUSTAINABLE BUILT ENVIRONMENT**

3 credits

Synopsis of Course Contents

This course discusses key principles of sustainable development (environmental, social and economical) and analyses the complex relationship of the building industry and national economic growth. It also explores the holistic approach of sustainable development in the built environment for climate change mitigation and economic development.

Learning Outcomes

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

1. Interpret the principles of sustainable development;
2. Propose sustainable development principles in built environment to mitigate environmental risks; and
3. Formulate the holistic implementation of sustainable development principles in the built environment context.

Assessment:

Continuous Assessment: 60%

Final Examination: 40%

BIB1020 **LAND & GEOMATICS SURVEYING**

3 credits

Synopsis of Course Contents

Introduction to basic theory and the principles of land and building surveying. Introduction with hands-on fieldwork and equipment used in land surveying. Introduction to the concepts of handling and introduction to Geographic Information System (GIS) and its related software application.

Learning Outcomes

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

1. Explain the basic principles of method and procedure of land survey;
2. Adapt various survey equipment, referencing information, record and calculation to produce site dat; and
3. Execute the Geographic Information System (GIS) software in calculation and spatial analysis.

Assessment:

Continuous Assessment: 100%

QUANTITY SURVEYING

Bachelor of Quantity Surveying

ACADEMIC STAFF
DEPARTMENT OF QUANTITY SURVEYING

HEAD

Sr Dr. Nurshuhada Zainon, PQS
PhD (IT in Construction), Universiti Malaya
M.Sc Construction Economics & Management,
University College London, UK
Bachelor of Quantity Surveying (Hons with Dist),
Universiti Malaya
Professional Quantity Surveyor (BQSM), MRISM
Tel: 03-7967 2461
E-mail: zshuhada@um.edu.my

PROFESSORS

Professor Sr Dr. Faizul Azli Mohd Rahim, CQS
PhD (Project Risk Management), University of Liverpool, UK
M.Sc IT in Property & Construction, University of Salford, UK
B.Sc (Hons) Quantity Surveying, University of Salford, UK
Consultant Quantity Surveyor (BQSM), MRISM, MIVMM
Tel: 03-7967 7958
E-mail: azli@um.edu.my

Professor Sr Dr. Hafez Salleh, CQS
PhD (Strategic IT Management), University of Salford, UK
M.Sc IT in Property & Construction, University of Salford, UK
B.Sc (Hons) Quantity Surveying, University of Salford, UK
Dipl. Quantity Surveying, Universiti Teknologi MARA
Consultant Quantity Surveyor (BQSM), FRISM
Tel: 03-7967 4476
E-mail: hafez@um.edu.my

ASSOCIATE PROFESSORS

YBhg. Associate Professor Datuk Ts. Dr. Zulkiflee Abdul Samad
PhD (Project Management), University of Cambridge, UK
DBA (Project Management),Trinity College & University, US
M.Sc (Project Management), Universiti Sains Malaysia
MBA ESG Paris, France
M. App Mgt (Architecture), University of Newcastle, Australia
B.Quantity Surveying (Hons), Universiti Teknologi MARA
Cert.Project Management, Teesside Tertiary College, UK
Professional Technologist (MBOT) (P.Tech) (Building Construction)
Tel: 03-7967 4474
E-mail: zulkiflee1969@um.edu.my

Associate Professor Dr. Norhanim Zakaria
PhD (Real Estate/Project Management), Universiti Teknologi Malaysia
M.Sc Construction Management, Universiti Teknologi Malaysia
B. Quantity Surveying (Hons), Universiti Teknologi Malaysia
Dipl. Quantity Surveying, Universiti Teknologi Malaysia
Provisional Quantity Surveyor (BQSM), MIVMM, Graduate Member (RISM)
Tel: 03-7967 6875
E-mail: norhanimz@um.edu.my

Associate Professor Sr Dr. Mohd Suhaimi Mohd Danuri, CQS
PhD (Business Law), Universiti Putra Malaysia
Master Construction Law, University of Melbourne, Australia
B.Quantity Surveying (Hons), Universiti Teknologi Malaysia
Dipl. Quantity Surveying, Universiti Teknologi Malaysia
Consultant Quantity Surveyor (BQSM), ACIArb, MRISM, MIVMM
Tel: 03-7967 4473
E-mail: msuhaimi@um.edu.my

Associate Professor Dr. Mahanim Hanid
PhD (Construction Management), University of Salford, UK
M.Sc Building Technology, Universiti Sains Malaysia
B. Quantity Surveying (Hons), Universiti Malaya
Dipl. Quantity Surveying, Universiti Teknologi Malaysia
Provisional Quantity Surveyor (BQSM), Graduate Member (RISM)
Tel: 03-7967 6872
E-mail: mahanim@um.edu.my

Associate Professor Sr Dr. Saipol Bari Abd Karim, CQS
PhD in Business Admin. (Project Management), University of Manchester, UK
M.Sc Management of Project, University of Manchester, UK
B. Quantity Surveying (Hons), Universiti Malaya
Consultant Quantity Surveyor (BQSM), FIVMM, FRISM, MACPM, M.SAVE Intl
Tel: 03-7967 6834
E-mail: saipolbari@um.edu.my

Associate Professor Sr Dr. Umi Kalsum Zolkafli @ Zulkifly, CQS
PhD (Building Conservation), Universiti Teknologi MARA
M.Sc Construction Contract Management, Universiti Teknologi Malaysia
B. Quantity Surveying (Hons), Universiti Teknologi MARA
Dipl. Quantity Surveying, Universiti Teknologi MARA
Consultant Quantity Surveyor (BQSM), FRISM
Tel: 03-7967 7604
E-mail: umi@um.edu.my

SENIOR LECTURERS

Sr Dr. Kho Mei Ye, CQS
PhD (Project Management), Universiti Malaya
M.Sc (Building), Universiti Malaya
B. Quantity Surveying (Hons), Universiti Malaya
Consultant Quantity Surveyor (BQSM), MRISM
Tel: 03-7967 2457
E-mail: meiye@um.edu.my

Sr Dr. Nur Mardhiyah Aziz, PQS
PhD (IT in Construction), Universiti Malaya
M.Sc Facilities Management, Universiti Teknologi MARA
B.Sc (Housing, Building & Planning) (Quantity Surveying) (Hons), USM
Professional Quantity Surveyor (BQSM), MRISM
Tel: 03-7967 4587
E-mail: nurmardhiyah@um.edu.my

Sr Dr. Loo Siaw Chuing, PQS
PhD (Project & Construction Management), Universiti Malaya
M.Sc (Building), Universiti Malaya
B. Quantity Surveying (Hons), Universiti Malaya
Professional Quantity Surveyor (BQSM), MRISM
Tel: 03-7967 7959
E-mail: siawchuing@um.edu.my

Ts. Dr. Muhammad Hadi Mustafa
PhD (Built Environment), International Islamic University Malaysia
M.Sc Management of Projects, University of Manchester
Bachelor of Quantity Surveying (Hons), IIUM
Provisional Quantity Surveyor (BQSM)
Tel: 03-7967 4493
E-mail: hadimustafa@um.edu.my

Ts. Dr. Mazura Mahdzir
PhD (Built Environment), International Islamic University Malaysia
M.Sc in Construction Contract Management (UTM)
Bachelor of Quantity Surveying (Hons), IIUM
Professional Technologist (MBOT) (P.Tech) (Building Construction)
Provisional Quantity Surveyor (BQSM),
Graduate Member (RISM)
Tel: 03-7967 7957
E-mail: mazuramahdzir@um.edu.my

Dr. Zafira Nadia Maaz
PhD (Quantity Surveying), Universiti Teknologi Malaysia
M. Sc International Business Management,University of Aberdeen, UK
B. Quantity Surveying (Hons), Universiti Teknologi Malaysia
Tel: 03-7967 6847
E-mail: zafiranadia@um.edu.my

LECTURER

Sr Imran Ariff Yahya, CQS
M.Sc (Building), Universiti Malaya
B.Sc (Hons) Quantity Surveying, University of Salford, UK
Consultant Quantity Surveyor (BQSM), MRISM
Tel: 03-7967 6846
E-mail: imranariff@um.edu.my

EXTERNAL ASSESSORS

Professor Srinath Perera
Chair in Built Environment & Construction Management,
School of Engineering, Design & Built Environment,
Western Sydney University,
Penrith, NSW 2751, Australia
PhD.
MSc (IT in P&C), University of Salford, UK
B.Sc (Hons) Quantity Surveying, University of Moratuwa, Sri Lanka,
FRSN, FIAB, MRICS, AAIQS, ICECA, MICCPM, MAIPM
E-mail: srinath.perera@westernsydney.edu.au

Sr Wan Ainon Zuraiha Wan Abdul Khalid, CQS
Principal Partner,
AI Konsult Sdn Bhd (QS Practice),
Chair of BCISM Sdn Bhd,
Bachelor of Science (Quantity Surveying), University of Salford, UK
Reg. Consultant QS (BQSM), MRICS, FRISM
E-mail: waz_2006@yahoo.com.my

ADJUNCT PROFESSORS

Sr Ahmad Farrin bin Mokhtar
Ketua Eksekutif,
Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB),
MBA (Construction Management) IIUM,
PG Diploma (IT in Construction), University of Salford, UK.,
B. Quantity Surveying (Hons), Universiti Teknologi MARA
Dipl. Quantity Surveying, Universiti Teknologi MARA,
MRISM
E-mail: farrin@cidb.gov.my

(Dr.) Ong See Lian, KMN.
Director and Strategic Advisor,
Turner & Townsend Quantity Surveying Consultant Sdn. Bhd,
Honorary Doctor of Science, University of Reading, UK.
BSc (Hons) Quantity Surveying, University of Reading, UK.
Fellow of the Royal Institution of Chartered Surveyors (FRICS),
Fellow of Royal Institution of Surveyors Malaysia (FRISM),
Registered Consultant QS (CQS) of Board of Quantity Surveyors Malaysia,
Honorary Fellow of Hong Kong Institute of Surveyors,
Honorary Fellow of University of Built Environment, UK,
Honorary Fellow of Japan Association of Real Estate Securitisation (ARES),
Honorary Fellow of China Appraisal Society (CAS).
E-mail: Seelian.ong@turntown.com

QUANTITY SURVEYING

Introduction

The Bachelor of Quantity Surveying programme was initiated in 1995. In July 1996, the first batch of students enrolled for their studies under a new programme called Built Environment Programme, which was subsequently upgraded to the Built Environment Division under the umbrella of the Faculty of Engineering. Later, the Division was upgraded into a full-fledged faculty known as the Faculty of Built Environment in May 2000.

The Universiti Malaya's Bachelor of Quantity Surveying programme has been formulated in accordance with the general guidelines provided by the Board of Quantity Surveyors Malaysia (BQSM) and the Royal Institution of Chartered Surveyors (RICS), United Kingdom and has received accreditations from BQSM and RICS respectively.

The course structure consists of three and a half (3.5) years of full-time studies and consists of 7 semesters and 1 special semester, with a total of 126 credits. Upon completing their studies, graduates will be registered as Provisional Quantity Surveyors (PVQS) through the Bulk Registration Programme, a collaboration between Universiti Malaya and the Board of Quantity Surveyors Malaysia (BQSM). Once registered as PVQS and meeting the necessary requirements, graduates may apply for the Assessment of Professional Competence (APC) Tier 1. Upon fulfilling the APC Tier 1 requirements, they will be upgraded to Professional Quantity Surveyor (PQS).

Programme Aim

To produce graduates with a professional degree in Quantity Surveying to practice within but not limited to the construction industry both locally and internationally who can understand and apply knowledge effectively with high awareness of culture and ethics.

Programme Learning Outcomes

At the end of the programme, graduates would be able to:

PLO1	Discover the relevant knowledge of quantity surveying in the construction industry.
PLO2	Identify strategic choices with supporting evidence for good judgement in the quantity surveying field.
PLO3	Apply the necessary technical and practical skills in the QS field.

PLO4	Develop digital knowledge to enhance self-development.
PLO5	Ability to communicate in a clear, reasonable and professional manner.
PLO6	Ability to show effective and efficient managerial and entrepreneurial skills in the construction industry.
PLO7	Demonstrate the leadership qualities towards relevant stakeholders in the industry.
PLO8	Ability to work in a professional manner and commitment to ethical practice.

STUDY PLAN: BACHELOR OF QUANTITY SURVEYING
SEMESTER 1 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Quantity Surveying)							
COMPONENTS	**SEMESTER 1**			**SEMESTER 2**			**TOTAL CREDITS**
	COURSE CODE	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	
Compulsory University Courses	GUL1001	Embrace@UMLEADER	2	GIG1017	Philosophy and Current Affairs	2	14
	GIG1003	Basic Entrepreneurship Enculturation	2	GIG1018	CITRA Malaysia*		
	GIG1019	Malaysian Nation-State Aspiration	2	GLT10XX	English Course	2	
	GLT1049	Malay Language Communication 2*		GXXxxxx	Co-Curriculum	2	
				GIG1016	Integrity and Anti-Corruption Course (KIAR)	2	
Faculty Core Courses				BIX1018	Innovation in Built Environment	2	2
Programme Core Courses	BIC1011	Introduction to Construction Technology	3	BIC1016	Principles of Measurement for Construction Works I	4	22
	BIC1012	Principles of Economics	3	BIC1017	Materials and Structure in Construction	3	
	BIC1013	Malaysian Legal Studies	2	BIC1018	Construction Economics	3	
	BIC1014	Principles of Management	2				
	BIC1015	Building Services	2				
TOTAL CREDIT			**18**	**TOTAL CREDIT**		**20**	**38**

YEAR 2 (Bachelor of Quantity Surveying)							
COMPONENTS	**SEMESTER 1**			**SEMESTER 2**			**TOTAL CREDITS**
	COURSE CODE	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	
Compulsory University Courses	GUL2002	Ignite@UMLEADER	2	GLT2000	Professional Malay for Career and Organisation	**	2
Programme Core Courses	BIC2013	Principles of Measurement for Construction Works II	4	BIC2019	Measurement of Advanced Construction Works I	4	35
	BIC2014	Sustainable Construction Technology	3	BIC2020	Civil Engineering Construction Technology	3	
	BIC2015	Building Economics	3	BIC2021	Pre-Construction QS Practices	3	
	BIC2016	Project Management Principles	3	BIC2022	Pre-Construction Legal Studies	3	
	BIC2017	Mechanical and Electrical Services in Buildings	2	BIC2023	Integrated Project I	4	
	BIC2018	Analysis of Prices	3				
University Elective Courses				BICXXX	Programme Elective 1	3	3
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**20**	**40**

YEAR 3 (Bachelor of Quantity Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GLT10XX	English Course	2							2
Programme Core Courses	BIC3011	Measurement of Advanced Construction Works II	4	BIC3017	Professional Internship I	4	BIC3018	Professional Internship II	3	26
	BIC3012	Construction Project Management	3							
	BIC3013	QS Practices in Construction	3							
	BIC3014	Digital Construction	3							
	BIC3015	Data Analytics	3							
	BIC3016	Research Methodology for Quantity Surveying	3							
TOTAL CREDIT			**21**	**TOTAL CREDIT**		**4**	**TOTAL CREDIT**		**3**	**28**

YEAR 4 (Bachelor of Quantity Surveying)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	BIC4002	Measurement of Civil Engineering Works	4				17
	BIC4003	Construction Business & Development	3				
	BIC4004	Construction Legal Studies	3				
	BIC4005	Integrated Project II	4				
	BIC4006	Research Project	3				
Programme Elective Courses	BICXXX	Programme Elective 2	3				3
TOTAL CREDIT			**20**	**TOTAL CREDIT**			**20**

OVERALL TOTAL CREDITS: 126
The programme structure maybe subjected to change

*Non-Malaysian

List of Programme elective courses:
- BIC4007 - Risk and Value Management (3 credit)
- BIC4008 - QS Practices in Building Conservation (3 credit)
- BIC4009 - Facilities Management (3 credit)

PROGRAMME STRUCTURE – BACHELOR OF QUANTITY SURVEYING
SEMESTER 1 SESSION 2026/2027

Category	No	Code	Course Name	YEAR I		YEAR II		YEAR III			YEAR IV	Total credit	Pre-requisite
				S1	S2	S1	S2	S1	S2	S3	S1		
MEASUREMENT	1	BIC 1016	Principles of Measurement for Construction Works I		4							**20** 16 %	
	2	BIC 2013	Principles of Measurement for Construction Works II			4							BIC 1016
	3	BIC 2019	Measurement of Advanced Construction Works I				4						BIC 2013
	4	BIC 3011	Measurement of Advanced Construction Works II					4					BIC 2019
	5	BIC 4002	Measurement of Civil Engineering Works								4		BIC 3011
PROFESSIONAL PRACTICE	6	BIC 2021	Pre-Construction QS Practices				3					**6** 5 %	
	7	BIC 3013	QS Practices in Construction					3					
TECHNOLOGY IN CONSTRUCTION	8	BIC 1011	Introduction to Construction Technology	3								**19** 15 %	
	9	BIC 1017	Materials and Structure in Construction		3								BIC 1011
	10	BIC 2014	Sustainable Construction Technology			3							
	11	BIC 2020	Civil Engineering Construction Technology				3						
	12	BIC 3014	Digital Construction					3					
	13	BIC 1015	Building Services	2									
	14	BIC 2017	Mechanical and Electrical Services in Buildings			2							
MANAGEMENT IN CONSTRUCTION	15	BIC 1014	Principles of Management	2								**8** 6 %	
	16	BIC 2016	Project Management Principles			3							
	17	BIC 3012	Construction Project Management					3					
ECONOMICS	18	BIC 1012	Principles of Economics	3								**18** 14 %	
	19	BIC 1018	Construction Economics		3								
	20	BIC 2015	Building Economics			3							
	21	BIC 3015	Data Analytics					3					
	22	BIC 2018	Analysis of Prices			3							
	23	BIC 4003	Construction Business and Development								3		
LAW	24	BIC1013	Malaysian Legal Studies	2								**8** 6 %	
	25	BIC2022	Pre-Construction Legal Studies				3						
	26	BIC4004	Construction Legal Studies								3		
INTEGRATED PROJECT	27	BIC2023	Integrated Project I				4					**8** 6 %	
	28	BIC4005	Integrated Project II								4		
RESEARCH & TRAINING	29	BIC3016	Research Methodology for Quantity Surveying					3				**13** 11 %	
	30	BIC4006	Research Project								3		BIC3016
	31	BIC3017	Professional Internship I						4				
	32	BIC3018	Professional Internship II							3			BIC3017
PROGRAMME ELECTIVE COURSE	33	BICxxxx	Programme Elective 1				3					**6** 5 %	
	34	BICxxxx	Programme Elective 2								3		
FACULTY CORE COURSE	35	BIX1018	Innovation in Construction		2							**2** 2 %	
UNIVERSITY COURSES	36	GIG1019/GLT1049	Malaysian Nation-State Aspiration/*Malay Language Communication 2	2								**18** 14 %	
	37	GIG1017/GIG1018	Philosophy and Current Affairs/ *Malaysia Citra		2								
	38	GUL1001	Embrace@UMLEADER	2									
	39	GUL2002	Ignite@UMLEADER			2							
	40	GIG1003	Basic Entrepreneurship Enculturation	2									
	41	GLT2000	Professional Malay for Career and Organisation				**						
	42	GIG1016	Integrity and Anti-Corruption Course (KIAR)		2								
	43	GXXxxxx	Co-Curriculum		2								
	44	GLTxxxx	English 1		2			2					
	45	GLTxxxx	English 2										
Total Subject Breakdown			**Credits**	**18**	**20**	**20**	**20**	**21**	**4**	**3**	**20**	**126**	
			Subjects	8	8	7	7	7	1	1	6	45	
			University Courses	3	4	1	1	1	0	0	0	10	
			Faculty Courses	0	1	0	0	0	0	0	0	1	
			Programme Courses	5	3	6	6	6	1	1	6	34	

Note: *Course offered to non-Malaysian students **This is a non-credit but compulsory course

STUDY PLAN: BACHELOR OF QUANTITY SURVEYING
SEMESTER 2 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Quantity Surveying)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses				GIG1017	Philosophy and Current Affairs	2	4
				GIG1018	CITRA Malaysia*	2	
				GXXxxxx	Co-Curriculum	2	
				GIG1016	Integrity and Anti-Corruption Course (KIAR)	2	
Faculty Core Courses				BIX1018	Innovation in Built Environment	2	2
Programme Core Courses				BIC1011	Introduction to Construction Technology	3	12
				BIC1016	Principles of Measurement for Construction Works I	4	
				BIX1018	Innovation in Built Environment	2	
				BIC1018	Construction Economics	3	
TOTAL CREDIT				**TOTAL CREDIT**		**18**	**18**

YEAR 2 (Bachelor of Quantity Surveying)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL1001	Embrace@UMLEADER	2	GLT2000	Professional Malay for Career and Organisation	**	6
	GLT10XX	English Courses	2	GLT10XX	English Courses	2	
Programme Core Courses	BIC1012	Principles of Economics	3	BIC1017	Materials and Structure in Construction	3	36
	BIC1013	Malaysian Legal Studies	2	BIC2019	Measurement of Advanced Construction Works I	4	
	BIC1014	Principles of Management	2	BIC2020	Civil Engineering Construction Technology	3	
	BIC1015	Building Services	2	BIC2021	Pre-Construction QS Practices	3	
	BIC2013	Principles of Measurement for Construction Works II	4	BIC2022	Pre-Construction Legal Studies	3	
	BIC2016	Project Management Principles	3	BIC2023	Integrated Project I	4	
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**22**	**42**

YEAR 3 (Bachelor of Quantity Surveying)										
COMPONENTS	SEMESTER 1			SEMESTER 2			SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL2002	Ignite@ UMLEADER	2							2
Programme Core Courses	BIC2015	Building Economics	3	BIC3017	Professional Internship I	4	BIC3018	Professional Internship II	3	25
	BIC2017	Mechanical and Electrical Services in Buildings	2							
	BIC2018	Analysis of Prices	3							
	BIC3011	Measurement of Advanced Construction Works II	4							
	BIC3013	QS Practices in Construction	3							
	BIC3014	Digital Construction	3							
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**4**	**TOTAL CREDIT**		**3**	**27**

YEAR 4 (Bachelor of Quantity Surveying)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	GIG1003	Basic Entrepreneurship Culture	2				4
	GIG1019	Malaysian Nation-State Aspiration	2				
	GLT1049	Malay Language Communication 2*					
Programme Core Courses	BIC3015	Data Analytics	3	BIC2014	Sustainable Construction Technology	3	29
	BIC3016	Research Methodology for Quantity Surveying	3	BIC3012	Construction Project Management	3	
	BIC4002	Measurement of Civil Engineering Works	4	BIC4003	Construction Business & Development	3	
	BIC4005	Integrated Project II	4	BIC4004	Construction Legal Studies	3	
				BIC4006	Research Project	3	
Programme Elective Courses	BICXXX	Programme Elective 1	3	BICXXX	Programme Elective 2	3	6
TOTAL CREDIT			**21**	**TOTAL CREDIT**		**18**	**39**

OVERALL TOTAL CREDITS: 126

The programme structure maybe subjected to change

*Non-Malaysian

List of Programme elective courses:

- BIC4007 - Risk and Value Management (3 credit)
- BIC4008 - QS Practices in Building Conservation (3 credit)
- BIC4009 - Facilities Management (3 credit)

PROGRAMME STRUCTURE – BACHELOR OF QUANTITY SURVEYING
SEMESTER 2 SESSION 2026/2027

Category	No	Code	Course Name	YEAR I	YEAR II		YEAR III			YEAR IV		Total credit	Pre-requisite
				S2	S1	S2	S1	S2	S3	S1	S2		
MEASUREMENT	1	BIC 1016	Principles of Measurement for Construction Works I	4								**20** 16 %	
	2	BIC 2013	Principles of Measurement for Construction Works II		4								BIC 1016
	3	BIC 2019	Measurement of Advanced Construction Works I			4							BIC 2013
	4	BIC 3011	Measurement of Advanced Construction Works II				4						BIC 2019
	5	BIC 4002	Measurement of Civil Engineering Works							4			BIC 3011
PROFESSIONAL PRACTICE	6	BIC 2021	Pre-Construction QS Practices			3						**6** 5 %	
	7	BIC 3013	QS Practices in Construction				3						
TECHNOLOGY IN CONSTRUCTION	8	BIC 1011	Introduction to Construction Technology	3								**19** 15 %	
	9	BIC 1017	Materials and Structure in Construction			3							BIC 1011
	10	BIC 2014	Sustainable Construction Technology								3		
	11	BIC 2020	Civil Engineering Construction Technology			3							
	12	BIC 3014	Digital Construction				3						
	13	BIC 1015	Building Services		2								
	14	BIC 2017	Mechanical and Electrical Services in Buildings				2						
MANAGEMENT IN CONSTRUCTION	15	BIC 1014	Principles of Management		2							**8** 6 %	
	16	BIC 2016	Project Management Principles		3								
	17	BIC 3012	Construction Project Management								3		
ECONOMICS	18	BIC 1012	Principles of Economics		3							**18** 14 %	
	19	BIC 1018	Construction Economics	3									
	20	BIC 2015	Building Economics				3						
	21	BIC 3015	Data Analytics							3			
	22	BIC 2018	Analysis of Prices				3						
	23	BIC 4003	Construction Business and Development								3		
LAW	24	BIC1013	Malaysian Legal Studies		2							**8** 6 %	
	25	BIC2022	Pre-Construction Legal Studies			3							
	26	BIC4004	Construction Legal Studies								3		
INTEGRATED PROJECT	27	BIC2023	Integrated Project I			4						**8** 6 %	
	28	BIC4005	Integrated Project II							4			
RESEARCH & TRAINING	29	BIC3016	Research Methodology for Quantity Surveying							3		**13** 11 %	
	30	BIC4006	Research Project								3		BIC3016
	31	BIC3017	Professional Internship I					4					
	32	BIC3018	Professional Internship II						3				BIC3017
PROGRAMME ELECTIVE COURSE	33	BICxxxx	Programme Elective 1							3		**6** 5 %	
	34	BICxxxx	Programme Elective 2								3		
FACULTY CORE COURSE	35	BIX1018	Innovation in Construction	2								**2** 2 %	
UNIVERSITY COURSES	36	GIG1019/GLT1049	Malaysian Nation-State Aspiration/*Malay Language Communication 2							2		**18** 14 %	
	37	GIG1017/GIG1018	Philosophy and Current Affairs/ *Malaysia Citra	2									
	38	GUL1001	Embrace@UMLEADER		2								
	39	GUL2002	Ignite@UMLEADER				2						
	40	GIG1003	Basic Entrepreneurship Enculturation							2			
	41	GLT2000	Professional Malay for Career and Organisation			**							
	42	GIG1016	Integrity and Anti-Corruption Course (KIAR)	2									
	43	GXXxxxx	Co-Curriculum	2									
	44	GLTxxxx	English 1		2								
	45	GLTxxxx	English 2			2							
Total Subject Breakdown			**Credits**	**18**	**20**	**22**	**20**	**4**	**3**	**3**	**20**	**126**	
			Subjects	7	8	8	7	1	1	7	6	45	
			University Courses	3	2	2	1	0	0	2	0	10	
			Faculty Courses	2	0	0	0	0	0	0	0	1	
			Programme Courses	3	6	6	6	1	1	5	6	34	

Note: *Exemption for non-Malaysian students and to be replaced with another Senate-approved university course **Course offered to non-Malaysian students

PROGRAMME CORE COURSES

BIC1011 **INTRODUCTION TO CONSTRUCTION TECHNOLOGY**

3 credits

Synopsis of Course Contents

This course covers knowledge about current building technologies. This includes the construction of WBLFF, frame, floors, stairs, wall, roof, doors, windows, and finishes.

