

Computing, IT and Mathematics

Undergraduate Studies

Kampar Campus

Business Information
Systems

Communications and
Networking

Computer Engineering

Computer Science

Digital Economy Technology

Information Systems
Engineering

Statistical Computing
and Decision Analytics

Industrial Intelligent
Systems

Sungai Long Campus

Actuarial Science

Applied Mathematics
with Computing

Financial Mathematics

Software Engineering



Bachelor of Information Systems (Honours)

(Business Information Systems)

(R4/0611/6/0114)(03/32)(MQA/FA14999)

Every company today relies on smart technology on intelligent decision-making, market insights, and strategic operations. There is a high demand for professionals and entrepreneurs to harness the combined power of Artificial Intelligence (AI), Business Analytics, Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), Digital Supply Chain Management, and Digital Platform Ecosystems to drive a highly successful business. UTAR's Bachelor of Information Systems (Honours) (Business Information Systems) programme, collaborate with MoU partners from local and foreign industry leaders, gives you the skills to bridge the gap between technology and business success on sought-after roles in IT consulting, AI transformation, business strategy, and digital enterprise solutions, working with leading companies locally and internationally, gaining real-world experience and strong job connections before you even graduate and helping businesses in AI-driven digital transformation to optimise their operations, improve customer experiences, and stay ahead of the competition.

Career Prospects: Business Intelligence Consultant, Business Software Engineer, Business System Analyst/Consultant, Database Centre Manager, IT Support Personnel, Multimedia Applications Developer, Project Manager, System Auditor/Specialist, Technology Evangelist, Value-Chain Specialist

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

RM 55,050 (Local)

RM 77,500* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Seoul Accord

Bachelor of

Computer Science (Honours)

(R3/481/6/0128)(03/27)(MQA/FA15001)

Computers are becoming part of our lives, changing virtually everything from the objects around us to the ways in which we communicate, travel, work and play. Computer Scientists shape the future by developing computational techniques, design systems and develop solutions to build advanced civilisation. Computer Science has now become a key enabler for discovery and innovation in many other fields, making it a highly relevant programme of study. This programme aims to prepare graduates who are technically competent in design, development and implementation of computing systems. Students will be equipped with a suitable mathematical background and solid computing knowledge for them to excel in the areas of software engineering, artificial intelligence and data analytics. Students will be trained to possess strong analytical and critical thinking to solve problems by applying knowledge, principles and skills in Computer Science.

Last but not least, students will be provided with entrepreneurial skill and exposed to real world challenges to broaden their horizon and career prospects. The programme offers 3 areas of specialisation in Computer Science for students:

- (i) Artificial Intelligence Option
- (ii) Software Engineering Option
- (iii) Mobile Application Development Option.

Career Prospects: Data Analyst/Engineer, Programmer, Software Developer, Software Engineer, Software Project Engineer, System Analyst, Web/Mobile Application Developer, Artificial Intelligence (AI) Software Engineer

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

RM 55,100 (Local)

RM 77,550* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Seoul Accord



Bachelor of Information Technology (Honours)

(Computer Engineering)

(R3/0611/6/0051)(05/29)(MQA/FA15495)

Designed for a future driven by smart and connected technologies, this programme equips students with practical skills to design and develop computing systems by integrating hardware and software. It bridges computing, electronics, and digital system design, preparing graduates to create technologies for embedded devices, intelligent systems, IoT applications, robotics, and next-generation computing platforms. With a strong emphasis on hands-on learning and hardware-software integration, students gain practical knowledge in programming, electronic circuits, processors and interfacing, embedded systems, digital system design, computer architecture, and signal processing. Students also work with modern design and development tools to turn ideas and computing concepts into functional real-world systems.

The programme offers two key specialisation areas:

- (i) Embedded & Intelligent Systems
- (ii) Computer Architecture & Digital Systems

Together, these specialisations provide students with a strong hardware-software co-design perspective, spanning digital circuits and processor architectures to embedded software and intelligent applications. Students develop the skills to design computing systems that can sense, process, interact with, and respond to the physical world.

