ENGINEERING @LIMKOKWING

Transforming global landscapes

Over the next decade the landscape of the world will be hugely transformed as new and exciting engineering projects materialize, such as the world's first shipping tunnel, a space age underwater hotel and the world's biggest shopping mall. At the heart of these projects are civil engineers who plan and build structures as wide ranging as bridges, buildings, transport systems and dams. The majority of civil engineering careers are with architectural firms or construction companies and the largest percentage of civil engineering careers are as structural engineers.

CIVIL ENGINEERS
At the heart of nation building

Civil engineers are engaged in the planning, design, construction, and maintenance of bridges, buildings, foundations, dams, sanitary and solid waste disposal systems and related environmental considerations, highways, airport facilities, transportation systems, waterways, hydro-electric installations, pipelines, coal preparation and loading facilities, and other systems and structures.

DESIGN
A core expertise in civil engineering

Engineering students get a sound basic knowledge of science and a set of core courses in humanities and social sciences. Design is incorporated across the Civil Engineering curriculum, and the design experience begins early with some exposure in the Surveying and Mechanics of Materials courses. Design exposure continues in the junior and senior years with 11 courses having a design component for a total of 19 hours of design. The design component is completed with a capstone design course in which student teams are responsible for the completion of a comprehensive Civil Engineering project which involves several Civil Engineering disciplines with oral and written presentations of the project.

Bachelor of Civil Engineering

JPT/BPP(U)1000-801/36/Jld.8(9)

YEAR 1	YEAR 2	YEAR 3	YEAR 4
Semester 1 • Engineering Mathematics I (Vector Calculus) • Statics and Dynamics • Computer Programming • Engineering Survey • Malaysian Studies Semester 2 • Engineering Mathematics II (Algebra) • Structural Analysis I • Strength of Materials • Bahasa Kebangsaan A/B • Civil Engineering Materials	Semester 1 • Engineering Mathematics III (Differential Equations) • Fluid Mechanics • Environmental Engineering • Civil Engineering Drawings • Engineers and Society • Islamic Studies/Moral Studies Semester 2 • Engineering Mathematics IV (Statistics) • Wastewater Engineering • Structural Analysis II • Soil Mechanics • Hydrology and Water Resources	Semester 1 • Hydraulics • Construction Methods and Technologies • Structural Design I (Reinforced Concrete) • Foundation Engineering • Highway and Traffic Engineering Semester 2 • Sustainable Urban Planning • Stormwater Management • Site Investigation • Professional Ethics and Law • Structural Design II (Structural Steel)	Semester 1 • Engineering Management • Capstone Project I • Structural Design III (Prestressed Concrete) • Elective I • Elective II • Final Year Project I Industrial Training (Inter Session) Semester 2 • Project Management • Capstone Project II • Elective III • Final Year Project II

