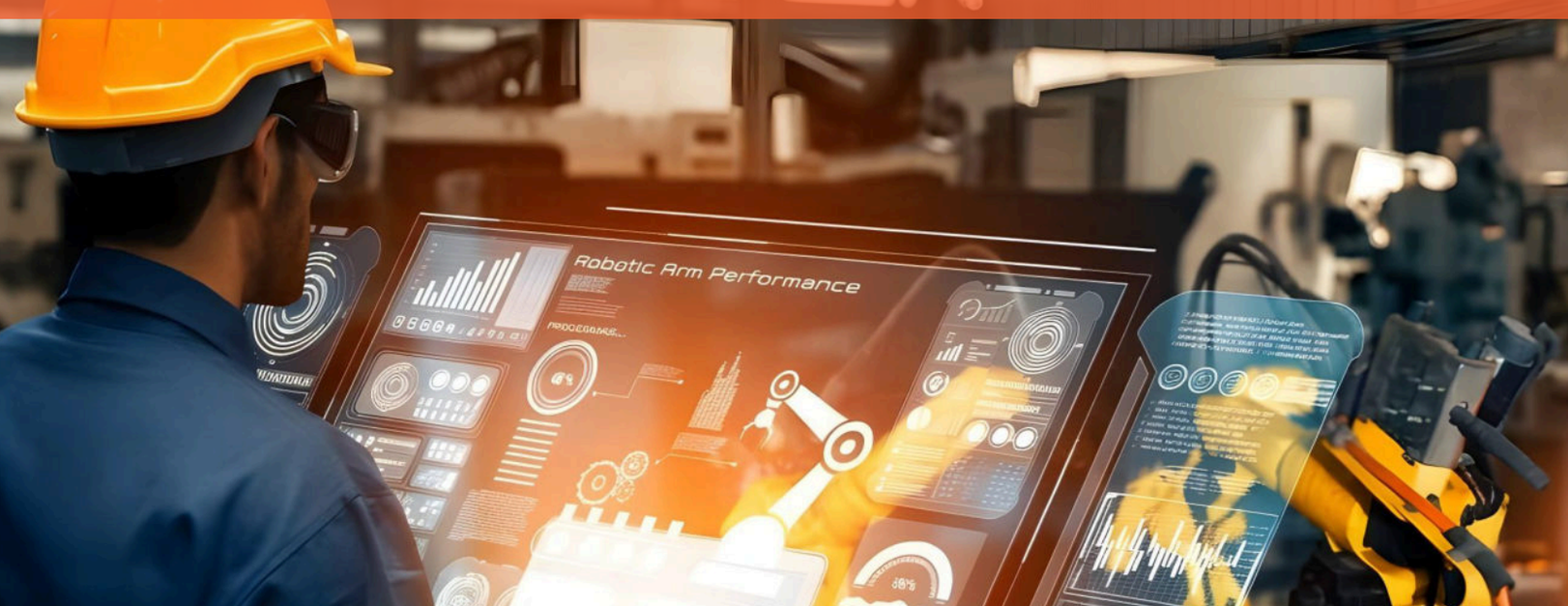
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UTAR
UNIVERSITI TUNKU ABDUL RAHMAN
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Undergraduate Studies

Engineering, Technology and Built Environment



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

Kampar Campus

- Chemical Engineering (Process)
- Civil Engineering (Environmental)
- Electronics Engineering
- Industrial Engineering
- Electronic Systems
- Industrial Management
- Construction Management

*Exclusive of 6% SST for the International Students

Bachelor of

Chemical Engineering (Process)

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

Scan for Programme Details

The Bachelor of Chemical Engineering (Process) with Honours at 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.

Duration of study: 4 years

Campus: Kampar

Total Fees:

RM 72,100 (Local)

RM 98,650* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

Bachelor of

Civil Engineering (Environmental)

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

Scan for Programme Details

Bachelor of Civil Engineering (Environmental) with Honours aims to produce graduates who can acquire and apply knowledge of science and engineering fundamentals, have in-depth technical competence in the civil engineering discipline to undertake problem identification, formulation and solution, and have the ability to design and evaluate operational performance using a systems approach. Students are introduced to the current design software used and the nest practice of the industry at the early stage and will apply them in the form of assignments and integrated design projects. These technologies include Autodesk Revit, SCIA, & Building Information Modelling/Management (BIM) softwares. UTAR has associated with many big players in the construction industry through internship programme and job placement. Some of the prominent construction companies are Brunsfield Sdn Bhd, Gamuda Bhd, IJM Corporation, SP Setia Bhd, Sunway Group Bhd, YTL Corporation, and WCT Bhd.