Career Prospects: Computer Engineer, Digital Circuit and Analogue Design Engineer, Embedded Control Engineer, Firmware Engineer, IC Design Engineer, IT Support Engineer, Maintenance and Project Engineer, Product Engineer, System Design Engineer, System/Programme Development Engineer



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Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 55,100 (Local)

RM 77,550* (International)

Professional Recognition



Lembaga Teknologis Malaysia
(Malaysia Board of Technologists)



Seoul Accord

Bachelor of Information Technology (Honours)

(Communications and Networking)

(R3/0611/6/0113)(11/30)(MQA/FA15000)

Bachelor of Information Technology (Honours) (Communications and Networking) programme aims to produce graduates who can support the increasing demand for reliable, secure, and high-performance communication and networking technologies in organisations and society. Graduates are equipped with the knowledge and practical skills required to design, develop, implement, and manage modern communication and networking systems. This programme emphasises hands-on learning that exposes students to the current industrial and commercial networking standards and practices. It also introduces the students to the latest communication and network technologies such as the Internet of Things (IoT), Cybersecurity, 4G/5G Wireless Technology and Cloud computing, while focusing on two specialised areas: Network & Cloud Infrastructure, and Cybersecurity & Secure Communications. In addition, students have the opportunity to obtain professional certifications, such as the Cisco Certified Network Associate (CCNA), Huawei Certified ICT Associate (HCIA), and Certified Ethical Hacking (CEH) during their studies, thereby enhancing their professional competencies and employability. The programme develops future-ready professionals equipped to connect people and systems, secure digital infrastructure, drive technological innovation, and lead the development of next-generation networks in the rapidly evolving fields of communication, networking, and cybersecurity.

Career Prospects: Network Engineer, Network Administrator, Network Security Engineer, Security Analyst, Cloud Network Engineer, IT Infrastructure Engineer, Wireless Network Engineer, Systems Engineer, IoT Engineer, Network Support Engineer/IT Support Engineer, Telecommunications Engineer, Cloud Infrastructure Specialist, Network Operations Centre Engineer, IT Consultant, Network Architect



Scan for
Programme Details

Duration of study: 3 years

Campus: Kampar

Total Fees:

RM 54,650 (Local)

RM 77,000* (International)

Professional Recognition



Lembaga Teknologis Malaysia
(Malaysia Board of Technologists)



Seoul Accord

Bachelor of Information Technology (Honours)**(Industrial Intelligent Systems)**

WBL

(N/0611/6/0018)(07/28)(MQA/PA15869)

Digital technologies are transforming the way industries operate, creating growing demand for professionals who can integrate intelligent technologies with industrial processes. The Bachelor of Information Technology (Honours) (Industrial Intelligent Systems) prepares students to support the implementation of intelligent solutions for modern industrial environments. The programme provides a strong IT foundation in areas such as programming, networking and database systems, while focusing on two specialised areas: Intelligent Automation & Robotics, and Industrial Data & Smart Systems. These competencies enable graduates to enhance industrial operational efficiency through automation, support data-driven decision-making, and contribute to the development of intelligent industrial solutions. Students also have the opportunity to participate in a work-based learning pathway, where they may spend up to one year in industry, gaining hands-on experience, mentorship from industry partners and exposure to real-world professional environments. Depending on the industry partner chosen, students may undertake different work-based learning tracks, including AI automation, full-stack development, enterprise resource planning (ERP), networking and security, and more.

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

RM 54,650 (Local)

RM 77,000* (International)

Career Prospects: System Architect, System Integrator, IT Analyst, IT Support Engineer, Digital Transformation Executive, Data Analyst**Bachelor of Information Systems (Honours)****(Digital Economy Technology)**

(R/0611/6/0112)(04/31)(MQA/FA13966)

The AI-driven digital economy is transforming industries worldwide, creating high-demand, high-paying opportunities across all sectors like finance, healthcare, e-commerce, and smart manufacturing. As businesses and governments increasingly embrace AI transformation, platform ecosystems, and API-driven economies, skilled professionals are needed to drive this revolution. UTAR's Bachelor of Information Systems (Honours) (Digital Economy Technology), with industry-aligned coursework co-developed with MoU partners from local and foreign industry leaders, this programme equips you with IT consulting and AI digital strategy, helping businesses optimize operations across multiple sectors, AI-driven transformation, enabling automation, data intelligence, and smarter decision-making in the AI economy, platform economy and API ecosystems, powering cross-border integrated markets across RCEP region.