Learning Outcomes

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

1. Identify the basics of building elements.
2. Explain the construction process involved for the low-rise building; and
3. Apply knowledge of building technology in the quantity surveying field.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC1012 **PRINCIPLES OF ECONOMICS**

3 credits

Synopsis of Course Contents

This course introduces the principles of economics and current issues in construction organisation and industry. It includes industry revolutions, economies of scales, theories of supply and demand, market equilibrium, fiscal and monetary policy, inflation and unemployment, income and output of the nation, international trade, theories of firm and GDP.

Learning Outcomes

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

1. Identify the relevant economic principles in the context of the construction industry.
2. Explain the basic principles of economics that impact national and international development in the context of the construction industry; and
3. Apply principles of economics in construction industry related decision making.

Assessment:

Continuous Assessment: 50%

Final Examination: 50%

BIC1013 **MALAYSIAN LEGAL STUDIES**

2 credits

Synopsis of Course Contents

This course focuses on the Malaysian Legal System. It includes the concept of Malaysian law, sources, and the judicial system. This course also covers the law of contract (Contracts Act 1950) emphasising on elements of contract, privity of contract, discharging of contracts and remedies. The knowledge on law of torts includes negligence, duty of care, breach of duty, remoteness, professional negligence, nuisance and trespass to land.

Learning Outcomes

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

1. Identify the sources, principles, processes and procedures of the Malaysian legal system;
2. Explain the legal issues related to law of contract and tort; and
3. Apply the knowledge of law of contract and tort.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC1014 **PRINCIPLES OF MANAGEMENT**

2 credits

Synopsis of Course Contents

This course introduces the history, principles and current issues in management studies and organisation. It includes concepts of management, organisation and teamwork.

Learning Outcomes

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

1. Identify basic principles of management;
2. Explain the concepts and principles of management; and
3. Apply principles of management in the organisational decision-making process.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC1015 **BUILDING SERVICES**

2 credits

Synopsis of Course Contents

Introduction to various types of building services systems in low rise and multi-storey buildings that include water supply and sanitation systems, sewage and sewerage systems, garbage disposal systems, fire protection systems and installation of gas supply.

Learning Outcomes

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

1. Identify various essential buildings services;
2. Describe the systems or operations of essential building services; and
3. Describe the basic requirements for the installation of essential building services.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC1016 **PRINCIPLES OF MEASUREMENT FOR CONSTRUCTION WORKS I**

4 credits

Synopsis of Course Contents

This course covers the principles and standard methods of measurement in accordance with the Malaysian Standard Method of Measurement of Building Works Second Edition (SMM2). This course will help the students to interpret and understand construction drawings for the development of the quantity surveying profession. This includes the exposure to the use of Building Information Modelling (BIM) in the measurement of quantities for construction works.

Learning Outcomes

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

1. Define the objectives, principles and functions of the Malaysian Standard Method of Measurement of Building Works Second Edition (SMM2);
2. Apply the principles of SMM2 for Works Below Lowest Floor Finish (W.B.L.F.F) element; and
3. Taking-off the quantities of Works Below Lowest Floor Finish (W.B.L.F.F.) element from drawings

Assessment:

Continuous Assessment: 100%

BIC1017 **MATERIALS AND STRUCTURE IN CONSTRUCTION**

3 credits

Synopsis of Course Contents

This course will broaden student knowledge about current building technologies. This includes the site works, deep foundation, framework, renovation and demolition works and also pre and post tension concrete and pre- fabrication work.

Learning Outcomes

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

1. Identify advanced technology in construction;
2. Explain the construction process involved in advanced technology in construction; and
3. Apply knowledge in the field of advanced technology in construction in the quantity surveying field.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC1018 **CONSTRUCTION ECONOMICS**

3 credits

Synopsis of Course Contents

This course introduces the importance of cost management, concept of price, value and profits, feasibility and profitability, return on investment (ROI), Net Present Value (NPV), International Construction Measurement Standard (ICMS), procurements including Public Private Partnerships (PPP) in construction lifecycle.

Learning Outcomes

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

1. Describe the fundamentals of cost management from the perspective of firms and construction projects;
2. Comprehend the methods and techniques related to cost management; and
3. Apply appropriate cost management techniques for construction projects.

Assessment:

Continuous Assessment: 50%

Final Examination: 50%

BIC2013 **PRINCIPLES OF MEASUREMENT FOR CONSTRUCTION WORKS II**

4 credits

Synopsis of Course Contents

This course covers the principles and functions of the standard methods of measurement in accordance with the Malaysian Standard Method of Measurement of Building Works Second Edition (SMM2). This course includes the principles and functions of the Standard Method of Measurement 2 (SMM2) for frame, upper floor slab, staircase, door, window and finishes. This will also include the Building Information Modelling (BIM) for measurement of construction works.

Learning Outcomes

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

1. Define the objectives, principles and functions of the Standard Method of Measurement 2 (SMM2) for frame, upper floor slab, staircase, door, window and finishes;
2. Apply principles of specification writing for frame, upper floor slab, staircase, door, window and finishes; and
3. Measure the quantities of the element of frame, upper floor slab, staircase, door, window and finishes from drawings.

Assessment:

Continuous Assessment: 100%

BIC2014 **SUSTAINABLE CONSTRUCTION TECHNOLOGY**

3 credits

Synopsis of Course Contents

This course introduces to sustainability and sustainable construction; sustainable indicators, tools and benchmarks; materials for sustainable constructions; economics of sustainability (Environmental impacts of construction: A life cycle approach & management), sustainable assessment - Green Building Rating System, energy resources – energy efficient buildings; sustainable construction techniques, sustainable design in practice and site visit.

Learning Outcomes

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

1. Describe the various types of sustainable construction technology and their uses according to the specific requirements of a project;
2. Examine the process of execution, monitoring, controlling of sustainable construction projects; and
3. Apply the knowledge of sustainable construction technology in areas related to quantity surveying.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2015 **BUILDING ECONOMICS**

3 credits

Synopsis of Course Contents

This course emphasises the development process, economics of building morphology, life cycle costing (LCC), buildability, building cost information standard (BCIS), elementary cost analysis (ECA), cost estimation, financial impact, cost planning & control, cost data, indices and profitability for building lifecycle.

Learning Outcomes

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

1. Describe the development process through the principles of building economics theories;
2. Comprehend the project buildability with appropriate methods and techniques; and
3. Apply the building economics theories for decision making in the whole building life cycle.

Assessment:

Continuous Assessment: 50%

Final Examination: 50%

BIC2016 **PROJECT MANAGEMENT PRINCIPLES**

3 credits

Synopsis of Course Contents

This course introduces the principles of project management, project organisations, project information and communication, project management processes which include initial and planning phases, motivation and team working in project management. This course explores the usage of project management related software such as MS Project.

Learning Outcomes

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

1. Describe the principles and processes of project management in construction;
2. Identify tools and techniques for time and cost management of projects in a construction environment; and
3. Apply project management software in the initial and planning phase of project management.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2017 **MECHANICAL AND ELECTRICAL SERVICES IN BUILDINGS**

2 credits

Synopsis of Course Contents

Introduction to various types of mechanical and electrical systems in buildings such as electrical supply and lighting system, building security system, telecommunication system, mechanical transportation system, ventilation and air-conditioning system and building automation system.

Learning Outcomes

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

1. Identify various essential mechanical and electrical (M & E) building services;
2. Describe the systems or operations of M & E building services; and
3. Explain the functions and suitability of specific equipment for essential M & E building services.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2018 **ANALYSIS OF PRICES**

3 credits

Synopsis of Course Contents

This course exposes students to the components of price rates and the theories and principles of price analysis for preliminaries, preambles and construction works.

Learning Outcomes

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

1. Identify components of prices that comprise the analysis of price rates;
2. Apply analysis of price rates for preliminary works and preambles; and
3. Describe and apply analysis of price rates for construction works.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2019 **MEASUREMENT OF ADVANCED CONSTRUCTION WORKS I**

4 credits

Synopsis of Course Contents

This course includes the principles and function of Standard Method of Measurement 2 (SMM2) for roof, steel structure, Mechanical & Electrical works and external works. The course also covers the 'Building Information Modelling' (BIM) for measurement of construction works.

Learning Outcomes

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

1. Define the purpose, principles and functions of Standard Method of Measurement 2 (SMM2) for roof, steel structure, piping works and external works;
2. Apply the principle of specification writing for roof, steel structure, Mechanical & Electrical works, piping works and external works; and
3. Apply skills of taking off quantities for construction works and estimating based on drawing for roof, steel structure, piping works and external works.

Assessment:

Continuous Assessment: 100%

BIC2020 **CIVIL ENGINEERING CONSTRUCTION TECHNOLOGY**

3 credits

Synopsis of Course Contents

This course extends the students knowledge on current application of construction technology. It includes special structure and specific building, type and functions of specific building and civil engineering works, and infrastructure works construction.

Learning Outcomes

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

1. Define and describe the principles and methods of various types of civil engineering construction works,
2. Apply the knowledge in identifying problems in civil engineering construction works, and
3. Demonstrate the ability to produce the alternative solutions in specific building construction and more complex civil engineering works.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2022 **PRE-CONSTRUCTION LEGAL STUDIES**

3 credits

Synopsis of Course Contents

This course covers the principles of construction law, roles and objectives of construction law, construction contracts and the related legal issues at the pre- construction stage. It includes issues arising from the use of Building Information Modelling (BIM), and Arbitration procedures that are governed by the standard forms of contract and the Arbitration Act. It will also cover alternative dispute resolution, types of claims and legal aspects of claims, repudiation and breach of contract.

Learning Outcomes

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

1. Identify the legal principles and alternative dispute resolution in construction law;
2. Explain the legal issues arises in the implementation of projects at the pre- construction stage;
3. Apply the knowledge in giving views that are proficient, logical and professionally sound on the legal issues in the implementation of projects at the pre-construction stage.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2021 **PRE–CONSTRUCTION QS PRACTICES**

3 credits

Synopsis of Course Contents

This course delivers an overview of the quantity surveying profession in respect of its responsibilities and roles in the public and private sectors. Potential roles of quantity surveyors in any other industries will be explored. This course will cover the appointment, fees and professional ethics, administration of quantity surveying firms and procurement of contracts. It also covers various aspects of professional practice during the pre-contract stage from the inception to the preparation of contract documents. Reference will be made to the relevant provisions in the standard forms of construction contract and related government circulars. The legal impacts of Building Information Modelling (BIM) will also be covered in this course.

Learning Outcomes

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

1. Identify the responsibilities and role of quantity surveyors in the construction industry and other related industries;
2. Explain the professional practices and contractual procedures at the pre-construction stage;
3. Solve problems related to the practices and procedures in the construction contract administration at the pre-construction stage.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC2023 **INTEGRATED PROJECT I**

4 credits

Synopsis of Course Contents

This course is tailored to encourage students to explore the construction technology of a building or infrastructure project. The subject of a project focuses on current issues and will be reflective of a real-life project. Such exercise may include (and not limited to) proposing a development, identifying issues, proposing and evaluating the impacts of recommendations. Students need to work in a group and they are required to integrate their knowledge into their overall project work.

Learning Outcomes

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

1. Identify the importance of knowledge integration focusing on building technology in construction industry;
2. Determine the concepts, principles, techniques and appropriate knowledges related to building technology in construction industry; and
3. Apply knowledge and skills for real life problem solving related to the construction industry.

Assessment:

Continuous Assessment: 100%

BIC3011 **MEASUREMENT OF ADVANCED CONSTRUCTION WORKS II**

4 credits

Synopsis of Course Contents

This course includes the principles and function of Standard Method of Measurement (SMM2) for piling works, basement works, and demolitions works. The course also covers the 'Building Information Modelling' (BIM) for measurement of construction works.

Learning Outcomes

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

1. Define the purpose, principles and functions of Standard Method of Measurement 2 (SMM2) for piling works, excavation works, basement and demolitions works;
2. Apply the principle of specification writing for piling works, excavation works, basement and demolitions works; and
3. Apply skills of taking off quantities for construction works and estimating based on drawing for piling works, excavation works, basement and demolitions works.

Assessment:

Continuous Assessment: 100%

BIC3012 **CONSTRUCTION PROJECT MANAGEMENT**

3 credits

Synopsis of Course Contents

This course introduces project management processes which include execution, monitoring, controlling and closure phases, project management in the digital era of construction, green project management, success factors, project health & safety in construction and international project management.

Learning Outcomes

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

1. Describe project management processes which include execution, monitoring, controlling and closure phases;
2. Examine project management success factors in construction; and
3. Explain project management in the digital era of construction, green project management and international project management.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC3013 **QS PRACTICES IN CONSTRUCTION**

3 credits

Synopsis of Course Contents

This course delivers an overview of quantity surveying practices during the construction contract administration of construction projects. It covers construction stage and contract management starting from the issuance of a letter of acceptance to the completion of the project. It covers various aspects of professional practice and contractual procedures regarding progress payments, variation order, extension of time and final account claims. References are made to relevant provisions in the standard forms of contracts and government circulars.The legal impacts of Building Information Modelling (BIM) will also be covered in this course.

Learning Outcomes

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

1. Identify professional practices and contractual procedures at the construction stage;
2. Explain the contract administration at construction stage; and
3. Solve problems related to the practices and procedures in the construction contract administration at the construction contract stage.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC3014 **DIGITAL CONSTRUCTION**

3 credits

Synopsis of Course Contents

This course discovers how digital technologies and data mediate and support the construction process. It covers the digital technology theories and practices in integrated construction project delivery, such as Building Information Modelling (BIM), visualisation such as virtual reality (VR) and augmented reality (AR), Internet-of-Things (IoT), artificial intelligence (AI), and digital security. This course also exposes students to software as a tool to effectively manage construction information related to Quantity Surveying at a design stage to benefit the whole construction and building life cycle, namely Revit Architectural, Revit Structural, and Navisworks.

Learning Outcomes

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

1. Identify relevant digital applications in managing construction information;
2. Explain the impacts of digital technologies on a construction project in delivering better whole-life value; and
3. Apply the appropriate digital applications in an aspect of construction practice.

Assessment:

Continuous Assessment: 100%

BIC3015 **DATA ANALYTICS**

3 credits

Synopsis of Course Contents

This course focuses on interpreting the results of data analysis and taking decisions ethically for weaving a data-centric mindset into the construction business strategies.

Learning Outcomes

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

1. Describe theories, principles and concepts of the statistical methods, covering the use of quantitative and qualitative data analysis;
2. Analyse data based on theoretical and statistical methods for the purpose of addressing issues in the context of construction industry; and
3. Interpret data for decision making in a logical and professional way through effective communication.

Assessment:

Continuous Assessment: 100%

BIC3016 **RESEARCH METHODOLOGY FOR QUANTITY SURVEYING**

3 credits

Synopsis of Course Contents

This course provides basic groundings on how to conduct research in the quantity surveying field. It provides an introduction to the research methodology and research design.

Learning Outcomes

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

1. Identify research problems through systematic literature review;
2. Determine research methods for various types of research in Quantity Surveying; and
3. Develop research instruments for data collection.

Assessment:

Continuous Assessment: 100%

BIC3017 **PROFESSIONAL INTERNSHIP I**

4 credits

Synopsis of Course Contents

This course extends the students knowledge on the professional quantity surveying practices. It exposes the students on the work procedure, the role of Quantity Surveyors in pre and post contract stages and communications with the construction project team.

Learning Outcomes

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

1. Apply technical and management skills from the classroom to actual construction work environment;
2. Practise essential skills in the Quantity Surveying field; and
3. Apply good work ethics and professional values in a real work environment.

Assessment:

Continuous Assessment: 100%

BIC3018 **PROFESSIONAL INTERNSHIP II**

3 credits

Synopsis of Course Contents

This course extends the students knowledge on the professional quantity surveying practices. It exposes the students on the work procedure, the role of Quantity Surveyors in pre and post contract stages and communications with the construction project team.

Learning Outcomes

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

1. Apply technical and management skills from the classroom to actual construction work environment;
2. Practise essential skills in the Quantity Surveying field; and
3. Apply good work ethics and professional values in a real work environment.

Assessment:

Continuous Assessment: 100%

BIC4002 **MEASUREMENT OF CIVIL ENGINEERING WORKS**

4 credits

Synopsis of Course Contents

This course includes the Method Related Charges, methods of measurement based on Malaysian Civil Engineering Standard Method of Measurement (MyCESMM). This course also covers Building Information Modelling (BIM) for the measurement of quantities for civil engineering works.

Learning Outcomes

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

1. Define the purpose, principles, functions and measurement method of Malaysian Civil Engineering Standard Method of Measurement (MyCESMM);
2. Describe Method Related Charges and the preparation of Bills of Quantity for civil engineering works; and
3. Apply skills of taking off quantities based on drawings for civil engineering works.

Assessment:

Continuous Assessment: 100%

BIC4003 **CONSTRUCTION BUSINESS AND DEVELOPMENT**

3 credits

Synopsis of Course Contents

This course emphasises the industry revolutions, sustainable development economics (which include Sustainable Development Goals, SDG), entrepreneurship in construction industry (including branding and marketing), construction business financial management, business ethics and social responsibility, international construction ventures and global strategies for construction firms.

Learning Outcomes

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

1. Describe the entrepreneurship opportunities in the construction industry;
2. Apply the business and development principles for construction business sustainability; and
3. Analyse the business and development strategies for entrepreneurship competitive edge.

Assessment:

Continuous Assessment: 100%

BIC4004 **CONSTRUCTION LEGAL STUDIES**

3 credits

Synopsis of Course Contents

This course covers the legal principles of construction law at the construction stage. It includes legal issues related to site possession, progress payments, variation, extension of time, completion of works, final account claims, defects liability period, determination, disputes avoidance procedures and other contractual matters. It also covers legal issues arising from the use of Building Information Modelling (BIM). References are made to the relevant Acts and provisions of the local and international standard forms of construction contracts such FIDIC.

Learning Outcomes

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

1. Identify the legal principles of construction law at the construction stage;
2. Explain the legal issues that arise in the implementation of projects at the construction stage; and
3. Apply the knowledge in giving views that are proficient, logical and professionally sound on the legal issues in the implementation of projects at the construction stage.

Assessment:

Continuous Assessment: 40%

Final Examination: 60%

BIC4005 **INTEGRATED PROJECT II**

4 credits

Synopsis of Course Contents

This course is tailored to encourage students to explore the quantity surveying field at the pre- contract stage. The subject of a project focuses on current issues and will be reflective of a real-life project. Such exercise may include identifying issues, proposing and evaluating the impacts of recommendations. Students need to work in a group and they are required to integrate their knowledge into their overall project work.

Learning Outcomes

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

1. Identify the importance of knowledge integration in quantity surveying field at the pre-contract stage;
2. Define the concept, principles, techniques and appropriate knowledge in quantity surveying field at the pre-contract stage; and
3. Apply knowledge and skills for the real life problem solving in quantity surveying field at the pre-contract stage.

Assessment:

Continuous Assessment: 100%

BIC4006 **RESEARCH PROJECT**

3 credits

Synopsis of Course Contents

This course will enable students to prepare a research report related to Quantity Surveying through application of research methods under the supervision of a lecturer.

Learning Outcomes

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

1. Demonstrate data representation using systematic data analysis;
2. Interpret data against research aim and objectives; and
3. Conclude the impacts, contributions and future recommendations of the research.

Assessment:

Continuous Assessment: 100%

PROGRAMME ELECTIVE COURSES

BIC4007 **RISK AND VALUE MANAGEMENT**

3 credits

Synopsis of Course Contents

This course introduces the general theories of risk and value management as part of the development process involved in the construction industry. Each element will be emphasised in terms of theory, methodology and practical applications for the project.

Learning Outcomes

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

1. Identify the basics knowledge of risks and value management required in the construction industry;
2. Explain the concepts and principles of risk and value management in the building industry; and
3. Practice the techniques and methods of risk and value management in the context of the industry.

Assessment:

Continuous Assessment:	50%
Final Examination:	50%

BIC4008 **QS PRACTICES IN BUILDING CONSERVATION**

3 credits

Synopsis of Course Contents

This course provides an introduction to the significant value of existing buildings, principles and practices, building conservation techniques and methods. It also includes methods and practices in building conservation based on existing laws. The practice of measuring materials in building conservation is also discussed.

Learning Outcomes

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

1. Identify the principles and practice, techniques and methods of building conservation;
2. Discuss various building conservation approaches and practices; and
3. Apply the knowledge of building conservation in quantity surveying practices.

Assessment:

Continuous Assessment:	100%

BIC4009 **FACILITIES MANAGEMENT**

3 credits

Synopsis of Course Contents

This module will provide students with knowledge and understanding of the job scope of a Facilities Manager and key functions of Facilities Management and its importance in an organisation. The subject aims to equip students with an overview of the scope and practices of facilities management in the construction industry. Students will be exposed to how a facility is being managed effectively, and how to leverage on technology to improve productivity for facilities management.

Learning Outcomes

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

1. Discuss the scope, practices, processes and procedures of facilities management;
2. Demonstrate the understanding of the roles and responsibilities of a facilities manager; and
3. Apply the appropriate facilities management concept to meet the core objectives of the business.

Assessment:

Continuous Assessment:	40%
Final Examination:	60%

REAL ESTATE

Bachelor of Real Estate

ACADEMIC STAFF
DEPARTMENT OF REAL ESTATE

HEAD

Associate Professor Sr Dr. Zafirah Al Sadat Zyed
PhD (Housing Studies), Universiti Malaya
B. (Hons) Estate Management, Universiti Malaya
Reg. Probationary Valuer, MRISM, MMIPFM
Tel: 03-7967 2454
E-mail: zafirahzyed@um.edu.my

PROFESSOR

Professor (Industry) Sr Mohd Khairudin Abd Halim
B.Surv. (Hons) Property Management, Universiti Teknologi Malaysia
PG Cert. (Valuation) & Property Management)
Sheffield Hallam University, UK
Dipl. (Valuation), Universiti Teknologi Malaysia
Chartered Surveyor, Registered Valuer, Estate Agent
& Property Manager
FRICS, FRISM, FMIPFM, MBVAM, ICVS
Tel: 03-7967 2456
E-mail: khair62@um.edu.my

SENIOR LECTURERS

Associate Professor Sr Dr. Ainoriza Mohd. Aini
PhD (Property Investment), Kingston University, UK
M.Sc. (Corporate Real Estate Finance & Strategy),
City University of London, UK
B. (Hons) Estate Management, Universiti Malaya
Registered Valuer, Estate Agent & Property Manager
MRICS, MRISM, MBVAM, ICVS
Tel: 03-7967 5396
E-mail: ainoriza@um.edu.my

Associate Professor Sr Dr. Hasniyati Hamzah
PhD (Property), University of Auckland, NZ
M. (Property Law), University of Aberdeen, UK
B.Sc. Land Management, University of Reading, UK
MRISM, MMIPFM
Tel: 03-7967 5389
E-mail: hasniyati@um.edu.my

Dr. Zairul Nisham Musa
PhD [Built Environment (Facilities Management)],
Liverpool John Moores University, UK
M.Sc. (Facilities Management), University of Greenwich, UK
B.Sc. (Hons) Estate Management, University of Luton, UK
Dipl. (Valuation), Universiti Teknologi Malaysia
Reg. Probationary Valuer
Tel: 03-7967 4490
E-mail: zairul@um.edu.my

Dr. Noorame Mohd Foudzy
PhD (Property Finance & Investment), Universiti Malaya
M. (Real Estate), Universiti Malaya
B. (Hons) Estate Management, Universiti Malaya
Associate, Asian Institute of Chartered Bankers (AICB)
Tel: 03-7967 3376
E-mail: ameyfoudzy@um.edu.my

Sr Dr. Ahmad Fawwaz Ahmad Saleh
PhD in Built Environment (Real Estate Economics),
Universiti Teknologi MARA
M.Sc. (Urban Development and Management),
Universiti Teknologi MARA
B.Sc. (Hons) Estate Management, Universiti Teknologi MARA
Reg. Probationary Valuer
Tel: 03-7967 4586
E-mail: fawwaz@um.edu.my

Dr. Ain Farhana Jamaludin
PhD (Real Estate), Universiti Teknologi Malaysia
B.Sc. Property Management, Universiti Teknologi Malaysia
MIPFM
Tel: 03-7967 7957
E-mail: ain_farhana@um.edu.my

Sr Dr. Amalina binti Azmi
PhD in Architecture and Building (Architecture and Town Planning),
Universiti Malaya
M. (Real Estate), Universiti Malaya
B. (Hons) Estate Management, Universiti Malaya
MRISM
Tel: 03-7967 6886
E-mail: amalinaazmi@um.edu.my

Sr Dr. Elia Syarafina binti Abdul Shakur
PhD (Environment and Development),
Universiti Kebangsaan Malaysia
M.Sc. (Real Estate), Universiti Teknologi Malaysia
B.Sc. Property Management, Universiti Teknologi Malaysia
RISM
Tel: 03-7967 6886
E-mail: eliasya@um.edu.my

Dr. Anthonia Oluwatosin Adediran
PhD (Real Estate), Universiti Teknologi Malaysia
M.Sc. (Real Estate Developments and Investment),
University of Greenwich, United Kingdom
HND (Estate Management), Yaba College of Technology, Lagos
Tel: 03-7967 7022
E-mail: anthonia.a@um.edu.my

Sr Dr. Chin Hon Choong
Ph.D, Universiti Teknologi Malaysia
B.Sc (Property Management), Universiti Teknologi Malaysia
Reg. Probationary Valuer
MRISM
Tel: 03-7967 5379
E-mail: chinhc@um.edu.my

LECTURERS

Sr Abdul Ghani Sarip
M.Sc. (Geoinformatics), Universiti Teknologi Malaysia
B. (Hons) Estate Management, Universiti Malaya
Dipl. (Valuation), Universiti Teknologi Malaysia
MRISM
Tel: 03-7967 6861
E-mail: garnae@um.edu.my

Sr Zulkifli Esha
M.Sc. (Real Estate Development & Investment),
University of Greenwich, UK
B.Sc. (Hons) Estate Management, University of Luton, UK
Dipl. (Valuation), Universiti Teknologi Malaysia
MRISM
Tel: 03-7967 6862
E-mail: zules@um.edu.my

HONORARY PROFESSOR

Professor Sr Dr. Yasmin Mohd Adnan
PhD (Urban Land Economy), Universiti Malaya
MBA Universiti Teknologi MARA
B.Sc. (Hons) Land Management, University of Reading, UK
Chartered Surveyor, Registered Valuer, Estate Agent & Property Manager
FRISM, MRICS, MMIPFM
E-mail: yasmin_alambina@um.edu.my

EXTERNAL EXAMINERS

Sr Choy Yue Kwong
Director, Rahim & Co. International Sdn. Bhd. (PJ)
BSc. Chemistry and Mathematics (UM)
Postgraduate Dipl. (Land Economy), University of Aberdeen, UK
MRICS, FRISM, Fellow PEPS,
E-mail: yuekwong@gmail.com

Professor Dr. Kelvin S.K Wong
Professor of Real Estate
Department of Real Estate and Construction
The University of Hong Kong
PhD in Real Estate, University of Hong Kong
E-mail: skwongb@hku.hk

Professor Dr. Graham Squires
Professor of Property Studies
Lincoln University, New Zealand
PhD. (Manchester),
M. Sc (Manchester),
B. Sc (Manchester)
E-mail: graham.squires@lincoln.ac.nz

ADJUNCT PROFESSOR

YBhg. Tan Sri Dato' (Dr.) Abdul Rahim Abd Rahman
Executive Chairman
Rahim & Co International Sdn. Bhd.
B.Sc. (London)
Chartered Surveyor, Registered Valuer, Estate Agent & Property Manager
FRISM, FRICS
Tel: -
E-mail: -

REAL ESTATE

Introduction

The Bachelor of Real Estate (formerly the Bachelor of Estate Management) was first offered in July 1996 as a programme under the Built Environment Division, Faculty of Engineering. This programme was later elevated to the status of a department, in February 1998, in order to strengthen its management. The Built Environment Division itself was upgraded to a full-fledged faculty, in May 2000, to become known as the Faculty of Built Environment. In July 2016, the nomenclature of the original programme was changed to keep abreast with developments in the real estate field.