Duration of study: 4 years

Campus: Kampar

Total Fees:

RM 72,100 (Local)

RM 98,650* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

Career Prospects: Environmental Engineer, Environmental Planner and Designer, Environmental Engineering Consultant, Environmental Health and Safety Engineer, Environmental Researchers, Energy Information Administration (EIA) Consultant, Geotechnical Engineer, Green Building Engineer, Civil and Structural Engineer, Water Project Engineer

Bachelor of

Electronics Engineering with Honours

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

Scan for Programme Details

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.

Duration of study: 4 years

Campus: Kampar

Total Fees:

RM 71,950 (Local)

RM 98,500* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

Bachelor of Engineering (Honours)

Industrial Engineering

(R3/0714/6/0056)(01/34)(MQA/FA11191)

Scan for Programme Details

Duration of study: 4 years

Campus: Kampar

Total Fees:

RM 71,700 (Local)

RM 98,150* (International)

Professional Recognition

Lembaga Jurutera Malaysia
(Board of Engineers Malaysia)

The Bachelor of Engineering (Honours) Industrial Engineering at 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

Bachelor of Technology (Honours) in

Electronic Systems

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

Scan for Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 62,600 (Local)

RM 86,950* (International)

WBL

RM 59,850 (Local)

RM 83,700* (International)

Professional Recognition

Lembaga Teknologis Malaysia
(Malaysia Board of Technology)

Smart devices and technologies are changing the way we interact with one another. It 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 2025, Malaysia's semiconductor sector posted an estimated revenue of RM400 billion in 2025, encompassed some 6,300 companies employing over 630,000 people. 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. The electronic system's degree programme aims to produce technologists with in-depth knowledge and expertise in electronic technology. It equips students with a balance of theoretical and technical knowledge in smart manufacturing, IoTs, AI, robotics and many more. The programme is engaged closely with the industries in curriculum development to ensure the programme fulfils the needs of the industries.

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

Bachelor of Technology (Honours) in

Industrial Management

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

Scan for Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 58,950 (Local)

RM 82,450* (International)

WBL

RM 56,950 (Local)

RM 80,100* (International)

Professional Recognition

Lembaga Teknologis Malaysia
(Malaysia Board of Technology)

The Bachelor of Technology (Honours) in Industrial Management at 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

Bachelor of Technology (Honours)

Construction Management

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

Scan for Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 63,700 (Local)

RM 88,350 (International)

Professional Recognition

The Charted Institute of Building

Lembaga Teknologis Malaysia (Malaysia Board of Technology)

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

Bachelor of

Biomedical Engineering with Honours

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

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550 (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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, medical imaging, biomaterials, biomechanics, signal processing, and applications of artificial intelligence. Graduates are equipped with multidisciplinary competencies to develop innovative healthcare technologies, including advanced medical systems, thereby supporting advancements in clinical practice and the healthcare industry.

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

Bachelor of

Chemical Engineering with Honours

(R3/0788/6/0027)(07/28)(MQA/FA4697)

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550 (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

The Bachelor of Chemical Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) prepares students to become future-ready engineers who transform raw materials, energy and innovative technologies into high-value products and sustainable solutions. The programme develops expertise in process and plant design, advanced chemical engineering technologies, process optimisation, automation, renewable energy, water and wastewater treatment, and green chemical processes. Students gain the knowledge and practical skills to address emerging challenges in energy transition, environmental protection, advanced manufacturing and sustainable industrial development. With a strong emphasis on innovation, efficiency and sustainability, graduates are equipped to create impact across diverse industries and support the development of a cleaner, smarter and more resilient economy.

Career Prospects: Process Engineer, Chemical Engineer, Energy & Sustainability Engineer, Process Control & Automation Engineer, Environmental Engineer, Process Safety Engineer, Manufacturing Engineer, R&D/Technology Engineer, Food Process Engineer

Bachelor of

Civil Engineering with Honours

(R2/0716/6/0021)(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 Engineer and Building Information Modelling 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.

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

Bachelor of

Electrical and Electronic Engineering with Honours(R2/0712/6/0033)(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.

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,600 (Local)

RM 98,300* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

Bachelor of

Mechanical Engineering with Honours

(R2/0714/6/0054)(06/27)(MQA/FA9226)

Mechanical engineering stands as a versatile and pivotal discipline, integrating sciences and engineering principles to comprehend mechanical systems. In the era of Industry 4.0, our Bachelor of Mechanical Engineering with Honours programme takes a forward-looking approach, integrating digitalization, automation, and connectivity. Beyond traditional aspects, it addresses global concerns by emphasizing sustainable practices and renewable energy solutions. This programme cultivates a comprehensive understanding of mathematical analysis, computational methods, engineering design, advanced manufacturing techniques and production. With a focus on education, research excellence, and service to society, graduates gain proficiency in applying scientific and engineering fundamentals. Integrating data analytics for optimized solutions, we aspire to empower a new generation of mechanical engineers equipped not only with traditional knowledge but also ready to navigate the challenges of Industry 4.0 and contribute to sustainable engineering solutions.