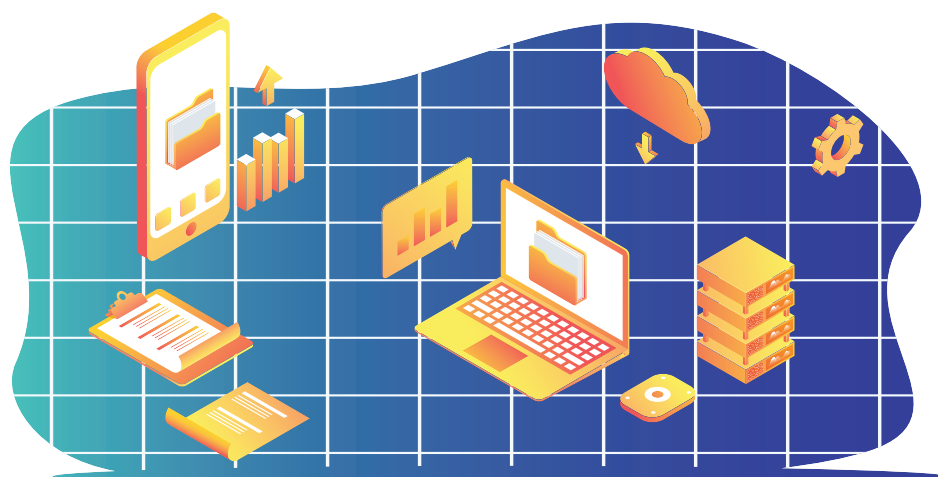
Scan for
Programme Details**Duration of study:** 3 years**Campus:** Kampar**Total Fees:**

RM 54,600 (Local)

RM 76,950* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Seoul Accord

Career Prospects: Business Intelligence Specialist, Business System Administrator, Data/Business Analyst, Digital Entrepreneur, Functional Consultant, IT Business Development Consultant/Manager, IT Customer Support, IT Project Executive/Manager, System Development Engineer, Web Platform Developer

Bachelor of Information Systems (Honours)

(Information Systems Engineering)

(R3/0611/6/0115)(03/27)(MQA/FA14998)

Data has become one of the most valuable assets for modern organisations. Businesses increasingly rely on sophisticated information systems to collect, process and manage large volumes of data to support decision-making and solve real-world challenges. The Information Systems Engineering programme is a multidisciplinary field that integrates computing, management and business knowledge to develop highly skilled information systems professionals. Students gain exposure to the theories, tools and technologies required to design, develop, test and maintain complex information systems. Graduates are well-prepared to meet the growing demand for technically qualified professionals in the rapidly expanding information systems industry.

Career Prospects: Database Administrator/Developer, IT Solution Architect, Project Engineer/Manager, Software Engineer, System Analyst/Consultant, System Developer/Engineer, QA Engineer, Web/Mobile Applications Developer

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

RM 55,050 (Local)

RM 77,500* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Seoul Accord

Bachelor of Science (Honours)

Statistical Computing and Decision Analytics

(R3/0542/6/0011)(11/29)(A10094)

This programme equips students with the fundamentals and applications of statistical methods and operations research techniques to support quantitative analysis, modelling and solving in the scientific and business-related problems. Students will also be exposed to managerial and computing skills to effectively and efficiently utilise and optimise the usage of organisational resources in service and manufacturing industries. The key objective of the programme is to produce students who are able to practice lifelong learning attitudes, continuously challenging themselves to improve and remain relevant to the ever-changing needs of industry, locally as well as internationally.

Career Prospects: Statistician, Data Scientist/Analyst, Financial Analyst, Quality Controller, Business Analyst, Operations Research Analyst, Market Researcher, Risk Assessor, Survey Firm Consultant

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

RM 53,650 (Local)

RM 75,750* (International)



Bachelor of

Software Engineering* (Honours)

(R3/0612/6/0023)(03/30)(MQA/FA15002)

Software Engineering focuses on the systematic design, development and maintenance of software throughout the entire software development life cycle, including analysis, design, implementation, testing and maintenance. As software applications continue to grow in complexity across industries such as business, science, entertainment and education, skilled software engineers are increasingly in demand. This programme provides comprehensive training in the principles, techniques and tools used in modern software development. With a strong emphasis on practical application, students gain hands-on experience through advanced programming in widely used languages and frameworks. Students are also exposed to emerging technologies such as Artificial Intelligence, Data Mining, Cloud Computing, game engine programming, networking and cybersecurity. The programme culminates in a final year project focused on current research and industry-relevant innovations in software engineering.

Career Prospects: Analyst Programmer, Chief Technology Officer, IT Consultant, R&D Engineer, Software Architect/Engineer, Web/Mobile Applications Developer, Full Stack Developer

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Programme Details**Duration of study:** 3 years**Campus:** Sungai Long**Total Fees:**

RM 53,400 (Local)

RM 75,500* (International)

Professional RecognitionLembaga Teknologis Malaysia
(Malaysia Board of Technologists)

Seoul Accord

Bachelor of Science (Honours)

Actuarial Science

(R3/0542/6/0016)(11/30)(A6628)

Actuarial Science encompasses the study of applied mathematics, statistics and financial theory to solve financial problems. It is a study of the financial risks associated with uncertain future events, which emphasis on assurance (life assurance), property and casualty insurance, pension plans and employee benefit programmes.

