

Engineering, Technology and Built Environment

Undergraduate Studies

Kampar Campus

Chemical Engineering
(Process)

Civil Engineering
(Environmental)

Electronics Engineering

Industrial Engineering

Electronic Systems

Industrial Management

Construction Management

Sungai Long Campus

Biomedical Engineering

Chemical Engineering

Civil Engineering

Electrical and Electronic
Engineering

Mechanical Engineering

Materials Engineering

Mechatronics Engineering

Telecommunications
Engineering

Architecture

Quantity Surveying

Physics

Building and Property
Management



Bachelor of

Chemical Engineering (Process)

with Honours (R3/0711/6/0017)(06/33)(MQA/FA11192)

The Bachelor of Chemical Engineering (Process) with Honours at Universiti Tunku Abdul Rahman (UTAR) equips students with strong foundations in chemical engineering principles, process design, optimisation, safety, and environmental sustainability. Students may specialise in areas such as petrochemical processing, oil and gas, biochemical engineering, polymer engineering, oleochemicals, or renewable energy. Graduates are prepared to deliver innovative, sustainable solutions across a broad spectrum of process industries.

Career Prospects: Gas Engineer, Pharmaceutical Engineer, Petrochemical Engineer, Electronics and Advanced Materials Engineer, Pulp and Paper Manufacturer, Specialty Chemical Engineer, Food Processing Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Kampar**Total Fees:**

RM 65,350 (Local)

RM 90,150* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Civil Engineering (Environmental)

with Honours (R3/0716/6/0017)(06/33)(MQA/FA9150)

The Bachelor of Civil Engineering (Environmental) programme at Universiti Tunku Abdul Rahman (UTAR) programme has been accredited by the Board of Engineers Malaysia (BEM) since 2023, allowing graduates to register under the Civil Engineering category with BEM. The programme provides a strong foundation in design, construction, and management of infrastructure systems. Students develop skills through design projects and software such as SCIA Engineer and HEC-RAS. The programme allows graduates to choose career pathways in Civil Engineering or Environmental Engineering. The curriculum covers major civil engineering fields including structural, geotechnical, transportation, water resources, environmental, and construction engineering. Students may further specialise in areas such as wastewater treatment, environmental impact and risk assessment, hazardous waste management, and air and noise pollution.

Career Prospects: Civil Engineer, Geotechnical Engineer, Consulting Engineer, Project Engineer, Environmental Engineer, Environmental Impact Assessment (EIA) Consultant, Hydraulic Engineer, and Transportation Engineer.

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Kampar**Total Fees:**

RM 65,350 (Local)

RM 90,150 (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Electronics Engineering

 with Honours

(R3/0713/6/0027)(01/33)(MQA/FA4541)

Bachelor of Electronics Engineering with Honours is designed to provide students with a comprehensive understanding of the principles of physics, mathematics, technology and electronic engineering. The major study areas are electronic, circuit theory, computer architecture and networks, software, communication engineering, signal processing, integrated circuit design, power, control and instrumentation. Students will learn the fundamentals of management and ethical engineering practices. They will be trained to be professional engineers with the knowledge and skills to meet industry and national needs. Students will be placed in a supervised industrial training programme and assigned on-the-job responsibilities to consolidate their learning experience and application of theoretical knowledge. This experience will help them prepare for their final year of study and increase their employability.

Career Prospects: Electronics Engineer, Instrumentation Engineer, IC Design Engineer, RF Test Engineer, Product Engineer, Software Engineer, PCB Design Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Kampar**Total Fees:**

RM 65,200 (Local)

RM 90,000* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of Engineering (Honours)

Industrial Engineering

(R2/521/6/0091)(01/27)(MQA/FA11191)

The Bachelor of Engineering (Honours) Industrial Engineering at Universiti Tunku Abdul Rahman (UTAR) focuses on optimising systems and processes to enhance efficiency, productivity, and sustainability across industries such as manufacturing, healthcare, logistics, and transportation. The programme equips students with competencies in problem-solving, data analytics, systems design, and project management. Graduates are prepared to reduce waste, improve operational performance, and develop sustainable solutions that address complex engineering and socio-economic challenges.

Career Prospects: Industrial Engineer, Process Engineer, QA/QC Engineer, Manufacturing Engineer/Consultant, Project Engineer, Product Engineer, Maintenance Engineer, Technical Service/Sales Engineer, Inventory Controller, Systems Consultant/Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Kampar**Total Fees:**

RM 64,950 (Local)

RM 89,700* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)**Bachelor of Technology (Honours) in**

Electronic Systems

(R/0713/6/0014)(05/29)(MQA/FA12261)

Smart devices and technologies are changing the way we live, work, and interact with one another. Technology has improved the efficiency, productivity, and functionality of almost everything, from the home to industries. The Electrical and Electronics (E&E) industry has emerged as the primary driving force behind the digital revolution. In Malaysia, the sector contributed RM80 billion to Malaysia's GDP in 2018 and created over 338,087 jobs – an additional 157,000 new jobs will be created by 2020. There is currently an urgent need to produce skilled labour in the fields of electronic engineering and technology. A conventional non-WBL pathway is also available.