Entry Requirements

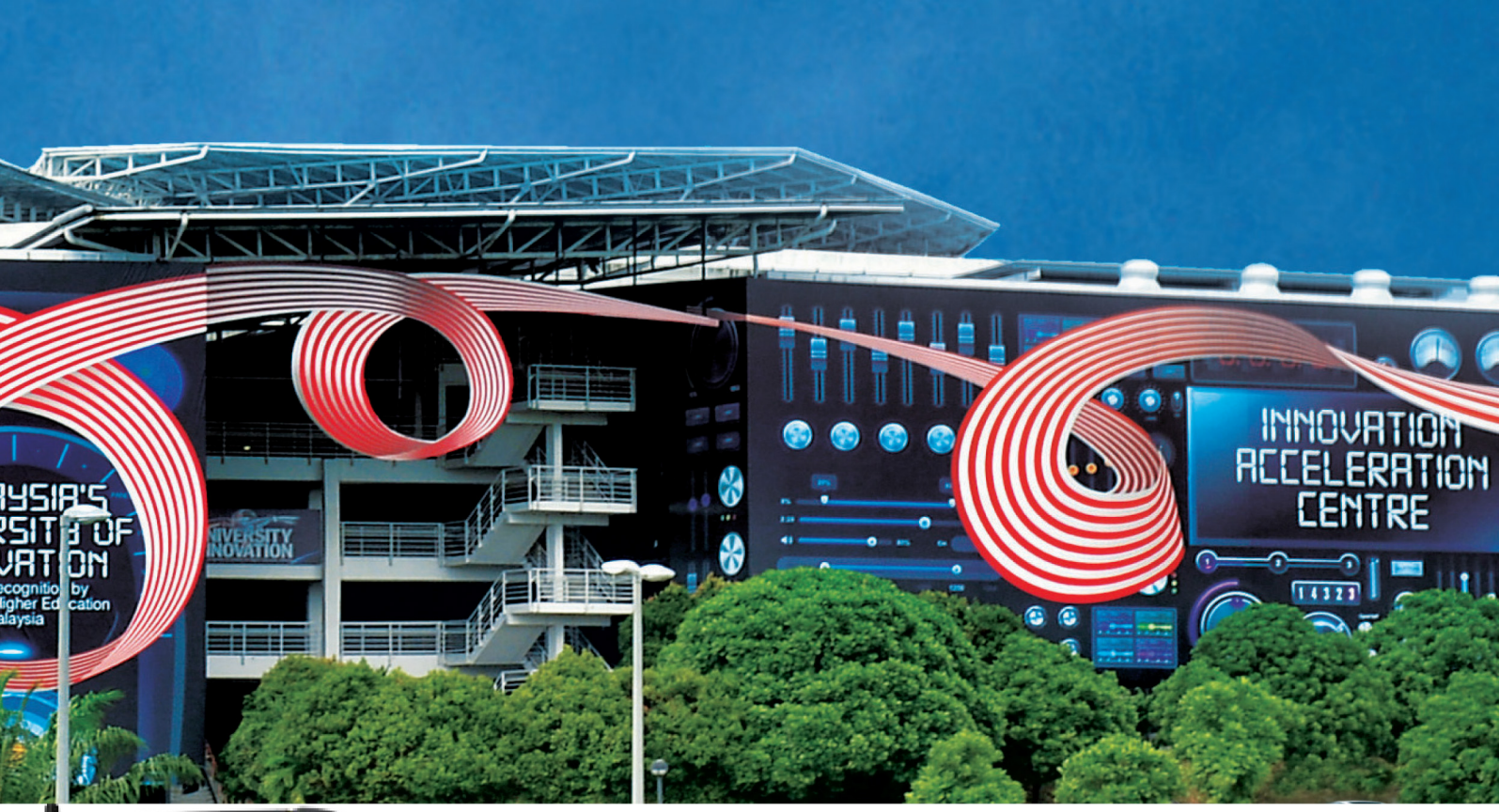
STPM • *Pass STPM with 3 principals or 'A-Levels' or equivalent or Foundation, Matriculation, or pre-university which is approved and recognised by the Ministry of Higher Education of Malaysia or equivalent and is approved by Senate with Grade C/grade point of 2.0 and above (include Mathematics and Physics); or*

DIPLOMA • *Pass Diploma or equivalent which is approved and recognised by the Ministry of Higher Education Malaysia or equivalent and is approved by Senate with Grade C/grade point of 2.0 and above (include Mathematics and Physics); or*

INTERNATIONAL STUDENTS • *For international students, complete Year 12, or equivalent, which is endorsed by the embassy of the country of study, and is approved and recognized by the Ministry of Higher Education of Malaysia, or equivalent and is approved by senate with Grade C/grade point of 2.0 and above (include Mathematics and Physics); or*

i. UEC SM3 : 5 Bs (include Mathematics and Physics)
ii. Canadian Pre-U (CPU) : 60% (include Advanced Functions, Calculus & Vectors and Physics)
iii. South Australian Matriculation (SAM) : 60% (include Mathematics and Physics)
iv. Foundation in Science/Engineering : CGPA 2.00 or Pass (include Mathematics and Physics)

You may be required to sit for English Placement Test (EPT). If you fail the test, you will have to go for Immersion class. However, for students who have achieved IELTS score of 6.0 (no band less than 6.0) or equivalent, you are exempted from sitting for English Placement Test.