The Bachelor of Real Estate programme, Universiti Malaya is run by the Department of Real Estate. The department comprises 14 academic staff to oversee the Bachelor of Real Estate programme as well as Master of Real Estate, a master by coursework programme. The Bachelor of Real Estate has received accreditation from local and international bodies namely the Malaysian Public Service Department, Board of Valuers, Appraisers, Estate Agents and Property Managers Malaysia (BOVAEP) and the Royal Institution of Chartered Surveyors (RICS) United Kingdom, with input from the Royal Institution of Surveyors Malaysia (RISM). As the syllabus for the Bachelor of Real Estate received recognition by these professional bodies, this programme is professionally recognised locally and internationally.

Students will gain real life property development and consultancy experience during the Integrated Project course which in the past has involved sites in countries such as Brunei, Hong Kong, China, Philippines, Vietnam, Indonesia, and Taiwan.

The programme is accredited by the Board of Valuers, Appraisers, Estate Agents and Property Managers Malaysia (BOVAEP) and by the world-renowned professional body in the United Kingdom, the Royal Institution of Chartered Surveyors (RICS). This programme has been designed to incorporate ideas and contributions from the Royal Institution of Surveyors Malaysia (RISM).
The programme structure comprises a full-time study term of 3½ years, the successful completion of which confers upon the candidate a Bachelor's Degree in Real Estate. The Bachelor of Real Estate is a full-time programme with a total credit requirement of 124 credit hours, within a minimum period of 7+1 semesters and a maximum period of 11 semesters. Out of the 124 credit hours, 12 credit hours comprise University courses, 98 credit hours of programme core courses, 8 credits Elective Courses (SHE) and 6 credits Programme Elective courses (KEP).

Upon graduation and in order to be registered as a Valuer, the candidate is required to accumulate a further 2 years of practical professional experience under the supervision of a Registered Valuer before sitting for the Test of Professional Competence (TPC) conducted by BOVAEP. Prior to this, the candidate is required to be provisionally registered with the Board during this entire period of training. Being an accredited programme by the BOVAEP, the graduate of the Bachelor of Real Estate is eligible for direct registration with the Board as Probationary Valuer (PV) or Probationary Estate Agent (PEA).

Programme Aim

To produce graduates in the estate management field who are professional, holistic, balanced and ethical, able to perform real estate consultancy effectively and able to face technical and management challenges in the national and global context.

Programme Educational Objective (PEO)

PEO1	Real estate graduates who are competent, independent and are able to apply skills and knowledge in the field of real estate.
PEO2	Real estate professionals who partake in knowledge acquisition, knowledge sharing and learning.
PEO3	Contemporary real estate professionals who are sensitive to social welfare and practise entrepreneurial initiatives.

Programme Learning Outcomes

At the end of the programme, graduates are able to:

PLO1	Explain fundamental concepts and knowledge related to real estate.
PLO2	Apply principles related to real estate to resolve various local and international real estate issues.
PLO3	Demonstrate practical skills in real estate related fields.
PLO4	Engage collaboratively with individuals and groups to solve local and international real estate problems.
PLO5	Display communication ability with the real estate community and the public.
PLO6	Use technology applications to solve real estate problems.
PLO7	Apply numeracy analytical skills to solve real estate problems.

PLO8	Organise relevant information in real estate services
PLO9	Demonstrate self-study skills and initiative in finding new information in the real estate field.
PLO10	Integrate real estate managerial skills into entrepreneurship.
PLO11	Integrate professional ethics when performing services to cater for the needs of clients, profession and society.

STUDY PLAN: BACHELOR OF REAL ESTATE
SEMESTER 1 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Real Estate)							
COMPONENTS	**SEMESTER 1**			**SEMESTER 2**			**TOTAL CREDITS**
	COURSE CODE	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	
University Courses	GIG1003	Basic Entrepreneurship Enculturation	2	GIG1017	Philosophy and Current Affairs	2	10
	GUL1001	Embrace@UMleader	2	GIG1018	Malaysian CITRA*		
				GLT10xx	English 1	2	
				GXXxxxx	Co-Curriculum	2	
Programme Core Courses	BIE1015	Real Estate Valuation Concept	4	BIE1018	Real Estate Valuation: Market and Cost Approaches	4	26
	BIE1016	Basic Law	3	BIE1019	Land Law in Malaysia	3	
	BIE1009	Fundamentals of Economics	3	BIE1020	Urban Planning	3	
	BIE1017	Principles of Accounting	3	BIE1021	Building Technology	3	
University Elective Courses							
TOTAL CREDIT			**17**	**TOTAL CREDIT**		**19**	**36**

* course offered to non-malaysian students

YEAR 2 (Bachelor of Real Estate)							
COMPONENTS	**SEMESTER 1**			**SEMESTER 2**			**TOTAL CREDITS**
	COURSE CODE	**COURSE TITLE**	**CREDIT**	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	
Compulsory University Courses	GIG1019	Malaysian Nation-State Aspiration	2	GIG1016	Integrity and Anti-Corruption (KIAR)	2	6
	GLT1049	Bahasa Melayu Komunikasi*		GLT2000	Bahasa Melayu Profesional Untuk Kerjaya Dan Organisasi	**	
	GUL2002	Ignite@UMLEADER	2				
Programme Core Courses	BIE2024	Real Estate Valuation: Income Approach 1	4	BIE2017	Income Approach of Real Estate Valuation II	4	29
	BIE2025	Real Estate Legislation in Malaysia	3	BIE2018	Strata Law	3	
	BIE2015	Land Economics	3	BIE2019	Real Estate Investment Analysis	3	
	BIE2016	Building Maintenance and Services	3	BIE2020	Property Management	4	
	BIX1007	Artificial Intelligence in the Built Environment	2				
Programme Elective Courses					Programme Elective Course I	3	3
University Elective Courses							
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**19**	**38**

YEAR 3 (Bachelor of Real Estate)

COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses		English 1	2				2
Programme Core Courses	BIE3020	Land Acquisition and Property Taxation	3	BIE3022	Real Estate Finance Concept and Analysis	3	31
	BIE3021	Real Estate Marketing and Agency Practice	4	BIE3015	Corporate Real Estate Asset Management	3	
	BIE3011	Real Estate Market Analysis	3	BIE3023	Real Estate Development Project	3	
	BIE3012	Research Methodology	2	BIE3024	Real Estate Ethics and Professional Practice	4	
	BIE3013	Real Estate and Community	2	BIE3018	Real Estate Academic Project	4	
Programme Elective Courses	BIExxxx	Programme Elective Course II	3				3
University Elective Courses							
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**17**	**36**

YEAR 3 (Bachelor of Real Estate)				
COMPONENTS	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	**TOTAL CREDITS**
Programme Core Courses	BIE3019	Integrated Real Estate Project	4	4
TOTAL CREDIT			**4**	**4**

YEAR 4 (Bachelor of Real Estate)				
COMPONENTS	**COURSE CODE**	**COURSE TITLE**	**CREDIT**	**TOTAL CREDITS**
Programme Core Courses	BIE4002	Industrial Training	10	10
TOTAL CREDIT			**10**	**10**

OVERALL TOTAL CREDIT: 124
The programme structure maybe subjected to change

PROGRAMME STRUCTURE – BACHELOR OF REAL ESTATE
SEMESTER 1 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II		YEAR III			YEAR IV	Total Credits	Pre-requisite
				S1	S2	S1	S2	S1	S2	SPECIAL SEM	S1		
COMPULSORY UNIVERSITY COURSES	1	GLT10xx	English 1		2							18	
	2	GLT10xx	English 2					2					
	3	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi			2							
	4	GIG1017/*GIG1018	Philosophy and Current Affairs / *Malaysia CITRA		2								
	5	GLT2000	Bahasa Melayu Professional Untuk Kerjaya dan Organisasi				**						
	6	GIG1003	Basic Entrepreneurship Enculturation	2									
	7	GIG1016	Integrity and Anti-Corruption (KIAR)				2						
	8	GXXxxxx	Co-Curriculum		2								
	9	GUL1001	Embrace@UMLEADER	2									
	10	GUL2002	Ignite@UMLEADER			2							
PROGRAMME CORE COURSES	11	BIE1015	Real Estate Valuation Concept	4								100	
	12	BIE1016	Basic Law	3									
	13	BIE1009	Fundamentals of Economics	3									
	14	BIE1017	Principles of Accounting	3									
	15	BIE1018	Real Estate Valuation: Market and Cost Approaches		4								
	16	BIE1019	Land Law in Malaysia		3								
	17	BIE1020	Urban Planning		3								
	18	BIE1021	Building Technology		3								
	19	BIE2024	Real Estate Valuation: Income Approach 1			4							
	20	BIE2025	Real Estate Legislation in Malaysia			3							
	21	BIE2015	Land Economics			3							
	22	BIE2016	Building Maintenance and Services			3							
	23	BIE2017	Income Approach of Real Estate Valuation II				4						
	24	BIE2018	Strata Law				3						
	25	BIE2019	Real Estate Investment Analysis				3						
	26	BIE2020	Property Management				4						
	27	BIE3020	Land Acquisition and Property Taxation					3					
	28	BIE3021	Real Estate Marketing and Agency Practice					4					
	29	BIE3011	Real Estate Market Analysis					3					
	30	BIE3012	Research Methodology					2					
	31	BIE3013	Real Estate and Community					2					
	32	BIE3022	Real Estate Finance Concept and Analysis						3				
	33	BIE3015	Corporate Real Estate Asset Management						3				
	34	BIE3023	Real Estate Development Project						3				
		BIE3024	Real Estate Ethics and Professional Practice						4				
	35	BIE3018	Real Estate Academic Project						4				BIE3012
	36	BIE3019	Integrated Real Estate Project							4			BIE3011 & BIE3016
	37	BIE4003	Industrial Training Program								10		
	38	BIX1007	Artificial Intelligence in the Built Environment			2							
UNIVERSITY ELECTIVE COURSES												6	
PROGRAMME ELECTIVE COURSES	39		**Programme Elective Course I				3						
	40		**Programme Elective Course II					3					
Total Subject Breakdown			Credits	17	19	19	19	19	17	4	10	124	
			Subjects	6	7	7	6	7	5	1	1	40	

Notes:
* Non-Citizen ** Program Elective Course (KEP) Choose 2 from 3 of the following
BIE2021 Facilities Management – 3 credits BIE2022 Statistics for Real Estate – 3 credits BIE2023 Business Valuation – 3 credits

STUDY PLAN: BACHELOR OF REAL ESTATE
SEMESTER 2 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Real Estate)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
University Courses				GIG1017	Philosophy and Current Affairs	2	6
				GIG1018	Malaysian CITRA*		
				GIG1016	Integrity and Anti-Corruption (KIAR)	2	
				GXXxxxx	Co-curriculum	2	
Programme Core Courses				BIE1019	Land Law in Malaysia	3	9
				BIE1020	Urban Planning	3	
				BIE1021	Building Technology	3	
University Elective Courses							
TOTAL CREDIT				**TOTAL CREDIT**		**15**	**15**

* Exempted for non – malaysian students and to be replaced with another senate-approved university course.
** course offered to non-malaysian students

ACADEMIC SESSION 2027/2028

YEAR 1-2 (Bachelor of Real Estate)							
COMPONENTS	SEMESTER 2 (SEMESTER 1, 2027/2028)			SEMESTER 3 (SEMESTER 1, 2027/2028)			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GIG1003	Basic Entrepreneurship Enculturation	2	GLT10XX	English 1	2	6
	GUL1001	Embrace@UMleader	2	GLT2000	Bahasa Melayu Profesional Untuk Kerjaya Dan Organisasi	**	
Programme Core Courses	BIE1015	Real Estate Valuation Concept	4	BIE1018	Real Estate Valuation: Market and Cost Approaches	4	29
	BIE1016	Basic Law	3	BIE2018	Strata Law	3	
	BIE1009	Fundamentals of Economics	3	BIE2019	Real Estate Investment Analysis	3	
	BIE1017	Principles of Accounting	3	BIE2020	Property Management	4	
	BIX1007	Artificial Intelligence in the Built Environment	2				
University Elective Courses					Programme Elective Course I	3	3
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**19**	**38**

ACADEMIC SESSION 2028/2029

YEAR 2-3 (Bachelor of Real Estate)							
COMPONENTS	SEMESTER 4 (SEMESTER 1, 2028/2029)			SEMESTER 5 (SEMESTER 2, 2028/2029)			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL2002	Ignite@UMLEADER	2	GLT10XX	English II	2	6
	GIG1019	Malaysian Nation- State Aspiration					
	GLT1049	*Bahasa Melayu Komunikasi	2				
Programme Core Courses	BIE2024	Real Estate Valuation: Income Approach 1	4	BIE2017	Income Approach of Real Estate Valuation II	4	32
	BIE2025	Real Estate Legislation in Malaysia	3	BIE3022	Real Estate Finance Concept and Analysis	3	
	BIE2015	Land Economics	3	BIE3015	Corporate Real Estate Management	3	
	BIE2016	Building Maintenance and Services	3	BIE3023	Real Estate Development Project	3	
	*BIE3012	Research Methodology	2	BIE3024	Real Estate Ethics and Professional Practice	4	
University Elective Courses							
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**19**	**38**

YEAR 3 (Bachelor of Real Estate)				
COMPONENTS	COURSE CODE	COURSE TITLE	CREDIT	TOTAL CREDITS
Programme Core Courses	*BIE3019	Integrated Real Estate Project	4	4
TOTAL CREDIT			**4**	**4**

* Pre-requisite Subject

ACADEMIC SESSION 2029/2030

YEAR 3-4 (Bachelor of Real Estate)							
COMPONENTS	SEMESTER 6 (SEMESTER 1, 2029/2030)			SEMESTER 7 (SEMESTER 2, 2029/2030)			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	BIE3020	Land Acquistion and Property Taxation	3	BIE4003	Industrial Training Program	10	23
	BIE3021	Real Estate Marketing and Agency Practice	4				
	BIE3018	Real Estate Academic Project	4				
	BIE3013	Real Estate and Community	2				
University Elective Courses	BIE2021	KEP 1 – Facilities Management	3				3
	BIE2022	KEP 2 - Statistics for Real Estate					
	BIE2023	KEP 3 – Business Valuation					
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**10**	**29**

OVERALL TOTAL CREDIT: 124
The programme structure maybe subjected to change

Programme Elective Course (KEP) Choose 2 from 3 of the following:
- BIE2021 Facilities Management (3 credit)
- BIE2022 Statistic for Real Estate (3 credit)
- BIE2023 Business Valuation (3 credit)

PROGRAMME STRUCTURE – BACHELOR OF REAL ESTATE
SEMESTER 2 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II		YEAR III			YEAR IV		Total Credits	Pre-requisite
				S1	S2	S1	S2	S1	S2	SPECIAL SEM	S1	S2		
COMPULSORY UNIVERSITY COURSES	1	GLT10xx	English 1		2								18	
	2	GLT10xx	English 2					2						
	3	GIG1019 / *GLT1049	Malaysian Nation- State Aspiration / *Bahasa Melayu Komunikasi			2								
	4	GIG1017/*GIG1018	Philosophy and Current Affairs / *Malaysia CITRA		2									
	5	GLT2000	Bahasa Melayu Professional Untuk Kerjaya dan Organisasi				**							
	6	GIG1003	Basic Entrepreneurship Enculturation	2										
	7	GIG1016	Integrity and Anti-Corruption (KIAR)				2							
	8	GXXxxxx	Co-Curriculum		2									
	9	GUL1001	Embrace@UMLEADER	2										
	10	GUL2002	Ignite@UMLEADER			2								
PROGRAMME CORE COURSES	11	BIE1015	Real Estate Valuation Concept	4									100	
	12	BIE1016	Basic Law	3										
	13	BIE1009	Fundamentals of Economics	3										
	14	BIE1017	Principles of Accounting	3										
	15	BIE1018	Real Estate Valuation: Market and Cost Approaches		4									
	16	BIE1019	Land Law in Malaysia		3									
	17	BIE1020	Urban Planning		3									
	18	BIE1021	Building Technology		3									
	19	BIE2024	Real Estate Valuation: Income Approach 1			4								
	20	BIE2025	Real Estate Legislation in Malaysia			3								
	21	BIE2015	Land Economics			3								
	22	BIE2016	Building Maintenance and Services			3								
	23	BIE2017	Income Approach of Real Estate Valuation II				4							
	24	BIE2018	Strata Law				3							
	25	BIE2019	Real Estate Investment Analysis				3							
	26	BIE2020	Property Management				4							
	27	BIE3020	Land Acquisition and Property Taxation					3						
	28	BIE3021	Real Estate Marketing and Agency Practice					4						
	29	BIE3011	Real Estate Market Analysis					3						
	30	BIE3012	Research Methodology					2						
	31	BIE3013	Real Estate and Community					2						
	32	BIE3022	Real Estate Finance Concept and Analysis						3					
	33	BIE3015	Corporate Real Estate Asset Management						3					
	34	BIE3023	Real Estate Development Project						3					
		BIE3024	Real Estate Ethics and Professional Practice						4					
	35	BIE3018	Real Estate Academic Project						4					BIE3012
	36	BIE3019	Integrated Real Estate Project							4				BIE3011 & BIE3016
	37	BIE4003	Industrial Training Program								10			
	38	BIX1007	Artificial Intelligence in the Built Environment			2								

Category	No	Course Code	Course Title	YEAR I		YEAR II		YEAR III			YEAR IV		Total Credits	Pre-requisite
				S1	S2	S1	S2	S1	S2	SPECIAL SEM	S1	S2		
UNIVERSITY ELECTIVE COURSES													6	
PROGRAMME ELECTIVE COURSES	39		**Programme Elective Course I				3							
	40		**Programme Elective Course II					3						
Total Subject Breakdown			Credits	17	19	19	19	19	17	4	10		124	
			Subjects	6	7	7	6	7	5	1	1		40	

Notes:
* Non-Citizen
** Program Elective Course (KEP) Choose 2 from 3 of the following
BIE2021 Facilities Management – 3 credits BIE2022 Statistics for Real Estate – 3 credits BIE2023 Business Valuation – 3 credits

PROGRAMME CORE COURSES

BIE1015 **REAL ESTATE VALUATION CONCEPT**

4 credits

Synopsis of Course Contents

This course provides students with understanding of fundamental concepts and core principles of real estate valuation. It exposes students to the characteristics of land, property and the property market, principles of valuation, role and functions of the valuer and valuation process. It introduces students to the professions' acts and standards. Students will also learn valuation mathematics and basic measurement computation.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the fundamental concepts and principles of real estate;
2. Illustrate the real estate valuation process; and
3. Use valuation mathematics to perform computations.

Assessment:

Continuous assessment	50%
Final examination	50%

BIE1016 **BASIC LAW**

3 credits

Synopsis of Course Contents

This course focuses on the Malaysian Legal System, tort and contract. It includes the principles and sources of Malaysian law, processes, systems and procedures, common law, statute and equity. This course covers the law of contract (Contracts Act 1950) emphasising on capacity, consideration, intention to create legal relations and methods of discharging of contracts. It will also include the types of remedies. The law of torts including negligence, nuisance and trespass to land.

Learning Outcomes

At the end of the course, students are able to:
1. Identify the components of the Malaysian Legal System;
2. Illustrate the framework of the Malaysian legal system; and
3. Relate the law of tort and contract to the Malaysian real estate.

Assessment

Continuous Assessment	50%
Final Examination	50%

BIE1009 **FUNDAMENTALS OF ECONOMICS**

3 credits

Synopsis of Course Contents

This course introduces the students with the knowledge in micro and macroeconomics. Microeconomic focuses on parts of the economy which are individuals, firms, and industries. Macroeconomic looks at the economy as a whole, such as growth in the standard of living, unemployment, inflation and two types of Macroeconomics policies: monetary policy and fiscal policy.

Learning Outcomes

At the end of the course, students are able to:
1. Identify the fundamentals of microeconomics and macroeconomics
2. Determine the influence of government intervention on the economy
3. Describe economic situation by using economic theory.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BIE1017 **PRINCIPLES OF ACCOUNTING**

3 credits

Synopsis of Course Contents

This course provides the students an introduction to financial accounting; accounting concepts; double-entry bookkeeping; preparation of balance sheets and profit and loss accounts; sources of finance for companies; accounting ratios and the application of financial statements.

Learning Outcomes

At the end of the course, students are able to:
1. Explain basic accounting concepts and principles;
2. Record financial transactions in accordance with the rules of accounting, and post entries to the general ledger; and
3. Compute ratio analysis, and make informed decisions based on the findings.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE1018 **REAL ESTATE VALUATION: MARKET AND COST APPROACHES**

4 credits

Synopsis of Course Contents

This course provides the foundation in understanding and application of two important valuation approaches i.e: Market/Comparison Approach and Cost Approach. Students will be able to apply the approaches in determining the market value for various purposes.

Learning Outcomes

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

1. Explain the fundamentals concepts and principles of the Market Approach and Cost Approach;
2. Determine the market value of real estate using the Market Approach and Cost Approach; and
3. Prepare A Valuation Report in Compliance with the Malaysia Valuation Standards.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE1019 **LAND LAW IN MALAYSIA**

3 credits

Synopsis of Course Contents

The course offers an insight into the primary land legislation in Malaysia i.e: the National Land Code 1965 together with related state land rules. The course emphasises on the land administration system, land disposal, title particulars, dealings and restrictions to dealings, and land development matters.

Learning Outcomes

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

1. Explain the land law provisions related to land development;
2. Apply land law to other aspects of real estate; and
3. Relate land law provisions to land development.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE1020 **URBAN PLANNING**

3 credits

Synopsis of Course Contents

This course provides a theoretical and practical understanding of urban planning. It is divided into three major aspects: the planning theories and models, development plans and development control. The students will gain the knowledge in planning matters related to real estate development.

Learning Outcomes

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

1. Explain the theory of urban planning related to real estate development;
2. Identify use planning standards and technical requirements in assessing layout plan; and
3. Relate the planning standards and application procedures in complying with planning permission requirements.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE1021 **BUILDING TECHNOLOGY**

3 credits

Synopsis of Course Contents

This course provides students with knowledge in building structure, materials and construction methods. It includes building components and stages of building construction. It also introduces the students to the calculation of the building component cost.

Learning Outcomes

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

1. Explain the basic principles and building construction process;
2. Recognise common building materials and their suitability for different building components; and
3. Show methods of building construction.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE2024 **REAL ESTATE VALUATION: INCOME APPROACH 1**

4 credits

Synopsis of Course Contents

The course covers the Investment Method of valuation for different types of property. It includes the conventional Term and Reversion and Hardcore/ Layer methods, together with the Discounted Cash Flow (DCF) Technique. It also provides students knowledge in Premium, Surrender and Leaseback and Marriage Valuation.

Learning Outcomes

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

1. Identify various interests for valuation of real estate;
2. Explain the principles of investment method in valuing a range of interests in real estate; and
3. Apply the concept of investment method in Real Estate Valuation.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE2025 **REAL ESTATE IN MALAYSIA**

3 credits

Synopsis of Course Contents

The course provides students the knowledge in real estate law including Environmental Quality Act 1974 (together with Environmental Quality Order 1987), Street, Drainage and Building Act 1974 and Uniform Building By-Laws 1984, Local Government Act 1976, National Heritage Act 2005 and Housing Development (Control and Licensing) Act 1966. The course emphasises on the period before and after completion of development.

Learning Outcomes

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

1. Identify the legal framework in real estate law;
2. Determine the different law provisions during the real estate construction period; and
3. Explain the importance of various law provisions after the real estate construction period.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE2015 **LAND ECONOMICS**

3 credits

Synopsis of Course Contents

This course provides an understanding of economics and the structure of the real estate market. It constitutes a range of economics theories and concepts related to both urban and rural settings. This course employs economic approaches to explain urbanisation and its related problems and solutions.

Learning Outcomes

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

1. Explain economic principles and institutional concepts which guide the use of land and real estate;
2. Apply theories of land economics to understand the changing spatial dimensions of real estate markets; and
3. Relate economic theories to land use and problems concerning real estate markets.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE2016 **BUILDING MAINTENANCE AND SERVICES**

3 credits

Synopsis of Course Contents

This course provides a foundation in building maintenance and services. It covers key maintenance aspects such as maintenance planning, strategies and operation including building defects. It also exposes students to the various components of building services such as plumbing and sanitary systems, mechanical transportation, fire-fighting system, communication systems, air conditioning system and security system and automation system. The course will guide the students on the preparation of Building Maintenance Report.

Learning Outcomes

At the end of the course, students are able to:
1. Identify types of defect, their causes and remedies for buildings defects;
2. Explain the maintenance system and building services; and
3. Prepare Building Maintenance Report.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE2017 **INCOME APPROACH OF REAL ESTATE VALUATION II**

4 credits

Synopsis of Course Contents

This course covers the valuation of special properties using the Profits Method. It also covers valuation of land with development potential using Residual Method. Students will be able to apply the approaches in determining the market value for various purposes.

Learning Outcomes

At the end of the course, students are able to:
1. Identify the types of real estate suitable for Profits Method and Residual Method;
2. Apply the concept of Profits Method and Residual Method in real estate valuation; and
3. Explain the principles of Profits Method and Residual Method in valuing a range of interests in real estate.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE2018 **STRATA LAW**

3 credits

Synopsis of Course Contents

The course provides students the knowledge in strata development legislations which comprise the Strata Titles Act 1985 (Act 318) and Strata Management Act 2013 (Act 757). The course emphasises on the strata title issuance procedure, components of strata development, management body (types, formation, functions and power) and strata tribunal. This course also exposes students to strata management practices.

Learning Outcomes

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

1. Explain the strata law provisions related to strata title and management;
2. Relate strata law to other aspects of real estate; and
3. Apply the above knowledge in considering requirements and restrictions to be complied with in strata development.

Assessment:

Continuous Assessment	50%
Final Examination	50%

BIE2019 **REAL ESTATE INVESTMENT ANALYSIS**

3 credits

Synopsis of Course Contents

This course provides an understanding of various types of real estate investment, real estate investment analysis techniques and risk elements in investment. The course also exposes the students to Portfolio Theory, Capital Budgeting and Capital Structure Policy.

