



**CITY UNIVERSITY
MALAYSIA**

DKU011(B)

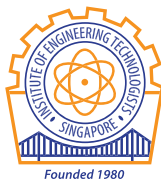
FACULTY OF ENGINEERING



**RECOGNIZED &
CERTIFIED BY THE
PROFESSIONAL BODIES:**



Agensi Kelayakan Malaysia
Malaysian Qualifications Agency



FOUNDATION STUDIES IN SCIENCE

(R/010/3/0316)(A11398)04/2020

Credit Hours: 50 Duration of Study: 1 year



PROGRAMME DESCRIPTION

The Foundation in Science programme is tailored to provide students with a direct route into related degree programmes such as civil engineering and mechanical engineering. The core science modules integrated in the programme equip the students with strong theoretical foundation to fully prepare them for their degree journey. In addition to that, the programme also strengthens English proficiency through its comprehensive English modules.

TERTIARY EDUCATION PROSPECTS

- Bachelor of Civil Engineering with Honours
- Bachelor of Mechanical Engineering with Honours

SUBJECTS OFFERED

- Bahasa Kebangsaan A / Profesional Communication
- Pengajian Malaysia 2 / Bahasa Melayu Komunikasi 1
- Foundation English 1
- Basic Statistics
- Introduction to Office Software Applications
- Foundation English 2
- Study Skills
- Physics A
- Biology A
- Basic Calculus
- Biology B
- Physics B
- Chemistry

DIPLOMA IN CIVIL ENGINEERING

(R2/526/4/0008)(A6750)07/2021

Credit Hours: 90 Duration of Study: 2 1/2 years



PROGRAMME DESCRIPTION

The key features of this programme include comprehensive lectures, tutorials, assignments, projects, laboratory work and a four-month industrial attachment to equip students with the ability to design cost-effective and environmentally friendly engineering structures.

CAREER PROSPECTS

Assistant Engineer/ Technician, Infrastructure and Building Work, Infrastructure and Building Maintenance, Contractor, among others.

SUBJECTS OFFERED

YEAR 1

- Academic English 1
- Engineering Science 1
- Foundation Mathematics
- Geo-Technical Engineering 1
- Fluid Mechanics
- Engineering Drawing
- Professional Communications
- Badminton Club (Co-Curriculum)
- Construction Materials
- Academic English 2
- Building Technology
- Engineering Mathematics
- Computer Aided Design
- Survey Measurement
- Strength of Materials

YEAR 2

- Academic English 3
- Building Organization
- Structural Analysis
- Hydraulics and Hydrology
- Water/Sanitation Engineering
- Material and Structural Engineering Laboratory
- Environmental and Hydraulic Engineering Laboratory
- Basic Entrepreneurship / Bahasa Kebangsaan A
- Pengajian Malaysia 2 / Bahasa Melayu Komunikasi 1
- Estimating and Costing
- Highway and Traffic Engineering
- Reinforced Concrete Design
- Geo-Technical Engineering 2
- Structural Steel Design
- Highway and Geotechnical Engineering Laboratory
- Project

YEAR 3

- Industrial Training

DIPLOMA IN MECHANICAL ENGINEERING

(N/521/4/0107)(MQA/FA5290)02/2020

Credit Hours: 91 Duration of Study: 3 years



PROGRAMME DESCRIPTION

This programme combines the basic knowledge of physical sciences and engineering education with experience and expertise to invent, design and manufacture, run and maintain mechanical equipments, machinery and tools in all branches of industry.

CAREER PROSPECTS

Assistant / Technician in multiple field, Assistant Product Designers, Mechanical Contractors, among others.

SUBJECTS OFFERED

YEAR 1

- Pengajian Malaysia 2 / Bahasa Melayu Komunikasi 1
- Academic English 1
- Engineering Mathematics 1
- Statics
- Programming
- Academic English 2
- Engineering Drawing
- Engineering Mathematics 2
- Professional Communication
- Academic English 3
- Physics

YEAR 2

- Badminton Club (Co-Curriculum)
- Thermodynamics
- Dynamics
- Mechanics of Solid
- Fundamental of Electrical Circuit
- Mechanics of Structures
- Manufacturing Process
- Materials Science
- Engineering Lab
- Computer Aided Design
- Basic Entrepreneurship / Bahasa Kebangsaan A
- Fluid Mechanics

YEAR 3

- Mechanics of Machines
- Engineering Workshop
- Fluid Power
- Applied Thermodynamics
- Industrial Management
- Project
- Industrial Training

BACHELOR OF CIVIL ENGINEERING with HONOURS

(N/526/6/0110)(MQA/PA4698)09/2020

Credit Hours: 136 Duration of Study: 4 years



PROGRAMME DESCRIPTION

Students are exposed to courses in structural engineering, highway and traffic engineering, geotechnical engineering, environmental engineering, surveying, computer-aided design, construction and project management, steel and concrete design, as well as water and wastewater engineering.

