ACADEMIC PROFORMA
2019/2020

FKAAS

BACHELOR OF
SCIENCE IN ARCHITECTURE

SETARA TIER 4

FACULTY OF
CIVIL AND ENVIRONMENTAL ENGINEERING
Universiti Tun Hussein Onn Malaysia
86400, Parit Raja, Batu Pahat, Johor
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Universiti Tun Hussein Onn Malaysia
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Foreword from Vice Chancellor

Assalamualaikum Warahmatullahi Wabarakatuh and Greetings.

Congratulations and welcome to all new students. We appreciate your trust for choosing to be with UTHM in continuing your endeavor for success in your future career and towards prosperous life.

In line with Ministry of Education Malaysia aspirations in transforming learning and teaching process to be more flexible, organic, dynamic and effective, several initiatives and innovations have been and will be implemented at UTHM. These initiatives and innovations which integrate conventional methods of delivery with online/ virtual delivery methods have presented the Full Online Classroom (FOC), Smart Classroom, Flip Learning, Massive Open Online Course (MOOC) and many more. Besides, more emphasis will be given on Science, Technology, Engineering and Mathematics (STEM), in line with Ministry aspirations to uphold science and technology consistent with IR4.0 development. Apart from that, elements such as fun, happiness, love and kindness are embedded in all the curriculums offered at UTHM to ensure learning and teaching process can achieve goals of University in producing balanced graduates in terms of emotional, mental and physical based on tauhidic paradigm.

For your knowledge, University's top management continues to seek, design, and adapt effective and efficient approaches which are able to have great impact towards making UTHM a renowned Higher Education Institution. Success in being rated four stars by QS Star Rating 2017 and being recognised within the Top 300 by QS World University Ranking by Subject 2017 in the field of Mechanical, Aeronautical and Manufacturing Engineering, as well as in Electrical and Electronic Engineering, have proved that UTHM is committed in producing world class academic programmes. These achievements are driven by vision and mission of University, which are continually strengthen and streamlined.

Last but not least, I believe that you will become a successful University graduate and would continue University tradition of academic excellence. I am also confident that you as a graduate, will become a member of the community whom are able to apply knowledge gained and are able to contribute good deeds, service and expertise for the Religion, Race and Nation.

All the Best.

Y. BHG. PROFESSOR TS. DR. WAHID BIN RAZZALY
Vice Chancellor
Universiti Tun Hussein Onn Malaysia
Assalamualaikum Warahmatullahi Wabarakatuh and Greetings.

I would like to take the opportunity to congratulate all new students who have been chosen to further their studies at Universiti Tun Hussein Onn Malaysia beginning this 2019/2020 session. Congratulations is also extended to Centre for Academic Development and Training for successfully publishing this proforma which serve as a guide for students in planning their learning at the University beginning the first semester till graduation.

For your information, higher education in Malaysia has evolved from teacher-centered learning to student-centered learning. Besides that, much initiatives have been rolled out towards development of holistic and balanced graduates in terms of ethic, moral, knowledge, and skills. In order to improve the quality of learning and teaching, Industry Revolution 4.0 and work-based learning elements are embedded into curriculum to ensure academic programmes offered by UTHM continue to be relevant to the needs of current industry and market. Apart from that, knowledge and experience sharing between the key players of local and foreign industries in related industries and students and local community are delivered through CEO@Faculty programs.

Further, online learning platform known as Massive Open Online Course (MOOC) has been introduced and Full Online Class (FOC) session is implemented every semester. These are new initiatives implemented at UTHM to provide opportunities to students to explore knowledge without the need to be physically present in classroom. Students also have the opportunity to take a break from the University for a period of time by enrolling in Gap Year program. It gives student a break to reflect and take ownership for their experiences through programs such as volunteerism, entrepreneurial, sports, and others.

I do hope that with all the initiatives which have been and will be rolled out by UTHM, you will gain valuable experiences while exploring knowledge and skills at UTHM. I would like to call out on you to take the opportunity to explore your own potential through various co-curricular activities and programs prepared by UTHM. In order to achieve UTHM aspirations, early preparations guided by this proforma will help you plan for your journey throughout your studies at UTHM. I hope you will be able to achieve excellent academic results and outstanding success.

Last but not least, I wish you All the Best and pray that you will be successful in your studies at the University and be able to contribute to development of religion, race and nation.

“WITH WISDOM WE EXPLORE”

PROFESSOR DR. ISMAIL BIN ABDUL RAHMAN
Deputy Vice Chancellor (Academic and International)
Universiti Tun Hussein Onn Malaysia
Foreword from Dean
Faculty of Civil and Environmental Engineering

Salam sejahtera and Greetings

I would like to congratulate all new students at the Faculty of Civil and Environmental Engineering (FKAAS) UTHM for the 2019/2020 academic session. All of you are very fortunate to have been selected to enter this University, which is well-equipped with current infrastructure and conducive teaching and learning environment. Being selected to this university is a great privilege that should not be wasted. This is due to the fact that the education process at the tertiary level requires continuous effort and commitment so that the knowledge gained can produce students who are excellent in all aspects in accordance with the needs of industries and Nation.

In order to accomplish the faculty’s mission which is to produce and train competitive professionals of high ethical values, you will be guided by qualified, committed, and responsible academic staff. FKAAS offers an academic programme based on various areas related to civil engineering and architecture field as well as focuses on sustainable technology to feed the need of future development. To enhance students’ understanding and creativity, the faculty provides laboratories equipped with the latest equipment and assisted by well-trained Assistant Engineers. Students will also have to undergo practical work in the field relevant to the current industrial needs.

Therefore, you must take this opportunity to work extremely hard in order to achieve the aspirations of not only your parents but also the community and the country. Systematic planning of teaching and learning will produce outstanding graduates.

Thank you.

ASSOC. PROF. Ir. Ts. DR. MOHD IRWAN BIN JUKI
Dean
Faculty of Civil and Environmental Engineering
Universiti Tun Hussein Onn Malaysia
Vision
Towards a world class university in engineering, science and technology for sustainable development.

Mission
UTHM is committed to generate and disseminate knowledge, to meet the needs of industry and community and nurturing creative and innovative human capital, based on the tauhidic paradigm.

Education Philosophy of University
The education and training practice in this university is a continuous effort to become the leader in market oriented academic programmes. These programmes are student-focused and are conducted through experiential learning in order to produce well trained human resource and professionals who are catalysts for sustainable development.

Logo of University
The logo of UTHM displays a proton, a book, a tiered mortar board (levels of learning), a book-rest and a shield.

Symbolism:
- Red  Bravery
- Blue  Collaboration
- Silver  Quality/Prestige
- Book-rest  Knowledge
- Proton  Science and Technology
- Book  Knowledge
- Mortar board  Levels of study
- Circle  Resilient and related to global characteristics
- Shield  Confidence

The whole concept of the logo represents UTHM as a learning institution that supports knowledge expansion and development at all levels of study in science and technology.

Blue represents the close relationship among UTHM community in ensuring successful and resilient implementations of the University programmes as well as its education and research activities that are carried out for the benefit of mankind.

Red symbolises the adventurous nature of UTHM in exploring new fields to establish itself as a leader in the applications of science and technology. Thus, this reflects the spirit and self-esteem of the UTHM community.
Chancellor

Duli Yang Maha Mulia Sultan Ibrahim Ibni Almarhum Sultan Iskandar
Sultan Yang Dipertuan Bagi Negeri Dan Jajahan Takluk Johor Darul Ta’zim
Pro Chancellor I

Duli Yang Amat Mulia Tunku Ismail Ibni Sultan Ibrahim
Tunku Mahkota of Johor (TMJ)
D.K., SPMJ, P.I.S

Pro Chancellor II

YBhg. Tan Sri Dr. Ali Hamsa
Board of Directors of University

Chairman

YBhg. Dato' Dr. Mohd Sofi Osman
Managing Director & Vice President
PEN Operations

Members

Y. Bhg. Prof. Ts. Dr. Wahid bin Razzaly
Vice Chancellor
Universiti Tun Hussein Onn Malaysia

YB Dato’ Haji Nooh bin Gadot
Advisor
Majlis Agama Islam Johor

YBhg. Datuk Ts. Pang Chau Leong
Member
Board of Directors

YBhg. Dato’ Ir. Dr. Haji Abdul Rashid bin Maidin
Akademi Profesional Koperasi Serbaguna Anak-anak Selangor Berhad (KOSAS)

YBrs. En. Ahmad Luqman bin Mohd. Azmi
Chief Operations Officer
Malaysia Airlines Berhad