Learning Outcomes

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

1. Explain the principles of real estate investment;
2. Apply relevant techniques to analyse investment; and
3. Justify the real estate investment decision.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BIE2020 **PROPERTY MANAGEMENT**

4 credits

Synopsis of Course Contents

This course provides knowledge on theories and concepts of actual management and maintenance of different types of properties such as residential, commercial, retail and industrial properties. It also refers to the act, rules and standards outlined by the Board of Valuers, Appraisers, Estate Agents and Property Managers.

Learning Outcomes

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

1. Identify the management functions and their relation to property management;
2. Describe various roles of property manager and the scope of work for property management; and
3. Prepare Property Management Case Study Report.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE2021 **FACILITIES MANAGEMENT**

3 credits

Synopsis of Course Contents

This course provides students the knowledge in facilities management (FM), its concepts, scope, important functions and classification of tasks. It also exposes students to the knowledge on the knowledge on different types of FM services and its supporting roles in the business of the organisation through strategic FM and performance management.

Learning Outcomes

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

1. Explain the concept and the scope of facilities management;
2. Differentiate the facilities management roles and functions at the strategic, tactical and operational levels and facility; and
3. Prepare the facilities management report for the different types of building.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE2022 **STATISTICS FOR REAL ESTATE**

3 credits

Synopsis of Course Contents

This course provides students with the fundamentals of statistics. It includes an introduction to basic theory and statistical concepts for application in real estate. The topics include describing data types and variables, descriptive statistics and inferential statistical technique.

Learning Outcomes

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

1. Explain descriptive and inferential statistics by reasoning and visualising data;
2. Apply the basics of inferential statistics by making valid generalisations from sample data; and
3. Analyse data using descriptive and inference statistics in the context of real estate.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BIE2023 **BUSINESS VALUATION**

3 credits

Synopsis of Course Contents

This course provides a core understanding of the business valuation. The students will be exposed to financial statement analysis, risk, goodwill and intangible assets for valuation purposes. Students will apply appropriate valuation techniques for valuation of various types of businesses. Appropriate valuation techniques for valuation of various types of businesses.

Learning Outcomes

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

1. Explain the approaches to value business entities; and
2. Relate the importance of goodwill and intangible assets in valuing the business.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3020 **LAND ACQUISITION AND PROPERTY TAXATION**

3 credits

Synopsis of Course Contents

This course provides basic understanding of legislation related to property taxation and land acquisition. This course consists of related legal statutes: Local Government Act 1976, Town and Country Planning Act 1976, Stamp Duty Act 1949, Real Property Gains Tax Act 1967 and Land Acquisition Act 1960. This course also introduces valuation practice related to taxation and acquisition.

Learning Outcomes

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

1. Describe the legislative provisions related to property taxation & land acquisition;
2. Relate the provisions of taxation and land acquisition laws with property valuation practice; and
3. Use appropriate valuation methods to evaluate various types of property for taxation and land acquisition purposes.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3021 **REAL ESTATE MARKETING AND AGENCY PRACTICE**

3 credits

Synopsis of Course Contents

This course provides a theoretical foundation to the knowledge of marketing in real estate. The course also exposes the students to the principles of marketing and their application to real estate profession in accordance to relevant regulations such as Malaysian Estate Agency Standards and guidelines and circulars by the governing body.

Learning Outcomes

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

1. Explain the scope and the principles of marketing;
2. Integrate principles of marketing into estate agency practice; and
3. Apply the estate agency practice in accordance to legislation and standards.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3011 **REAL ESTATE MARKET ANALYSIS**

3 credits

Synopsis of Course Contents

The course exposes the students to the requirements of real estate market research. It provides an understanding of market potential and marketability analysis. It focuses on market research for various types of development. The course also includes the financial assessment of the product mix formulated from the research outcomes.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the principles of real estate market research;
2. Apply the techniques used in real estate market research; and
3. Propose the product mix and financial assessment based on the research outcomes.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3012 **RESEARCH METHODOLOGY**

2 credits

Synopsis of Course Contents

This course provides an understanding and guidance on research and research methodology. Students are provided with the knowledge on literature review and the design of research framework. At the end of this course, the students will be able to prepare a research proposal.

Learning Outcomes

At the end of the course, students are able to:
1. Review relevant literature for the proposed study;
2. Propose a significant research problem with research questions, aim, objectives and significance of study; and
3. Adopt suitable methodology for the proposed study.

Assessment:

Continuous Assessment	100%

BIE3013 **REAL ESTATE AND COMMUNITY**

2 credits

Synopsis of Course Contents

This course exposes students to community service and volunteerism. Students need to plan and implement community engagement programmes in groups. Students are also required to propose real estate-based solutions to community problems.

Learning Outcomes

At the end of the course, students are able to:
1. Identify community issues in relation to real estate;
2. Apply real estate knowledge to the community; and
3. Propose real estate-based solutions to community problems.

Assessment:

Continuous Assessment	100%

BIE3022 **REAL ESTATE FINANCE CONCEPT AND ANALYSIS**

3 credits

Synopsis of Course Contents

This course provides an understanding of the types of real estate finance system available at global and Malaysian contexts. It also exposes the students to different types of conventional and Islamic mortgages and the process used by financial institutions in Malaysia in determining the financial position of the bridging and end financing of a development project.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the types of real estate finance system available at global and Malaysian contexts;
2. Compare the mortgage instruments used in conventional loans and Islamic finance; and
3. Apply the resources evaluated by financial institutions in determining the bridging and end finances.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BIE3015 **CORPORATE REAL ESTATE ASSET MANAGEMENT**

3 credits

Synopsis of Course Contents

This course provides an understanding on the management and strategic planning of corporate real estate assets. This course introduces the tools and techniques to develop corporate real estate asset management (CREAM) strategies. The course also covers procurement analysis, corporate relocation, space strategy and corporate real estate asset performance measurement.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the roles of corporate real estate asset in an organisation;
2. Describe the strategic decision-making process in corporate real estate asset management; and
3. Integrate techniques and analysis required to manage corporate real estate assets.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3023 **REAL ESTATE DEVELOPMENT PROJECT**

3 credits

Synopsis of Course Contents

The course introduces the students to the real estate development process. It also exposes the students to the development cycle, structure and agencies in the development and redevelopment of urban areas. The course also requires the students to apply the skills and knowledge of property market study in assessing the feasibility of the project.

Learning Outcomes

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

1. Explain the concepts of development and redevelopment;
2. Describe illustrate the stages involved in development process; and
3. Propose a feasible development for a subject site.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BIE3024 **REAL ESTATE ETHICS AND PROFESSIONAL PRACTICE**

4 credits

Synopsis of Course Contents

The course introduces ethics and professional practices stipulated by the Valuers, Appraisers, Estate Agents and Property Managers Act 1981 and Rules, Malaysian Valuation Standards, Property Management Standards and Malaysia Estate Agency Standards.

Learning Outcomes

At the end of the course students are able to:

1. Describe the acts, rules, standards, guidelines and body that regulate the real estate practice;
2. Apply the processes and procedures in compliance with the professional legislation related to real estate; and
3. Integrate professional ethics in real estate practice.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BIE3018 **REAL ESTATE ACADEMIC PROJECT**

4 credits

Synopsis of Course Contents

This is the second stage of the research project, which requires the students to produce the academic project report under lecturer supervision.

Learning Outcomes

At the end of the course students are able to:
1. Write a literature review of the study;
2. Apply the appropriate research design to the study; and
3. Report the research findings related to real estate.

Assessment:

Continuous Assessment 100%

BIE3019 **INTEGRATED REAL ESTATE PROJECT**

4 credits

Synopsis of Course Contents

This course requires students to conduct a project that integrates various aspects of real estate knowledge including planning, law, economics, finance and valuation. This project will lead to the preparation of a project report.

Learning Outcomes

At the end of the course students are able to:
1. Apply the advanced knowledge within the realm of real estate;
2. Integrate the concepts, principles, techniques, and academic knowledge gained to resolve given problems; and
3. Prepare an integrated project report.

Assessment:

Continuous Assessment 100%

BIE4003 **INDUSTRIAL TRAINING PROGRAM**

10 credits

Synopsis of Course Contents

Students are required to undergo a structured training programme at corporate organisations or public agencies. In this module, the industry plays a role in providing practical training to students. The industry supervisor will give feedback/comments to the department on the students' performance.

Learning Outcomes

At the end of the course students are able to:
1. Apply real estate knowledge into working practice;
2. Demonstrate the skillset acquired from the programme in the assigned job function; and
3. Display interpersonal and communication skills during the training.

Assessment:

Continuous Assessment 100%

URBAN & REGIONAL PLANNING

Bachelor of Urban & Regional Planning

ACADEMIC STAFF
DEPARTMENT OF URBAN & REGIONAL PLANNING

HEAD

Associate Professor Dr. Yong 'Adilah Shamsul Harumain
PhD Innovation Systems Engineering (Transport Planning), Utsunomiya University, Japan
M.Sc Land Administration and Development, Universiti Teknologi Malaysia
B.Sc (Urban and Regional Planning), Universiti Islam Antarabangsa Malaysia
Graduate Member, Malaysian Institute of Planners
Tel: 03-7967 6811
E-mail: adilah_shamsul@um.edu.my

PROFESSOR

Professor TPr. Dr. Goh Hong Ching
Dr. rer. nat., Rheinische Friedrich-Wilhelms-Universitaet Bonn, Germany
M.Sc (Tourism Planning) Universiti Teknologi Malaysia
B.Sc (Urban and Regional Planning), Universiti Teknologi Malaysia
Corporate Member, Malaysian Institute of Planners
Registered Town Planner, Board of Town Planners Malaysia
Tel: 03-7967 7606
E-mail: gohhc@um.edu.my

ASSOCIATE PROFESSORS

Associate Professor Dr. Nikmatul Adha Nordin
PhD (Urban Planning) Universiti Sains Malaysia
M.Sc (Planning) Universiti Sains Malaysia
B.Sc Housing, Building & Planning, Universiti Sains Malaysia
Graduate Member, Malaysian Institute of Planners
Tel: 03-7967 7951
E-mail: nikmatul@um.edu.my

Associate Professor Dr. Peter Aning Tedong
PhD (Housing studies), Universiti Malaya
M. Real Estate (MRE), Universiti Malaya
B.A (Major: Urban Studies and Planning, Minor: Geography), Universiti Malaya
Associate Member, Malaysian Institute of Planners
Tel: 03-7967 7953
E-mail: peteraning@um.edu.my

SENIOR LECTURERS

Gs. Dr. Nur Aulia Rosni
PhD in Built Environment, Universiti Islam Antarabangsa Malaysia
M.Sc Built Environment, Universiti Islam Antarabangsa Malaysia
B.Sc (Urban and Regional Planning),
Universiti Islam Antarabangsa Malaysia
Graduate Member, Malaysian Institute of Planners
Professional Member, Institution of Geospatial and Remote Sensing Malaysia
Tel: 03-7967 7607
E-mail: nurauliarosni@um.edu.my

Dr. Teh Bor Tsong
PhD in Regional Environment Systems (Urban Planning and Design), Shibaura Institute of Technology, Japan
M.Sc (Urban and Regional Planning), Universiti Teknologi Malaysia
B.Sc (Urban and Regional Planning) (Hons),
Universiti Teknogi Malaysia
Graduate Member, Malaysia Institute of Planners
Registered Graduate Town Planner, Board of Town Planners Malaysia
Tel: 03-7967 6834
E-mail: tehbortsong@um.edu.my

Dr. Nik Hazwani Hashim @ Nik Hashim
PhD (Real Estate Development and Environment), Universiti Malaya
M.Sc (Planning), Universiti Sains Malaysia
B.Sc. Housing, Building & Planning, Universiti Sains Malaysia
Graduate Member, Malaysian Institute of Planners
Tel: 03-7967 5398
E-mail: nikhazwani@um.edu.my

Dr. Mohammad Syahir Aiman Abd Khair
PhD Built Environment (Environmental), Universiti Teknologi Mara (UiTM)
M.Sc. Urban Development and Management (Urban and Environmental Planning), Universiti Teknologi Mara (UiTM)
B. Town and Regional Planning (Hons), (Second Class (Upper)), Universiti Teknologi Mara (UiTM)
Diploma Town and Regional Planning (Fast-Track Program), (Regional Environment and Urban Planning),
Universiti Teknologi Mara (UiTM)
Tel: -
E-mail: aimanabdkhair@um.edu.my

Gs. Dr. Muhammad Ikhwan Jamaludin
PhD in Civil Engineering, Monash University Malaysia
M.Sc. Civil Engineering, Universiti Teknologi PETRONAS
B.Sc. (Urban and Regional Planning), Universiti Islam Antarabangsa Malaysia
Professional Member, Institute of Geospatial and Remote Sensing Malaysia
Tel: -
E-mail: ikhwanj@um.edu.my

Dr. Nor Amaleena Mazlan
PhD (Architecture and Town Planning), Universiti Malaya
M.Sc. (Social Sciences), Universiti Malaysia Sarawak
B.Sc. (Urban and Regional Planning), Universiti Malaya
Graduate Member, Malaysia Institute of Planners
Tel: -
E-mail: noramaleenamazlan@um.edu.my

Dr. Wan Asiah Nurjannah Wan Ahmad Tajuddin
Doctor of Philosophy (Engineering), Universiti Teknologi Malaysia
MSc. Sustainable Community Design, Heriot-Watt University, Edinburgh, Scotland, United Kingdom
Bachelor of Urban and Regional Planning, International Islamic University Malaysia
Tel: -
E-mail: wanurjannah@um.edu.my

Dr. Corinthias Pamatang Morgana Sianipar
Doctor of Engineering (Dr.Eng.), Tokyo University of Science, Japan in Industrial Administration
Master of Science in Management (M.S.M.), Bandung Institute of Technology (ITB), Indonesia
Master of Engineering (M.Eng.), Tokyo University of Science, Japan in Industrial Administration
Bachelor of Applied Science (B.A.Sc.), Bandung Polytechnic for Manufacturing, Indonesia
Tel: -
E-mail: cpm.sianipar@gmail.com

HONORARY PROFESSOR

Professor TPr. Dr. Melasutra Md Dali
PhD (Urban Planning), University of Melbourne, Australia
M.Sc (Urban and Regional Planning), University of Wisconsin, Madison, USA
B.Sc (Urban Studies & Envi. Planning), University of Wisconsin, Green Bay, USA
Registered Town Planner, Board of Town Planners Malaysia
Corporate Member, Malaysian Institute of Planners
Member, Malaysian Social Impact Assessment Association
Tel: 03-7967 7955
E-mail: melasutr@um.edu.my

Professor Gs. Dr. Rosilawati Zainol
PhD (Science), Universiti Teknologi MARA
MIMT, Universiti Tun Abdul Razak
B.A (cum laude) Arkansas State University, Arkansas, USA
Professional Member, Institution of Geospatial and Remote Sensing Malaysia
Associate Member, Malaysian Institute of Planners
Tel: 03-7967 5325
E-mail: rosilawatizai@um.edu.my

ADJUNCT PROFESSORS

Dato' Seri TPr. Maimunah Mohd Sharif (Dr.)
M. Sc. (Planning), Universiti Sains Malaysia
B.Sc. (Honours) Town Planning Studies, University of Wales, Cardiff, UK
Advisor Sustainable Urbanisation to Government of Malaysia Honorary Fellowship RTPI, UK
Advisor to the King Foundation, UK Advisor Global Executive Committee ICLEI Fellow
Malaysia Institute of Planners (MIP) Corporate Member of MIP
President of Malaysian Association of Local Authorities (MALA) (2012-2017)
President Municipal Council of Seberang Perai (2011-2017) Mayor of Penang (2017)
Under Secretary General and Executive Director UN-Habitat (Jan 2017-Jan 2024)
Mayor of Kuala Lumpur (Aug 2024-Nov 2025)
PETRONAS Property Advisor
Email: maimunah@kpkt.gov.my

TPr. Gs. Hj. Mohammad Fahmi Alias
M.Sc. Remote Sensing & GIS, Universiti Putra Malaysia B.Sc. (Honours) Town & Regional Planning, Universiti Teknologi MARA
Dipl. Town & Regional Planning, Universiti Teknologi MARA Corporate Member, Malaysian Institute of Planners Registered Town Planner, Board of Town Planners Malaysia Professional Member, Institution of Geospatial and Remote Sensing Malaysia
Professional Member, Malaysia Association of Social Impact Assessment
Managing Partner, Urban SCALE
E-mail: mohammadfahmi@gmail.com

EXTERNAL EXAMINER

TPr. Khairuzaman Napis
BA (Honours) Town Planning, University of South Australia
Registered Town Planner, Board of Town Planners Malaysia
Technical Director, Planners M Consult Sdn Bhd
Member, Malaysian Institute of Planners
Member, International Society of City and Regional Planners (ISOCARP)
E-mail: aman@minconsult.com

Professor Nick Gallent
PhD, University of Wales
Bachelor of Science (Honours), University of Wales, Aberystwyth
Professor, University College London
E-mail: n.gallent@ucl.ac.uk

URBAN AND REGIONAL PLANNING

Introduction

The Bachelor of Urban and Regional Planning is accredited by the Board of Town Planners Malaysia. It was introduced in 2011 as a professional programme in line with the requirements of the Board of Town Planners Malaysia and Malaysian Institute of Planners. The programme obtained approval from the Ministry of Higher Education in March 2011, with student intake session 2011/2012 as its pioneer batch.

The Bachelor of Urban and Regional Planning programme in Universiti Malaya gives more emphasis on the roles of urban planning in promoting sustainable urban development for sustainable communities. The curriculum covers a wide range of contemporary topics and issues including community development, development appraisal, environmental planning, and management. Apart from lectures and tutorials, there are plenty of opportunities for students to gain hands-on experiences through research projects and field trips. This enables the students to develop their creativity and critical thinking skills that can be utilised in their studies and their future careers.

In line with the University's vision to be a world-class university, students are provided with opportunities to have lectures from international visiting professors which enable students to be updated with not only global, but also contemporary issues and debates in urban planning. The department's vision is to be an internationally renowned school of urban planning in research, innovation, publication and teaching.

The department aspires to be a centre of excellence in urban and regional planning studies and research in the Asia-Pacific region. The region provides a living laboratory where urban and regional issues can be identified, analysed and examined, and strategies formulated. As for future employment opportunities, the detailed scope of works and services of urban/town planners include:

1. Prepare development plans such as national physical plan, structure plans, local plans and special area plans for the purposes outlined in the Town and Country Planning Act 1976;
2. Prepare and submit planning permission application which include layout submission, erection of building and change of use of building or land in respect of a development, drawings and planning reports to any person or public authority to develop any land;

3. Carry out urban, rural and regional development planning studies, feasibility and viability studies, environmental impact assessment studies, visual impact assessment and social impact assessment relating to land use;
4. Urban design and advocacy planning; and
5. Project management and other planning related services.

The Bachelor of Urban and Regional Planning programme is a four-year programme (8 semesters) with a total of 139 credits. The programme consists of three components, namely, General Courses, Core Courses and Elective Courses which accounts for 14%, 81% and 5%. ada di lampiran respectively from the programme's total 139 credits. The adoption of elective courses and the university's compulsory courses (which includes co-curriculum) is designed to expose students to knowledge aside from their chosen discipline.

As practised universally, the teaching-learning methods of the programme comprise of the following components: lectures, tutorials/group discussions, studios, site investigations and site surveys, laboratories, assignments, industrial training, projects and final-year academic project. Many of these components are continually assessed via written or laboratory tests, quizzes, discussion groups and assignments.

For most courses, the formative component (continuous assessment) is made up of at least 40% of each course. Continuous assessment currently practised includes test, tutorial, quiz, portfolio, assignment, oral presentation, direct observation, practical training, and studio projects. There are also courses that are based solely on formative assessment, for example, studios, Research Project (report and/or seminar presentation), and Industrial Training (report and assessment by supervisor). With the implementation of the Malaysian Qualification Framework (MQF), student learning time such as preparation for tutorials, laboratory reports, final-year projects, industrial training, courses using studios with practical emphasis are factored in all courses.

Programme Aim

To produce professional town planning graduates who are creative, innovative, and critical in the development and implementation of sustainable spatial planning and competitive in managerial and technological aspects within the national and global contexts.

Programme Learning Outcomes

At the end of the programme, graduates are able to:

PLO1	Acquire knowledge and good technical understanding as well as good management practices in urban and regional planning fields.
PLO2	Understanding and resolving urban and regional issues with critical, innovative and strategic thinking.
PLO3	Conduct study related to planning and development by using appropriate techniques.
PLO4	Apply relevant knowledge, social skills and work collaboratively in various contexts.
PLO5	Communicate ideas effectively to generate comprehensive and impactful outcomes.
PLO6	Master the information management skills and numeral literacy skills in urban and regional planning.
PLO7	Demonstrate quality leadership and accountability.
PLO8	Acquire consultancy, entrepreneurial and life-long learning skills that can be applied in various fields.
PLO9	Cultivate ethics and professionalism in strategic planning practices.

STUDY PLAN: BACHELOR OF URBAN AND REGIONAL PLANNING SEMESTER 1 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL1001	Embrace@UMLEADER	2	GIG1017	Philosophy and Current Affairs	2	8
	GUL1003	Basic Entrepreneurship Culture	2	GIG1018	Malaysian Citra *		
				GLT10XX	Kursus Bahasa Inggeris	2	
Programme Core Courses	BID1008	Planning Studio I- Fundamental Planning Skills	6	BID1012	Planning Studio II - Site Planning and Design	6	30
	BID1009	Computer Aided Graphic Design in Planning	3	BID1013	Land Use Planning	3	
	BID1010	History and Evolution of Urban Planning	3	BID1014	Transportation Planning and Traffic	3	
	BID1011	Site Planning and Analysis	3	BID1015	Urban Design and Conservation	3	
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**19**	**38**

* Non-Malaysian

YEAR 2 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL2002	Ignite@UMLEADER	2	GIG1016	Integrity and Anti-Corruption (KIAR)	2	4
				GLT2000	Professional Malay for Career and Organisation	*	
Programme Core Courses	BID2009	Planning Studio III - City Centre Studies	6	BID2014	Planning Studio IV – Local Development Planning	6	33
	BID2010	Planning Laws	3	BID2015	GIS and Urban Analytics	3	
	BID2011	Planning Techniques	3	BID2016	Planning Legislations and Governance	3	
	BID2013	Urban Economics	3	BID2017	Quantitative Analysis in Planning	3	
				BID2018	Sustainable Community Development	3	
Programme Elective Courses	*BID2012	Sustainable Tourism Planning	3				3
	*BID2019	Technologies in Urban Planning					
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**20**	**40**

* Student need to choose one of the offered program elective subjects for the semester

YEAR 3 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GLT10XX	English Language Course	2				4
	GIG1019	Malaysian Nation-State Aspiration	2				
	GLT1049	Malay Language Communication 2*					
Faculty Core Courses				BIX1008	Innovation in Built Environment	2	2
Programme Core Courses	BID3010	Planning Studio V – Regional Development Planning	6	BID3014	Planning Studio VI - Township Appraisal	6	28
	BID3011	Development and Property Appraisal	3	BID3015	Housing, Planning and Sustainability	3	
	BID3013	Rural and Regional Planning	3	BID3016	Planning Theory and Philosophy	3	
				BID3017	Research Methodology	4	
Programme Elective Courses	*BID3012	Environmental Studies	3				3
	*BID3018	Communication in Planning					
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**18**	**37**

* Student need to choose one of the offered program elective subjects for the semester

YEAR 4 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses		Co-Curriculum	2				2
Programme Core Courses	BID4006	International Planning Practice	3	BID4010	Industrial Training	8	22
	BID4007	Academic Project	5				
	BID4008	Professionalism, Ethics and Politics	3				
	BID4009	Urban Management	3				
TOTAL CREDIT			**16**	**TOTAL CREDIT**		**8**	**24**

OVERALL TOTAL CREDIT: 139

The programme structure maybe subjected to change

* Non-Malaysian

PROGRAMME STRUCTURE – BACHELOR OF URBAN AND REGIONAL PLANNING
SEMESTER 1 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II		YEAR III		YEAR IV		Total Credits	Pre-requisite
				S1	S2	S1	S2	S1	S2	S1	S2		
COMPULSORY UNIVERSITY COURSES	1	GUL1003	Basic Entrepreneurship Culture	2								**20** 14%	
	2	GUL1001	Embrace@UMLEADER	2									
	3	GLT10XX	Kursus Bahasa Inggeris		2								
	4	GIG1017/GIG1018	Philosophy and Current Affairs /** Malaysian Citra		2								
	5	GUL2002	Ignite@UMLEADER			2							
	6	GIG1016	Integrity and Anti-Corruption (KIAR)				2						
		GLT2000	Professional Malay for Career and Organisation				**						
	7	GLT10XX	Kursus Bahasa Inggeris					2					
	8	GIG1019/GLT1049	Malaysian Nation-State Aspiration / Malay Language Communication *						2				
	9	BIX1008	Innovation in Built Environment						2				
	10	GKU/GKS/GKK/GK	Co-Curriculum							2			
PROGRAMME CORE COURSES	11	BID 1008	Planning Studio I-Fundamental Planning Skills	6								**113** 81%	
	12	BID 1009	Computer Aided Graphic Design in Planning	3									
	13	BID 1010	History and Evolution of Urban Planning	3									
	14	BID 1011	Site Planning and Analysis	3									
	15	BID 1012	Planning Studio II - Site Planning and Design		6								BID 1008
	16	BID 1013	Land Use Planning		3								
	17	BID 1014	Transportation Planning and Traffic		3								
	18	BID 1015	Urban Design and Conservation		3								
	19	BID 2009	Planning Studio III - City Centre Studies			6							BID 1012
	20	BID 2010	Planning Laws			3							
	21	BID 2011	Planning Techniques			3							
	22	BID 2013	Urban Economics			3							
	23	BID 2014	Planning Studio IV – Local Development Planning				6						BID 2009
	24	BID 2015	GIS and Urban Analytics				3						
	25	BID 2016	Planning Legislations and Governance				3						
	26	BID 2017	Quantitative Analysis in Planning				3						
	27	BID 2018	Sustainable Community Development				3						
	28	BID 3010	Planning Studio V – Regional Development Planning					6					BID 2014
	29	BID 3011	Development and Property Appraisal					3					
	30	BID 3013	Rural and Regional Planning					3					
	31	BID 3014	Planning Studio VI - Township Appraisal						6				BID 3010
	32	BID 3015	Housing, Planning and Sustainability						3				
	33	BID 3016	Planning Theory and Philosophy						3				
	34	BID 3017	Research Methodology						4				
	35	BID 4006	International Planning Practice							3			
	36	BID 4007	Academic Project							5			BID 3017
	37	BID 4008	Professionalism, Ethics and Politics							3			
	38	BID 4009	Urban Management							3			
	39	BID 4010	Industrial Training								8		BID 3014
PROGRAMME ELECTIVE COURSES	40	BID 2012	Sustainable Tourism Planning			3						**6** 5%	
	41	BID 2019	Technologies in Urban Planning										
	42	BID 3012	Environmental Studies					3					
	43	BID 3018	Communication in Planning										
Total Subject Breakdown			**Credits**	**19**	**19**	**20**	**20**	**17**	**20**	**16**	**8**	**139**	**41**
			Subjects	6	6	6	6	5	6	5	1	41	
			University Courses	2	2	1	1	1	2	1	0	10	
			Programme Courses	4	4	5	5	4	4	4	1	31	