Career Prospects: Automated machine vision inspection system provider, Embedded systems developers, Higher education, Integrated circuits chip manufacturing, Military and security services, Semiconductor manufacturing, Software development companies

Scan for
Programme Details**Duration of study:** 3 years**Campus:** Kampar**Total Fees:**

RM 56,950 (Local)

RM 79,650* (International)

WBL

RM 54,250 (Local)

RM 76,400* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)**Bachelor of Technology (Honours) in**

Industrial Management

(R/0710/6/0002)(05/29)(MQA/FA12262)

The Bachelor of Technology (Honours) in Industrial Management at Universiti Tunku Abdul Rahman (UTAR) integrates engineering, business, and management to optimise industrial systems and processes. The programme emphasises effective coordination of the 4Ms — Man, Material, Machine, and Method — to enhance operational efficiency, productivity, and sustainability. Students build strong foundations in mathematics, industrial engineering, business, and management, applying analytical and system-based approaches to real-world industrial challenges. A distinctive feature is the Work-Based Learning (WBL) pathway, where students may opt for two years of on-campus study followed by one year of structured industry placement with assessment by both industry experts and academic staff. The programme is accredited by the Malaysia Board of Technologists (MBOT), enabling graduates to register as Graduate Technologists and progress toward Professional Technologist status. A conventional non-WBL pathway is also available.

Career Prospects: Engineering Analysis, Logistics, Manufacturing, Operations Management, Product Testing, Quality Control, Safety and Quality, Technical Resource Deployment

Scan for
Programme Details**Duration of study:** 3 years**Campus:** Kampar**Total Fees:**

RM 54,650 (Local)

RM 76,900* (International)

WBL

RM 52,050 (Local)

RM 73,800* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Bachelor of Technology (Honours)

Construction Management

(R3/0733/6/0006)(05/33)(MQA/FA16055)

The Bachelor of Technology (Honours) Construction Management at Universiti Tunku Abdul Rahman (UTAR) equips students with comprehensive expertise across the full construction lifecycle — from planning and design to project execution, completion, and facilities management. The programme emphasises construction technology, measurement and estimation, contract administration, project management, and digital applications such as Building Information Modelling (BIM). Learning is reinforced through site visits, industry engagement, and final-year projects. Students also benefit from CIDB “Green Card” safety certification by the Construction Industry Development Board and international exposure through collaborations with University of Kitakyushu and Shibaura Institute of Technology.

Career Prospects: Chartered Builder, Project Manager, Property Manager, Construction Manager, Claim Manager, Project Planner, Estimator, Purchaser, Project Coordinator



Scan for
Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 58,050 (Local)

RM 81,000 (International)

Professional Recognition



The Chartered Institute of Building



Lembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Bachelor of

Biomedical Engineering with Honours

(R3/524/6/0004)(07/28)(MQA/FA1045)

The Bachelor of Biomedical Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) integrates engineering science and technology with medicine and biology to address challenges in the healthcare sector. The programme emphasises medical device design, biomedical instrumentation, diagnostics, medical imaging, biomaterials, biomechanics, signal processing, and artificial intelligence applications. Graduates are equipped with multidisciplinary competencies to develop innovative healthcare technologies, including prosthetics and advanced medical systems, supporting clinical and healthcare industry advancement.

Career Prospects: Biomedical Engineer/Medical Engineer, Medical Device Design Engineer, Healthcare Consultant, Biomaterials Engineer, Rehabilitation Engineer, Field Service Engineer, Medical Equipment Customer Support Engineer, Researcher



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 65,100 (Local)

RM 89,900 (International)

Professional Recognition



Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Chemical Engineering with Honours

(R3/524/6/0003)(07/28)(MQA/FA4697)

The Bachelor of Chemical Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) equips students with strong foundations in chemistry, physics, and mathematics to transform raw materials into high-value products across industries such as aerospace, automotive, electronics, biomedical, environmental, and healthcare. The programme emphasises process and plant design, operation, and management involving molecular transformations. Graduates are trained to integrate scientific and engineering principles to solve complex industrial challenges and contribute to sustainable technological advancement.

