

ENTRY REQUIREMENTS

Further Study Options :

A graduate in Bachelor of Architectural Science or Bachelor of Architecture can proceed to Master of Science in Architecture by research. Research areas include passive energy building designs, architectural engineering, architectural education, urban study, heritage architecture study, landscape architecture, housing, etc.

After completion of Master of Science in Architecture, a graduate can continue to a doctorate program either in the same or other research fields.

SYARAT KEMASUKAN

STPM/Matrikulasi/Asasi

Mendapat sekurang-kurangnya **PNGK 3.00**, dan Mendapat sekurang-kurangnya **Gred B-(NGMP 2.67)** pada peringkat STPM/Matrikulasi (Sains atau Teknikal) / Asasi dalam mata pelajaran berikut:

- Mathematics / Mathematics T / Further Mathematics T
- Chemistry / Engineering Chemistry
- Physics / Engineering Physics
- atau
- Mathematics / Mathematics T / Further Mathematics T Chemistry
- Biology; dan

Mendapat Sekurang-kurangnya **Gred B / Gred 4B** pada peringkat SPM dalam mata pelajaran *Physics* dan Lulus ujian lukisan dan temu duga yang dikendalikan oleh Fakulti

Diploma

Memiliki Diploma Sains atau Diploma Kejuruteraan dari Institusi Pendidikan yang diiktiraf oleh Universiti dan Kerajaan Malaysia; dan

Pencapaian minimum bagi Calon Lulusan Diploma hendaklah mendapat **Purata Nilai Gred Kumulatif (PNGK) 3.33**, dan

Calon dikehendaki mengemukakan transkrip akademik dari Semester satu (1) hingga Semester akhir, dan Mendapat sekurang-kurangnya **Gred C / Gred 6C** pada peringkat SPM dalam mata pelajaran berikut:

- Matematik/Tambahan
- Fizik / Kimia

dan

Lulus ujian lukisan dan temu duga yang dikendalikan oleh Fakulti

Calon Bukan Warganegara

Memperoleh Sekurang-kurangnya **PNGK 3.33** Dalam Diploma Kejuruteraan Yang Diiktiraf Oleh Senat Universiti; atau Bagi Calon Warganegara Indonesia – Lulus Ujian Akhir Nasional (UAN) dengan memperolehi sekurang-kurangnya **Gred 8.0** atau keputusan akhir Pendidikan Menengah Atas dengan memperolehi sekurang-kurangnya **Gred 8.5** bagi mata pelajaran berikut:

- Matematik
- Fizik
- Kimia
- atau
- Memperoleh sekurang-kurangnya **Gred B** dalam A-Level bagi mata pelajaran.
- Matematik
- Fizik
- Kimia

dan

Mencapai skor 550 dalam *Test of English as a Foreign Language (TOEFL)* atau mencapai 6.0 dalam *International English Language Testing Service (IELTS)*.

dan

Lulus ujian lukisan dan temu duga yang dikendalikan oleh Fakulti

STPM/Matriculation/Foundation Studies

At least a **CGPA of 3.00**; and obtained at least **Grade B (CGPA 2.67)** at STPM/Matriculation (Science or Technical) / Foundation in the following subjects:

- Mathematics / Mathematics T / Further Mathematics T
- Chemistry / Engineering Chemistry
- Physics / Engineering Physics
- or
- Mathematics / Mathematics T / Further Mathematics T
- Chemistry
- Biology
- and
- Obtained at least **Grade B / Grade 4B** at the SPM level in *Physics*.
- and
- Passed the drawing test and interview organized by the Faculty

Diploma

Holds a Diploma in Science or Diploma in Engineering from Educational Institutions recognized by the University and the Government of Malaysia and graduated with a minimum of Diploma Candidates must have **CGPA of 3.33**, and

Candidates are required to submit academic transcripts from Semester one (1) to the end of the semester, and obtained at least **Grade C / Grade 6C** in the SPM in the following subjects:

- Additional Mathematics
- Physical / Chemical
- and
- Passed the drawing test and interview organized by the Faculty

Non-Malaysian Candidate

Obtain a **CGPA of at least 3.33** in Engineering Diploma Accredited by the University Senate;

or

For Indonesia Citizen Candidate - Passed Final Test (UAN) with at least **Grade 8.0** or Upper Secondary final decision by at least a **Grade 8.5** for the following subjects:

- Physics
- Chemistry
- or
- Obtain at least **Grade B** in A-level for the subject:

- Mathematics
- Physics
- Chemistry

and

Achieving scores of 550 in Test of English as a Foreign Language (TOEFL) or reached 6.0 in International English Language Testing Service (IELTS)

and

Passed the drawing test and interview organized by the Faculty



JABATAN SENI BINA

FAKULTI KEJURUTERAAN DAN ALAM BINA (FKAB)

Sarjana Muda Sains Seni Bina Dengan Keujian
Bachelor Of Architectural Science



SARJANA MUDA SAINS SENI BINA DENGAN KEPUJIAN BACHELOR OF ARCHITECTURAL SCIENCE

Fakta Penting:

- Sarjana Muda Sains Seni Bina (Bahagian 1) adalah ijazah separa-profesional
- Sarjana Muda Sains Seni Bina merangkumi subjek-subjek seperti studio reka bentuk, sejarah dan teori seni bina, sains persekitaran, struktur bangunan, kemudahan bangunan, komunikasi seni bina, teknologi dan bahan binaan bangunan.
- Program ini berorientasikan kerja-kerja studio reka bentuk.
- Program ini diselenggarakan oleh ahli akademik dan professional seni bina berketerampilan yang membawa pengalaman dan pemikiran mereka dalam pembelajaran pelajar.

Kenapa pilih kami:

Kepakaran kakitangan akademik di Jabatan Seni Bina memiliki kepelbagaian untuk menangani keperluan program seni bina yang bersifat multifaset. Pensyarah jabatan adalah pakar dalam bidang penyelidikan dan pengajaran masing-masing. Bidang pengkhususan merangkumi teori seni bina, seni bina Melayu dan etnik, seni bina warisan, seni bina lestari, seni bina mikro, reka bentuk penguadaraan semulajadi, reka bentuk pencahayaan siang, reka bentuk perbandaran,

perumahan, reka bentuk landskap, pembinaan konkrit dan Reka Bentuk Bantuan Komputer (CAD). Jabatan memiliki nic atau agenda yang unik iaitu ke arah mempromosikan Identiti Seni Bina Kebangsaan bagi menyokong inovasi, kelestarian dan keperluan masyarakat Malaysia.

Sinopsis Kursus:

Perkataan seni bina atau 'architecture' dalam bahasa Inggeris adalah berasal daripada perkataan Greek, arkitekton yang secara amnya merujuk kepada kesenian dan sains binaan atau seseorang yang mempunyai kemahiran dan kepakaran tersebut. Dalam kursus ini pelajar dilatih untuk menghasilkan reka bentuk bangunan melalui pertimbangan teknikal dan estetika. Program ini menggalakkan pelajar berfikir secara pragmatik dan juga puitis apabila mereka bentuk bangunan. Penekanan diberi terhadap Identiti Seni Bina Kebangsaan, oleh itu kursus dan reka bentuk studio dibentuk ke arah menghasilkan reka bentuk yang responsif dan sensitif terhadap persekitaran setempat. Reka bentuk seni bina perlu memaparkan 'jiwa setempat' atau genius loci dan memenuhi kepelbagaian aspek kehidupan masyarakatnya.

Pada peringkat awal pengajian, pelajar dilatih mereka bentuk bangunan pada skala kecil dengan pendekatan yang eksploratif dan eksperimental. Permulaan ini bertujuan melengkapkan pelajar dengan pendekatan kreatif yang diperlukan dalam mencapai inovasi dalam seni bina. Skala reka bentuk semakin bertambah dari semester ke semester seterusnya dengan peningkatan penekanan terhadap aspek-aspek teknikal dan pragmatik. Walau bagaimanapun kreativiti merupakan intipati yang senantiasa wujud dalam program pengajian seni bina.

Pelajar dilatih mengenai cara dan kaedah untuk menghasilkan reka bentuk seni bina yang kreatif serta inovatif. Mereka didedahkan kepada sejarah dan teori seni bina bagi memahirkan diri dalam contoh-contoh seni bina awal dan tipologi bangunan. Pelajar turut dilatih dalam aspek teknikal bangunan seperti struktur, bahan binaan, kemudahan bangunan dan sains persekitaran bagi kesedaran terhadap reka bentuk yang responsif terhadap iklim.

Pelajar diwajibkan melaksanakan analisa tapak sebelum memulakan aktiviti reka bentuk bagi menghasilkan seni bina yang responsif terhadap persekitaran geografi, fizikal dan kemasyarakatan. Bagi perincian senarai kursus, sila layari www.ukm.my/jurutera.