Note:
*Exemption for non-Malaysian students and to be replaced with another Senate-approved university course **Course offered to non-Malaysian students

STUDY PLAN: BACHELOR OF URBAN AND REGIONAL PLANNING
SEMESTER 2 SESSION 2026/2027 INTAKE

YEAR 1 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses				GLT1017	Philosophy and Current Affairs	2	4
				GIG1018	Malaysian Citra*		
				GIG1016	Integrity and Anti-Corruption (KIAR)	2	
Programme Core Courses				BID1008	Planning Studio I- Fundamental Planning Skills	6	15
				BID1013	Land Use Planning	3	
				BID1014	Transportation Planning and Traffic	3	
				BID1015	Urban Design and Conservation	3	
TOTAL CREDIT				**TOTAL CREDIT**		**19**	**19**

YEAR 1 (Bachelor of Urban and Regional Planning)				
COMPONENTS	SPECIAL SEMESTER			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	BID1012	Planning Studio II - Site Planning and Design	6	9
	BID1009	Computer Aided Graphic Design in Planning	3	
TOTAL CREDIT			**9**	**9**

* Non-Malaysian

YEAR 2 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GUL1001	Embrace@UMLEADER	2	GLT10XX	English Language Course	2	4
				GLT2000	Professional Malay for Career and Organisation	**	
Programme Core Courses	BID2009	Planning Studio III - City Centre Studies	6	BID2014	Planning Studio IV – Local Development Planning	6	33
	BID2010	Planning Laws	3	BID2015	GIS and Urban Analytics	3	
	BID1011	Site Planning and Analysis	3	BID2016	Planning Legislations and Governance	3	
	BID1010	History and Evolution of Urban Planning	3	BID2017	Quantitative Analysis in Planning	3	
				BID2018	Sustainable Community Development	3	
Programme Elective Courses	*BID2012	Sustainable Tourism Planning	3				3
	*BID2019	Technologies in Urban Planning					
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**20**	**40**

* Student need to choose one of the offered program elective subjects for the semester

YEAR 3 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	GUL2002	Ignite@UMLEADER	2	GLT10XX	English Language Course	2	4
Faculty Core Courses				BIX1008	Innovation in Built Environment	2	2
Programme Core Courses	BID3010	Planning Studio V – Regional Development Planning	6	BID3014	Planning Studio VI - Township Appraisal	6	28
	BID3013	Rural and Regional Planning	3	BID3015	Housing, Planning and Sustainability	3	
	BID2011	Planning Techniques	3	BID3017	Research Methodology	4	
	BID2013	Urban Economics	3				
Programme Elective Courses	*BID3012	*Environmental Studies	3				3
	*BID3018	Communication in Planning					
TOTAL CREDIT			**20**	**TOTAL CREDIT**		**17**	**37**

* Student need to choose one of the offered program elective subjects for the semester

YEAR 4 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Compulsory University Courses	GXXxxxx	Co-Curriculum	2	GIG1020	Principles of National Entrepreneurship Culture	2	4
Programme Core Courses	BID4006	International Planning Practice	3	BID3016	Planning Theory and Philosophy	3	22
	BID4007	Academic Project	5	GIG1019	Malaysian Nation-State Aspiration	2	
	BID4008	Professionalism, Ethics and Politics	3	GLT1049	Malay Language Communication*		
	BID4009	Urban Management	3				
	BID3011	Development and Property Appraisal	3				
TOTAL CREDIT			**19**	**TOTAL CREDIT**		**7**	**26**

YEAR 5 (Bachelor of Urban and Regional Planning)							
COMPONENTS	SEMESTER 1			SEMESTER 2			TOTAL CREDITS
	COURSE CODE	COURSE TITLE	CREDIT	COURSE CODE	COURSE TITLE	CREDIT	
Programme Core Courses	BID4010	Industrial Training	8				8
TOTAL CREDIT			**8**	**TOTAL CREDIT**			**8**

OVERALL TOTAL CREDIT: 139
The programme structure maybe subjected to change

PROGRAMME STRUCTURE – BACHELOR OF URBAN AND REGIONAL PLANNING
SEMESTER 2 SESSION 2026/2027 INTAKE

Category	No	Course Code	Course Title	YEAR I		YEAR II		YEAR III		YEAR IV		YEAR V	Total Credits	Pre-requisite
				S1	S2	S1	S2	S1	S2	S1	S2	S1		
COMPULSORY UNIVERSITY COURSES	1	GIG1017/ **GIG1018	Philosophy and Current Affairs /** Malaysian CITRA	2									**20** 14%	
	2	GIG1016	Integrity and Anti-Corruption (KIAR)	2										
	3	GUL1001	Embrace@UMLEADER			2								
	4	GLT10XX	Kursus Bahasa Inggeris				2							
	5	GLT2000	Professional Malay for Career and Organisation				**							
	6	GUL2002	Ignite@UMLEADER					2						
	7	GLT10XX	Kursus Bahasa Inggeris						2					
	8	BIX1008	Innovation in Built Environment						2					
	9	GXXxxxx	Co-Curriculum							2				
	10	GIG1020	Principles of National Entrepreneurship Culture								2			
	11	GIG1019/GLT1049	Malaysian Nation-State Aspiration / Malay Language Communication *								2			
PROGRAMME CORE COURSES	11	BID 1008	Planning Studio I-Fundamental Planning Skills	6									**113** 81%	
	12	BID 1009	Computer Aided Graphic Design in Planning		3									
	13	BID 1010	History and Evolution of Urban Planning			3								
	14	BID 1011	Site Planning and Analysis			3								
	15	BID 1012	Planning Studio II - Site Planning and Design		6									
	16	BID 1013	Land Use Planning	3										
	17	BID 1014	Transportation Planning and Traffic	3										
	18	BID 1015	Urban Design and Conservation	3										
	19	BID 2009	Planning Studio III - City Centre Studies			6								BID 1012
	20	BID 2010	Planning Laws			3								
	21	BID 2011	Planning Techniques					3						
	22	BID 2013	Urban Economics					3						
	23	BID 2014	Planning Studio IV – Local Development Planning				6							BID 2009
	24	BID 2015	GIS and Urban Analytics				3							
	25	BID 2016	Planning Legislations and Governance				3							
	26	BID 2017	Quantitative Analysis in Planning				3							
	27	BID 2018	Sustainable Community Development				3							
	28	BID 3010	Planning Studio V – Regional Development Planning					6						BID 2014
	29	BID 3011	Development and Property Appraisal							3				
	30	BID 3013	Rural and Regional Planning					3						
	31	BID 3014	Planning Studio VI - Township Appraisal						6					BID 3010
	32	BID 3015	Housing, Planning and Sustainability						3					
	33	BID 3016	Planning Theory and Philosophy								3			
	34	BID 3017	Research Methodology						4					
	35	BID 4006	International Planning Practice							3				
	36	BID 4007	Academic Project							5				BID 3017
	37	BID 4008	Professionalism, Ethics and Politics							3				
	38	BID 4009	Urban Management							3				
	39	BID 4010	Industrial Training									8		BID 3014
PROGRAMME ELECTIVE COURSES	40	BID 2012	Sustainable Tourism Planning			3							**6** 5%	
	41	BID 2019	Technologies in Urban Planning											
	42	BID 3012	Environmental Studies					3						
	43	BID 3018	Communication in Planning											
Total Subject Breakdown			**Credits**	**19**	**9**	**20**	**20**	**20**	**17**	**19**	**7**	**8**	**139**	41
			Subjects	6	2	6	6	6	5	6	3	1	43	
			University Courses	2	0	1	1	1	2	1	2	0	12	
			Programme Courses	4	2	5	5	5	3	5	1	1	31	

Note:
*Exemption for non-Malaysian students and to be replaced with another Senate-approved university course **Course offered to non-Malaysian students

PROGRAMME CORE COURSES

BID 1008 **PLANNING STUDIO I: FUNDAMENTAL PLANNING SKILLS**

6 credits

Synopsis of Course Contents

This course introduces design principles and basic design skills which are needed by an urban planner. The design skills include: Line drawing; Poster Lettering; Plan Colouring; Draughtsmanship; Sketches; Perspective Drawing; Texture's identification; Graphic Illustration. This course also allows skill acquisition which can be developed through the use of various drafting scales equipment, plan's enlargement & reduction techniques and Map Reading exercises. Students are required to work individually.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the design fundamentals in the layout plan;
2. Describe the basic design principles in the layout plan;
3. Produce basic planning drawings to translate ideas in the layout plan; and
4. Present ideas through graphic illustrations using suitable techniques.

Assessment:

Continuous Assessment: 100%

BID 1009 **COMPUTER AIDED GRAPHIC DESIGN IN PLANNING**

3 credits

Synopsis of Course Contents

This course introduces the concepts of computer aided graphic design and its application using various design software. This course is intended to familiarise students with basic aspects of AutoCAD dan other design software, with an emphasis on graphic design applications to be used in urban and regional planning field.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the basic concepts and techniques of computer aided graphic design in planning;
2. Describe the application of computer aided design within the context of urban planning; and
3. Using AutoCAD, Sketchup and Adobe Illustrator software in urban planning projects.

Assessment

Continuous Assessment 100%

BID 1010 **HISTORY AND EVOLUTION OF URBAN PLANNING**

3 credits

Synopsis of Course Contents

This course focuses on the history and evolution of urban planning and practice in the world and Malaysia. It exposes the students to the form and planning of the world's first cities, innovation in terms of city and neighbourhood planning concepts until the early establishment of planning legislations during the Industrial Revolution era. The students will be exposed to the history of the establishment of urban planning practice and legislations in Malaysia until the formation of the existing urban planning system. Emphasis is also given to issues and trends in the urbanisation process which contribute to the evolution of urban planning in Malaysia.

Learning Outcomes

At the end of the course, students are able to:
1. Explain the evolution of urban forms and planning at global level;
2. Elaborate the history of planning in Malaysia; and
3. Explain the system and components of the modern urban planning in Malaysia.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 1011 **SITE PLANNING AND ANALYSIS**

3 credits

Synopsis of Course Contents

This course covers the aspect of site planning from the perspectives of urban and regional planning. The knowledge of site planning is very important to the professionals before any implementation of development projects could take place. The course introduces elements of site planning that begin with the recognising of site characteristics, conditions, problems and limitations. The identification of site potential for development requires examinations of surrounding development including elements of infrastructure, existing economic activities and local development policies that regulate urban land uses. The site planning knowledge was disseminated in consideration of urban and regional growth, environment from human perspectives, global sustainable development goal and planning ethics.

Learning Outcomes

At the end of the course, students are able to:
1. Determine and discuss site development problem & potential;
2. Apply the appropriate methodology for site planning; and
3. Incorporate human and environmental considerations in site selection for development.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 1012 **PLANNING STUDIO II – SITE PLANNING AND DESIGN**

6 credits

Synopsis of Course Contents

The course major activities include the search for site and collection of relevant information from appropriate data sources; the site survey using appropriate techniques (check list, matrices) in the planning for site development; the site analysis encompassing topography, traffic circulation, surrounding development, tree preservation; the analysis of Development Potential and the proposals of Mitigating Measures of possible impacts. The course also requires good Report preparation and Layout Plan proposals. Students are required to work in groups and to do Project Presentation.

Learning Outcomes

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

1. Describe the site planning design requirements through relevant technical process such as site measurement and analysis;
2. Determine the site issues based on urban planning perspective;
3. Select suitable design measures in the study site area; and
4. Prepare lay-out plan for selected study site area.

Assessment:

Continuous Assessment	100%

BID 1013 **LAND USE PLANNING**

3 credits

Synopsis of Course Contents

This course introduces the theory and practice of land use planning in urban environments. The term "land use" was determined as a part of social relations that define the way urban or region development. Land use planning is understood in a holistic sense that integrates all built environment elements such as nature, human activity and the environment. The identification of potential development requires examinations of surrounding development including elements of infrastructure, existing economic activities and local development policies that regulate urban land uses. The introduction to land use planning will cover urban land use theory, urban land use components, land use planning models, land use zoning categories and codes (use class order). Discussion on site development issues will include topics of how land use planning was incorporating site development potentials and planning controls.

Learning Outcomes

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

1. Explain the land law provisions related to land development;
2. Apply land law to other aspects of real estate; and
3. Relate land law provisions to land development.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 1014 **TRANSPORTATION PLANNING AND TRAFFIC**

3 credits

Synopsis of Course Contents

This course will introduce students to transportation systems including public transportation and its impact on the urban planning system. The impact of transportation planning will be highlighted as the failure of proper planning will result in the failure of urban planning. Among aspects that will be discussed are transportation system requirements, travel demand, travel behaviour and sustainable transportation planning. Students are taught how to conduct traffic surveys as well as traffic impact assessment.

Learning Outcomes

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

1. Describe the main aspects of transportation planning in the urban transportation system;
2. Explain the potential, issues and problems of transportation in urban planning; and
3. Appraise travel demand and travel behaviour through traffic surveys.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 1015 **URBAN DESIGN AND CONSERVATION**

3 credits

Synopsis of Course Contents

This course involves a wide-ranging types and scope of tasks. It begins with the definition of urban design and followed by the discussion of urban design theories; principles involving inter-disciplinary nature that are shaped by economic, social and political forces. This course also includes the conservation aspects, the survey techniques and analysis.

Learning Outcomes

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

1. Explain urban design principles in organising urban functions;
2. Identify influencing factors that affect urban design and conservation processes; and
3. Determine the importance of urban design and conservation in planning.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 2001 **PLANNING STUDIO III: CITY CENTRE STUDY**

6 credits

Synopsis of Course Contents

This course provides the students the knowledge and skills to prepare for planning permission applications by focusing on a city centre as case study. The course introduces concepts and alternatives to city centre development and exposes the students to the issues and problems faced in a city centre. Eventually, the students will provide solutions to the issues and problems. The outputs of the course and assessment are made on the checklist for site visit, technical report, layout plan, Development Proposal Report and other requirements for planning permission application.

Learning Outcomes

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

1. Explain city centre development concepts and alternatives;
2. Describe issues and problems of city centre;
3. Elaborate ideas to solve urban problems; and
4. Demonstrate the knowledge of preparing for planning permission.

Assessment:

Continuous Assessment	100%

BID 2010 **PLANNING LAWS**

3 credits

Synopsis of Course Contents

This course emphasises on Malaysian town and country planning legislations. In general, the students will be exposed to the land development and planning process based on the main acts such as National Land Code 1965 (Act 56), Town and Country Planning Act 1976 (Act 172) and Local Government Act 1976 (Act 171). Students will also be exposed to other planning acts such as Federal Territory Planning Act 1982 (Act 267) and planning ordinances used in Sabah and Sarawak. Case studies related to development and planning will be elaborated based on the legislation clauses and development context.

Learning Outcomes

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

1. Explain the legislation system and source of power for land development and planning in Malaysia;
2. Describe planning procedures in Malaysia based on the planning legislations; and
3. Elaborate the applications of planning legislations in land use developments through case studies.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 2011 **PLANNING TECHNIQUES**

3 credits

Synopsis of Course Contents

This course covers the topics related to analysis and techniques required in making decisions in the planning process. Students will be able to apply certain techniques that will be introduced including the basic planning requirement, forecasting, plan evaluation using cost-benefit analysis, balance sheets and goal achievement matrix. Students will also be able to apply the techniques through selected case studies. Furthermore, students will be introduced to special requirements in the planning process i.e: the environmental and social impact assessment.

Learning Outcomes

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

1. Describe various planning techniques in the planning process;
2. Use the techniques in the planning process; and
3. Differentiate the technique, implementation and resultant impact of planning process.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 2013 **URBAN ECONOMICS**

3 credits

Synopsis of Course Contents

This course will introduce students to the basic understanding of the urban economic structure and its changes; emphasising relevant issues as they relate to urban planning. The topics that will be covered include the significance of economic thinking in planning, an economic explanation for urban growth, the economics of urban land use, urban location decision and the economics of urban public intervention. Students will also learn the economic approach to selected urban problems such as congestion, crime, pollution etc.

Learning Outcomes

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

1. Explain the location decision of economic activities in urban development;
2. Describe the economics of urban land use market in urban economy; and
3. Elaborate on public intervention in the urban economy.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BID 2014 **PLANNING STUDIO IV: LOCAL DEVELOPMENT PLANNING**

6 credits BID 2009

Synopsis of Course Contents

This course covers the preparation of development plans based on the provisions under planning legislation for Act 172, Sabah Cap 141 and Sarawak Cap.87. It introduces students to the process of preparing public sector plans and the practices of making them, concentrating on either two main kinds of development plans: comprehensive local plan or strategic plan. The course will cover the investigation of many aspects such as housing, land use, transportation, environment and others. Modelling and forecasting techniques will be used to analyse the existing condition and predict the future requirements.

Learning Outcomes

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

1. Understand the local government context in which development plans are made and used by assessment of planning issues, potentials and problems of the study area;
2. Discuss the broad type of development that should be provided in meeting local needs through various planning techniques and projections:
3. Identify project/program reflecting community/place uniqueness through community collaborative effort; and
4. Recommend development strategies for the proposed area` for future sustainable development.

Assessment:

Continuous Assessment 100%

BID 2015 **GIS AND URBAN ANALYTICS**

3 credits

Synopsis of Course Contents

This course introduces the concepts of Geographic Information System (GIS) and its application in urban planning. Students will be exposed to data spatial concepts and methods of spatial data analysis in urban planning.

Learning Outcomes

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

1. Explain the basic concepts and techniques of Geographic Information System (GIS) in urban planning;
2. Describe the application of GIS Analysis within the context of urban planning; and
3. Use GIS software in urban planning projects.

Assessment:

Continuous Assessment 100%

BID 2016 **PLANNING LEGISLATIONS AND GOVERNANCE**

3 credits

Synopsis of Course Contents

This course covers the contemporary legal framework within which urban planning and development practice take place. The aspect of discussion revolves around the legislation and governance that relates to planning and development practice in Malaysia. Students will be exposed to provisions and clauses related to urban planning in the selected acts. The course accentuated on matters involving development as well as current issues concerning urban planning. Detailed analysis and discussion on various case studies is conducted to link urban planning and development practice with existing real- world situations.

Learning Outcomes

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

1. Identify the law and regulation that affect the planning and development practice;
2. Examine related legislation and governance that can improve the planning practice and development process; and
3. Demonstrate the ability to interpret legislation and governance practically through case studies analysis.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 2017 **QUANTATIVE ANALYSIS IN PLANNING**

3 credits

Synopsis of Course Contents

This course is designed to introduce students to commonly used statistical quantitative analysis in urban planning and research. Students will be exposed to the basic skills in statistical techniques as a means to communicate research findings effectively. Topics covered include types and sources of quantitative data, designing and administering questionnaire surveys, basic descriptive and inferential statistics and the use of statistical software for quantitative analysis.

Learning Outcomes

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

1. Explain the use of information and quantitative analysis in urban planning and research;
2. Analyse primary and secondary data through questionnaire survey in urban planning and research; and
3. Use suitable statistical techniques to analyse survey-based data using statistical software in urban planning and research.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BID 2018 **SUSTAINABLE COMMUNITY DEVELOPMENT**

3 credits

Synopsis of Course Contents

The course introduces the concept, process and method of sustainable community development through planning and physical development. It also provides an exposure to the students on the importance of identification of community needs in order to ensure that the sustainability of a community is not impacted by development. Students will also learn on the community development strategies through physical planning from the macro level which is at the policy making level right to the implementation level through the adoption of planning conditions and guidelines.

Learning Outcomes

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

1. Explain the concept and importance of sustainable community development;
2. Apply the methods and techniques in community needs assessment and public consultation; and
3. Elaborate the strategies of sustainable community development through a physical planning framework.

Assessment:

Continuous Assessment	60%
Final Examination	40%

BID 3010 **PLANNING STUDIO V: REGIONAL DEVELOPMENT PLANNING**

6 credits

Synopsis of Course Contents

This course covers the preparation of development planning report at regional level which include state structure plan, master plans at city, state and transboundary scales as prescribed in the Town and Country Planning Act 1976 (Act 172), Federal Territory (Planning) Act 1982 (Act 267), State of Sabah Town and Country Planning Ordinance 2010 (Sabah Cap 141), Town and Country Planning Ordinance 1952 and other relevant statutory provisions. Examination of content of the plan, the existing condition of case study and the future development prospect will be carried out through fieldwork (e.g. site survey, interviews with stakeholders, focus group discussion, briefing from planning agencies) and secondary data collection (e.g. relevant policy documents, published reports, unpublished documents). The course covers the sectoral investigation such as land use, housing, transportation, environment, tourism, commercial and industry. Models and forecasting techniques are employed to analyse the existing condition and predict the future requirements. Students will be working in groups to produce a draft development plan or master plan.

Learning Outcomes

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

1. Describe the development planning at macro level;
2. Examine land development through resource planning;
3. Apply planning techniques to make future projections at macro level; and
4. Recommend strategic planning for regional development.

Assessment:

Continuous Assessment	100%

BID 3011 DEVELOPMENT AND PROPERTY APPRAISAL

3 credits

Synopsis of Course Contents

This course will cover all the factors that impact on the decision-making process in urban development, including site appraisal, development appraisal and development finance. This course also examines the economic context for the creation of value, introduces the principles of property valuation, forms a clear understanding of the valuation process and applies appropriate basic valuation methods to appraise various types of property.

Learning Outcomes

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

1. Discuss the real estate market conditions on the development process of a project;
2. Examine the social and economic dimensions of a property development project; and
3. Prepare the financial feasibility report for a property development project.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 3013 RURAL AND REGIONAL PLANNING

3 credits

Synopsis of Course Contents

This course focuses on regional and rural planning as part of the town and country planning modules. It focuses on concepts and models of regional growth theories and models. It also explains the evolution and history of regional growth in post independent Malaysia. Related growth techniques and analytical approaches are also explained. The course clarifies the administrative framework of regional development in Malaysia.

Learning Outcomes

At the end of the course, students are able to:
1. Comprehend and explain rural and regional planning concept.
2. Relate growth theories in rural and regional planning; and
3. Apply analytical techniques in Malaysian rural and regional planning.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 3014 **PLANNING STUDIO VI: TOWNSHIP APPRAISAL**

6 credits

Synopsis of Course Contents

The main emphasis of the studio is to expose the students to the methods and exercises involved in evaluating an existing development scheme of township scale. The students will be required to evaluate how the township development has taken place and the issues associated with it. Based on present global and local agenda and trend, the students will need to develop an indicator- based sustainability assessment framework and recommend proposals that will reposition the township to ensure its economic vitality, without compromising the quality of the physical and social environment.

Learning Outcomes

At the end of the course, students are able to:
1. Appraise the development of a township based on the original and existing objectives, policies, strategies and development control;
2. Synthesise physical, social, and economic issues of a development scheme of township scale;
3. Develop sustainability assessment framework of a development scheme; and
4. Propose solutions and strategies to enhance a development scheme through sustainable and comprehensive concept and design.

Assessment:

Continuous Assessment	100%

BID 3015 **HOUSING, PLANNING AND SUSTAINABILITY**

3 credits

Synopsis of Course Contents

This course aims to provide a comprehensive understanding of Malaysia's housing system and its relationships with urban planning and the concepts of sustainable development. It discusses the theoretical and practical aspects of housing, making special reference to their relationships with urban planning and sustainable development. Major topics include the housing system concepts, the political economy of housing policies, land use planning and housing affordability, housing policy analyses, housing market analyses, and the application of the sustainable development perspective to housing analyses.

Learning Outcomes

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

1. Explain the concept and issues of housing, both nationally and globally;
2. Examine the social, political, economic, policies and institutional structure within the context of housing management; and
3. Relate housing delivery system with sustainable housing concept in Malaysia.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 3016 **PLANNING THEORY AND PHILOSOPHY**

3 credits

Synopsis of Course Contents

The course focuses on selected classic and current debates and theories in planning, such as synoptic planning, disjointed incrementalism, mixed scanning, advocacy planning, communicative planning, collaborative planning, radical planning, and others. This course offers students a thought of classic and contemporary theories of planning.

The logic behind the ideas, concepts and actions of planning is continuously challenged as planners try to balance the relationship between democracy, markets and government within the planning environment.

Learning Outcomes

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

1. Describe various types of planning and theoretical development of scientific knowledge in urban and regional planning;
2. Apply the theories and models of planning in the urban and regional planning contexts; and
3. Comprehend past and present debates of planning as a basis for further reflections on future planning theory.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 3017 **RESEARCH METHODOLOGY**

4 credits

Synopsis of Course Contents

This course encompasses two parallel parts. The first part provides a theoretical background on the subject. It involves the exploration of suitable quantitative and qualitative research methods, analytical thinking, and literature review. The other part ends with successfully initiating an academic research project. This part requires students to work individually on the topic selected for the academic project in terms of conceptualising problems from complex, real-world situations, identifying appropriate research questions, setting up appropriate research objectives, reviewing relevant literature and properly designing an ethical research project.

Learning Outcomes

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

1. Perform literature review in planning research project;
2. Determine appropriate method and design that are suitable with the objectives and purpose of study; and
3. Plan a research project based on the literature review and in relevance to the selected methods and design.

Assessment:

Continuous Assessment 100%

BID 4006 **INTERNATIONAL PLANNING PRACTICE**

3 credits

Synopsis of Course Contents

This course introduces to the students to challenges and issues in cities around the world. Students will focus on case studies in Asia and beyond Asia in understanding international planning practice context through its physical planning and land uses, social and economic planning, environmental planning and transportation planning and others. Students will evaluate the planning practice in different perspectives with Malaysia urban planning practice systems.

Learning Outcomes

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

1. To elaborate the planning practice system at international level;
2. To discuss issues and challenges of planning and development at international level; and
3. To evaluate different planning practices at international level.

Assessment:

Continuous Assessment 100%

BID 4007 **ACADEMIC PROJECT**

5 credits BID 3017

Synopsis of Course Contents

In this course the students are guided by lecturers to produce an academic project report based on the proposals drafted in the Research Methods course. The research work in this involves adequate data collection and analysis, discussion and conclusion through effective writing and visual communication.

Learning Outcomes

At the end of the course, students are able to:
1. Critically analyse issues and problems in the urban planning field;
2. Apply appropriate research methods and processes in urban planning;
3. Apply theoretical concepts in research; and
4. Produce academic project report related to urban planning.

Assessment:

Continuous Assessment	100%

BID 4008 **PROFESSIONALISM, ETHICS AND POLITICS**

3 credits

Synopsis of Course Contents

This course will discuss urban and regional planning in practice and the functions of town planners as professionals. It focuses on the detailed understanding of the Town Planners Act 1995 and Code of Professional Conduct of Malaysian Institute of Planners with some references on planning practice in the United Kingdom. The discussions continue with the scope of works for town planners in the public sector and their roles in developing the community and their relations with other professionals in the built environment. Discussions on the town planners' roles in the private sector will include the professional services, procedures in plan-making process and relations with stakeholders.

Learning Outcomes

At the end of the course, students are able to:
1. Explain professional codes and ethics in town planning profession;
2. Evaluate the methods and regulations in town planning profession; and
3. Compare the roles and functions of different professionals in development projects.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 4009 **URBAN MANAGEMENT**

3 credits

Synopsis of Course Contents

The course will impart knowledge on good urban management through discussion of concepts, theories and principles of good urban governance. Other aspects that will be discussed are the roles and functions of key players in urban management; the relationship between urban planning and urban management; urban services and service deliveries (urban asset management); urban management issues and problems; capacity building and public participation; and target, urban indicator and performance management.