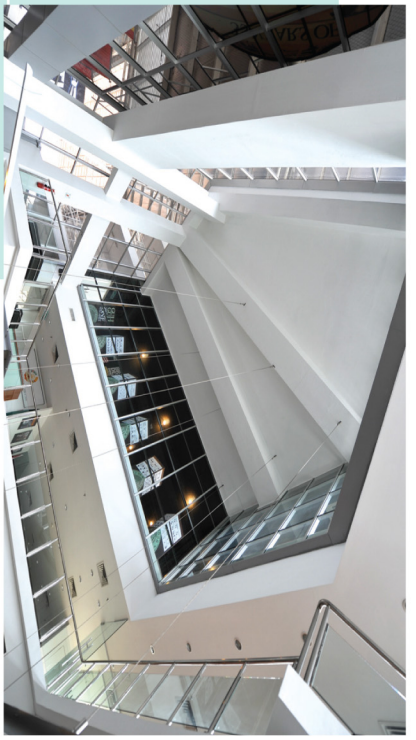
Diploma of Civil Engineering

JPT/BPP/(U)1000-801/36/Jld7(1)

YEAR 1	YEAR 2	YEAR 3
Semester 1 • Mathematics-1 • Engineering Physics-I & LAB • Engineering Chemistry I & LAB • Computer Application LAB • Introduction to Built Environment Semester 2 • Statistic • Mathematics II • Engineering Physics-II & LAB • Structure Elements • Construction Materials • Bahasa Kebangsaan A DIP/ DEG(Local)	Semester 1 • Engineering Mechanics & LAB • Fluid Mechanics • Environmental Engineering LAB 1 • CAD in Civil Engineering LAB 1 • Soil Mechanics • Islamic Studies/ Moral Studies Semester 2 • Structural Engineering Design 1(Concrete) • Highway Enginering • Quantity Surveying • Water and waste water management • Surveying 1 • Construction Lab • Construction Technology	Semester 1 • Internship Semester 2 • Construction Management • Structural Engineering Design 2 (Steel) • Urban Planning • Final Project

Entry Requirements

Sijil Pelajaran Malaysia (SPM) or equivalent with at least 3 credits including Mathematics and one science, technical or vocational subject AND pass English. Alternatively you can register with a Pass Certificate level in related field by a certified Higher Education Provider (HEP) with CGPA at least 2.00. We also accept Pass Certificate of Vocational/ Technical/ Skills in related field by certified Higher Education Provider (HEP) or equivalent with 1 year work experiences in related field or minimum 1 semester bridging programme and pass SPM with at least 1 credit; or *Only Skills Certificate (SKM) Level 3 is accepted.*



Career opportunities

A career in civil engineering can be diverse and exciting, touching on everything from geology to surveying to risk management. There are a number of technical specialties within the scope of civil engineering. These include:

Structural Engineering: Creating structural elements of design for a wide range of structures.

Geotechnical Engineering: Concerns rock and soil that support the structures that other civil engineers design.