YBrs. Dr. Sharifah Adlina binti Syed Abdullah
Ministry of Finance Malaysia

YBhg. Dato’ Prof Ir. Dr. Mohd Saleh bin Jaafar
Ministry of Education Malaysia

YBhg. Prof. Dr. Mohd Idrus bin Mohd Masirin
Universiti Tun Hussein Onn Malaysia

Alternative Member

YBrs. Pn. Mazula binti Sabudin
Ministry of Education Malaysia

Secretary

En. Abdul Halim bin Abdul Rahman
Registrar
Universiti Tun Hussein Onn Malaysia
Members of Senate

Chairman

YBhg. Prof. Ts. Dr. Wahid bin Razzal
Vice Chancellor

Members

Prof. Dr. Hj. Ismail bin Abdul Rahman
Deputy Vice Chancellor (Academic and International)

Prof. Ts. Dr. Ruzairi bin Abdul Rahim
Deputy Vice Chancellor (Research and Innovation)

Assoc. Prof. Dr. Afandi bin Ahmad
Deputy Vice Chancellor (Student Affairs and Alumni)

Prof. Dato’ Dr. Abdul Razak bin Hj. Omar
Provost UTHM Pagoh Campus

Prof. Dr. Ahmad Tarmizi bin Abd Karim
Assistant Vice Chancellor (Strategic Planning and Corporate Relations)

Prof. Madya Dr. Wan Fauzi @ Fauziah bt. Wan Yusoff
Assistant Vice Chancellor (Financial Sustainability)

Prof. Dr. Azme bin Khamis
Dean, Centre for Graduate Studies

Assoc. Prof. Ir. Ts. Dr. Mohd Irwan Bin Juki
Dean, Faculty of Civil and Environmental Engineering

Assoc. Prof. Dr. Rosli bin Omar
Dean, Faculty of Electrical and Electronic Engineering

Assoc. Prof. Dr. Shahruddin bin Mahzan @ Mohd Zin
Dean, Faculty of Mechanical and Manufacturing Engineering

Assoc. Prof. Dr. Mohd Lizam bin Mohd Diah
Dean, Faculty of Technology Management and Business

Assoc. Prof. Ts. Dr. Abdul Rasid bin Abdul Razzaq
Dean, Faculty of Technical and Vocational Education

Ts. Dr. Azizul Azhar bin Ramli
Dean, Faculty of Computer Science and Information Technology

Assoc. Prof. Dr. Mohd Kamarulzaki bin Mustafa
Dean, Faculty of Applied Science and Technology

Assoc. Prof. Amran bin Mohd Zaid
Dean, Faculty of Engineering Technology

Assoc. Prof. Dr. Mohamad Zaky bin Noh
Dean, Centre for Diploma Studies

Assoc. Prof. Dr. Khairul Azman bin Mohamad Suhaimy
Dean, Centre for General Studies and Co-curricular
Dr. Zailin Shah binti Yusoff
Dean, Centre for Language Studies

Assoc. Prof. Dr. Ishak bin Baba
Director, Centre for Academic Development and Training

Prof. Dr. Rosman bin Md. Yusoff
Director, Institute for Social Transformation and Regional Development

Prof. Ir. Dr. Abdul Aziz bin Abdul Samad
Faculty of Civil and Environmental Engineering

Prof. Dr. Mohd. Idrus bin Mohd. Masirin
Faculty of Civil and Environmental Engineering

Prof. Dr. Mohammad Faiz Liew bin Abdullah
Faculty of Electrical and Electronic Engineering

Prof. Dr. Mohd. Amri bin Lajis
Faculty of Mechanical and Manufacturing Engineering

Prof. Ir. Dr. Md Saidin bin Wahab
Faculty of Mechanical and Manufacturing Engineering

Prof. Sr. Dr. David Martin @ Daud Juanil
Faculty of Technology Management and Business

Prof. Ts. Dr. Noraini binti Kaprawi
Faculty of Technical and Vocational Education

Prof. Dr. Rosziati binti Ibrahim
Faculty of Computer Science and Information Technology

Prof. Dr. Rozaini bin Roslan
Faculty of Applied Science and Technology

Prof. Dr. Khalid bin Hasan
Faculty of Engineering Technology

Ir. Ts. Shamrul-Mar bin Shamsuddin
Director, Office of Development and Maintenance

Assoc. Prof. Ts. Dr. Mohd. Farhan bin Md. Fudzee
Director, Information Technology Centre

En. Abdul Halim bin Abdul Rahman
Registrar / Secretary of Senate

Pn. Azizah binti Nasri
Bursar

Pn. Zaharah binti Abd Samad
Acting Chief Librarian

Pn. Norliah binti Yaakub
Head of Legal Unit
Faculty of Civil and Environmental Engineering

Faculty Vision
Aspires to lead the application of civil and environmental engineering knowledge in providing innovative and sustainable solutions for the benefits of mankind.

Faculty Mission
To produce and train professionals who are creative, innovative, competent and responsible to fulfill the societal and environmental needs in a progressive and sustainable manner.

The Faculty of Civil and Environmental Engineering (FoCEE) was established on May 1, 2004 when the university conducted a restructuring of faculties. Currently, FoCEE is the combination of three (3) departments: the Civil Engineering Department, the Architecture Department, and the Postgraduate Department. The Department of Engineering had existed since September 13, 1993 when the Polytechnic Staff Training Centre was established while the Department of Construction & Environmental Engineering Technology was established on September 30, 2000 when the Institut Teknologi Tun Hussein Onn (ITTHO) was upgraded to Kolej Universiti Teknologi Tun Hussein Onn (KUiTTHO) and then to Universiti Tun Hussein Onn Malaysia (UTHM).

FoCEE offers academic programmes to students at Bachelor and Postgraduate levels. FoCEE is established with the aim of conducting academic programmes specially designed towards the achievement of the Faculty vision and mission as well as conducting innovative research and development in accordance with the needs of the Nation. Apart from offering competitive academic programmes, FoCEE also serves as the reference centre in the field of environmental-friendly civil engineering and construction technology. The qualities and global competitiveness of the programmes offered by FoCEE are proven with the 5-year accreditation by the Board of Engineers Malaysia (full signatory status of the Washington Accord since June 18, 2009).

The faculty, consisted of three (3) departments is led by a Dean and assisted by three (3) Deputy Deans. Organisation chart of FoCEE is depicted as the diagram below.
Faculty Adjunct Professor

Ir. Hj. Abdullah Isnin  
Deputy Head Of Director (Business Sector)  
Department of Drainage and Irrigation  
Ministry of Water, Land and Natural Resources

Faculty Visiting Professor

Profesor Dr. KOICHIRO OHGUSHI  
Saga University of Japan

Faculty External Examiner

Associate Professor Ir. Adnan bin Zulkiple  
Universiti Malaysia Pahang

Prof. Madya Dato’ Ar. Dr. Ku Azhar Bin Ku Hassan  
Universiti Sains Malaysia

Ar. Kelvin Ong U-Lin  
Arkitek U-Lin

Faculty Industrial Advisors

Ir. Dr. Kamarul Anuar Mohamad Kamar  
Deputy General Manager  
UEM Group Berhad

Ir. Dr. Mohd Farid Ahmad @ Majid  
Chairman  
Farid Ahmad Consulting Engineers

Ir. Wan Hasitinaziah Mohd Hassan  
Corporate Division  
Department of Drainage and Irrigation  
Ministry of Water, Land and Natural Resources

Ir. Syed Mohd Yusof Syed Hussin  
Civil Engineer  
Amibak Consult Sdn Bhd azri bin Shuib

Ar. Hj. Mustapha Bin Mohd Salleh  
Managing Director  
Aliran Interiors Sdn. Bhd
Faculty Staff Directory

**Administration**

**Dean**
Associate Professor Dr. Mohd Irwan bin Juki  
Ph.D (Civil Engineering) (UiTM), MEng. (Structure) (UTM), BEng. (Hons.) (Civil) (UTM)

**Office Secretary**
Mdm. Noorhayati binti Othman  
Dip Kesetiausahaan Eksekutif (UiTM)

**Deputy Dean (Academic and International)**
Associate Professor Ts. Dr Mohd Haziman Bin Wan Ibrahim  
Ph.D (Civil Engineering) (USM), MEng. (Civil) (UTHM), BEng. (Hons) (Civil) (UiTM), Dip. (Civil Engineering) (ITM)

**Deputy Dean (Research, Development and Publication)**

**Deputy Dean (Student Affairs and Alumni)**
Associate Professor Ts. Dr Aeslina Binti Abdul Kadir  
Ph.D (Civil Engineering) (RMIT Univ.), MEng. (Civil-Environmental Management) (UTM), BSc. (Env. Science) (UKM)