Learning Outcomes

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

1. Elaborate the scope and resources of urban management;
2. Analyse the issues, problems and needs related to urban management; and
3. Assess the current practice and innovations in urban management.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 4010 **INDUSTRIAL TRAINING**

8 credits

Synopsis of Course Contents

Industrial training will introduce students to a professional working environment with applying comprehensive urban planning skills. Students will be exposed to the actual working environment by practising interpersonal skills and effective teamwork.

Learning Outcomes

At the end of the course students are able to:

1. Apply classroom learning in the actual working environment of urban planning;
2. Train interpersonal and technical skills related to urban planning;
3. Practice work ethics and professionalism in a real working environment; and
4. Appreciate urban planning profession in the context of built environment.

Assessment:

Continuous Assessment	100%

PROGRAMME ELECTIVE COURSES

BID 2012 **SUSTAINABLE TOURISM PLANNING**

3 credits

Synopsis of Course Contents

This course focuses on sustainable tourism development. Students are exposed to policy and agencies involved in tourism development. Students will learn about the considerations that need to be taken in the environmental, socioeconomic and social aspects and techniques used to ensure sustainable tourism planning and management by referring to local and foreign case studies.

Learning Outcomes

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

1. Describe concepts and national tourism planning policy;
2. Apply models and techniques in tourism development; and
3. Analyse the environmental, socio-economic and sociocultural impacts of tourism development.

Assessment

Continuous Assessment	40%
Final Examination	60%

BID 2019 **TECHNOLOGIES IN URBAN PLANNING**

3 credits

Synopsis Of Course Contents

This course introduces technological diversity in urban planning. Students will be exposed to the technology used in urban planning. Among the technologies to be introduced in this course are technology in resource determination, collection, processing, management, and conversion of data into information. Methods of information dissemination to urbanites will be explored.

Learning Outcomes

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

1. Explain the diverse technologies in urban planning;
2. Describe the latest technological applications in urban planning; and
3. Use technological applications in urban planning projects.

Assessment:

Continuous Assessment	100%

BID 3012 **ENVIRONMENTAL STUDIES**

3 credits

Synopsis of Course Contents

This course discusses important topics in environmental studies and exposes the students to environmental issues related to urbanisation and climate change by referring to case studies locally and abroad. Discussions also emphasise on the importance of integrating environmental aspects in decision-making to achieve sustainable development through environmental impact assessment.

Learning Outcomes

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

1. Describe the key concepts of environmental studies;
2. Discuss global environmental challenges including climate change, population growth, energy issues and food systems; and
3. Explain the environmental legislation in Malaysia and the processes of the environmental impact assessments.

Assessment:

Continuous Assessment	40%
Final Examination	60%

BID 3018 **COMMUNICATION IN PLANNING**

3 credits

Synopsis of Course Contents

The course provides exposure on the importance of effective communication in planning. It also provides an exposure to the students on the methods and techniques in communication to ensure that the plans that have been prepared can be conveyed effectively to the stakeholders and accepted well by the public. Students will also learn on the public consultation strategies to ensure effective public participation.

Learning Outcomes

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

1. Explain the importance of effective communication in planning;
2. Apply the methods and techniques of communication in planning; and
3. Demonstrate ability to execute an effective communication plan

Assessment:

Continuous Assessment	40%
Final Examination	60%

POSTGRADUATE PROGRAMMES

GENERAL INFORMATION

POSTGRADUATE PROGRAMMES

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

ASSESSMENT FOR PROGRAMME OF STUDY BY COURSEWORK (GRADING SCHEME)

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

Grade	Marks	Grade Point	Meaning
A+	90.00 – 100.00	4.0	High Distinction
A	80.00 – 89.99	4.0	Distinction
A-	75.00 – 79.99	3.7	
B+	70.00 – 74.99	3.3	Pass
B	65.00 – 69.99	3.0	
B-	60.00 – 64.99	2.7	Fail
C+	55.00 – 59.99	2.3	
C	50.00 – 54.99	2.0	
C-	45.00 – 49.99	1.7	
D+	40.00 – 44.99	1.5	
D	35.00 – 39.99	1.0	
F	0.00 – 34.99	0.0	

FAILED AND TERMINATED FROM PROGRAMME OF STUDY (COURSEWORK)

Based on the Universiti Malaya (Master's Degree) Regulations 2024 stated that a candidate is termed as failed and terminated from the programme of study if:

- Candidate does **not achieve at least a minimum passing grade** for the core course including compulsory courses by the Faculty **after three (3) attempts.**
- Obtains a **GPA of less than 3.00 for three (3) consecutive semesters** including Special Semester (if any).
- A candidate who is **re-admitted after being terminated** from his programme of study and obtains a CGPA of **less than 3.00 for the examinations** in the semester in which he has registered immediately upon re-admission will be terminated from his study.
- Fails to **fulfil the conditions and graduation requirements of the programme of study within the specified maximum duration**.
- **Failure to renew his candidature for two (2) consecutive semesters.**
- The candidate was found to **plagiarise his dissertation or research report** as stipulated under the Universiti Malaya (Discipline of Students) Rules 2024.
- The candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 2024.

POSTGRADUATE COURSES

[BVA] DOCTOR OF PHILOSOPHY & [BMA] MASTER BY RESEARCH

Administrative Unit

PROGRAMME COORDINATOR

Gs. Dr. Nur Aulia Rosni
Coordinator for Doctor of Philosophy / Master (by Research)

Tel: 03-7967 7607
E-mail: nurauliarosni@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Norlina Mohamad Istar
Senior Administrative Assistant (Doctor of Philosophy)

Telephone: 03-7967 6856
Email: nor_lina@um.edu.my

Mdm. Jayasutha a/p Kamrajoo
Senior Administrative Assistant (Master by Research)

Telephone: 03-7967 6856
Email: jayasutha@um.edu.my

PROGRAM OVERVIEW

Candidates will carry out focused research in their area of specialisation, which is of immediate relevance to their research interest. Additionally, they will be exposed to new developments and challenges in their research topic in the international arena through media, seminars, conferences and keynote addresses. Candidates may experience research attachments and collaborative exchange arrangements with internationally recognised research centres subject to availability.

PROGRAMME STRUCTURE

This Ph.D and Master's programme is purely based on individual supervised research. Candidates will be exposed to [Code: BVX8001 / BMX7001] Research Methodology Course (3 Credits) to strengthen their research knowledge. At the end of the candidate's study, a thesis / dissertation must be submitted and upon successful defence, the candidate will be granted a Ph.D / a Masters' degree. 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. Meanwhile Master candidates' dissertation must not exceed 60,000 words and complete their studies within 8 semesters.

PROGRAMME FEES

https://study.um.edu.my

CANDIDACY

	[BVA] DOCTOR OF PHILOSOPHY (BY RESEARCH)		[BMA] MASTER OF BUILT ENVIRONMENT (BY RESEARCH)	
	FULL TIME	**PART TIME**	**FULL TIME**	**PART TIME**
Minimum period	4 semesters	6 semesters	2 semesters	4 semesters
Graduate on time	42 months from first registration	42 months from first registration	-	-
Maximum period	12 semesters	16 semesters	8 semesters	12 semesters

REGISTERED CANDIDATE

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

CANDIDATURE REQUIREMENTS

1. Attend at least 3 credits of **[Code: BVX8001/BMX7001] Research Methodology Course not later than the second (2nd) semester** of candidature;
2. Candidates need to present his/her **initial research proposal in the Pre-Research Proposal at the end of Research Methodology Course**;
3. Fulfill attendance requirements for the **University Bahasa Malaysia course not later than the second (2nd) semester** of candidature (International Students only);
4. Present research proposal at **Proposal Defence not later than the second (2nd) semester** of candidature;
5. Present research progress at **Candidature Defence not later than the fifth (5th) semester** of candidature;
6. For PhD candidates only, present research progress at **Thesis Seminar before the submission of thesis for examination**. This is not applicable to Master' candidates.
7. Must show proof of acceptance for publication as per the following (according to the criteria set in the publication guidelines), prior to graduation:

   For PhD candidates

   - at least one (1) journal article indexed in Web of Science (WoS) OR;
   - at least one (1) journal article indexed in Scopus Q1/Q2 OR;
   - at least two (2) journal articles indexed in Scopus/Emerging Sources Citation Index (ESCI)/ERA Journal List (Australian Research Council) OR;
   - at least one (1) book publication published by Web of Science (WoS) Master Book List or Universiti Malaya Press or Dewan Bahasa dan Pustaka or Majlis Penerbitan Ilmiah Malaysia (MAPIM) or any publisher recognized and listed by the Responsibility Centre (RC) OR:
   - at least two (2) chapters in book publication published by Web of Science (WoS) Master Book List or Universiti Malaya Press or Dewan Bahasa dan Pustaka or Majlis Penerbitan Ilmiah Malaysia (MAPIM) or any publisher recognized and listed by the RC. Two (2) chapters from different books are equivalent to one (1) publication.

   For Master by Research candidates

   - at least one (1) journal article indexed in Web of Science (WoS) OR;
   - at least one (1) journal article indexed in the citation database of Scopus/ Emerging Sources Citation Index (ESCI) / ERA Journal List (Australian Research Council) OR;
   - at least one (1) book publication published by Web of Science (WoS) Master Book List or Universiti Malaya Press or Dewan Bahasa dan Pustaka or Majlis Penerbitan Ilmiah Malaysia (MAPIM) or any publisher recognized and listed by the RC OR:
   - at least one (1) chapter in book publication published by Web of Science (WoS) Master Book List or Universiti Malaya Press or Dewan Bahasa dan Pustaka or Majlis Penerbitan Ilmiah Malaysia (MAPIM) or any publisher recognized and listed by the RC.

8. Any updated requirements stipulated in Rules and Regulations (Doctoral Degree / Master's Degree) Universiti Malaya from time to time.

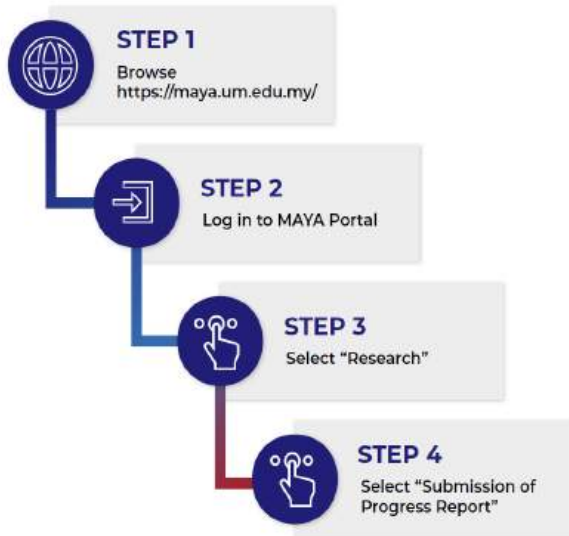
ADDITIONAL REQUIREMENTS

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

PROGRESS REPORT

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

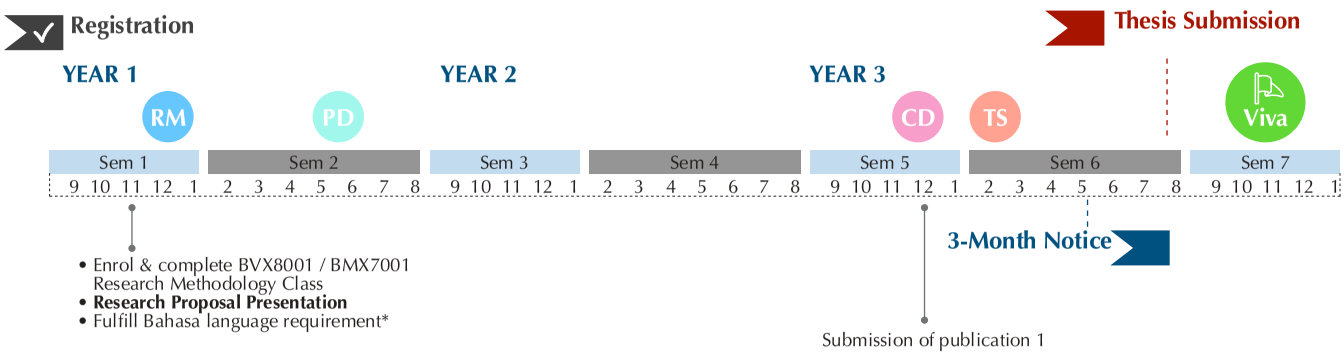
A candidate whose **progress is satisfactory shall be recommended to continue** with his candidature. A candidate whose **progress is not satisfactory for two (2) consecutive semesters shall have his candidature terminated** by the University. Please make sure the following steps are followed to ensure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



IDEAL TIMELINE FOR GRADUATE ON TIME (GoT) - PHD PROGRAMME

PhD candidates may need to complete the Viva-voce session latest by 42 months of the candidacy or during Semester 7 and fulfil publication requirements according to the criteria set in the publication guidelines. The recommended timeline to graduate on time is based on the figure below.

Phd (ideal) timeline – Graduate on Time



CANDIDATURE SEMINAR

1. **Submission for the Proposal Defence (PD)**

   Candidates are required to submit the Submission Form, Turnitin report and three (3) copies of the complete research proposal report to the FBE Postgraduate Office, which includes the following:
   - Name and registration number;
   - Title of thesis/dissertation;
   - Introduction, statement of problem and scope of research;
   - Research objective;
   - Summary of literature review;
   - Description of conceptual framework or summary of experimental methods or summary of research design and required equipment;
   - Importance and relevance of study;
   - Preliminary findings/pilot test (initial findings, if any)
   - Proposed work schedule based on the designated date of submission of thesis/ dissertation; and
   - Brief bibliography.

2. **Submission for the Confirmation Defence** (*applicable for direct admission / fast track candidates*)

   Candidates are required to submit three (3) copies of a complete research progress report to the FBE Postgraduate Office which includes the following:
   - Name and registration number;
   - Title of thesis/dissertation;
   - Abstract (500 words in Bahasa Melayu and English);
   - Introduction, statement of problem and scope of research;
   - Research objective;
   - Complete literature review;
   - Solid research methodology;
   - Importance and relevance of study;
   - Preliminary findings/pilot test (if any);
   - Proposed work schedule based on the designated date of submission of thesis/ dissertation; and
   - Brief bibliography.

3. **Submission for the Candidature Defence (CD)**

   Candidates are required to submit the Turnitin report and three (3) copies of a complete research progress report to the FBE Postgraduate Office not later than two (2) weeks before the date of the presentation, which includes the following:
   - Name and registration number;
   - Title of thesis/dissertation;
   - Abstract (500 words in Malay and English);
   - Objective and Statement of Problem
   - Importance and relevance of the study;
   - Brief and concise literature review;
   - Credible research methodology;

- Research findings that have been obtained to this point;
- Brief and concise bibliography;
- Research plan that will lead to the submission of the dissertation/thesis on the designated date; and
- List of publications or conference papers presented during the candidature period.

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4. **Submission for the Thesis Seminar**

   Candidates shall submit presentation notes with abstract to the Postgraduate Office not later than three (3) working days before the date of presentation. This applies only for PhD candidates.

5. **Submission of Thesis for Examination**

   Candidates shall submit their thesis for examination after the minimum period and within the maximum period of the candidature. Candidate must ensure that they will submit the thesis with the title which has been approved by the Faculty prior to submission of the thesis for examination. Failure to do so shall be deemed a failure in the examination of the thesis unless an extension to the prescribed period is approved by the Senate. Candidates are not allowed to withdraw from an examination for a thesis where the thesis has already been submitted for examination. Candidates are advised to refer to the latest Guidelines for the Preparation of Research Reports.

FAILED AND TERMINATED FROM PROGRAMME OF STUDY

Based on the **Universiti Malaya (Doctoral Degree) Regulations 2024** and **Universiti Malaya (Master's Degree) Regulations 2024** stated that a candidate is termed as failed and terminated from the programme of study if:

1. The candidate's **progress report is unsatisfactory for two (2) consecutive semesters**.
2. **Fails in his/her Candidature Defense presentation twice (2)**.
3. **Fails in the thesis or dissertation's examination** and viva voce.
4. **Fails to fulfil the conditions and graduation requirements of the programme of study within the specified maximum** duration.
5. **Failure to renew his candidature for two (2) consecutive semesters**.
6. The candidate was found to **plagiarise his thesis or dissertation** as stipulated under the Universiti Malaya (Discipline of Students) Rules 2024.
7. Candidate was found to have **given false information pertaining to his admission** to the University or committed any academic dishonesty other than that stipulated in the Universiti Malaya (Discipline of Students) Rules 2024.

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

A program leading to a doctoral degree (PhD) within the same research area is possible and conversion from Master to PhD is based on merits. The PhD

Candidacy is for a period of four (4) semesters (minimum) and up to twelve (12) semesters (maximum) counted from candidates' first registration during Master's programme. An application for this option should be made no later than twelve (12) months from candidate's active status (AK).

TERMS AND REQUIREMENTS

A full-time Master's by research candidate may be considered for a change in his candidature status to a full-time Doctoral programme by research, subject to the following conditions:

1. The duration of **application for the change of candidature is twelve (12) months** for full-time candidate OR **twenty-four (24) months** for part-time candidate from the commencement date of the registration as Active (AK) for the Master's programme;
2. Passed Research Methodology course;
3. Submit a **written application to the Dean of the faculty** using the form provided;
4. Submit a **Supervisor/s'** and **Head of Department's** report with supporting documents;
5. Submit **one (1) research report** regarding:
   - introduction and scope of research;
   - research objectives;
   - research methodology;
   - research plans leading to the Doctoral programme.
6. Submit **research findings during the duration of the Master's programme** which is:
   - a seminar presentation at the university, national or international level, and
   - a research findings accepted for publication based on the University's decision; OR
   - a patent application with pending approval (patent pending) or has been approved and a seminar presentation at the university, national or international level
7. A full-time candidate must **present their research findings in one (1) seminar** in front of a panel of assessors consisting of two (2) experts from within or outside the University in the field concerned as determined by the Faculty.
8. The candidature duration of the Master's degree is taken into account in the duration of the Doctoral programme by research.
9. A full-time candidate who has been approved for a change in candidature status shall register for the Doctoral programme by research not later than the second lecture week of the following semester.
10. A full-time candidate who has been approved for a change in candidature status need not to retake the Research Methodology course at the Doctoral programme by research level.
11. A full-time candidate who has been approved for a change in candidature status shall meet the graduation requirement.

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

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

UNSATISFACTORY (unacceptable & requires major revision)	**SATISFACTORY** (acceptable with major revision)	**GOOD** (acceptable with minor revision)	**EXCELLENT** (acceptable with minor or no revision)
0 - 4	**5 - 6**	**7 - 8**	**9 - 10**
Title and Abstract (5%)			
The title does not reflect the proposal. The abstract fail to address the following: • the research purpose and objectives • summarize methods used • highlight the research gap	The title reflects the proposal to some extent. The abstract attempt to address most of the following: • the research purpose and objectives • summarize methods used • highlight the research gap	The title appropriately reflects the proposal. The abstract addresses all of the following clearly: • the research purpose and objectives • summarize methods used • highlight the research gap	The title aptly reflects the proposal. The abstract addresses all of the following very clearly: • the research purpose and objectives • summarize methods used • highlight the research gap
Introduction (25%)			
The introduction fails to address most of the following: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction attempts to address most of the following: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction addresses all the following appropriately: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction addresses all the following very clearly: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)
Literature review (25%)			
The **review fails to address most** of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. Summarise methods used • Attention is given to different perspectives, threats to validity, and opinion vs evidence.	The review **attempts to address most** of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs evidence.	The review appropriately addresses all of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs evidence.	The review aptly addresses all the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs evidence.

Conceptual Framework / Methods / Approach (20%)			
The descriptions of the conceptual framework and methodology **fails to address most** of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method	The descriptions of the conceptual framework and methodology **attempts to address most** of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method	The descriptions of the conceptual framework and methodology appropriately address all of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method	The descriptions of the conceptual framework and methodology aptly address all of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method
Summary / Conclusion (5%)			
The summary/conclusion fails to address most of the following: • expected research outcome • coherent connection between parts of the proposal • preliminary findings (if applicable).	The summary/conclusion attempts to address most of the following: • expected research outcome • coherent connection between parts of the proposal • preliminary findings (if applicable).	The summary/conclusion appropriately addresses all of the following: • expected research outcome • coherent connection between parts of the proposal • preliminary findings (if applicable).	The summary/conclusion aptly addresses all of the following: • expected research outcome • coherent connection between parts of the proposal • preliminary findings (if applicable).
Academic Style, Language and References (10%)			
• No consistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language carries inappropriate tone and use of vague as well as inaccurate terminology, expressions and signposting. Language inaccuracies impede the readability of the proposal. • Significant editing needed. • Several errors per paragraph and informal language used in multiple instances. • The reference list is incomplete and inaccurate.	• Inconsistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language clearly lacks formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. Language inaccuracies impede the full understanding of the proposal. • Moderate editing needed. • The reference list is incomplete and / or contains some inaccuracies. • Adherence to word limit; not more than 500 words (abstract), 7,000 words (proposal report excluding reference)	• Slightly lacking in consistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language slightly lacks formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. • Some language errors are present but they do not affect a full understanding of the proposal. • The reference list is mostly complete and accurate. • Adherence to word limit; not more than 500 words (abstract), 7,000 words (proposal report excluding reference)	• Consistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language demonstrates formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. • There might be minimal first draft slips. • The reference list is complete and accurate. • Adherence to word limit; not more than 500 words (abstract); 7,000 words (proposal report excluding reference)

• No adherence to word limit; not more than 500 words (abstract), 7,000 words (proposal report excluding reference)			
Communication / Presentation (Q&A) (10%)			
The candidate fails to demonstrate the following: • Present research information in almost no logical sequence. • Express ideas clearly, fluently, and confidently. • Not able to answer most of the questions asked.	The candidate attempts to demonstrate most of the following: • Present research information in less logical sequence. • Express ideas clearly, fluently, and confidently. • Able to answer questions asked.	The candidate demonstrates all the following appropriately: • Present research information in sequence that can be followed. • Express ideas clearly, fluently, and confidently. • Good ability to answer questions asked.	The candidate demonstrates all the following very clearly: • Present research information in a logical, interesting and effective sequence and easy to follow. • Express ideas clearly, fluently, and confidently. • Very good ability to answer questions asked.
TOTAL MARKS: 100%			

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

UNSATISFACTORY (unacceptable & requires major revision)	**SATISFACTORY** (acceptable with major revision)	**GOOD** (acceptable with minor revision)	**EXCELLENT** (acceptable with minor or no revision)
0 - 4	**5 - 6**	**7 - 8**	**9 - 10**
Introduction (10%)			
The introduction fails to address most of the following: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction attempts to address most of the following: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction addresses all the following appropriately: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)	The introduction addresses all the following very clearly: • problem/issues • overview of a research framework • research questions / objectives • significance of the study • operational terms/ definitions (if applicable)

Literature review (25%)			
The review fails to address most of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs. evidence.	The review attempts to address most of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs. evidence.	The review appropriately addresses all of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs. evidence.	The review aptly addresses all of the following: • Narrative integrates critical and logical details from the peer-reviewed theoretical and research literature. • Attention is given to different perspectives, threats to validity, and opinion vs. evidence.
Conceptual Framework / Methods / Approach (20%)			
The descriptions of the conceptual framework and methodology fails to address most of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method • validity and reliability / trustworthiness approaches • ethical aspects and issues • strengths and weakness of approach, technique, or procedures used	The descriptions of the conceptual framework and methodology attempts to address most of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method • validity and reliability / trustworthiness approaches • ethical aspects and issues • strengths and weakness of approach, technique, or procedures used	The descriptions of the conceptual framework and methodology appropriately address all of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method • validity and reliability / trustworthiness approaches • ethical aspects and issues • strengths and weakness of approach, technique, or procedures used	The descriptions of the conceptual framework and methodology aptly address all of the following: • theoretical framework • research sample, sample procedure and technique • instrumentation • data collection procedures • data analysis method • validity and reliability / trustworthiness approaches • ethical aspects and issues • strengths and weakness of approach, technique, or procedures used
Results and Discussion (20%)			
The results and discussion fail to illustrate most of the following: • Answer the research questions and / or fulfill research objectives / hypotheses raised. • Results are well analysed and interpreted. • Findings address the research problems/ issues.	The results and discussion illustrate most of the following: • Answer the research questions and /or fulfill research objectives / hypotheses raised. • Results are well analysed and interpreted. • Findings address the research problems/ issues.	The results and discussion appropriately illustrate all of the following: • Answer the research questions and /or fulfill research objectives / hypotheses raised. • Results are well analysed and interpreted. • Findings address the research problems/ issues.	The results and discussion aptly illustrate all of the following: • Answer the research questions and / or fulfill research objectives / hypotheses raised. • Results are well analysed and interpreted. • Findings address the research problems/ issues.

• Show the research significance and contribution.	• Show the research significance and contribution.	• Show the research significance and contribution.	• Show the research significance and contribution.
Conclusion (10%)			
The conclusion fails to do the following: • Restate the objectives • Summarize the findings • Provide the research continuation plan.	The conclusion vaguely does the following: • Restate the objectives • Summarize the findings • Provide the research continuation plan.	The conclusion clearly do the following: • Restate the objectives • Summarize the findings • Provide the research continuation plan.	The conclusion clearly, and convincingly do the following: • Restate the objectives • Summarize the findings • Provide the research continuation plan.
Academic Style, Language and References (10%)			
• No consistent use of style for references, in-text citations, proposal structure and specific mechanics. • Significant editing needed. • Several errors per paragraph and informal language used in multiple instances • The reference list is incomplete and inaccurate. • No adherence to word limit; not more than 500 words (abstract), 10,000 words (proposal report excluding reference)	• Inconsistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language clearly lacks formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. Language inaccuracies impede the full understanding of the proposal. • Moderate editing needed. • The reference list is incomplete and / or contains some inaccuracies. • Adherence to word limit; not more than 500 words (abstract), 10,000 words (proposal report excluding reference)	• Slightly lacking in consistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language slightly lacks formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. Some language errors are present but they do not affect a full understanding of the proposal. • The reference list is mostly complete and accurate. • Adherence to word limit; not more than 500 words (abstract), 10,000 words (proposal report excluding reference)	• Consistent use of style for references, in-text citations, proposal structure and specific mechanics. • The academic language demonstrates formal and objective tone and use of clear, precise and accurate terminology, expressions and signposting. There might be minimal first draft slips. • The reference list is complete and accurate. • Adherence to word limit; not more than 500 words (abstract), 10,000 words (proposal report excluding reference)

Communication / Presentation (Q&A) (5%)			
The candidate fails to demonstrate the following: • Present research information in almost no logical sequence. • Express ideas clearly, fluently, and confidently. • Not able to answer most of the questions asked.	The candidate attempts to demonstrate most of the following: • Present research information in less logical sequence. • Express ideas clearly, fluently, and confidently. • Able to answer questions asked.	The candidate demonstrates all the following appropriately: • Present research information in sequence that can be followed. • Express ideas clearly, fluently, and confidently. • Good ability to answer questions asked.	The candidate demonstrates all the following very clearly: • Present research information in a logical, interesting and effective sequence and easy to follow. • Express ideas clearly, fluently, and confidently. • Very good ability to answer questions asked.
TOTAL MARKS: 100%			

MASTER OF REAL ESTATE (COURSEWORK)

Conventional and Open & Distance Learning (ODL)

[BQA] MASTER OF REAL ESTATE (COURSEWORK)

Administrative Unit
PROGRAMME COORDINATOR

Dr. Ain Farhana Jamaludin
Coordinator for Master of Real Estate (by Coursework)

Tel: 03-7967 7957
E-mail: ain_farhana@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Jayasutha a/p Kamrajoo
Senior Administrative Assistant (Master of Real Estate & Master by Research)

Telephone: 03-7967 6856
Email: jayasutha@um.edu.my

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 being eight (8) semesters (four years).
- Classes will be conducted through a physical after-office and / or weekend session for Conventional Mode candidates at the Universiti Malaya's Faculty of Built Environment.
- The Online classes will only be conducted for the Open & Distance Learning (ODL) candidates.
- The medium of instruction is taught fully in English.
- The program is delivered through lectures, tutorials and seminars.