Career Prospects: Materials Engineer, Process Engineer, Quality Assurance Engineer, Chemical Engineer, Contamination Control Engineer, Safety Engineer



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 65,100 (Local)

RM 89,900 (International)

Professional Recognition



Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of Science (Honours)

Physics

(R4/0533/6/0004)(05/31)(A7015)

Physics provides the foundation for understanding the physical world, from subatomic particles to cosmic phenomena. Its applications span diverse fields including electronics, medical technology and space research. This programme equips students with strong theoretical and practical knowledge in physics, supported by hands-on laboratory experience using modern equipment. Graduates also develop strong analytical, problem-solving, communication and entrepreneurial skills to support careers in science, technology and innovation-driven industries.

Career Prospects: Academician, Consumer Goods Producer, Data Scientist, Fiber Optic and Telecommunication, Lecturer, Microelectronic Designer, Optical Instrument Designer, Researcher, Science Journalism, Scientist



Scan for
Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 56,400 (Local)

RM 76,450* (International)

Bachelor of

Civil Engineering

with Honours (R2/526/6/0098)(07/27)(MQA/FA4653)

Civil Engineering focuses on the design, construction and maintenance of buildings and infrastructure such as roads and bridges by applying principles of mathematics and physical sciences. This programme integrates industry-standard tools such as Autodesk Revit, SCIA Building Information Modelling/Management (BIM) through practical projects and design assignments. Students also gain industry exposure through internships and collaborations with leading construction companies, preparing them with the technical competence and problem-solving skills required for modern civil engineering practice.

Career Prospects: Site Engineer, Traffic / Transportation Engineer, BIM Engineer, Project Engineer, Hydraulic Engineer, Geotechnical Engineer, Consultation Engineer, Structural Engineer



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 65,100 (Local)

RM 89,900* (International)

Professional Recognition

 Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Electrical and Electronic Engineering

with Honours (R2/522/6/0049)(07/27)(MQA/FA9225)

Electrical and Electronic Engineering focuses on the design, operation and maintenance of electrical power systems and advanced electronic technologies that support modern infrastructure and industry. This programme equips students with knowledge in electricity generation, transmission and distribution, as well as modern electronic systems. Graduates develop the technical competence to design efficient electrical and electronic solutions while supporting technological advancement and sustainable infrastructure development.

Career Prospects: Electrical Power System Engineer, Electronic Hardware Design Engineer, Integrated Circuit Design Engineer, Internet of Things (IoT) System Engineer



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 65,000 (Local)

RM 89,750* (International)

Professional Recognition

 Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Mechanical Engineering

with Honours (R2/521/6/0106)(06/27)(MQA/FA9226)

The Bachelor of Mechanical Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) equips students with a deep understanding of mechanical systems and modern engineering technologies. The programme integrates mathematical analysis, computational methods, engineering design, and production principles. Graduates gain strong technical competence and the ability to apply scientific and engineering fundamentals to solve complex mechanical engineering challenges, contributing to both industry and society.

Career Prospects: Automation Engineer, Automotive Engineer, Control and Instrumental Engineer, Design Engineer, Mechanical Engineer, M&E Engineer, Manufacturing Engineer, QA & QC Engineer, R&D Engineer, Product Engineer



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 65,100 (Local)

RM 89,900* (International)

Professional Recognition

 Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Materials Engineering with Honours

(R2/0714/6/0001)(07/27)(MQA/FA9227)

Bachelor of Materials Engineering with Honours equips students with a strong understanding of the properties, behaviour, and applications of advanced materials. The programme bridges chemistry, physics, and mathematical analysis, preparing graduates to support innovation and enhance the competitiveness of Malaysian industries. Designed to meet industry needs, it provides the technical knowledge and practical skills sought by employers across various sectors. Key areas of study include nanotechnology, semiconductors and electronic devices, biomaterials, sustainable energy materials, photonic materials and devices, polymers, quantum materials, and sustainable materials.

Career Prospects: Material Engineer, Production Engineer, Product Engineer, QC Engineer, Project Engineer/Manager, Process Engineer, R&D Engineer, Failure Analyst Engineer, Sales Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Sungai Long**Total Fees:**

RM 65,100 (Local)

RM 89,900* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Mechatronics Engineering with Honours

(R3/523/6/0042)(07/28)(MQA/FA4789)

Mechatronics Engineering integrates mechanical engineering, electronics, computer engineering and information technology to develop intelligent and automated systems. The field encompasses emerging technologies such as robotics, artificial intelligence, automation systems, precision engineering and micro-electromechanical systems (MEMS). This programme is designed to address the technological demands of the Fourth Industrial Revolution by equipping students with strong interdisciplinary engineering knowledge and practical skills. Students learn to design and integrate intelligent sensors, robotics systems, industrial automation and advanced control strategies. Graduates will develop strong analytical, problem-solving and communication skills, enabling them to apply logical, critical and creative thinking in addressing complex engineering challenges while contributing effectively to the industry and society.