**Office Secretary**
Mdm. Juliana binti Mohd Sapuan  
Dip. (Management & Office Technology) (UiTM)

**Deputy Registrar**
Mr. Azlan bin Wanti  
Bach. of Psychology (Univ of Utah)

**Senior Assistant Administrative Officer (Academic)**
Mdm. Siti Hasnah binti Hud  
Dip. (Public Administration) (UiTM)

**Senior Assistant Administrative Officer (Post Graduate)**
Mr. Rosmaidi bin Shahal  
STPM (Pusat Tuisyen Afdzal, Kluang)

**Assistant Administrative Officer (Finance & Development)**
Mdm. Sabariah Binti Md. Supadi  
Dip. (Business Management) (PTSS)

**Chief Administrative Assistant (Operational & Clerical)**
Mr. Encik Mohd Rawi Bin Deris  
STPM (Maktab Sultan Ismail)

**Senior Administrative Assistant (Operational & Clerical)**
Mdm. Norsaliza binti Saleh  
SPM (SMK Tun Ismail, Pt. Raja)  
BMgmt (OUM)

**Senior Administrative Assistant (Operational & Clerical)**
Mdm. Yasmin Binti Bajuri  
Dip. (Public Administration) (UiTM)

**Senior Administrative Assistant (Operational & Clerical)**
Mdm. Rafpidah binti Sarji
STPM (SM Tun Sardon Rengit)

Senior Administrative Assistant (Operational & Clerical)
Mr. Zamri Bin Ahmad  
Dip. Eng. Elec. (INSTITUT TEKNOLOGI MIDAS)

Administrative Assistant (Operational & Clerical)
Mr. Mohd Nazri bin Safri  
SPM (SMK Munsiyi Sulaiman, Batu Pahat)

Assistant Engineer
Mr. Mohd Khairi bin Zainal  
Dip. Kej. Elektronik Perhubungan (Politeknik Ibrahim Sultan Johor Bahru)

Office General Assistant
Mr. Mohd Afiq Maula Fauzi  
SPM (SEGA)

Assistant Engineer
Mr. Sabari bin Wahab  
Cert. (Civil Engineering - Construction) (PUO)
**Department of Architecture**

**Academic Staff**

**Dr. Izudinshah bin Abd Wahab**  
PhD (Civil Eng.) (UTHM), MSc. (Landscape Architecture) (USM), Bachelor of Architecture (USM), BSc. (Housing, Building & Planning) (USM)  
Head of Department

**Professor Dr. Ismail bin Abdul Rahman**  
PhD (Civil Eng.) (Univ. of Manchester), MSc. (Building Services Eng.) (Heriot-Watt Univ., Edinburgh), BEng. (Hons.) (Civil) (UTM), Dip. (Civil Eng.) (UTM)

**Associate Professor Ir. Ts. Dr. Riduan Yunus**  
PhD (Construction & Project Mgmt.) (Queensland Univ. of Tech.), MEng (Construction Mgmt.) (UTM), BEng (Civil)

**Associate Professor Ts. Dr. Abd Halid Abdullah**  
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**Associate Professor Ts. Dr. Lokman Hakim bin Ismail**  
Ph.D (Architecture & Building Eng.) (UoL), MSc. (Building Technology) (USM), BSc. (Technology & Education in Civil Eng.) (UTM), Dip. (Construction Management) (UTM)

**Associate Professor Dr. Noor Yasmin binti Zainun**  
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**Associate Professor Dr. Hj. Zainal Abidin bin Akasah**  
Ph.D (Architecture) (UTM), MSc. (Building Technology) (USM), Bachelor (Technology & Education in Civil Eng.) (UTM), Dip. (Quantity Surveying) (UTM)

**Ts. Dr. Azeanita binti Suratkon**  
PhD (Construction Management) (Chiba University) (Japan), MSc. (Construction Management-Project Management) (Heriot-Watt Univ., UK), BSc. (Building) (UTM), Dip. (Quantity Surveying) (UTM)

**Ts. Dr. Hanita binti Yusof**  
PhD (Architecture) (UTM), Master of Architecture (Architectural Computing) (Univ. New South Wales), Bachelor (Landscape Architecture) (UTM), Dip. (Architecture) (UTM)

**Ts. Dr. Muhammad Fikri bin Hasmori**  
Ph.D (Project Management) (USM), MEng. (Project Management) (USM), BEng. (Housing, Building & Planning) (USM)

**Ts. Dr. Nor Haslinda binti Abas**  
Ph.D (Property, Constr & Project Mgmt) (RMIT), MEng. (Civil & Structure) (UTM), BEng. (Civil) (UTHM)

**Ts. Dr. Noor Dina binti Md. Amin**  
Ph.D (Tech & Vocational Edu.) (UTHM), MSc. (Landscape Architecture) (USM), BSc. (Hons.) (Civil Eng.) (UoL), Dip. (Quantity Surveying) (UTHM)

**Ts. Dr. Rafikullah Deraman**  
PhD (IT in Construction) (UM), Master in Building Technology (USM), Bachelor of Quantity Surveying (UTM), Dip. (Quantity Surveying) (UTM)

**Ts. Dr. Sasitharan Nagapan**  
PhD (Civil Eng.) (UTHM), MSc (Technic & Vocational) (KUITTHO), BEng (Civil Eng.) (KUITTHO)
Dr. Ahmed Mokhtar Albshir Budiea  
PhD (Civil) (UTM), Master of Civil Eng. (UTM), BEng (Civil) (Al-Fateh Univ.)

Dr. Emedya Murniawaty binti Samsudin  
PhD (Civil Eng.) (UTM), MSc. (Integrated Construction Project Management) (UiTM), BEng. (Civil) (UTHM)

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PhD (Arch. & Building)(Deakin Univ.), MSc. (Building Technology) (USM), BEng. (Civil) (UiTM), Dip. (Civil Engineering) (UiTM)

Dr. Mohd Azuan bin Zakaria  
PhD (Civil Eng.) (Hiroshima Univ.), MEng (Civil) (UTHM), BEng. (Civil) (UTM)

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Dr. Tong Yean Ghing  
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Ir Mohd Norazam Bin Yasin  
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Mr. Muhamad Hanafi Bin Rahmat  
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Mr. Nasrul Arif Ahmad Mahmud  
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Mr. Nik Mohd Zaini bin Nik Soh  
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Mdm. Nor Azizah binti Adnan  
MSc. (Construction Management) (UTM), Bachelor of Interior Architecture (UiTM), Dip. of Interior Design (UiTM)

Mdm. Noorli binti Ismail  
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Head of Department

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Professor Dr. Ahmad Tarmizi bin Abdul Karim
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Professor Dr. Mohd Idrus bin Hj. Mohd Masirin
Ph.D (Highway & Transportation Engineering) (Univ. East London, UK), MSc. (Highway & Transportation Engineering) (Univ. East London, UK), BEng. (Civil) (Univ. Han Yang, Seoul), Dip. (Civil Engineering) (UTM)

Emeritus Professor Ir. Dr. Amir Hashim bin Mohd Kassim
Ph.D (Hydrology & Water Resources) (Univ. Birmingham, UK), MSc. (Hydrology & Water Resources) (Colorado State Univ., USA), BEng. (Civil) (Univ. Strathclyde, UK), Dip. (Civil Eng.) (UTM)

Associate Professor Ir. Dr. Abdul Halim Abdul Ghani
PhD (Civil Eng.)(UTP), MEng. (Civil)(UPM), BEng (Civil)(UiTM), Dip (Civil Eng.)(UiTM)

Associate Professor Ir. Dr. Mohd Irwan bin Juki
Ph.D (Civil Engineering) (UTM), MEng. (Structure) (UTM), BEng. (Hons.) (Civil) (UTM)

Associate Professor Ir. Dr. Tan Lai Wai
Ph.D (Civil Engineering-Computational Fluid Dynamics) (McGill Univ., Canada), MEng. (Hydraulics and Hydrology) (UTM), BEng. (Civil) (UTM), Dip. (Civil Eng.) (POLIMAS)

Associate Professor Sr. Dr. Mohd Effendi bin Daud
Ph.D (Civil Engineering) (Nagoya Univ., Japan), MSc. (Land Surveying) (UTM), BSc. (Land Surveying) (UTM), Dip. (Land Surveying) (UTM)

Associate Professor Sr. Ts. Dr. Mustaffa bin Anjang Ahmad
Ph.D (City Planning) (Univ. of Saga, Japan), MSc. (Land Surveying) (UTM), BSc. (Land Surveying) (UTM)

Associate Professor Ts. Dr. Aeslina binti Abd. Kadir
Ph.D (Civil Engineering) (RMIT Univ.), MEng. (Civil-Environmental Management) (UTM), BSc. (Env. Science) (UKM)