CAREER PROSPECTS

Civil Engineers, Facility Engineers, Design Engineers, Site Engineers, among others.

SUBJECTS OFFERED

YEAR 1

- Statics and Dynamics
- Fluid Mechanics
- Environmental Science
- Sustainable Development
- Soil Mechanics
- Survey Measurement 1
- Engineering Drawing and CAD
- Engineering Mathematics 1
- Strength of Materials
- Introduction To Occupational Safety & Health
- Field Survey

YEAR 2

- Geotechnical Engineering 1
- Engineering Mathematics 2
- Structural Analysis 1
- Project Economics & Quality Assurance
- English for Academic Purposes
- Badminton Club (Co-Curriculum)
- Engineering Statistics
- Engineering Management
- Construction Materials
- Geotechnical Engineering 2
- Computer Software Application
- English for Employment

YEAR 3

- Engineering Hydraulics and Hydrology
- Estimating and Costing
- Infrastructure Maintenance
- Research Methodology
- Reinforced Concrete Design
- Engineering Laboratory 1
- Engineering Laboratory 2
- Engineering Laboratory 3
- Maintenance Safety for Engineering
- Highway and Traffic Engineering
- Structural Analysis 2
- Hubungan Etnik/ Pengajian Malaysia 2
- Entrepreneurship/ Bahasa Kebangsaan A
- Academic Skill

YEAR 4

- Building Maintenance
- Water Supply and Waste Water Engineering
- Final Year Project 1
- Highway and Railway Maintenance
- Structural Steel Design
- Industrial Training
- Final Year Project 2
- Engineers in Society
- Integrated Design Project
- Tamadun Islam dan Tamadun Asia (TITAS)/ Bahasa Melayu Komunikasi 2

BACHELOR OF MECHANICAL ENGINEERING with HONOURS

(N/521/6/0093)(MQA/PA4954)11/2019

Credit Hours: 136 Duration of Study: 4 years



PROGRAMME DESCRIPTION

This programme of Mechanical Engineering will provide our students with engineering knowledge that include the planning, design and development of machinery, solving problems and improving the machines used in everyday life.

CAREER PROSPECTS

Mechanical Engineers, Engineering Consultants, Sales and Marketing Engineers, among others.

SUBJECTS OFFERED

YEAR 1

- Engineering Mathematics 1
- Measurement and Instrumentation
- Engineering Drawing & CAD
- Statics
- Material Engineering
- Fundamental of Electrical Circuit
- Mechanics of Solids
- Dynamics
- Engineering Mechanical Workshop
- Engineering Mathematics 2

YEAR 2

- Thermodynamics 1
- Engineering Vibrations
- Project Economics and Quality Management
- Engineering Statistics
- English For Academic Purposes
- Tamadun Islam dan Tamadun Asia (TITAS)/ Bahasa Melayu Komunikasi 2
- Computer Software Application
- Mechanics of Structure
- Fluid Mechanics 1
- Mechanics of Machines
- Manufacturing Process
- Hubungan Etnik/ Pengajian Malaysia 3

YEAR 3

- Control Engineering
- Heat Transfer
- Mechanical Engineering Design
- Thermodynamics 2
- Research Methodology
- Computer Aided Engineering
- English For Employment
- Academic Skills
- Badminton Club (Co-Curriculum)
- Fluid Mechanics 2
- Engineering Management
- Application of Pneumatic & Hydraulics
- Industrial Training

YEAR 4

- Entrepreneurship
- Final Year Project 1
- Air Conditioning
- Engineering Lab
- Programmable Logic Controller
- Electrical Power & Machines
- Final Year Project 2
- Engineers in Society
- Integrated Design Project
- Robot Technology

Words of Encouragement from Professional Bodies of Malaysia



The development of the Occupational Safety and Health industry is very fast. So the number of skilled manpower in this field are in a very high demand. The courses offered in this field in City-U is very much in-line with the current requirements of the industry.

Dato' Ir. Mohtar Musri

Director General, Department of Occupational Safety & Health Malaysia (2017)



Students from City-U have the capabilities, the much needed knowledge and talent in this growing industry. At the same time, the ability can be applied if they are planning to pursue their studies in the next level.

Ar. Mohd Zulhemlee An

President of the Association of Malaysian Architects (2015)



Education coordination between ACCA and City-U benefits the accounting students in this institution. Students in City-U are granted 7 exceptions out of the 14 subjects to be taken to obtain ACCA accreditation.