Career Prospects: Robotics Engineer, Automation Engineer, Instrumentation Engineer, Researcher, Project Engineer, Field Service Engineer, Mechanical Design Engineer, Construction M&E Engineer, Product Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Sungai Long**Total Fees:**

RM 65,100 (Local)

RM 89,900* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of

Telecommunications Engineering with Honours

(R2/0713/6/0001)(03/28)(MQA/FA9224)

The Bachelor of Telecommunications Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) equips students with the theoretical and practical skills to design, build, test, and maintain modern communication systems. The programme covers communication electronics, digital signal processing, optical communications, broadband networks, and next-generation technologies including AI, IoT, and cloud computing. Industry-relevant training is provided by Huawei Certified Academy Instructors, preparing students for Huawei Certified ICT Associate (HCIA) certification and careers in the evolving telecommunications sector.

Career Prospects: Network Engineer (Artificial Intelligence), Transmission Engineer, Core Network Engineer, Test Engineer, Embedded Software Engineer, Software Engineer (IoT), Data Centre Operations Engineer, Radio Frequency Engineer, Wireless Engineer

Scan for
Programme Details**Duration of study:** 4 years**Campus:** Sungai Long**Total Fees:**

RM 65,000 (Local)

RM 89,750* (International)

Professional RecognitionLembaga Jurutera Malaysia
(Board of Engineers Malaysia)

Bachelor of Science (Honours)

Architecture

(R3/0730/6/0002)(06/29)(MQA/FA9610)

The Bachelor of Science (Honours) Architecture at Universiti Tunku Abdul Rahman (UTAR) prepares students for professional practice as architects in Malaysia. The programme is accredited by the Board of Architects Malaysia (LAM) as Part I of the professional exam, enabling graduates to work as Assistant Architects or pursue a Master in Architecture (LAM Part II) to become registered Graduate Architects. Students develop expertise in architectural design, building construction, detailing, IT, and creative problem-solving. The curriculum progresses from fundamental design and drawing skills in Year 1, to small-scale buildings and construction technologies in Year 2, and complex mid-rise building projects integrating environmental, structural, and building service considerations in Year 3.

Career Prospects: Assistant Architect, Architecture Designer, Architectural Illustrator, Architectural Model Specialist, Project Executive, Assistant Project Manager, Draft Person, Contractor



Scan for
Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 57,800 (Local)

RM 77,550* (International)

Professional Recognition

Lembaga Arkitek Malaysia
(Board of Architects Malaysia)

Bachelor of

Quantity Surveying with Honours

(R2/0734/6/0024)(01/27)(MQA/FA8841)

Quantity Surveying focuses on managing the financial and contractual aspects of construction projects. Quantity surveyors provide professional advice on cost planning, procurement, contracts and project value management throughout the entire building lifecycle. The Bachelor of Science (Honours) Quantity Surveying programme equips students with comprehensive knowledge of construction economics, project management and contractual practices. Students gain an in-depth understanding of the quantity surveyor's role from project planning and design to construction, completion and facility maintenance, ensuring optimal value for money in project delivery. The programme also includes a minimum of six months of industry practical training with a quantity surveying firm or construction-related company, alongside a final-year project that integrates academic knowledge with real-world professional practice.

Career Prospects: Quantity Surveyor, Contract Executive, Estimator, Cost Manager, Project Planner, Project Coordinator, Contracts / Claims Manager



Scan for
Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 59,200 (Local)

RM 82,600* (International)

Professional Recognition

The Royal Institution
of Chartered Surveyors



Lembaga Juruukur Malaysia
(Board of Quantity
Surveyors Malaysia)

Bachelor of

Building and Property Management (Honours)

(R2/0734/6/0020)(10/26)(MQA/FA17018)

The Bachelor of Science (Honours) Building and Property Management programme equips students with comprehensive competencies in property valuation, real estate transactions, asset management and investment analysis. The curriculum is structured to develop industry-ready professionals capable of maximising property returns and delivering professional property services across diverse market segments. Graduates are eligible to register with the Board of Valuers, Appraisers, Estate Agents and Property Managers (BOVAEP) Malaysia as Probationary Valuers (PV) or Probationary Estate Agents (PEA). The programme is also recognised by the Royal Institution of Surveyors Malaysia (RISM), enabling eligible graduates to apply for membership and use the professional prefix "Sr" upon meeting the prescribed requirements.

Career Prospects: Valuer, Estate Agent, Property Manager, Facility Manager, Leasing Manager, Property Investment Fund Manager (in commercial companies or Real Estate Investment Trusts – REITs), Corporate Real Estate/Portfolio Manager, Real Estate Developer, Real Estate Investment and Market Analyst, Consultant



Scan for
Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 53,350 (Local)

RM 75,350* (International)

Professional Recognition:

BOVAEP, RISM



Scan here for more programme details!

For more information, please contact

Division of Programme Promotion
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All information is correct at the time of printing and is subject to change without prior notice, May 2026.