Associate Professor Ts. Dr Mohd Haziman Bin Wan Ibrahim
Ph.D (Civil Engineering) (USM), MEng. (Civil) (UTHM), BEng. (Hons) (Civil) (UiTM), Dip. (Civil Engineering) (ITM)

Associate Professor Ts. Dr. Adnan bin Zainorabidin
Ph.D (Geotechnical Engineering) (Univ. of East London, UK), MEng. (Civil) (UTM), BEng. (Civil) (UTHM), DPLI (Edu). (UTHM), Cert. (Civil Engineering) (PPD)

Associate Professor Ts. Dr. Aziman bin Madun
Ph.D (Geotechnical Engineering & Engineering Geology) (Univ of Birmigham, UK), MSc. (Geotechnical Engineering) (UPM), BSc. (Geology) (UKM)
Associate Professor Ts. Dr. Felix Ling Ngee Leh
Ph.D (Civil Engineering) (UTM), MEng. (Civil-Geotechnics) (UTM), BSc. (Civil Engineering) (UTM)

Associate Professor Ts. Dr. Norzila binti Othman
Ph.D (Civil Eng.) (UTM), Master (Technology Management) (UTM), BSc. (Ecology) (UM)

Associate Professor Ts. Dr. Radin Maya Saphira binti Radin Mohamed
Ph.D (Environmental Eng.) (Murdoch University, Perth), MEng. (Civil) (UTHM), BSc. (Industrial Chemical) (UTM)

Associate Professor Ts. Dr. Rafidah binti Hamdan
PhD (Env. Eng.)(Univ. of Leeds), MEng (Env.)(UTM), BEng (Chem.) (UTM)

Associate Professor Ts. Dr. Zawawi bin Daud
Ph.D (Environmental Eng.) (USM), M.Eng. (Civil Eng.) (UTM), BSc. (Civil Eng.) (UTM), Dip. (Civil Eng.) (PUO), Dip. Education (UTM), Cert. (Civil Eng.) (PUO)

Associate Professor Dr. Mohd Adib bin Mohammad Razi
PhD (Civil)(UiTM), MEng. (Hydraulics & Hydrology) (UTM), BEng. (Civil) (UTM), Dip. (Civil Eng.) (UTM)

Associate Professor Dr. Mohamad Yusri bin Aman
Ph.D (Asphalt Technology) (USM), MEng. (Civil) (UTHM), BEng. (Civil) (UPM), Cert. (Civil Engineering-Construction) (PUO)

Associate Professor Dr. Mohd Ezree bin Abdullah
Ph.D (Civil Engineering) (UTHM), BEng. (Civil) (UTHM)

Associate Professor Dr. Mohd Hilton bin Ahmad
Ph.D (Univ. of Surrey, UK), MSc. (Structural Eng. & Construction) (UPM), BEng. (Civil) (UM)

Associate Professor Dr. Munzilah binti Md Rohani
Ph.D (Transportation) (Univ. of Southampton, UK), MEng. (Traffic and Highway) (UTM), BEng. (Civil) (UTM)

Associate Professor Dr. Noridah binti Mohamad
Ph.D (Civil Engineering) (UTM), MEng. (Civil-Structure) (USM), BEng. (Civil) (Pacific Univ., California, USA), Dip. Ed. (UTM)

Associate Professor Dr. Norwati binti Jamaluddin
PhD (Structure Eng.)(Univ. of Leeds), MEng. (Civil-Structure) (UTM), BEng. (Civil) (UTM), Dip. (Civil Engineering) (UTHM)

Associate Professor Dr. Saiful Azhar bin Ahmad Tajudin
Ph.D (Geotechnical Engineering) (Univ of Birmigham, UK), MEng. (Geotechnics) (UTM), BEng. (Civil) (UTM), Dip. (Civil Engineering) (UTM)

Ir. Ts. Dr. Raha Binti Abd Rahman
Ph.D (Highway & Traffic Engineering) (UTM), MEng. Highway & Traffic Engineering) (UPM), BEng. (Civil) (UPM)

Ir. Dr. Shahrul Niza bin Mohkatar
PhD (Civil & Structure Eng.)(Kyushu Univ.), MEng. (Civil-Structural) (UTM), BEng. (Hons.) (Civil) (UTHM), Dip. Ed. (Civil Engineering) (UTHM)

Ir. Dr. Zainorizuan bin Mohd Jaini
Ph.D (Civil and Computational Engineering) (Univ. of Swansea, UK), MSc. (Finite Element & Computer Modelling) (Univ. Wales, UK), BEng. (Hons.) (Civil Engineering) (UTHM)

Ir. Shamrul-Mar bin Shamsuddin
MEng. (Structure & Construction) (UPM), BEng. (Hons.) (Civil Engineering) (UTM)
Sr. Dr. Anuar bin Mohd Salleh
Ph.D (Civil Engineering) (UTHM), MSc. (Land Surveying) (UTM), BSc. (Land Surveying) (UTM)

Ts. Dr Alvin John Lim Meng Siang
Ph.D (Geotechnical Engineering) (UTHM), BEng. (Civil Engineering) (UTHM)

Ts. Dr. Kamaruddin bin Ambak
Ph.D (Transportation Engineering) (UKM), MSc. (Highway and Transportation Engineering) (UPM), BSc. (Civil Engineering) (UTM), Cert. (Civil Engineering) (PKB)

Ts. Dr. Mohd Ariff Ahmad Nazri
PhD (Hydrology & Water Resources)(USM), MEng (Civil)(USM), Beng (Civil)(USM)

Ts. Dr. Nor Azizi bin Yusof
Ph.D (Geotechnical Engineering) (Univ. Sheffield, UK), MEng. (Engineering Geology) (UTM), BEng. (Hons.) (Civil) (UTM)

Ts. Dr. Norashidah binti Abd Rahman
Ph.D (Civil Engineering) (Univ. of Nottingham, UK), MEng. (Structure) (UTM), BEng. (Hons.) (Civil) (UTM), Dip. (Civil Engineering) (UTM)

Ts. Dr. Hjh. Roslinda binti Seswoya
PhD (Civil)(UTHM), MEng (Civil) (UTHM), BEng (Hons.) (Civil) (UTHM), Dip. (Civil Engineering) (UTHM)

Ts. Dr. Sabariah binti Musa
Ph.D (Urban Storm Water Management) (USM), MEng. (Civil-Hydraulics & Hydrology) (UTHM), BEng. (Civil) (UTHM), Dip. (Civil Eng.) (PPD), Cert. (Survey Engineering) (MLVK)

Ts. Dr. Shahiron bin Shahidan
Ph.D (Civil Engineering) (USM), MSc. (Structural Engineering & Construction) (UPM), BEng. (Hons.) (Civil) (UNISEL)

Dr. Adel Ali Saeed Abduh Alghheeti
PhD (Microbiology)(USM), MSc (Microbiology) (Taiz Univ.), BSc (Microbiology)(Taiz Univ.)

Dr. Ahmad Zurisman bin Mohd Ali
Ph.D (Concrete Engineering) (Swinburne Univ.of Technology), MEng. (Civil-Structure) (UTM), BEng. (Civil) (UTHM), Dip (Civil Engineering) (UTHM)

Dr. Azra Munirah binti Mat Daud
Ph. D (Civil-Environmental) (UWA) AUSTRALIA, MEng. (Civil-Environmental) (UTM), BEng. (Civil) (UTHM)

Dr. Basil David Daniel
Ph.D (Transportation Engineering) (University Of Canterbury), MSc. (Highway and Transportation Engineering) (UPM), BEng. (Civil) (UM)

Dr. Faisal bin Sheikh Khalid
Ph.D (Civil Engineering) (UTHM), BEng. (Civil Engineering)(UTHM)

Dr. Faizal bin Pakir
PhD (Civil)(UTHM), MEng (Civil) (UTHM), BEng. (Civil) (UTHM), Dip. Ed. (Civil Engineering) (UTHM)

Dr. Goh Wan Inn
Ph.D (Civil Engineering) (UTHM), BEng. (Civil Engineering)(UTHM)

Dr. Hartini binti Kasmin
Ph.D (Hydrology and Water Resources) (Univ. Sheffield, UK), MEng. (Hydrology and Water Resources) (UTM), BEng. (Civil) (UTHM)
Dr. Hendy Fitrian Suhandri  
PhD (Geodetic Eng)(Univ. of Stuttgart), M.Geomatic Eng. (Univ. of Stuttgart), B.Geodetic & Geomatic Eng.(ITB)