CONFERMENT OF DEGREE

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

PROGRAMME FEES

https://study.um.edu.my

PROGRAMME STRUCTURE AND ASSESSMENT

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

PROGRAMME EDUCATIONAL OBJECTIVE (PEO)

PEO1	Graduates who demonstrate mastery of theoretical knowledge and competence in the real estate industry.
PEO2	Graduates who can apply work skills effectively, creatively and innovatively.
PEO3	Graduates who have entrepreneurial and glocal leadership qualities.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Apply the real estate knowledge and skills in the real estate industry.
PLO2	Adapt the relevant approaches related to real estate.
PLO3	Use up-to-date techniques, resources and/or standards in their jobs.
PLO4	Interact professionally with clients or stakeholders.
PLO5	Develop analytical and problem solving skills.
PLO6	Able to make decisions, lead, motivate and communicate effectively in a career.

PLO7	Integrate personal skills for professional development and real estate entrepreneurship.
PLO8	Demonstrate ethical values and professionalism in performing tasks to meet the needs of clients, the profession and society.

COURSE STRUCTURE

Master of Real Estate (*Conventional*) Semester 1 Intake

COMPONENTS	SEMESTERS									TOTAL CREDITS
	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 *(prerequisite subject)*	3	BQA 7018	Research Project I *(prerequisite subject)*	6	BQA 7019	Research Project II	6	39
	BQA 7003	Development Economics and Planning	4	BQA 7006	Real Estate Development Process	4				
	BQA 7012	Real Estate Law	4	BQA 7015	Real Estate Market Research	4				
	BQA 7013	Real Estate Finance and Investment	4	BQA 7016	Real Estate Valuation	4				
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQA 7009	Corporate Real Estate	3	BQA 7009	Corporate Real Estate	3				6
	BQA 7010	Real Estate Project Management		BQA 7010	Real Estate Project Management					
	BQA 7011	Sustainable Real Estate Development		BQA 7011	Sustainable Real Estate Development					
TOTAL CREDIT										45

Master of Real Estate (*Conventional*) Semester 2 Intake

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

COURSE STRUCTURE

Master of Real Estate (*Online & Distance Learning - ODL*) Semester 1 Intake

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

Master of Real Estate (*Online & Distance Learning - ODL*) Semester 2 Intake

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

PREREQUISITE COURSE

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

PROGRAMME CORE COURSES

BQA 7001 / BQA 7001D — **RESEARCH METHODOLOGY IN REAL ESTATE**

3 credits

This course provides an understanding and guidance on research and research methodology. Students are provided with the knowledge on literature review and the design of research framework. At the end of this course, the students will be able to prepare a research proposal.

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

- Review relevant literature for the proposed study
- Propose a significant research problem with research questions, aim, objectives and significance of study
- Adopt suitable methodology for the proposed study

BQA 7003 / BQA 7003D **DEVELOPMENT ECONOMICS AND PLANNING**

4 credits

This course provides an overview of economics and planning in real estate development. Among others this course covers land economics, urbanisation issues and government intervention in real estate market.

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

- Illustrate theories and issues related to real estate development and design.
- Describe real estate issues in the real estate development process.
- Evaluate problem solving measures in land development.

BQA 7006 / BQA 7006D **REAL ESTATE DEVELOPMENT PROCESS**

4 credits

This course covers stakeholders and processes in real estate development. It also includes marketing and appraisal of the proposed development project.

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

- Identify real estate development process models.
- Explain relevant attributes of a successful property development.
- Appraise the performance and viability of the development project.

BQA 7012 / BQA 7012D **REAL ESTATE LAW**

4 credits

The course provides students knowledge in law related to real estate development which includes land, building and environmental laws [Federal Constitutions, National Land Code, Town and Country Planning Act 1976, Local Government Act 1976, Street, Drainage and Building Act 1974, Environmental Quality Act 1974 and Housing Development Act (Control and Licensing) 1966.

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

- Explain the legal framework in real estate law.
- Relate the different law provisions to real estate development stages.
- Evaluate the importance of various law provisions for real estate development.

BQA 7013 / BQA 7013D **REAL ESTATE FINANCE AND INVESTMENT**

4 credits

This course provides an understanding of the types of real estate finance system available at Malaysian and global contexts. The course also includes the process used by financial institutions in Malaysia in determining the financial position of the bridging and end financing of a development project. It also provides an understanding of various types of investment, investment analysis techniques and risk elements in real estate.

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

- Identify the principles of financial and investment property.
- Evaluate the performance of real estate investment.
- Use real estate financial analysis and investment techniques in decision-making related to real estate investment

BQA 7018 / BQA 7014D **RESEARCH PROJECT I**

6 credits

This course involved a sustained, in-depth and research-informed project in consultation with the supervisor. At this stage, students will produce Chapter 1 to Chapter 3, which includes the introduction, literature review and research methodology.

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

- Develop concepts and frameworks based on issues in the field of real estate.
- Write a literature review of the research project.
- Apply a suitable research methodology for the research project.

BQA 7015 / BQA 7015D **REAL ESTATE MARKET RESEARCH**

4 credits

This course covers property market research topics including types of data, methods of data collection, survey design, sampling, data analysis, forecasting and market research findings.

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

- Explain the real estate market research process.
- Evaluate real estate market research findings.
- Report real estate market research findings.

BQA 7016 / BQA 7016D **REAL ESTATE VALUATION**

4 credits

This course covers methods of valuation and discounting techniques; Market, Cost and Income approaches as outlined by the Malaysian Valuation Standards in determining the Market Value of various types of property.

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

- Explain the different property valuation approaches.
- Apply the valuation methods and discounting techniques.
- Justify the suitability of valuation methods for different types of property.

BQA 7019 / BQA 7017D **RESEARCH PROJECT II**

6 credits

This course involved a sustained, in-depth and research-informed project in consultation with the supervisor. At this stage, students will produce the final project report.

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

- Conduct the collection and analysis of data using appropriate techniques.
- Prepare a report of research projects using appropriate format and recommended academic references and citation style.
- Demonstrate the knowledge acquired from the programme in the research project.

PROGRAMME ELECTIVE COURSES

BQA 7009 / BQA 7009D **CORPORATE REAL ESTATE**

3 credits

This course provides an understanding on the management and strategic planning of corporate real estate assets. This course introduces the tools and techniques to develop corporate real estate (CRE) strategies. The course also covers procurement analysis, corporate relocation, space strategy and corporate real estate asset performance measurement.

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

- Explain the roles of corporate real estate asset in an organisation.
- Propose suitable strategies in corporate real estate.
- Evaluate corporate real estate holdings performance and tenure decision.

BQA 7010 / BQA 7010D **REAL ESTATE PROJECT MANAGEMENT**

3 credits

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.

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

- Evaluate constraints, assumptions and other activities in real estate project management.
- Formulate measurable criteria for assessment of project performance and success.
- Identify the key needs and interests of stakeholders for successful execution of projects.

BQA 7011 / BQA 7011D **SUSTAINABLE REAL ESTATE DEVELOPMENT**

3 credits

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 are able to:

- Identify sustainable development principles and practices in real estate development.
- Explain sustainable development principles in real estate development.
- Integrate sustainable development ethics and values in real estate development.

MASTER OF PROJECT MANAGEMENT (COURSEWORK)

Conventional and Open & Distance Learning (ODL)

[BQB] MASTER OF PROJECT MANAGEMENT (COURSEWORK)

Administrative Unit
PROGRAMME COORDINATOR

Ts. Dr. Muhammad Hadi Mustafa
Coordinator for Master of Project Management (by Coursework)

Tel: 03-7967 4493
E-mail: hadimustafa@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Noor Hafizah Abdullah
Administrative Assistant (Master by Coursework)

Telephone: 03-7967 6856
Email: fyza@um.edu.my

PROGRAMME OVERVIEW

This programme intends to produce knowledgeable and competent project management professionals who are ethically and socially responsible, and sensitive to the needs for promoting sustainability. Students are trained with the skills to handle problems, challenges and a project management perspective in a global context. Among others, disciplines stressed in this programme 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 programme also allows exploration of other disciplines that are relevant to project management including Health and Safety Management, Information Technology Management for Projects, Legal Studies for Project Management as well as Assets and Facilities Management. The component that is given emphasis in this programme 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.

PROGRAMME OBJECTIVES

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

DELIVERY AND ATTENDANCE

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

CONFERMENT OF DEGREE

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

PROGRAMME FEES

https://study.um.edu.my

PROGRAMME STRUCTURE AND ASSESSMENT

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

Programme Educational Objectives (PEO)

Graduate will be able to:

PEO1	Graduates who demonstrate a mastery of theoretical knowledge and critical thinking in project management.

PEO2	Graduates who comprehend problem-solving, creative and innovative skills in project management competencies.
PEO3	Graduates who pursue knowledge advancement in project management ethically and professionally through further learning and research.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Demonstrate in-depth comprehension of the knowledge areas in the project management body of knowledge.
PLO2	Apply project management knowledge critically and integratively to manage and resolve complex problems and issues in project environment.
PLO3	Apply the tools and techniques related to project management in work environment.
PLO4	Assess strategic options and being able to make decisions with supporting evidence and providing good judgement.
PLO5	Demonstrate the ability to provide clear, reasonable and professional views in all forms of communications.
PLO6	Demonstrate significant leadership and interpersonal skills in managing work within project environment independently and collaboratively.
PLO7	Exemplify self-advancement through continuous academic and professional development in project management.
PLO8	Contribute ethically and professionally to social, technological and economic development in the project environment both nationally and internationally.

COURSE STRUCTURE

Master of Project Management (*Conventional*)

For every semester, these courses which are **BQB7001 – Research Methodology for Project Management, BQB7017 – Research Project I and BQB7018 – Research Project II** are offered.

Semester 1 Intake - Year 1 (*Conventional*)

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

Semester 1 Intake - Year 2 (*Conventional*)

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

Master of Project Management (*Conventional*)

For every semester, these courses which are **BQB7001 – Research Methodology for Project Management, BQB7017 – Research Project I and BQB7018 – Research Project II** are offered.

Semester 2 Intake - Year 1 (*Conventional*)

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

Semester 2 Intake - Year 2 (*Conventional*)

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

COURSE STRUCTURE

Master of Project Management (*Open & Distance Learning - ODL*)

For every semester, these courses which are **BQB7001D – Research Methodology for Project Management, BQB7002D – Research Project I and BQB7015D – Research Project II** are offered.

Semester 1 Intake - Year 1 (*Open & Distance Learning - ODL*)

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

Semester 1 Intake - Year 2 (*Open & Distance Learning - ODL*)

COMPONENTS	SEMESTERS									TOTAL CREDIT
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7015D	Research Project II *(prerequisite subject)*	7							13
	BQB 7009D	Value and Risk Management for Projects	3							
	BQB 7010D	Project Investment and Financial Management	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQB 7013D	Assets and Facilities Management	3							3
	BQB 7014D	IT Management for Projects								
									TOTAL CREDIT	16

Master of Project Management (*Open & Distance Learning - ODL*)
For every semester, these courses which are **BQB7001D – Research Methodology for Project Management, BQB7002D – Research Project I and BQB7015D – Research Project II** are offered.

Semester 2 Intake - Year 1 (*Open & Distance Learning - ODL*)

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

Semester 2 Intake - Year 2 (*Open & Distance Learning - ODL*)

COMPONENTS	SEMESTERS									TOTAL CREDITS
	SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			SEM 1: NORMAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQB 7015D	Research Project II *(prerequisite subject)*	7							13
	BQB 7009D	Value and Risk Management for Projects	3							
	BQB 7010D	Project Investment and Financial Management	3							
ELECTIVE SUBJECTS (CHOOSE 1 ONLY)	BQB 7013D	Assets and Facilities Management	3							3
	BQB 7014D	IT Management for Projects								
									TOTAL CREDIT	16

PREREQUISITE COURSE

Candidates need to register and complete the **BQB7001/BQB7001D – Research Methodology for Project Management** before proceeding with **BQB7017/ BQB7002D – Research Project I** and then continue with **BQB7018/ BQB7015D – Research Project II** in the following semester. For every semester, the following courses: **BQB7001/BQB7001D – Research Methodology for Project Management, BQB7017/ BQB7002D – Research Project I** and **BQB7018/BQB7015D – Research Project II** are also offered.

PROGRAMME CORE COURSES

BQB 7001 / BQB 7001D — **RESEARCH METHODOLOGY FOR PROJECT MANAGEMENT**

3 credits

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.

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

- Propose different types of qualitative and quantitative methods related to the assessment, methods of project management, data interpretation and report writing.
- Evaluate research reports with critical thinking and problem-solving skills.
- Select the theory and technique development and implementation of research in related fields.

BQB 7017 / BQB 7002D — **RESEARCH PROJECT I**

5 credits

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.

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

- Evaluate fundamental knowledge including theories, concepts, frameworks, literature and issues in the field of project management.
- Manage the collection and analysis of secondary data using appropriate techniques in an ethical and professional manner.
- Identify research methods and analytical techniques that are appropriate to the chosen research topic.

BQB 7018 / BQB 7015D **RESEARCH PROJECT II**

7 credits

Research projects involving the production of scientific information through research methodologies that have been studied. Research will be conducted on the basis of the title and the scope proposed by students and supervised regularly by designated supervisors. Time commitment involves the formation justification of project planning, project implementation, collecting research data, reading or literature search, and the writing of the results of the project. At this stage, students will produce a balance of about 4-6 comprising about data collection, analysis and conclusions. It also includes a complete research report produced by integrated with previous chapters that have been generated during the course investigational Project I and comply with the procedures earnings reports research projects required by the university.

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

- Carry out the collection and analysis of primary data using appropriate techniques in an ethical and professional manner.
- Evaluate the achievement of the objectives of research, the research questions / hypotheses and research findings.
- Compose a report of research projects using appropriate format and recommended academic references and citation style.

BQB 7004 / BQB 7004D **PRINCIPLES OF PROJECT MANAGEMENT**

3 credits

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).

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

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

BQB 7005 / BQB 7005D **PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT I**

3 credits

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:

- Project Integration Management,
- Project Scope Management,
- Project Schedule Management,
- Project Cost Management, and
- Project Quality Management.

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

- Explain about Project Management Body of Knowledge (PMBOK).
- Justify best practices recognized by the discipline of project management for implementation into a successful project management.
- Propose a successful project management disciplines through a strong foundation, intellectually, and professionally.

BQB 7006 / BQB 7006D **ORGANIZATIONS AND STRATEGIC MANAGEMENT FOR PROJECTS**

3 credits

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.

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

- Interpret the concept and principles of organization and strategic management for the project.
- Specify the context of strategic management and project organization.
- Solve the relate it to organisation and project strategic management.

BQB 7016 / BQB 7016D **INTEGRATED PROJECT**

4 credits

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.

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

- Appraise the interests of the combination and integration of knowledge.
- Relate concepts, principles, techniques and the academic knowledge acquired.
- Use the knowledge gained and confidence to solve problems.

BQB 7008 / BQB 7008D **PROJECT MANAGEMENT PROFESSIONAL DEVELOPMENT II**

3 credits

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:

- Project Resource Management,
- Project Communication Management,
- Project Risk Management,
- Project Procurement Management, and
- Project Stakeholder Management.

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

- Explain about Project Management Body of Knowledge (PMBOK).
- Identify best practices recognized by the discipline of project management for implementation into a successful project management.
- Propose a successful project management disciplines through a strong foundation, intellectually, and professionally.

BQB 7009 / BQB 7009D **VALUE AND RISK MANAGEMENT FOR PROJECTS**

3 credits

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.

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

- Interpret the value and risk management aspects that are needed in projects.
- Explain the concepts and principles of value and risk management in projects.
- Develop the skills and methods of implementation of value and risk management in the context of projects.

BQB 7010 / BQB 7010D **PROJECT INVESTMENT AND FINANCIAL MANAGEMENT**

3 credits

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.

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

- Explain the financial concepts, especially opportunity cost and time value of money.
- Evaluate the ways in which business plans are developed and the role of projected financial statements in the planning process.
- Adapt financial management methods professionally and ethically for short-term and long-term business finance implications

PROGRAMME ELECTIVE COURSES

BQB 7011 / BQB 7011D **HEALTH AND SAFETY MANAGEMENT**

3 credits

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 (FMA) 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.

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

- Develop perspectives on comprehensive occupational safety and health management.
- Coordinate the role of safety and health at all levels within the organisation including investigation and safety planning activities.
- Assess different perspectives of safety and health performance using the programme and procedures for effective implementation in the project.

BQB 7012 / BQB 7012D **LEGAL STUDIES FOR PROJECT MANAGEMENT**

3 credits

This course focuses on the legal issues that will emerge throughout the project management life cycle. It includes issues on rights and liabilities, agency and representation, formation and negotiation of contracts, as well as implications on project management and contract procurement strategy. This module will also touch on ethical and professionalism issues in project management, and provide exposure on the dispute avoidance and settlement methods.

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

- Interpret the legal issues related to rights and liabilities, agency and representation, formation and negotiation of contracts throughout the project management life cycle.
- Specify the legal implications on the issues related to ethics, project management and contract procurement strategy throughout the project management life cycle.
- Solve the conflict through dispute avoidance and settlement methods throughout the project management life cycle.

BQB 7013 / BQB 7013D **ASSETS AND FACILITIES MANAGEMENT**

3 credits

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.

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

- Understand the strategies and operational facility management.
- Translating the main capital through proper maintenance and achieve the value of the cost of daily operations
- Apply appropriate management theory to meet the core objectives of a business.

BQB 7014 / BQB 7014D **INFORMATION TECHNOLOGY 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:

- Integrate knowledge in a business context and technical developments of the management aspects of information technology in contemporary projects
- Use conceptual and analytical skills to the management of information technology projects
- Formulate comprehensive business and information technology strategy using skills acquired in managing complex projects.

MASTER OF FACILITIES AND MAINTENANCE MANAGEMENT (COURSEWORK)

Conventional and Open & Distance Learning (ODL)

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

Administrative Unit
PROGRAMME COORDINATOR

Sr Dr. Nur Farhana Azmi
Coordinator for Master of Facilities and Maintenance Management (by Coursework)

Tel: 03-7967 5391
E-mail: farhanazmi@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Noor Hafizah Abdullah
Administrative Assistant (Master by Coursework)

Telephone: 03-7967 6856
Email: fyza@um.edu.my

PROGRAM OVERVIEW

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

DELIVERY AND ATTENDANCE

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

CONFERMENT OF DEGREE

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

PROGRAMME FEES

https://study.um.edu.my

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO1	Graduates able to lead the Facilities and Maintenance Management field both in the public and private sectors.
PEO2	Graduates who are competent, creative and innovative in addressing current issues related to Facilities and Maintenance Management.
PEO3	Graduates who are ethical with entrepreneurial and professional qualities that contribute to sustainable development related to Facilities and Maintenance Management field.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Synthesize knowledge, skills and good management practice in the field of facilities management and building maintenance.
PLO2	Integrate knowledge and ability in solving building facilities problems with critical, creative and innovative approach.
PLO3	Communicate and work collaboratively in a learning environment ethically and professionally.
PLO4	Adapt application and systems to address defined and new situations in consultation works.
PLO5	Demonstrate significant autonomy, independence, leadership and interpersonal skills in collaborative learning.
PLO6	Apply latest development of techniques, resources and tools in facilities and maintenance management research.
PLO7	Demonstrate adherence to legal, ethical and professional code of practice in facilities and maintenance management.
PLO8	Demonstrate awareness for entrepreneurial skills and sustainable development projects.
PLO9	Exemplify self advancement through continuous academic and professional development in facilities and maintenance management.

COURSE STRUCTURE

Master of Facilities & Maintenance Management (*Conventional*) Semester 1 Intake

COMPONENTS	SEMESTERS									TOTAL CREDITS
	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 *(prerequisite subject)*	3	BQC 7015	Research Project *(prerequisite subject)*	12	BQC 7014	Digital Facilities Management	5	43
	BQC 7003	Organisational Behaviour and Resource Management	3	BQC 7013	Workplace, Productivity & Wellbeing	4				
	BQC 7004	Operation & Maintenance	4	BQC 7008	Financial & Business Management	4				
	BQC 7005	Total Asset & Facilities Management	4							
	BQC 7006	Procurement & Contract Management	4							
ELECTIVE SUBJECTS (CHOOSE 1)	BQC 7010	Sustainable & Environmental Management	3							3
	BQC 7011	Corporate Real Estate								
	BQC 7012	Principles of Project Management								
									TOTAL CREDIT	46

Master of Facilities & Maintenance Management (*Conventional*) Semester 2 Intake

COMPONENTS	SEMESTERS									TOTAL CREDITS
	SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			SEM 1: NORMAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQC 7001	Research Methodology *(prerequisite subject)*	3	BQC 7014	Digital Facilities Management	5	BQC 7015	Research Project *(prerequisite subject)*	12	43
	BQC 7008	Financial & Business Management	4				BQC 7003	Organisational Behaviour and Resource Management	3	
	BQC 7013	Workplace, Productivity & Wellbeing	4				BQC 7004	Operation & Maintenance	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		
							BQC 7012	Principles of Project Management		
									TOTAL CREDIT	46

PREREQUISITE COURSE

Candidates need to register and complete the **BQC7001/BQC7001D – Research Methodology** before proceed with **BQC7015/BQC7015D – Research Project** in the following semester.

COURSE STRUCTURE

Master of Facilities & Maintenance Management (*Online & Distance Learning - ODL*) Semester 1 Intake

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

Master of Facilities & Maintenance Management (*Online & Distance Learning - ODL*) Semester 2 Intake

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

PREREQUISITE COURSE

Candidates need to register and complete the **BQC7001/BQC7001D – Research Methodology** before proceed with **BQC7015/BQC7015D – Research Project** in the following semester.

PROGRAMME CORE COURSES

BQC 7001 / BQC 7001D **RESEARCH METHODOLOGY**

3 credits

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.

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

- Illustrate processes and methods in designing research in the field of facilities and maintenance management.
- Adapt research methods and systematic approaches in research planning.
- Display self advancement in making research plans.

BQC 7015 / BQC 7015D **RESEARCH PROJECT**

12 credits

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.

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

- Design research objectives based on problems in the field of Facilities and Maintenance Management.
- Perform empirical data collection based on identified research methodology.
- Analyze the data and findings of the study based on the objectives of the study.
- Present the result of the study to various groups effectively.

**** Pre-requisite: BQC7001/BQC7001D Research Methodology*

BQC 7003 / BQC 7003D **ORGANIZATIONAL BEHAVIOUR AND RESOURCE MANAGEMENT**

3 credits

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.

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

- Identify teamwork skills in management organization which include relationship of individual, industries and workplace environment
- Interpret knowledge of theories in organizational concept and effective resource management
- Explain issues and problems in organization and human behaviour through critical and practical approach.

BQC 7004 / BQC 7004D **OPERATION & MAINTENANCE**

4 credits

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.

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

- Propose procedures for operation and maintenance of asset and facilities
- Identify guideline and legislation in the current practices of asset and facilities maintenance
- Adapt techniques and technologies in asset and facilities maintenance

BQC 7005 / BQC 7005D **TOTAL ASSET AND FACILITIES MANAGEMENT**

4 credits

This module examines the financial and business management elements within facilities management context. Focus is given to the fundamental principles of financial management and the concept of best value in facilities management. Among the core components of this course appraise on the strategic analysis of business requirements, financial control, fundamental financial analysis tools and facilities management financial models. This module also covers the theories in forecasting and managing future financial requirements.

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

- Appraise the total asset & facilities management theory.
- Adapt strategic and operational total facilities management approaches to fulfil the core organizational objectives.
- Propose appropriate quality management approach in achieving value added in operational maintenance and facilities management.

BQC 7006 / BQC 7006D **PROCUREMENT & CONTRACT MANAGEMENT**

4 credits

This course introduces how business support are developed and outsourced competitively via strategic or conventional framework.Students will also learn how procurement (pre and post) of asset and facilities management are managed as part of the operational delivery of a built asset. In post procurement phase, it involves the creation, analysis, and execution of contract (i.e., SLA) by the parties to those contracts to ensure value for money and, added value is built-in, and risks are mitigated. SLAs are output-based in that their purpose is specifically to define what the customer will receive and experience. This course enables student to draft an SLA and logistics decisions-making to develop and implement reliable service, and predictable manner for measuring performance and innovative solutions.

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

- Explain the type, process, procedure, procurement and liability of contract.
- Integrate the key component parts in a Service Level Agreement
- Propose performance measurement system for facilities management service contract
- Develop service level agreement for facilities management service delivery.

BQC 7008 / BQC 7008D **FINANCIAL AND BUSINESS MANAGEMENT**

4 credits

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.

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

- Identify the theories and application of business and financial management in facilities management
- Appraise the suitable financial management techniques towards effective facilities and business performance
- Integrate the function of financial analysis in organizational decision making.

BQC 7013 / BQC 7013D **WORKPLACE, PRODUCTIVITY AND WELLBEING**

4 credits

Introduction to physical and environmental quality in the workplace, and ways of producing desirable environments in organization, energy aspects, resources and healthy work culture. This module aims to enable students to understand the role and utilisation of the physical asset within facilities management that could affect its occupant's productivity and wellbeing as well as the energy usage.

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

- Identify the importance of ergonomics, design principles and practices in the workplace.
- Adapt methods of workplace assessment and energy audit in buildings.
- Solve workplace performance and users wellbeing through sustainable or green building solutions.

BQC 7014 / BQC 7014D **DIGITAL FACILITIES MANAGEMENT**

5 credits

Candidate will learn and demonstrate the application and integration of Digitalization tool in FM. The initiation of digital FM will transform and provide new ways to the building industry. This course aims to enable students to acquire skills and knowledge on digital FM focusing on Building Information Modelling Facilities Management (BIMFM). The core relating to these two imperative areas of BIM and FM, starting from theory introduction, to hands on implementation of the theory and innovate tools.

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

- Acquire theoretical knowledge and good practice in digital construction and facilities management
- Integrate precise data and information requirements through BIM applications in facilities management.
- Develop digital analytical techniques in solving building facilities issues and challenges critically, creatively and innovatively.

PROGRAMME ELECTIVE COURSES

BQC 7010 / BQC 7010D **SUSTAINABLE AND ENVIRONMENTAL MANAGEMENT**

3 credits

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.

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

- Identify sustainable development principles and practices in facilities management
- Evaluate sustainable development principles in facilities management to mitigate environmental risks.
- Display professional skills in achieving sustainable environmental management system.