Penilaian :

Penilaian utama prestasi pelajar dalam program seni bina adalah berdasarkan kerja-kerja studio reka bentuk.

Pelajar dikehendaki mengumpulkan hasil kerja studio reka bentuk mereka setiap akhir semester dalam bentuk portfolio untuk dinilai oleh penilai-penilai dalaman dan juga luar.

Penilaian bagi subjek-subjek selain Studio Reka Bentuk adalah berdasarkan kepada tugasan, ujian topikal dan peperiksaan akhir semester.

Peluang Kerjaya:

Ijazah muda seni bina membuka peluang kepada banyak peluang pekerjaan di dalam dan di luar bidang seni bina. Dalam bidang seni bina, graduan Sarjana Muda Sains Seni Bina boleh memainkan peranan sebagai pembantu arkitek atau arkitek reka bentuk. Graduan ijazah ini juga boleh mendapat pekerjaan dalam profession reka bentuk lain seperti pereka bentuk ruang dalaman dan pereka bentuk grafik.

Pengajian Lanjutan:

Graduan dalam Sarjana Muda Sains Seni Bina boleh melanjutkan pengajian dalam Sarjana Sains Seni Bina secara penyelidikan. Bidang penyelidikan pengajian sarjana ini meliputi reka bentuk bangunan tenaga pasif, kejuruteraan seni bina, pendidikan seni bina, kajian perbandaran, kajian seni bina warisan, seni bina landskap, perumahan dan sebagainya.

Selepas menamatkan pengajian Sarjana Sains Seni Bina, graduan boleh melanjutkan pengajian keddoktoran sama ada dalam bidang penyelidikan yang sama atau pun berlainan.

Key Facts:

- Bachelor of Architectural Science (Part 1) is a semi-professional degree.
- Bachelor of Science Architecture covers subjects such as design studio, history and theory of architecture, environmental science, building structures, building services, architectural communication, building technology and materials.
- The program is oriented on design studio works.

- The program is conducted by highly qualified academicians and professionals in architecture who bring their experience and insight to the students' learning.

Why Choose Us:

Specializations of the academic staffs in the Architecture Department are multivalent to cater the multifaceted needs of the architecture program. Lecturers are experts in their respective fields of research and teaching. The area of specializations include architecture theory, Malay and ethnic architecture, heritage architecture, sustainable architecture, micro-architecture, natural ventilation design, daylighting design, urban design, housing, landscape design, concrete constructions and Computer Aided Design (CAD). The department has a unique niche or agenda directed towards promoting National Architecture Identity which supports innovation, sustainability and the needs of the Malaysian society.

Course Outline :

The word architecture is derived from the Greek word arkitekton which generally refers to the art and science of building or someone with that mastery or craft. In this course students are trained to produce building designs with both considerations of the technical and the aesthetic aspects. This program encourages students to think both pragmatically and poetically when they approach building design. The emphasis of the program is on the National Architecture Identity, therefore courses and studio works are geared towards producing architectural designs which are responsive and sensitive to the immediate and respective locality. Architecture should manifest a 'sense of place' genius

Initially students will start with small scale building designs which are explorative and experimental in nature. This early beginning is aimed at equipping students with creative outlooks which are necessary in pursuing design innovations in architecture. The scale of design works gradually increases in the successive years and semesters with increasing intensity on technical and pragmatic considerations. However, creativity is an all-time-present entity in the architectural program.

Students are trained on methods and means of producing creative and innovative architectural designs. They are exposed to architecture history and theory for mastery and knowledge in the architectural precedents and building typology. Students are also trained in the technical aspects of buildings such as structures, construction materials, building services and environmental science for climate responsive designs.

Students are required to conduct site analysis before commencing any design works to ensure the architectural designs produced are responsive to its surroundings in geographical, physical and communal sense.

For more details about course structure, visit our website www.ukm.my/jurutera.

Assessments :

Major assessment of students' achievements in the architecture program is based on design studio works. Students are required to compile their design studio works at the end of every semester in portfolios which are then assessed by a group of internal and external examiners. Assessments for subjects other than Design Studio are usually based on assignments, topic tests and final semester examinations.

Career Prospects :

An architecture degree opens up a wide range of career opportunities both within and outside the architectural field. Within the architectural field, a graduate in Bachelor of Architectural Science can become an assistant or a design architect. A graduate can also be employed in other design professions such as an interior designer or a graphic designer.