Dr. Masni binti A. Majid  
Ph.D (Engineering Tech & Struc.)(UKM), MEng. (Civil) (UTM), BSc. (Civil Engineering and Education) (UTM)

Dr. Mohd Azlan Bin Mohd Yusoff  
Ph.D (Hydro Informatic) (USM), MSc (Sustainable River Management) (USM), BSc (Civil Engineering) (USM)

Dr. Mohd Firdaus bin Md. Dan @ Azlan  
Ph.D (Civil Engineering) (UTHM), MEng (Civil) (UTHM), BEng. (Civil) (UTHM), Dip. Ed. (Civil Engineering) (UTHM)

Dr. Mohd Hairul Bin Khamidun  
Ph.D (Civil Eng.) (UTM), MSc. (Water Resources Eng.) (UPM), BSc (Civil Engineering) (USM)

Dr. Mohd Haniffi Bin Othman  
Ph.D (Civil Engineering) (UTM), BEng. (Civil Engineering) (UTM)

Dr. Mohd Hanif bin Ismail  
PhD (Concrete Eng.)(USM), MEng. (Pengurusan Sungai Lestari) (USM), BSc. (Civil Engineering) (USM)

Dr. Mohd Khaidir bin Abu Talib  
Ph.D (Geotechnical Engineering) (Kyushu Univ.), MEng. (Civil-Engineering) (UKM), BEng. (Civil-Engineering) (UKM), Dip. (Civil)(PPD)

Dr. Mohd Shalahuddin bin Adnan  
Ph.D (Urban and Environmental Engineering) (Kyushu Univ., Japan), Master in Geological Engineering (Gadjah Mada Univ., Yogyakarta), BEng. (Civil) (USM)

Dr. Muhammad Nizam bin Zakaria  
Ph.D (Civil Engineering) (Saga Univ.), MEng. (Civil) (Saga Univ., Japan), BEng. (Civil) (Saga Univ., Japan)

Dr. Muhammad Salleh Bin Haji Abustan  
Ph.D (Civil Eng.) (Kyoto Univ), MEng. (Civil-Environmental Management) (USM), BSc. (Civil Eng.) (USM)

Dr. Nasradeen Ali Khalifa Milad  
PhD (Civil)(UMP), M.IT (UUM), B.Eng (Civil)(College of Technical Science)

Dr. Nazirah Mohamad Abdullah  
PhD (Geomatic Eng)(UTM), M.Geomatic Eng. (UTM), B.Land Surveying(UTM)

Dr. Nicholas Anting Anak Guntur  
Ph.D (Civil Engineering) (UTM), BEng. (Civil Engineering)(UTM)

Dr. Nor Amani Filzah binti Mohd Kamil  
Ph.D (Civil Engineering) (UTM), MEng. (Environmental Management) (UTM), BEng. (Civil) (UTM)

Dr. Nor Hayati binti Abd Ghafar  
Ph.D (Civil Engineering) (Univ. Of Canterbury), MEng. (Civil-Structure) (UTM), BSc. (Structural Engineering) (UKM)

Dr. Nor Hazurina Othman  
PhD (Construction Technology)(USM), MEng (Structure)(UTM), BEng (Civil)(UTM)

Dr. Norfanzia binti Mokhtar  
Ph.D (Civil Engineering) (USM), MEng (Civil) (UTHM), BEng. (Civil) (UTM)
Dr. Noor Azlina binti Abdul Hamid
Ph.D (Civil Engineering) (UTM), MEng. (Civil-Structural) (UTM), BEng. (Civil) (UTM)

Dr. Noorwirawati binti Ali
Ph.D (Civil Engineering) (UTHM), BEng. (Civil) (UTM), Dip. (Civil Engineering) (UTM)

Dr. Nur Adila binti Ab. Aziz
PhD (Enviromental Eng.) (RMIT), MSc. (Civil and Environmental Eng.) (UTHM), BSc. (Civil Eng.) (UTHM)

Dr. Nur Shaylinda binti Mohd Zin
Ph.D (Water & Waste Water Eng.) (USM), (Environmental Management) (UTM), BEng. (Civil) (UiTM), Dip. (Civil Eng.) (UiTM)

Dr. Nurazuwati binti Md Noor
Ph.D (Concrete Eng.) (Kyushu Univ.), MSc. (Structural Engineering and Construction) (UPM), BEng. (Civil) (UTHM), Dip. (Civil Engineering) (UTHM), Cert. (Civil Engineering-Construction) (PKB)

Dr. Nursithazlin binti Ahmad Termida
PhD (Transportation Science Eng.), MEng. (Highway & Transportation) (UPM), BEng. (Civil) (UTHM)

Dr. Nurul Hidayah binti Mohd Kamaruddin
Ph.D (Civil) (UTHM), MEng. (Civil) (UTHM), BEng. (Civil) (UTHM), Dip. Ed. (Civil Engineering) (UTHM)

Dr. Sallehuddin Shah bin Ayop
Ph.D (Civil Eng.), Heriot-Watt Univ.), MEng. (Civil-Structure) (UTHM), BEng. (Civil) (UTHM)

Dr. Sharifah Salwa binti Mohd Zuki
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Dr. Siti Nazahiyah binti Rahmat
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Dr. Siti Radziah binti Abdullah
PhD (Structure & Material)(Monash Univ.), BEng. (Hons.) (Civil) (KUITTHO), Dip. Ed. (Civil Engineering) (UTHM)

Ir. Mustafa Kamal bin Shamsudin
MEng. (Geotechnics) (UTHM), BEng. (Civil) (UTHM)

Ir. Mohammad Soffi bin Md Noh
MEng (Structural)(UPM), BEng. (Civil) (UTHM), Dip. (Civil Engineering) (UTHM)

Sr. Khairul Nizam bin Mohd Yunus
MEng. (Civil-Transportation & Highway) (UTHM), Bachelor in Land Surveying (UTHM), Dip. (Survey Science & Geomatic) (UiTM)

Sr. Saifullizan bin Mohd Bukari
MSc. (Land Surveying) (UTHM), BSc. (Land Surveying) (UTHM), Dip. (Land Surveying) (PUO)

Ts. Ahmad Raqib bin Ab Ghani
MSc. (Highway and Transport Engineering) (USM), BEng. (Hons.) (Civil Engineering) (USM)

Ts. Mohd Fairus bin Yusof
MEng. (Geotechnics) (UTHM), BEng. (Civil) (UTHM), Dip. (Civil Engineering) (UTHM)

Ts. Rosnawati binti Buhari
MEng. (Civil) (UTHM), BEng. (Civil) (UTHM), Dip. (Civil Engineering) (UTHM)

Mr. Ahmad Fahmy bin Kamarudin
MEng (Civil & Structural)(UiTM), BEng. (Hons.) (Civil) (UTHM)

Mr. Koh Heng Boon
MEng. (Structure) (UTM), BEng. (Hons.) (Civil) (UTM), Dip. (Civil Engineering) (UTM)

Mr. Mohd Baharudin bin Ridzuan
MEng. (Civil) (UTHM), BEng. (Civil-Structure) (UKM)

Mr. Mohd Khairy bin Burhanudin
MEng (Civil) (UTHM), BEng. (Civil) (UTHM)

Mr. Mohammad Nasir bin Mohamad Taher
MEng (Civil) (UTHM), BEng. (Hons.) (Civil) (UTHM)

Mr. Wan Afnizan bin Mohamad @ Wan Abd Ghani
MSc. (Water Engineering) (UPM), BEng. (Hons.) (Civil) (UTM), Dip. (Civil Eng.) (UTM)

Mdm. Norhafizah binti Salleh
MEng (Civil)(UiTM), BEng. (Civil-Timber Technology) (UTHM)

Mdm. Noor Aliza binti Ahmad
MSc. (Water Engineering) (UPM), BEng. (Civil) (UTM), Dip. (Civil Eng.) (ITM)

Mdm. Noorliyana binti Omar
MEng. (Highway & Traffic) (UTM), BEng. (Civil) (UTM), Dip. (Civil Engineering) (UTM)

Mdm. Tuan Norhayati binti Tuan Chik
MEng (Structural)(UTHM),BEng. (Civil) (UTM)

Mdm. Zaihasra binti Abu Talib
MEng. (Geotechnics) (UTM), BEng. (Civil) (UNIMAS)

Mdm. Zalipah binti Jamellodin
MEng. (Civil-Structure) (UTM), BEng. (Civil) (UTM)

Mdm. Zarina binti Md Ali
MSc. (Water Resources Eng.) (UPM), BEng. (Agriculture) (UPM)

Mdm. Salina binti Sani
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**Technical Staff**