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

Bachelor of

Materials Engineering with Honours

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

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

The Bachelor of Materials Engineering with Honours empowers graduates to navigate the forefront of materials engineering, instilling a profound understanding of diverse materials and their unique properties. Our curriculum is tailored for the era of Industry 4.0, strategically integrating cutting-edge technologies. We emphasize renewable materials, contributing to environmental sustainability and bolstering Malaysia's global competitiveness. This programme serves as a vital link between modern chemistry, physics, and mathematical analysis, addressing industry needs while propelling graduates to revolutionize manufacturing processes. Encompassing nanotechnology, semiconductors, biomaterials, green polymers, sustainable energy storage/solutions, our curriculum extends into the latest developments in materials engineering. With a focused approach on sustainable materials, graduates emerge ready to tackle contemporary environmental challenges. As Malaysia strides into technological advancement, our materials engineering graduates are well-positioned to lead innovation, ensuring a sustainable and competitive future for the nation on the global stage.

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

Bachelor of

Mechatronics Engineering with Honours

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

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,800 (Local)

RM 98,550* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

The Bachelor of Mechatronics Engineering with Honours at Universiti Tunku Abdul Rahman (UTAR) integrates mechanical engineering, electronics, computer engineering, and information technology to develop intelligent, autonomous, and automated systems. The field encompasses emerging technologies such as robotics, artificial intelligence, industrial automation, precision engineering, and micro-electromechanical systems (MEMS). This programme is designed to address the technological demands of the Fourth Industrial Revolution (IR 4.0) and emerging intelligent systems by equipping students with strong interdisciplinary engineering knowledge and practical skills. Students learn to design and integrate intelligent sensors, robotic systems, advanced control strategies. Graduates develop strong analytical, problem-solving, and communication skills, enabling them to apply logical, critical, and creative thinking to address complex engineering challenges, develop intelligent engineering solutions, and contribute effectively to industry and society.

Career Prospects: Mechatronics Engineer, Robotics Engineer, Automation Engineer, Control Systems Engineer, Autonomous Systems Engineer, Embedded Systems Engineer, Instrumentation and Control Engineer, Mechanical Design Engineer, Product Development Engineer, Manufacturing/Process Engineer, Equipment Engineer, Field Service Engineer, Project Engineer, AI and Robotics Engineer, Research and Development (R&D) Engineer, Researcher and Construction M&E Engineer

Bachelor of

Telecommunications Engineering with Honours

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

Scan for Programme Details

Duration of study: 4 years

Campus: Sungai Long

Total Fees:

RM 71,600 (Local)

RM 98,300* (International)

Professional Recognition

Lembaga Jurutera Malaysia (Board of Engineers Malaysia)

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

*Exclusive of 6% SST for the International Students

Bachelor of Science (Honours)

Physics

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

Scan for Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 62,000 (Local)

RM 83,700* (International)

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

Bachelor of Science (Honours)

Architecture

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

Scan for Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 63,600 (Local)

RM 85,100* (International)

Professional Recognition

Lembaga Arkitek Malaysia (Board of Architects Malaysia)

The Bachelor of Science (Honours) Architecture at 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 Masters 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, to small-scale buildings and construction technologies and complex mid-rise building projects integrating environmental, structural, and building service considerations.

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

Bachelor in

Quantity Surveying with Honours

(R3/0734/6/0024)(01/34)(MQA/FA8841)

Scan for Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 65,200 (Local)

RM 90,400* (International)

Professional Recognition

The Royal Institution of Chartered Surveyors

Lembaga Juruukur Bahan Malaysia (Board of Quantity Surveying Malaysia)

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 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 16 weeks 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, BIM Consultant

Bachelor of

Building and Property Management (Honours)

(R3/0734/6/0020)(10/31)(MQA/FA17018)

Scan for Programme Details

Duration of study: 3 years

Campus: Sungai Long

Total Fees:

RM 55,550 (Local)

RM 78,250* (International)

Professional Recognition:

BOVAEP

This 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 here for more programme details!

For more information, please contact

Division of Programme Promotion

Universiti Tunku Abdul Rahman (UTAR) DU012(A)

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All information is correct at the time of printing and is subject to change without prior notice. **November 2026.**

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SWAAKREDITASI SEMPURNA

SETARA 2022