David Chin

Chairman of ACCA Malaysia (2016)



The field of information technology now requires graduates who understand their functions thoroughly. Of course, the outstanding students in this course will be in demand of any company. I believe that City-U graduates can also prove their worth.

Augustine Chan

Microsoft Authorized Education Reseller Program Manager



High quality and competitiveness is one thing I can see in City-U students. The quality of the students who are undergoing our industrial training programme is very good. So we do not hesitate to continue absorbing them as our employees here.

Prithipal Singh

Chief Executive Officer of Jet Asia (2007- Present)



I can say that students from City-U demonstrate good working quality. Even though they have just completed their studies, they are not clumsy and the way they work also shows that they have been trained very well at the institution before entering the real world of work life.

Minizar Francis Nordin

Chief Medical Technology of Kelana Jaya Medical Centre



The ability of City-U learners in some ways has convinced our customers that each of the designs and creations has its own significance. Thus, the City-U graduates are in-line with the widespread demands of the industry.

Ar. Jeffery Cheah

Principal and Managing Director of Syarikat Seni Bina Zone (1993-Present)



City-U students undergoing industrial training in my company are highly capable, able to work independently and are able to meet the demands of this industry in general.

Ir. Johan Zakaria

Director of Syarikat Johan Setia Perunding (M) Sdn. Bhd. (2000-Present)

Industry Partners:

Architecture / Interior Design

- Arkitek Aliran Cipta Consultancy Sdn Bhd
- Ang Interior Design Sdn Bhd
- Arkitek Akiprima Sdn Bhd
- Arkitek MAA Sdn Bhd
- Associated Group Architect
- ASTEC Development Centre
- Busree Design Pelukis Pelan Sdn Bhd
- CHL Building Service
- CS Chew Architect Sdn Bhd
- Edutex Trading Sdn Bhd
- Empire Perunding Sdn Bhd
- IDENT-3 Sdn Bhd
- MJ Fire Protection & Services Enterprise
- MST Muassal Global Sdn Bhd
- Pakatan Arketik Sdn Bhd
- Pembinaan Kekal Mewah Group
- SAO Architecture & Interior Design
- Sato Kogya (M) Sdn Bhd
- Sazlan Dev Sdn Bhd
- SKA Technology Sdn Bhd
- SNLOW Associate
- UTM Shah Alam
- Vantage Architect Sdn Bhd
- Worldarch Trading Sdn Bhd
- ZAP Group Architects Sdn Bhd
- Zon Design Rekabina Sdn Bhd

Asset Management

- Infra Desa (Johor) Sdn Bhd
- Selia Selenggara Sdn Bhd
- Selia Selenggara Selatan Sdn Bhd
- Selia Selenggara Engineering Sdn Bhd
- Selia Facility Management Sdn Bhd

Assets/ Property

- Pejabat Daerah Kunak Pembangunan (E-Kasih)
- UEM Sunrise

Manufacturing / Quarry / Heavy Industry / Machinery / Equipment

- Airflow Services Sdn Bhd
- Builder Sdn Bhd
- Ceramic (Seramic) Sdn Bhd
- Gemencheh Granite Sdn Bhd
- Kim Hin Ceramic (Seremban) Sdn Bhd
- Malay- Sino Chemical Industries Sdn Bhd
- Malaysia Marine & Heavy Engineering Sdn Bhd
- Press Metal Bintulu Sdn Bhd
- S-Form System Formwork
- Sidratul Corporation (M) Sdn Bhd
- Southern Premix Sdn Bhd

Oil & Gas

- Petronas Gas Bhd
- Sapura Kencana Petroleum Bhd

Construction / Property Development

- AUS- Builder Corporation Sdn Bhd
- BMIG D.O.O
- Brunfield Group/ Aligan Construction
- CDZ Entrprise Sdn Bhd
- Elmibina Sdn Bhd
- FCB Construction (M) Sdn Bhd
- Geohan Sdn Bhd
- Jabatan Kerja Raya
- Malaysia Mosaic (MML)
- MBI Development D.O.O
- NS Construction Sdn Bhd
- PJD Construction
- Perfect Hallmark
- Selia Pantai Sdn Bhd
- Selia Group
- Sunway Construction

Toll Operation

- Swarna Tollway Pvt Ltd

Farming / Agriculture

- Cargill Palm Product Sdn Bhd
- Pertubuhan Peladang Negeri Johor
- Sime Darby Jomalia Sdn Bhd

Consultation (Business, IT, Science, Engineering & Technical)