**Mr. Kasim bin Sebli**  
Cert. (Civil-Road and Water Works) (PUO)

**Mdm. Aziah binti Abu Samah**  
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**Mdm. Jalilah binti Mokhtar**  
Dip. (Civil Engineering) (POLIMAS), Cert. (Civil Engineering-Building) (PSA)

**Mdm. Norita binti Samsudin**  
Dip. (Civil Engineering) (PPD), Cert. (Civil Engineering) (POLISAS)

**Mdm. Norkama Azura binti Dolah**  
Dip. (Building Services Engineering) (POLIMAS), Cert. (Building Services Engineering) (POLIMAS)

**Mdm. Nurul Adila binti Jablan**  
Dip. (Building Services) (POLISAS), Cert. (Building Services) (POLISAS)

**Mdm. Siti Fadzilah binti Kasno**  
Dip. (Civil Engineering) (PPD), Cert. (Civil Engineering) (PKM)

**Mr. Abdul Rahim bin Shamsudin**  
Cert. (Architecture) (PUO)

**Mr. Afandi bin Abu Bakar**  
Cert. (Civil Engineering-Construction) (POLISAS)

**Mr. Amran bin Abd. Rahman**  
Cert. (Civil Engineering) (PKM)

**Mr. Azuan bin Poharan @ Bunari**  
Cert. (Building Services Engineering) (PSA)

**Mr. Idris bin Abdul Hamid**  
Cert. (Vocational Studies) (Muar)

**Mr. Mohd Azwan bin Busu**  
Cert. (Highway Engineering) (PKB)

**Mr. Mohd Bahtiar bin Mohd Basri**  
Cert. (Civil Engineering-Construction) (POLISAS)

**Mr. Mohd Ayob bin Sahlan**  
Cert. (Architecture) (PUO)

**Mr. Osman bin Abd Rahman**  
Cert. (Civil Engineering-Surveying) (PUO)

**Mr. Razali bin Slamat**  
Cert. (Quantity Surveying) (POLIMAS)

**Mr. Sabari bin Wahab**  
Cert. (Civil Engineering - Construction) (PUO)

**Mr. Sahidin bin Ghazali**  
Cert. (Land Surveying) (POLISAS)
Mr. Sariman bin Ahmad
Cert. (Civil Engineering) (PUO)

Mr. Suhaimi bin Harun
Cert. (Civil Engineering-Road and Water Works) (PKB)

Mr. Shaiful Hisham bin Saaban
STPM (Dato Menteri Air Hitam, Batu Pahat)

Mdm. Asmah binti Ibrahim
Cert. (Civil Engineering-Construction) (POLISAS)

Mdm. Hazliana binti Padalilah
Cert. (Civil Engineering) (PKM)

Mdm. Roslina binti Jamil
Cert. (Civil Engineering-Construction) (PSA)

Mdm. Sharifah Zuhriah binti Syed Fadzil
Cert. (Civil Engineering-Construction) (POLIMAS)

Mdm. Zamra binti Jasman
Cert. (Civil Engineering) (PUO)
Programme Name

Bachelor Science of Architecture

Programme Aims

The aim of the Bachelor Science of Architecture is to strive to produce innovative and technically competent architectural graduates ready to respond and engage the community and the environment in creating sustainable built environment for the benefits of mankind.

Programme Educational Objectives (PEO)

The PEOs for Bachelor Science of Architecture is to produce students who capable to:

<table>
<thead>
<tr>
<th>No</th>
<th>PEO Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEO 1</td>
<td>Fulfill the industrial requirements on architecture based on the knowledge and skills acquired.</td>
</tr>
<tr>
<td>PEO 2</td>
<td>Design marketable architectural ideas creatively and innovatively.</td>
</tr>
<tr>
<td>PEO 3</td>
<td>Practice professional responsibilities ethically through the engagement of lifelong learning.</td>
</tr>
<tr>
<td>PEO 4</td>
<td>Propose ideas on architectural issues effectively and display good leadership quality.</td>
</tr>
</tbody>
</table>

Programme Learning Outcomes (PLO)

These are the PLOs for Bachelor Science of Architecture:

<table>
<thead>
<tr>
<th>PEO</th>
<th>Key Idea</th>
<th>Description</th>
<th>Primary domain type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Architectural Knowledge (K)</strong></td>
<td>Demonstrate understanding of cultural, historical and established architectural theories, philosophies and context in various architectural scenarios and community scales.</td>
<td>Cognitive</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Practical / Technical Skills/ Modern Tool Usage (PS)</strong></td>
<td>Produce a comprehensive solution to various architectural problems using appropriate practical technology, established regulations and appropriate design skills.</td>
<td>Psychomotor</td>
</tr>
<tr>
<td>3.</td>
<td><strong>Critical Thinking and Problem Solving / Investigation (CTPS)</strong></td>
<td>Demonstrate creativity, innovation and imagination in addressing particular issue(s) and/or problem(s) to devise a feasible solution.</td>
<td>Cognitive</td>
</tr>
<tr>
<td>4.</td>
<td><strong>Communication Skills (CS)</strong></td>
<td>Apply effective visual, verbal and written communication method and media to deliver convincing design solution using appropriate architectural convention.</td>
<td>Affective</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Individual / Team Work (TW) and Leadership Skills / Project Management and Finance (LS)</strong></td>
<td>Lead, work, function and participate in specific role in performing task in a team.</td>
<td>Psychomotor</td>
</tr>
<tr>
<td>6.</td>
<td><strong>Entrepreneurship Skills (ES)</strong></td>
<td>Seek opportunity and use of appropriate skill towards self-sustenance.</td>
<td>Psychomotor</td>
</tr>
<tr>
<td>PEO</td>
<td>Key Idea</td>
<td>Description</td>
<td>Primary domain type</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>7.</td>
<td>Life Long Learning (LL)</td>
<td>Engage in a voluntary, self-motivated and continuous acquisition of knowledge to keep abreast of any developments in architectural field</td>
<td>Affective</td>
</tr>
<tr>
<td>8.</td>
<td>Ethics and Professionalism Values (ET)</td>
<td>Display appropriate behaviour according to architectural industry standard, moral standing and environmental ethics.</td>
<td>Affective</td>
</tr>
</tbody>
</table>
## Curriculum

Table 1. Summary of curriculum for Bachelor Science of Architecture

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course Code</th>
<th>Courses</th>
<th>Credit</th>
<th>Total</th>
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<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>UHB 10100</td>
<td>English for Higher Education</td>
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<tr>
<td></td>
<td></td>
<td>UQI 10102</td>
<td>* Islamic Studies /</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td>UQI 10202</td>
<td>**Moral Studies</td>
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<td></td>
<td></td>
<td>BFR 10106</td>
<td>Architecture Studio 1</td>
<td>6</td>
<td>16</td>
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<tr>
<td></td>
<td></td>
<td>UQ* 1xxx2</td>
<td>Foreign Language</td>
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<td></td>
<td>UQ* 1xxx1</td>
<td>Co-Curriculum I</td>
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<td></td>
<td></td>
<td>BFR 10203</td>
<td>Basic Principle of Architecture and Presentation Technique</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>BFC 23702</td>
<td>Creativity and Innovation</td>
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</tr>
<tr>
<td></td>
<td>II</td>
<td>BFR 10306</td>
<td>Architecture Studio 2</td>
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<td>19</td>
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<td></td>
<td></td>
<td>BFR 10402</td>
<td>Architectural Profession and Construction Industry</td>
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<td></td>
<td>BFR 10503</td>
<td>Architectural Working Drawing I (CAD)</td>
<td>3</td>
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<td></td>
<td>BFR 10603</td>
<td>Interior Architecture</td>
<td>3</td>
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<td>BFC 10202</td>
<td>Nature Conservation</td>
<td>2</td>
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<td>UQ* 1xxx1</td>
<td>Co-Curriculum II</td>
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<td>UHB 20102</td>
<td>Essential Academic English</td>
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<td></td>
<td>III</td>
<td>BFR 10703</td>
<td>Appreciation of Cities</td>
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<td>8</td>
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<td></td>
<td>BFR 10803</td>
<td>Site Appraisal and Planning</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>BFR 11702</td>
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SYNOPSIS OF UNIVERSITY COURSES

UHB10100/UHB10200 English For Higher Education

Synopsis
This course exposes students to English language learning in higher education and enhances their study skills. Students have opportunities to learn about using technological affordances in listening to lectures, note taking, library and internet research, conducting academic group discussions, preparing and delivering presentations, and writing an academic report. The course also provides opportunities for students to acquire learning skills that facilitate the transition to tertiary education. Aspects of English language oral and written skills that are most relevant to students in their academic work will be reinforced.