BQC 7011 / BQC 7011D **CORPORATE REAL ESTATE**

3 credits

This course provides an understanding on the management and strategic planning of corporate real estate assets. This course introduces the tools and techniques to develop corporate real estate (CRE) strategies. The course also covers procurement analysis, corporate relocation, space strategy and corporate real estate asset performance measurement.

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

- Illustrate the roles of corporate real estate asset in an organisation.
- Propose suitable strategies in corporate real estate.
- Evaluate corporate real estate holdings performance and tenure decision.

BQC 7012 / BQC 7012D **PRINCIPLES OF PROJECT MANAGEMENT**

3 credits

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)

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

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

MASTER OF ARCHITECTURE (COURSEWORK)

Conventional

[BQD] MASTER OF ARCHITECTURE (COURSEWORK)

Administrative Unit
PROGRAMME COORDINATOR

Mdm. Ati Rosemary Mohd Ariffin, PRBr
Coordinator for Master of Architecture (by Coursework)

Tel: 03-7967 5393
E-mail: aa_alambina@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Noor Hafizah Abdullah
Administrative Assistant (Master by Coursework)

Telephone: 03-7967 6856
Email: fyza@um.edu.my

PROGRAM OVERVIEW

The programme is serviced by highly qualified and experienced academic staff including four (4) Associate Professors, two (2) Associate Professor (Industry) and twelve (12) senior lectures/lecturers. Students are frequently assessed by professionally qualified architects who are at the fore front of the building industry through regular 'critique' 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 200 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 four (4) normal semesters and one (1) special semester or two (2) years and the maximum period is eight (8) semesters or four (4) years.
- The programme is offered by attendance physically at Universiti Malaya's Faculty of the Built Environment, Kuala Lumpur.
- The programme is delivered through formal lectures, studios, field trip, tutorials and coursework.

CONFERMENT OF DEGREE

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

PROGRAMME FEES

https://study.um.edu.my

PROGRAM STRUCTURE AND ASSESSMENT

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

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

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

PLO7	Command adequate ICT information management skills and practice the concept of lifelong learning by relating to resources for deeper applications in completing works related to the field of architecture.
PLO8	Command adequate management and entrepreneurial skills in the implementation of architectural projects optimally and professionally.

COURSE STRUCTURE

Master of Architecture (*Conventional*) Year 1

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

Master of Architecture (*Conventional*) Year 2

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

PROGRAMME CORE COURSES

BQD 7001 **ADVANCED ARCHITECTURAL DESIGN I**

7 credits

Through this course, students will:

- design a small-scale masterplan & its urban appraisal report.
- design a complex institutional building typology from the small-scale master plan, which addresses the architectural project issues, urban studies and sustainable design strategies.

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

- Appraise the urban development of selected location for planning a small-scale masterplan concept and design.
- Integrate the findings of precedent studies on climatically responsive buildings, green building approach, building performance and design simulation for a complex institutional building typology.
- Integrate passive and active architectural design strategies for a complex institutional building typology.
- Design appropriate architectural solutions for a complex institutional building typology via drawings and models in addressing the architectural project issues, urban studies and sustainable design strategies.

BQD 7002 **GREEN AND SUSTAINABLE TECHNOLOGY I**

3 credits

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:

- Building physics
- Design & fire protection
- Environmental performance
- Design integration of building servicesOther related topics
- The course will also involve precedents studies.

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

- Determine the advantages and disadvantages of conventional and 'green' building services.
- Illustrate elements of green building services and building environmental control strategies to enhance the ability to design according to the concept of sustainability.
- Analyse the applicability of green building services and building environmental control.

BQD 7003 **PROFESSIONAL PRACTICE**

3 credits

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:

- Types of practice
- Code of Conduct and Conditions of Engagement
- Marketing strategies
- Financial management, fees, remuneration and expenses
- Managing work distribution and human resources.

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

- Explain different types of architectural practices as professional business entities.
- Adapt principles of marketing strategies for architectural practices.
- Explain the fees, remuneration and expenses of an architectural practice.
- Explain the work distribution model in an architectural practice according to agreement of appointment and phases of work.

BQD 7004 ARCHITECTURAL THEORY AND PHILOSOPHY

3 credits

The course would cover the importance of architectural theories and philosophies as part of the design process with emphasis on knowledge and methods of design in creating meaningful design.

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

- Analyze the influence of various architectural movements of different eras, from the inception of architectural ideas and concepts to their final expressions in built form.
- Explain the theories, philosophies and manifestos of various architects or architectural movements based on their differing characters and values.
- Synthesize the theories and philosophies of various architects or architectural movements based on their salient features.

BQD 7005 ADVANCED ARCHITECTURAL DESIGN II

7 credits

Ability to design a highrise building that takes into consideration green design strategies, social and cultural aspects.

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

- Integrate feasibility study, building statutory and other development requirements to justify the viability of the highrise project.
- Appraise lessons learned from precedent studies research for highrise project in an urban context.
- Integrate views, opinions and green design strategies gathered from discussions with people of different cultural backgrounds or related disciplines professionally into the highrise project.
- Design appropriate architectural solutions for the highrise project via drawings and models in addressing the architectural project issues, site planning, urban studies, social-cultural issues, universal design and green design strategies.

BQD 7006 ARCHITECTURAL COMPARATIVE STUDIES

3 credits

This course introduces the students to:

- 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.

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

- Study issues of culture, site and context in architecture of a site outside Malaysia and the influence of different civilisations on architecture.
- Analyze the design of selected buildings and sites in terms of concept, space, structure, materials, sustainability and uniqueness.
- Demonstrate the presentation of research findings effectively and professionally.

BQD 7007 ARCHITECT AND CONSTRUCTION MANAGEMENT

3 credits

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.

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

- Master the course of a construction project from the letter of appointment of contractor to the handover of site to the project owner.
- Explain management knowledge and tools in managing construction and work progress in accordance with the building contract.
- Explain in detail the roles and responsibilities of an architect and relevant consultants during the five-construction phase.

BQD 7008 PRE-THESIS RESEARCH

3 credits

Through this course, students will:

- Conduct an in depth study to form a viable and suitable architectural design thesis project with adequate complexity.
- Identify, analyse and develop a proposal for the design thesis project.
- Verbally present their proposals with appropriate visuals accompanied with a written document.
- This written document will be the foundation for the design thesis project in the following semesters.

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

- Determine the conceptual framework based on research topic to assist the formulation of a design brief.
- Prepare a comprehensive report for the proposed topic.
- Appraise selection of design topic/project.

BQD 7009 RESEARCH METHODOLOGY

3 credits

Students will be exposed to:

- library search
- research methodology
- scientific research elements
- problem formulation process and hypotheses
- research design
- data collection
- research findings
- writing up

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

- Apply qualitative and/or quantitative research methods suitable to the research scope, data analysis and academic writing.
- Determine theory and techniques of research development and implementation.
- Justify research arguments based on findings from literature review.

BQD 7010 ARCHITECTURAL DESIGN THESIS LAB I

8 credits

Students will develop works that were produced in BAGS6203 Pre Thesis Research to get a design concept that can be applied based on acquired hypotheses and problem statements. Through this course, students will refine and develop the design concept up to the design development stage

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

- Develop design thesis concept based on areas of research such as sustainable design, building typology, conservation/adaptive reuse, site/ issue-driven arguments and community architecture.
- Translate design concept into detailed architectural design scheme.
- Analyse site through series of studies from macro to micro level.
- Explain design thesis project through verbal and architectural graphics.

BQD 7018 ARCHITECTURAL RESEARCH I

5 credits

This course guides the students on how to write a major piece of academic writing as a partial requirement for the conferment of the degree. Students will continue the title/ topic or issue that has been suggested in the Research Methodology (BQD7009) course and continue the research towards scholarly writing. Each student will be supervised by a lecturer who will advise and monitor the process of conducting research and progress in writing.

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

- Appraise literature review critically.
- Report primary and related data.
- Analyse data and syntheses findings.
- Prepare an academic report.

BQD 7015 ARCHITECTURAL DESIGN THESIS LAB II

8 credits

This course is a continuation of the development of conceptual design, ideas and scheme explored in BQD7010 Architectural Design Thesis Lab I. The emphasis is on the development of:

- architectural design proposal
- design Special Study
- design proposal report

Students will be able to:

- Translate design concept into a detailed architectural design proposal.
- Develop a special study that focuses on the core ideas of the design thesis project.
- Explain design thesis project through verbal and architectural graphics.
- Explain design proposal in a written report.

BQD 7016 **GREEN AND SUSTAINABLE TECHNOLOGY II**

3 credits

This course will expose the students to:

- analyses, discussions and applications of the sustainability concept
- green building construction
- green building materials in green building design
- environmental impact assessments (EIA)
- green building rating methods

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

- Master various methods of 'green' building construction and the characteristics of green building materials.
- Propose green building solutions into the studio architectural design project.
- Explain the sustainability, performance and cost-effectiveness of green buildings utilising available building assessment software.

BQD 7019 **ARCHITECTURAL RESEARCH II**

3 credits

This course totally depends totally on discussions between the student and supervisor. Discussions cover:

- various levels of refereed journals or other publication
- communication with publisher
- writing research papers
- preparing a submission-ready manuscript
- graphic presentation techniques

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

- Organize architectural research thesis outcome.
- Appraise ready-made information.
- Prepare an academic paper.

PROGRAMME ELECTIVE COURSES

BQD 7012 **ADVANCED BUILDING CONSERVATION**

3 credits

The course focuses on the basic theories in the practice of conservation, an understanding of which is vital for responsible conservation of architectural heritage. It includes the principles and methods of building conservation as recommended by the UNESCO and ICOMOS, as well as Malaysian legislations that placed authenticity and integrity as the primary objectives. It also introduces the students to the rigorous conservation process from the need for significant research to preparation of measured drawing, survey of building condition and defects and preparation of conservation statements.

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

- Determine the principles of building conservation that emphasizes on the importance of cultural significance, authenticity and integrity of built forms.
- Master various forms of conservation practice in architecture, international conventions and guidelines on conservation of cultural properties and relevant existing Malaysian legislations.
- Explain best conservation practices related to the use of materials, techniques, approaches, philosophies, measured drawings, dilapidation surveys and conservation statements.

BQD 7013 **ADVANCED URBAN STUDIES**

3 credits

Through this course, students will acquire:

- Overview of the major concepts and ideas of urban design dimension, theory and practice, urban development policy and land use policy
- Undertake critique of both contemporary and traditional urban design projects and concepts.
- Situate urban design theories and practices within the fields of urban planning, architecture, landscape architecture and property.

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

- Determine major concept of urban design dimensions, theories, practices and policies.
- Master basic implementation of urban design, policies and strategies in contemporary and traditional urban design projects and concepts.
- Explain an existing urban development area using urban design theories and practices in urban planning, architecture, landscape architecture and property.

BQD 7014 **ADVANCED SUSTAINABILITY**

3 credits

This course will expose students to:

- Building analysis simulation software;
- Principles of living buildings;
- Influence of climatic conditions on buildings;
- Technical aspect of living buildings;
- Consideration of various dimensions of building functionality in proposing living building solutions.

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

- Examine the energy usage intensity and daylighting of the building.
- Formulate innovative techniques for buildings to adapt to the climate without human intervention.
- Modify the design of a proposed building into a living building.

MASTER OF SUSTAINABLE URBANISM (COURSEWORK)

Conventional

[BQE] MASTER OF SUSTAINABLE URBANISM (COURSEWORK)

Administrative Unit
PROGRAMME COORDINATOR

Dr. Nik Hazwani Hashim @ Nik Hashim
Coordinator for Master of Sustainable Urbanism (by Coursework)

Tel: 03-7967 5398
E-mail: nikhazwani@um.edu.my

ADMINISTRATIVE STAFF

Mdm. Jayasutha a/p Kamrajoo
Senior Administrative Assistant (Master by Coursework)

Telephone: 03-7967 6856
Email: jayasutha@um.edu.my

PROGRAM OVERVIEW

As urbanization accelerates worldwide, the demand for professionals who can integrate environmental, social and economic sustainability into urban planning and policy has never been greater. The Master of Sustainable Urbanism (MSU) program provides a comprehensive understanding of sustainable urban development, blending urban planning, governance and environmental sustainability. With a hands-on approach through research projects and industry collaborations, students gain real-world insights into addressing complex urban challenges such as climate change, urban resilience, housing, mobility, and resource management. MSU bridges the gap between academia and industry by fostering close collaborations with city councils, government agencies, private developers, and international organizations. Through guest lectures and collaborative projects, students gain hands-on experience in shaping sustainable urban solutions. With sustainability becoming a global priority, MSU graduates are in high demand across various industries, including urban planning, environmental consultancy, smart city development, and policy advisory roles. The program prepares students for leadership positions in both public and private sectors, ensuring they play a vital role in designing the cities of tomorrow.

DELIVERY AND ATTENDANCE

- For full time, the minimum duration of the program is two (2) normal semesters and one (1) special semester or one (1) year while the maximum duration is eight (8) semesters or four (4) years.
- For part time, the minimum duration of the program is four (4) normal semesters and one (1) special semester or two (2) years while the maximum duration is sixteen (16) semesters or eight (8) years.
- Classes will be conducted through physical after-office and / or weekend sessions for Conventional Mode candidates at the Universiti Malaya's Faculty of Built Environment.
- The medium of instruction for this course is English.
- The program is delivered through lectures, tutorials and coursework.

CONFERMENT OF DEGREE

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

PROGRAMME FEES

https://study.um.edu.my

PROGRAM STRUCTURE AND ASSESSMENT

This program consists of twelve (12) courses. Each course is delivered over a 14-week period (normal semester) and a 7-week period (special semester). The courses are assessed by examination and/or continuous assessment.

PROGRAMME EDUCATION OBJECTIVES (PEO)

Graduate will be able to:

PEO1	To produce graduates who demonstrate interdisciplinary knowledge in planning and development, encompassing the built environment, social sciences, and data science.
PEO2	To produce graduates who can apply functional workplace competencies, supporting their professional growth and career advancement.
PEO3	To produce graduates who are able to engage effectively with communities and stakeholders in fields related to sustainable urbanism.

PROGRAMME LEARNING OUTCOMES (PLO)

Graduate will be able to:

PLO1	Synthesize knowledge, skills, and good management practices in the fields of planning, the built environment, social sciences, and data science.
PLO2	Integrate knowledge and capabilities in addressing urban governance issues using critical, creative, and innovative approaches.
PLO3	Demonstrate leadership qualities through functional work skills (communication, interpersonal skills, and data analysis).
PLO4	Foster readiness for career advancement in planning, the built environment, social sciences, and data science for lifelong learning in both public and private sectors.
PLO5	Demonstrate proficiency in using a range of digital technologies and appropriate software to enhance research, work, and practice.
PLO6	Exhibit autonomy, independence, leadership, and strong interpersonal skills in the workplace.
PLO7	Foster readiness for career advancement in planning, the built environment, social sciences, and data science for lifelong learning in both public and private sectors.
PLO8	Instill values of integrity and accountability in social, economic, and environmental governance within any development context.
PLO9	Practice ethically and professionally.

COURSE STRUCTURE

Master of Sustainable Urbanism (*Conventional*)

Semester 1 Intake - Year 1 (*Conventional* – Full time)

COMPONENTS	SEMESTERS									TOTAL CREDITS
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS	BQE 7001	Sustainable Urbanism and Governance	4	BQE 7004	Research Project I (*prerequisite subject*)	5	BQE 7006	Research Project II	4	25
	BQE 7002	Urban Leadership and Strategic Management	4	BQE 7005	Professionalism, Accountability and Ethics	4				
	BQE 7003	Research Methodology in Built Environment	4							
ELECTIVE SUBJECTS (CHOOSE 3 ONLY)	BQE 7007	Facilitation and Negotiation Mastery	3	BQE 7011	Analytical Techniques of Impact Assessment	3				18
	BQE 7008	Community Mobilization and Social Change	3	BQE 7012	Technology and Urban Transformation	3				
	BQE 7009	Critical Debate on Urbanism	3	BQE 7013	Urban Informatics and Data Visualization	3				
	BQE 7010	The Art of Decision Making	3	BQE 7014	Urban Risk and Resilience	3				
									TOTAL CREDIT	43

Semester 2 Intake - Year 2 (*Conventional* – Part time)

COMPONENTS	SEMESTERS									TOTAL CREDITS
	SEM 1: NORMAL SEMESTER			SEM 2: NORMAL SEMESTER			SEM 3: SPECIAL SEMESTER			
	CODE	COURSE	CDT	CODE	COURSE	CDT	CODE	COURSE	CDT	
CORE SUBJECTS				BQE 7004	Research Project I (*prerequisite subject*)	5	BQE 7006	Research Project II	4	12
				BQE 7005	Green and Sustainable Technology II	4				
ELECTIVE SUBJECTS (CHOOSE 3 ONLY)	BQE 7011	Analytical Techniques of Impact Assessment	3							12
	BQE 7012	Technology and Urban Transformation	3							
	BQE 7013	Urban Informatics and Data Visualization	3							
	BQE 7014	Urban Risk and Resilience	3							
									TOTAL CREDIT	24

PROGRAMME CORE COURSES

Candidates need to register and complete the **BQE7004 – Research Project I** before proceeding with **BQE7006 – Research Project II**.

PROGRAMME CORE COURSES

BQE 7001 **SUSTAINABLE URBANISM AND GOVERNANCE**

4 credits

This course will examine on some of the most relevant issues and challenges confronted by cities worldwide. This course will explore how cities can attain sustainability encompassing social, economic, and environmental dimensions. Additionally, it will examine advanced initiatives geared towards producing sustainable and smart cities through good governance practices. More specifically, this course will emphasize the interplay between sustainable development and contemporary urban governance practices, considering both local and international contexts. The course will also delve into current approaches to sustainable planning and governance, at both the global and local levels.

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

- Discuss the key concepts, theories, and frameworks related to sustainable urbanism and governance at the regional and city levels.
- Debate and critic of the current policies and governance practices related to sustainable development, with a specific focus on their effectiveness in creating sustainable cities.
- Debate relevant strategies and methodologies for creating sustainable, smart, and resilient cities based on the evaluation of selected case studies at the global and national levels.

BQE 7002 **URBAN LEADERSHIP AND STRATEGIC MANAGEMENT**

4 credits

The objective of the course is to develop strategic management and leadership skills for managers who have the authority and personal attributes to translate organisational strategy into effective operational performance. This course will reflect current practice in Strategic Management and Leadership in urban planning and allows learners to develop and expand their high-level understanding of strategic management and leadership in the workplace. This course is suitable for mature learners with a background in academic study or industry. The qualification has a clear work-related emphasis on practical skills development alongside theoretical fundamentals.

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

- Review the scope and function features of current urban governance.
- Apply strategic approaches in urban governance leadership for problem solving through change management.
- Practice the skills in leveraging strategic, operational, and developmental nexus for urban governance.

BQE 7003 **RESEARCH METHODOLOGY IN BUILT ENVIRONMENT**

4 credits

This course is designed to provide exposure on knowledge and skills to postgraduate students in relation to appropriate research methods. The content of this course consists of An Introduction to Research Methodology, Literature Review, Study Design, Research Methods, Research Ethics, Research Proposal Writing, And the Use Of The Latest Research Software.

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

- Critically review the literature related to urbanisation issues based on authoritative sources of information within the context of sustainable urban development.
- Present research methodologies that are appropriate to research issues ethically and professionally in the practice of sustainable urban development.
- Prepare a significant research proposal addressing research problems that meet the needs of sustainable urban development.

BQE 7004 **RESEARCH PROJECT I**

5 credits

This course involves an ongoing research project through consultation with the supervisor. At this stage, students will complete the entire research project report (chapters 1 to 5).

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

- Evaluate fundamental knowledge including theories, concepts, frameworks, literature and issues related to sustainable urbanism.
- Manage the collection and analysis of secondary data using appropriate techniques in an ethical and professional manner.
- Prepare a research project report by discussing the findings ethically and professionally in achieving the aspirations of sustainable urban development.

BQE 7005 **PROFESSIONALISM, ACCOUNTABILITY AND ETHICS**

4 credits

The objective of the course is to develop management and leadership professional skills for managers who have the authority and personal attributes to translate organisational strategy into effective operational performance. This course will reflect current practice in professional, ethics and accountable practises in the workplace. This course is suitable for mature learners with a background in academic study or industry. The qualification has a clear work-related emphasis on practical skills development alongside theoretical fundamentals in ensuring effective management in urban areas.

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

- Explain the context and interpretation of professionalism, accountability and ethical theory practices in urban planning.
- Demonstrate an understanding of the best ethical professional practices in urban governance.
- Assess the nation's future risk and policy implications without ethical professional practice.

BQE 7006 **RESEARCH PROJECT II**

4 credits

This course involves an ongoing research project through consultation with the supervisor. At this stage, students will complete a final research project report.

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

- Conduct data collection and analysis using neoteric practical skills, tools and investigation techniques within the research context.
- Analyse the data collected using a range of appropriate digital technologies and software.
- Prepare a research project report by discussing the findings ethically and professionally in achieving the aspirations of sustainable urban development.

PROGRAMME ELECTIVE COURSES

BQE 7007 **FACILITATION AND NEGOTIATION MASTERY**

3 credits

Planners and public officials at all ranks are often needed to function effectively in group settings and in public. This includes putting information and positions forward in pursuit of one's preferred outcomes (negotiation), assisting others in communicating effectively with each other and making shared decisions (facilitation), and navigating institutional and societal tensions and disagreements with some grace (conflict resolution). Through theoretical and practical approaches, this course will cover some of the conceptual models for understanding interpersonal interactions (including differences in personal, cultural styles and belief system) and experiment with some different approaches for working with the complexities. Through real discussions and engagements, students will be able to practice their negotiation and facilitation skills, and to learn from observing others practice theirs.

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

- Analyze the underlying factors for the complex nature of stakeholder groups and interests
- Demonstrate an ability to identify conflicts arises from diverse issues and interest in development
- Propose appropriate approaches and solutions in negotiation.

BQE 7008 **COMMUNITY MOBILIZATION AND SOCIAL CHANGE**

3 credits

Community mobilization refers to both the initial and ongoing process central to any community, as well as social change effort that seeks to build support and participation of individuals, groups, and institutions to work towards a common goal or vision. This course will cover the framework of community development based on participatory approaches and bottom up approaches. It will also cover topics to understand factors and barriers that promote and hinder individuals, groups and institutions to work towards a common goal and vision. By looking at an overview of the entire development process and using case studies, this course will prepare students to work in the field of community development and illuminate how all of the development efforts fit together to support the overall goal of sustainability.

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

- To explain the roles of community mobilization in the context of human rights-based approaches to community development.
- To calibrate the social capital elements that suits the needs of specific community that promotes or inhibit trust and the sense of working together.
- To develop appropriate participatory practices into community development activities.

BQE 7009 **CRITICAL DEBATE ON URBANISM**

3 credits

This course will examine appropriate techniques and skills in debating. The course will also introduce students to the different communication skills including persuasion, negotiation, arguments with critical thinking skills and prudence. The course will explore debating techniques for different levels of students through debating workshops, group works and practises. Students will communicate with the real community, challenging each other in a healthy environment and translate the case study into final assignments and presentations.

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

- Debate the key theories, concepts, and issues in urbanism.
- Apply urban planning approaches to address real-world urban challenges.
- Communicate ideas and research findings argumentatively and effectively.

BQE 7010 **THE ART OF DECISION MAKING**

3 credits

The course expose students to a complex decision-making process which influence every part of individual life, organization and communities. The ability to make wise decisions is essential to living a successful and fulfilled life. The knowledge and skills help students become aware of the factors that really influence decision outcomes. Using case studies, readings on latest case study approaches, and discussions, students get both practical and academic insights. Students will learn the decision-making aspects at three level: individual, group and organization.

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

- Develop advanced knowledge in the decision making process
- Evaluate approaches in problem solving steps and decision-making techniques.
- Appraise ways for implementation of effective decision making.

BQE 7011 **ANALYTICAL TECHNIQUES IN IMPACT ASSESSMENT**

3 credits

This is an advanced course for students who plan to become professional city analyst. The students who enrolled in this course will be introduced to special requirements in the planning process, namely the policymaking impact assessment technique. Impact assessments assist the makers of policy and decision to better understand the underlying drivers of development and the potential impacts stemmed from existing policies on future economic growth, social parameters, and environmental aspects. Students will be able to expand their insight about methodological and analytical approaches to develop effective policies and instruments in order to foster sustainable development. Students can get hands-on experience by applying the impact assessment techniques through selected case studies during this course.

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

- Apply different policy impact assessment analysis techniques within the sustainable urban development practice.
- Explain the dynamic scope and context of impact assessment in resolving urban development conflict.
- Coordinate appropriate impact assessment techniques with stakeholders from various disciplines.

BQE 7012 **TECHNOLOGY AND URBAN TRANSFORMATION**

3 credits

Cities are important centres for local, national, and global development. They are facing challenges such as environmental issues and higher expectations in terms of services and living standards of individuals. At the same time, cities are undergoing transformation because of technological advances along with social, cultural, political, and climatic changes. With the support of technology and big data, urban innovation which is a combination of new practices, solutions, and services, enables the cities to become sustainable through overcoming their issues and anticipating and adapting the processes of change those cities undergo. Urban innovation can help manage urbanization by responding to citizens' needs more effectively, make information easily accessible and help in making smarter decisions. Through building up a solid background on urban innovation and analysing local and international examples, this course aims at exploring the role of urban innovation in shaping our cities in a sustainable manner.

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

- Discuss urban innovation and its significance in city development,
- Analyse different forms of urban transformation and their diverse effects.
- Apply various measures to monitor urban transformation in a sustainable manner.

BQE 7013 **URBAN INFORMATICS AND DATA VISUALISATION**

3 credits

This course is designed to provide students with a comprehensive understanding of Geographic Information System (GIS) applications, spatial analysis, big data, the integration of cutting-edge technologies, and the development of decision support systems (DSS) in geospatial data. Students will gain the knowledge and practical skills to leverage large-scale spatial data for informed decision-making across various domains.

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

- Explain the basic concepts and techniques of Geographic Information Systems (GIS) in urban informatics.
- Critique cutting-edge technologies in visualizing and solving issues in a city's social-spatial planning and management.
- Generate a decision support system model using contemporary tools based on case studies.

BQE 7014 **URBAN RISK AND RESILIENCE**

3 credits

This course offers the students theoretical knowledge and practical understanding on important topics of urban risk and resilience which include the contexts, processes and actors that contribute to different degrees of risk and resilience by referring to case studies based on the geographical distribution of risk. The responses to risk including resilience, role of the local government, risk reduction and the potential and limits of individual risks are covered in this course. Discussions also emphasize the application of information and tools for assessment on institutional, socio-economic and hazard risk dimensions. The complex dynamics of the urban ecosystem and the preparedness of cities both the governance and urbanism will be explored. Students will be asked to develop a risk sensitive plan/white paper for the local government.

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

- Explain the nature, scale and response to urban risk and the theoretical and applied elements of urban resilience.
- Demonstrate an understanding of risk assessment information and tools for urban governance and urban design..
- Assess the urban future risk and policy implications in the era of climate crisis.

Faculty of Built Environment
Universiti Malaya
50603 Kuala Lumpur
General line: +603 7967 7995
http://fbe.um.edu.my

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