This programme is designed to meet the rapidly changing needs and challenges of the insurance and investment-related industries by aligning its syllabi with the professional examination requirements. It offers subjects that have been approved by the actuarial organisations for Validation by Educational Experience (VEE) credit, i.e. Economics, Accounting and Finance, and Mathematical Statistics.

It covers all topics on the CAS/SOA Probability (P) and Financial Mathematics (FM) actuarial examinations, plus more than 12 semester hours on the topics for the SOA Fundamental of Actuarial Mathematics (FAM) Exam and Statistics for Risk Modelling (SRM) Exam that entail topics such as contingent payment models and frequency, severity and aggregate claims models, linear and generalised linear models, principal component and cluster analysis.

Besides, UTAR Actuarial Science programme also obtain exemption of CS1 (Actuarial Statistics I), CB1 (Business Finance), CB2 (Business economics) and CM1 (Actuarial Mathematics I) from Institute and Faculty of Actuaries (IFoA). Upon completion of the Bachelor of Science (Honours) degree, students who obtain the marks required by the IFoA will entitle to receive the above-mentioned exemption.

Career Prospects: Actuary Analyst, Pricing Analyst, Tax Analyst, Portfolio Manager, Business Development Manager

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Programme Details**Duration of study:** 3 years**Campus:** Sungai Long**Total Fees:**

RM 54,000 (Local)

RM 76,150* (International)

Professional RecognitionInstitute
and Faculty
of Actuaries

Institute and Faculty of Actuaries

SOCIETY OF
ACTUARIES

Society of Actuaries

Casualty
Actuarial
Society

Casualty Actuarial Society



Bachelor of Science (Honours)

Applied Mathematics with Computing

(R3/0541/6/0002)(01/30)(A6034)

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Programme Details

This programme prepares students to be versatile and analytical problem-solvers using mathematical modelling coupled with computing dexterity. By offering subjects such as partial differential equations, ordinary differential equations and statistics, the programme introduces students to the immense ability of mathematical models in analysing current events. Due to the large data set that an analyst has to deal with, this programme equips students with programming skills, simulation techniques and computational problem-solving techniques. Realising the importance of training graduates in an interdisciplinary environment, it also offers modules in professional writing and presentation skills to enhance student's communication of their ideas.

Career Prospects: Equity/Risk/System Analyst, Simulation Developer, Statistician, Inventory Strategist, Cryptologist, Quality Control Officer, Operations Research Analyst, Quantitative Analyst/Developer, Compliance Officer, Foreign Exchange Trader, Credit/Portfolio Analyst, Quality Assurance Officer, Market Researcher, Data Mining Engineer

Duration of study: 3 years**Campus:** Sungai Long**Total Fees:**

RM 53,950 (Local)

RM 76,100* (International)

Bachelor of Science (Honours)

Financial Mathematics

(R3/0541/6/0001)(01/30)(A10874)

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Financial Mathematics focuses on applying mathematical and statistical techniques to analyse financial markets, evaluate financial instruments and manage investment risks. As global financial systems grow more complex, professionals with strong quantitative capabilities are increasingly in demand. This programme integrates knowledge from probability theory, scientific computing and computational finance to model relationships between key financial variables such as asset prices, market movements and interest rates. Students gain exposure to modern financial theories, including option pricing models developed by Myron Scholes, Fischer Black and Robert C. Merton. Students will also have opportunities to develop programming skills through applications such as automated trading systems. Graduates are well-equipped to contribute to financial risk management, derivatives markets, commodity trading and regulatory sectors within financial institutions and multinational corporations.

Career Prospects: Financial Analyst, Risk Manager, Commercial Bank Consultant, Investment Consultant

Duration of study: 3 years**Campus:** Sungai Long**Total Fees:**

RM 54,000 (Local)

RM 76,100* (International)





UTAR is a Premier Digital Tech Institution

Premier Digital Tech Universities and Polytechnics, known as Premier Digital Tech Institutions (PDTIs), are Malaysia's leading digital tech-focused tertiary institutions. The PDTIs have a proven track record in producing high quality graduates for digital tech-based high value jobs, via cutting-edge research and education policies, strong industry linkages, and career development and placement services.



Scan here for more programme details!

For more information, please contact

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



Education & Learning