References

UHB 20102/UHB 20202 Essential Academic English

Synopsis
This course enhances students’ English language skills, emphasising listening and reading skills necessary for academic contexts. The course provides opportunities for students to learn the strategies to help them understand information from documentaries, lectures and paper presentations and develop analytical listening to differentiate between facts and opinions. This course also provides opportunities for students to develop skills to critically respond to academic materials such as journal articles.

References

UHB 30102/UHB 30202 English For Technical Purposes

Synopsis
This course aims to prepare students with the skills to write reports and express ideas or opinions competently. Students will be equipped with persuasive strategies that can be applied to writing technical reports. The course will also enable them to practice these techniques by drafting and collaborating to produce assigned tasks. The students are also expected to orally present their proposals and written reports before an audience or a panel examiners.
References

UHB 40102/ UHB 40202 English for Occupational Purposes

Synopsis
This course employs a task-based learning approach and focuses on developing students’ delivery of speech in oral interactions, job interviews and presentations. Particular emphasis will be given to promote the mastery of self-directed learning, team-work, research, oral presentations, reasoning and creativity. This course also enables students to acquire the knowledge and skills necessary for conducting and participating in meetings, which includes writing meeting documents and event proposals based on specific themes. Students will also be exposed to interview techniques.

References

UQU1xxx3 Appreciation for Ethics and Civilisation

Synopsis
xxxxxxxxxx.

References
1. xxxxxxxx

UQU1xxx2 Philosophy and Current Issues

Synopsis
xxxxxxxxxx

References
1. xxxxxxxx

UQI10102 Islamic Studies
**Synopsis**
This course explains about Islamic concept as ad-deen. It discusses the study of al-Quran and al-Hadith, Sunnism, schools of Islamic theology, development of schools of Fiqh, principles of muamalat, Islamic Criminal Law, Islamic work ethics, issues in Islamic family law and current issues.

**References**

**UQI10202 Moral Studies**

**Synopsis**
This course explains on concepts of moral, aspects of moral and its importance in daily lives, Western moral theories and moral values of great religions of the world, moral values in work and current moral issues.

**References**

**UQ*Ixxxx1 Co-Curriculum I**

**Synopsis**
This course is offered in the form of multiple choice of activities for Diploma students and undergraduates. Three categories of activities offered are Sports and Recreational, Club/Associations and Uniform Bodies.

**UQ*Ixxxx1 Co-Curriculum II**

**Synopsis**
This course is offered in the form of multiple choice of activities for Diploma students and undergraduates. Three categories of activities offered are Sports and Recreational, Club/Associations and Uniform Bodies.

**UWB 10602 French Language**

**Synopsis**
This course is designed for students to learn the basic of French. Students are exposed to the skills of listening, reading, speaking and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using French.

**References**

**UWB10702 German Language**

**Synopsis**
This course is designed for students to learn the basic German language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using German language.

**References**

**UWB10802 Japanese Language**

**Synopsis**
This course is designed for students to learn the basic Japanese language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Japanese language.

**References**

**UWB10902 Mandarin Language**

**Synopsis**
This course is designed for students to learn the basic of Mandarin. Students are exposed to the skills of listening, reading, speaking and writing with basic vocabulary, grammar and structure. Students are also exposed to the real daily situations which will help them to communicate using Mandarin Language.

**References**
UWB11002 Malay Language

Synopsis
This course is designed for students to learn the basic Malay language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar, and structure. Students are also exposed to the real daily situations which will help them to communicate using Malay language.

References

UWB11102 Spanish Language

Synopsis
This course is designed for students to learn basic Spanish language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar, and structure. Students are also exposed to the real daily situations which will help them to communicate using Spanish language.

References

UWB11202 Arabic Language

Synopsis
This course is designed for students to learn the basic of Arabic. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar, and structure. Students are also exposed to the real daily situations which will help them to communicate using Arabic.

References

UWB11302 Javanese Language

Synopsis
This course is designed for students to learn the basic Javanese language. Students are exposed to the skills of listening, reading, speaking, and writing with basic vocabulary, grammar, and structure. Students are also exposed to the real daily situations which will help them to communicate using Javanese language.

References


SYNOPSIS OF BACHELOR SCIENCE OF ARCHITECTURE

BFR 10203 Basic Principle of Architecture and Presentation Technique

Synopsis
This course introduces students to all architectural presentation techniques using manual and modern digital approach. The course focuses on the knowledge and skill of basic design critique. It will be based on a set of basic design principles and theories including critical theory, knowledge and practice of visual acuity and literacy, as well as studies on architectural typology. The course also introduces the students to the architectural planning principles so they can correlate planning and concepts in the design proposal.

References

BFC23702 Creativity and Innovation

Synopsis
This course focuses on developing a creative person who will eventually think strategically, creatively and critically. The knowledge and skills acquired throughout the course will later be applied by the students in creative problems solving (CPS) and making decisions in the future. In this course, students will be exposed to various creative thinking and problem solving techniques, creative and innovative skills.

References

BFR 10106 Architecture Studio 1

Synopsis
Architectural Studio 1 is a fundamental studio based system in architectural studies. Students are exposed to the basic principles of architectural design through the exploration of surrounding case studies where the principles are to be identified. Students will therefore perform the application of the principles in given project tasks. Projects given are categories in series of short projects which to be handled in maximum 3 weeks and one final project which to be handled in maximum 4 weeks. Final project will required a final presentation which to be accessed by panels besides the studio masters. Students are expected to be able to develop their ideas along the architectural principles understanding which to be presented along with the design development process.
References

BFR 10306 Architecture Studio 2
Pre-requisite: BFC10106 Architecture Studio I

Synopsis
Architectural Studio 2 is the continuation of Architectural Studio 1. Upon understanding the architectural principle application in Studio 1, students are exposed to a bigger scale users. Although hypothetical site will be given for the projects, emphasize on green environmental surrounding will be the main type of site setting for the projects to create design awareness of environmental preservation. The understanding on the site condition will be integrated with a course on conservation and natural environment which the students will be taken concurrently in the same semester. Therefore, timber and simple brick and block will be focused as the materiality of the projects in this studio. Projects given are categories in series of projects which to be handled in maximum 3 weeks and one final project which to be handled in maximum 4 weeks. All projects required presentation session which to be accessed by panels besides the studio masters. Students are expected to perform the design process which to be presented along with the final project design outcome.

References:

BFC10202 Nature Conservation

Synopsis
Nature conservation is the wise management and utilisation of natural renewable resources in a sustainable manner to ensure the maintenance of biodiversity. There is an increasing awareness that the conservation of the world’s natural resources is vital for human survival. This course introduces students to nature conservation and understanding impacts of human activities on environment. Scope of study includes the need to maintain a good natural environment, introduction to the principles and practice of conservation and responsibility to maintain the environment.

References:
BFR 10402 Architectural Profession and Construction Industry

**Synopsis**
This course covers the introduction to architectural profession, construction industry and other players involved in the construction industry.

**References**

BFR 10503 Architectural Working Drawing I (CAD)

**Synopsis**
This subject is designed to improve the students' skill using the AutoCAD software and produce the working drawings. Topics covered include the overview of drawing preparation which is covered, structures or system drawings in the construction, Introduction to AutoCAD: main window and toolbars, title block, Architectural drawings: orthographic projection, elevation, building envelope elements, dimension, Structural Drawing: Types of structure / system drawings, intersection of structures and building, detailing, and Services schematic diagrams: mechanical and electrical services.

**References**

BFR 10603 Interior Architecture

**Synopsis**
The course prepares ground for the students to gain an understanding into the fundamental issues in building design on interior design problems solutions. Understanding various art forms, appreciation of art along with social and cultural influences on design. Knowledge required for specifying appropriate materials for various spaces in interiors of buildings and mass production of furniture for various classes of people with the parameters of economy and culture. Responsiveness that enables to deal effectively with specialists and consultants in acoustics, lighting and to predict climatic conditions in a given building and redesign for given parameters. Understanding into the practical design problems related to way finding and develop the knowledge with various types of signage and way finding systems in the built environment.

**References**

**BFR 10703 Appreciation of Cities**

**Synopsis**
Most settlement and physical development in developing countries occurs in cities. Understandably, the role of an architect is visible largely in projects within a city boundary. Hence, it is essential for students of architecture to be equipped with awareness and understanding of city development. This course provides students with opportunity to study and experience urban environment in selected cities.

**References**

**BFR 10803 Site Appraisal and Planning**

**Synopsis**
This course equips students with site appreciation skills using reverse engineering skills. The use of SWOT analysis will provide an understanding of relationship between empty site and existing development, as well as the theoretical possibility should the student become part of the (future) development team. It also strengthen the students’ precedent study methodology.