- 88DB Malaysia Sdn Bhd
- Enigma Mutiara Sdn Bhd
- Bi Technologies Corporation Sdn Bhd
- Brandme Associate Sdn Bhd
- Bumi Kreatif Niaga
- IDW Sdn Bhd
- DOM Solution Sdn Bhd
- Lambda Technologies Sdn Bhd
- Pasadana Sdn Bhd

Child Education Material Manufacturing / Supplier

- Azam Wira Resources
- Azam Perkasa Resources
- K Mode Marketing

Education

- Cambridge English For Life
- Windfield Academy Sdn Bhd

Food & Drink

- Sushi King
- PickNik
- Paper & Toast

Environment / Health / Safety

- Malaysia Society or Occupational Safety And Health
- Safety And Health Service Sdn Bhd
- Safety And Health Enterprise
- Brightway Holdings Safety and Health
- Jabatan Keselamatan Jalan Raya Negeri Sembilan

Engineering

- Alloy MTD Sdn Bhd
- Asia Pacific Engineering Consortium
- B&G Concept Engineering Sdn Bhd
- Bina Masyhur Sdn Bhd
- BH (India Pvd Ltd)
- Brooke Dockyard and Engineering Works Corporation
- HJS Engineering Sdn Bhd
- Malaysia Marine and Heavy Engineering Sdn Bhd (MMHE)
- New Hoong Fatt Holdings
- Port Dickson Power Bhd
- Sapura Kencana
- Toyo Engineering Corporation
- UEM BuildersLogistic
- Bersatu Integrated Logistic
- Far-Go Link Freight Service

Hotel / Hospitality

- Armada Hotel
- Brisdale Kuala Lumpur
- Cititel Hotel
- Concorde Hotel Shah Alam
- Corus Hotel Kuala Lumpur
- De Palma Inn Shah Alam
- Flamingo Hotel
- Furama Hotel Kuala Lumpur
- Grand Bluewave Hotel Shah Alam
- Grand Seasons Hotel Kuala Lumpur
- Holiday Villa Hotel & Resort
- Intekma Resort & Convention Centre
- Mines Wellness Hotel
- One World Hotel
- Pacific Regency Hotel
- Pearl International Hotel
- Piccolo Hotel Kuala Lumpur
- Quality Hotel Shah Alam
- Radius Hotel
- Saujana Hotel
- Silka Maytower Hotel Kuala Lumpur
- Sheraton Imperial Hotel Kuala Lumpur
- Summit Hotel Subang USJ
- Sunway Resort Hotel & Spa
- The Legend Hotel
- The Villas At Sunway Resort Hotel
- Vistana Hotel Kuala Lumpur

Advertising / Marketing / Promotion / PR

- Cathay Cineplex
- Perfect Hallmark
- Reddhoooter Studio

Telecommunication

- Merchantrade Asia Sdn Bhd
- Telekom Malaysia Sdn Bhd

Travel & Tours

- Malaysia Airlines System

Fashion

- Hatta Dolmat Couture

Health / Medical

- ASP Medical Clinic Sdn Bhd
- Azalea Dialysis Center C/O Nur dan Anak Anak Sdn Bhd
- Bangsar South Surgical Clinic
- Bintulu Medical Centre
- BP Clinical Lab Sdn Bhd
- Damai Service Hospital
- Darul Ehsan Medical Centre (DEMC)
- Focus Point Vision Care
- Healol Pharmaceutical Sdn Bhd
- Hospital Baling, Kedah
- Hospital Jempol, Negeri Sembilan
- Hospital Kampar, Perak
- Hospital Kluang, Johor
- Hospital Serian, Sarawak
- Hospital Sultan Abdul Halim, Kedah
- Hospital Tanah Merah, Kelantan
- Hospital Pakar Perdana
- KPJ Ampang Puteri Specialist Hospital
- Kempas Medical Centre
- Mawar Renal Hospital
- Normal Medical Center
- Orion Prokash (M) Sdn Bhd
- Ozone Therapeutic Action Sdn Bhd
- Perak Community Specialist Hospital
- Prince Court Medical Center
- PUSRAWI
- Rejang Medical Centre
- Sentosa Specialist Hospital
- UHPG Medical Services Sdn Bhd
- United Lab
- University Malaya Medical Centre
- Wellness Concept (M) Sdn Bhd
- Wellness Works Sdn Bhd



Get
Job-focused
training from
**OUR
INDUSTRY**



Malaysia Rating
**VERY
GOOD
(4STAR)**
SETARA-2017



**MORE THAN
60
PROGRAMMES
TO OFFER**



**MORE THAN
35,000
STUDENT
GRADUATES**



**OVER 98%
ARE HIRED BY
LOCAL AND
INTERNATIONAL
COMPANIES**