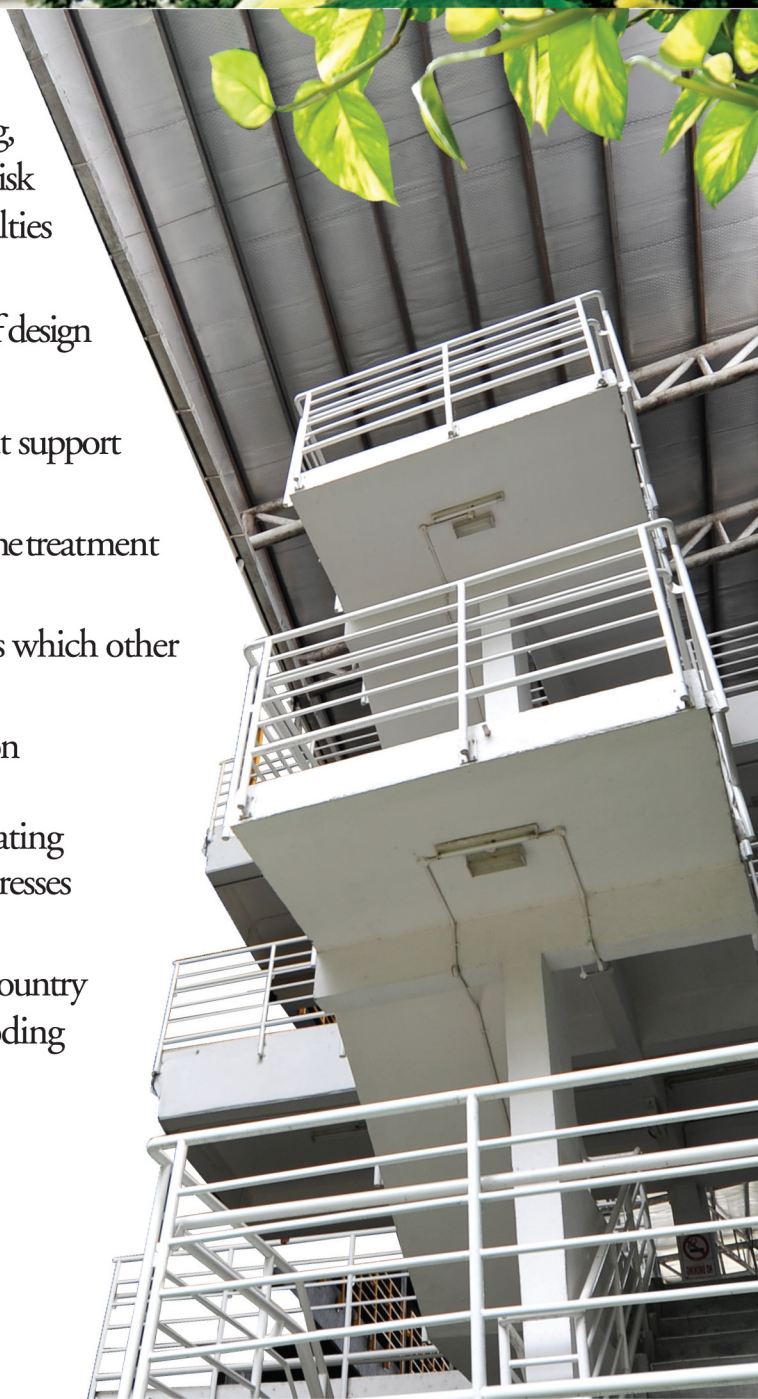
Environmental Engineering: Designing systems for the treatment of chemical, biological and thermal wastes.

Materials Engineering: Experts of the various materials which other civil engineers use for their projects.

Water Resource Engineering: Concerns the collection and management of water.

Earthquake Engineering: A specialty dealing with creating buildings and other structures that can withstand the stresses of earthquakes without falling.

Coastal Engineering: Managing the coastal areas of a country including marshlands. Creating defences against flooding and erosion.



Limkokwing best environment for global success

Civil engineers are, essentially, problem solvers and what better place than Limkokwing University to gain the creative mindset needed to excel in the profession and develop a global network of friends from 150 countries. The University has campuses across the world in nine countries and is rapidly expanding into more countries. It is well placed to provide engineering students global exposure to study projects relevant to their studies. The University also has a strong industry base that enables students to be piped into industry expectations and professional practices.

LIMKOKWING UNIVERSITY OF CREATIVE TECHNOLOGY

University of transformation • University of innovation

Double recognition by the Government of Malaysia

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