**References**

**BFR 11702 Community Engagement**

**Synopsis**
This course promotes students to become school ambassadors to promote architecture programme of UTHM to selected community. Each semester students will embark to the selected community in parallel with Architectural Measured Drawing course. Students are required to prepare engagement plan prior to the visit and document the whole engagement activities into a written report.

**References**

**BFR 20906 Architecture Studio 3**
**Pre-requisite: BFC10306 Architecture Studio 2**

**Synopsis**
Architectural Studio 3 is focusing on small organization architectural needs in the aspect of spaces and physical building. Consideration on the sustainable design is emphasized in this studio projects. Students are introduced to passive design approach. Actual site context is also introduced where students have to be critical in problem solving. Projects given are categories in series of projects which to be handled in maximum 4 weeks and one final project which to be handled in maximum 5 weeks. All projects required presentation session which to be accessed by panels besides the studio.
masters. Students are expected to perform the design process which to be presented along with the final project design outcome.

References

BFR 21003 History and Theory of Architecture

Synopsis
The history of architecture traces the changes in architecture through various traditions, regions, overarching stylistic trends, and dates. This course examines architecture through time, beginning with First Societies and extending to the 15th century. Though the course is chronological, it is not intended as a linear narrative, but rather aims to provide a more global view, by focusing on different architectural moments.

References

BFR 21103 Sustainability in Architecture

Synopsis
Construction industry has a significant impact to environment, social and economic to any countries, especially for a developing country like Malaysia. This course introduces students various impacts of construction activities including its global warming, climatic changes and desertification. The principles of sustainable construction will be introduced and how the integration of these elements will be discussed in this subject. The assessment of indoor performance such as acoustic quality, ventilation and lighting will be explored in conjunction to green technologies. In addition, green building assessment will be introduced to students with several examples or case studies to develop understanding on this concept.

References

BFR 21203 Building Construction I (Material and Construction)

Synopsis
Construction materials have an important role to play for sustainable construction. This course introduces students various types of construction materials including its classification, properties, laboratory testing, manufacturing process and applications in civil engineering. Scope of study includes cement, aggregates, concrete, bricks and masonry, timber, steel and other construction materials.

References


BFR 21306 Architecture Studio 4
Pre-requisite: BFC 20906 Architecture Studio 3

Synopsis

Architectural Studio 4 emphasizes on the needs to comply the architectural requirements for small-medium community. Students are exposed to actual sub urban sites where the community issues have to be addressed. Wider scope of passive design approach is expected in the design development while structural sense and understanding of load distribution is also emphasized. Projects given are categories in series of projects which to be handled in maximum 4 weeks and one final project which to be handled in maximum 5 weeks. All projects required presentation session which to be accessed by panels besides the studio masters. Students are expected to perform the design process which to be presented along with the final project design outcome.

References


BFR 21403 Architectural Working Drawing II (BIM Authoring)

Synopsis

This course provides a basic principle in Building Information Modelling (BIM) through theoretical and practical components. A BIM model will be developed and combined based on application of separate disciplines of architecture, construction and building services engineering, to create a common visualisation model for coordination.

References

BFR 21503 Construction Engineering

Synopsis
The construction industry is continually adopting new and improves technologies for increasing productivity and quality to meet present and future needs of human kind. Construction engineering addresses the needs of improving the technology through application of fundamental of science and engineering. This course introduces students to identify various types of construction components and method to lay a solid foundation in all areas of construction engineering. Scopes of study are building sub-structure, super structure, formwork, jointing in concrete structure, scaffolding and construction plant.

References

BFR 21603 Measured Drawing

Synopsis
Students will conduct the Measured Drawing on existing buildings focusing on notable structural, construction and/or detailing under supervision of the respective supervisor. The course involves on-site data collection from pre-selected building in the form visual recording (measured drawing, photography, sketches) and survey using appropriate surveying tools. The data collected will be represented in Measured Drawing format and Written Report.

References

BFR 22503 Landscape Architecture

Synopsis
This course introduces students to basic knowledge on landscape architecture. Overview of the importance of landscape architecture in complimenting the architecture projects towards balancing the environment. Study on the landscape design theory

References

BFR 22602 Geomatic Engineering

Synopsis
Students will conduct the field work survey to collect physical data of an area or existing buildings and then produce survey drawings using the collected data.
**References**


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**BFR 31808 Architecture Studio 5**

*(Pre-requisite: BFR21306 Architecture Studio 4)*

**Synopsis**

Architectural Studio 5 emphasizes on the needs to comply the architectural requirements for medium sized community. Students are exposed to actual urban sites where the students have to respond theoretically to the community issues. Total planning and functionality is focused in the studio. Basic active approach of building services is expected to be applied by students. Projects given are categories in series of projects which to be handled in maximum 4 weeks and one final project which to be handled in maximum 5 weeks. All projects required presentation session which to be accessed by panels besides the studio masters. Students are expected to perform the design process which to be presented along with the final project design outcome.

**References**


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**BFR 31903 Building Infrastructure**

**Synopsis**

Building construction consist several elements in order to function as the end user expected. The elements are including sub-structure, superstructure, finishes and infrastructure. This course introduces student to the infrastructure elements in a building. This course provide understanding on principles of building infrastructure, water supply infrastructure, sanitary discharge system, energy and water supply, communication infrastructure, and solid waste management infrastructure.

**References**

BFR 32003 Building Construction II (Design and Detailing)

Synopsis
This subject will explain the architectural building construction industry that is continually adopting new and improves technologies for increasing productivity and quality to meet present and future needs of human kind. Construction engineering addresses the needs of improving the technology through application of fundamental of science and engineering. This course introduces students to various types of building construction components and method to lay a solid foundation in all areas of building construction engineering, which include site investigation, building setting out, earthwork, sub-structure, super-structure, finishing and infrastructure.

References

BFR 32103 Building Services Technology

Synopsis
This course covers the basic principles, types, and applications of mechanical, electrical systems in commercial construction. It introduces students to design, installation, operation and monitoring of the mechanical, electrical and public health systems required for the safe, comfortable and environmentally friendly operation of modern buildings. The scope of this course includes fundamental of building physic, ventilation system, fire safety, electrical and water supply.

References

BFR 32208 Architecture Studio 6
(Pre-requisite: BFR 31808 Architecture Studio 5)

Synopsis
Architectural Studio 6 is a comprehensive design studio which expect application of knowledge and skills acquired through out the programme. Students are exposed to actual urban sites where the students have to respond to current needs/issues related to surrounding community. The projects involve total planning and UBBL implementation. Projects given are categories in a projects which to be handled in maximum 4 weeks and one final project which to be handled in maximum 5 weeks. All projects required presentation session which to be accessed by panels besides the studio masters. Students are expected to perform the design process which to be presented along with the final project design outcome.

References
BFR 32302 Architectural Project Management

Synopsis
The construction industry is continually adopting new and improves technologies for increase the productivity and quality to meet present and future needs of human kind. Architectural project management addresses the needs of improving the technology through application of fundamental of science and engineering. This course introduces students to identify various types of management components and issues in all areas of architectural project management. Scopes of study are management in construction such as definition of project management, management functions, project management functions, building process, and project scheduling.

References

BFR 32403 Building Law and Legislation

Synopsis
Building laws and legislation are essential in project development process to ensure the project success according to the existing Uniform Building By-Laws (UBBL), 1984. This course introduces students to the common Malaysian building laws. The aim is to provide knowledge and understanding about legal and administration procedures in the process development of building projects. Scopes of study includes BuildingRegulation, fire safety regulation, submission for approval for planning and building, certification of completed building through the use of Certificate of completion and compliance (CCC) system.

References
BFC34502 Entrepreneurship

Synopsis
This course covers various topics related to basic entrepreneurship including introduction to entrepreneurship, entrepreneur’s characteristics and motivation, screening business environment and opportunity, formation of business and managing business. Students will also be exposed to real business.

References

BFC 43502 Occupational Safety and Health

Synopsis
This course introduces students to knowledge and skills in occupational safety and health in workplace. Scopes of the study include: Health and Safety Management- OSHA 1994 (Act 514), construction regulation, safety and health management, and safety and health culture; Risk assessment- legal aspect of risk assessment, and risk assessment process; Safety hazards and controls- slips, trips, and falls, caught-in or –between objects, struck by objects, fire and explosions, transportation and vehicle related accidents, confined space, electrical hazards and mechanical handling; Health hazards- chemical hazards, physical hazards, biological hazards, and ergonomics and repetitive strain injuries; and Incident/Accident investigation and reporting- accident causation models, incident investigations, incident analysis and data collection, and incident reporting.

References
### Malaysian Qualifications Framework: Qualifications and Levels

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Source: Malaysian Qualification Framework