KMUTT | Queen Mary University of London

Engineering Dual Degrees

Queen Mary University of London
King Mongkut's University of Technology Thonburi



2027-2028
Prospectus

ABOUT US

INTERNATIONAL CENTRE FOR FUTURE TECHNOLOGIES

Delivering elite international programmes and transnational education, Queen Mary University of London and King Mongkut's University of Technology Thonburi together established an International Centre for Future Technologies, which integrates global perspectives with future-ready curricula.

Earn a world-class dua Bachelor's degree in engineering, combining high-tech learning at KMUTT's vibrant Bangkok campus with teaching delivered jointly by leading academics from KMUTT and Queen Mary University of London.





BRITISH EDUCATION, ENGINEERED IN BANGKOK

Unlock opportunities in tomorrow's most in-demand sectors with our specialised, four-year transnational engineering programmes.

3 SPECIALISED BACHELOR OF ENGINEERING DUAL DEGREES



Data and Artificial Intelligence Engineering

- Master the full data-to-intelligence pipeline.
- Gain high-demand functional competencies in cloud computing, generative AI, and real-world AI deployment.



Robotics and Artificial Intelligence Engineering

- Shape Industry 5.0 by building human-centric, sustainable, and resilient robotic systems.
- Integrate advanced robotics, mechatronics, and embedded AI to solve complex global challenges.



Intelligent Electronics and Electrical System Engineering

- Design, integrate and innovate sustainable electronic and electrical systems for the future.
- Dive into deep-tech focuses, including semiconductors, embedded systems, power electronics, and smart communications.

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WHY CHOOSE THE ENGINEERING DEGREES AT THE INTERNATIONAL CENTRE FOR FUTURE TECHNOLOGIES?

Positioned at the intersection of global innovation, the International Centre for Future Technologies combines British research frameworks with Thai technical ingenuity to solve real-world challenges.

DUAL DEGREES ADVANTAGE

Earn two globally recognised Bachelor of Engineering degrees upon graduation, one from KMUTT and one from Queen Mary.

RUSSELL GROUP EXCELLENCE

Study under the academic standards of Queen Mary, a proud member of the Russell Group, representing the top tier of research-intensive UK universities.

BRITISH EDUCATION QUALITY

Delivering an authentic international learning environment in Thailand, featuring over 50% of specific core courses taught directly in-person by UK-based Queen Mary professors.

EXCEPTIONAL VALUE

Gain a world-class British education, international faculty exposure, and global career readiness at a fraction of the cost of studying overseas. The total programme cost is highly competitive at 1,800,000 THB.





1st

IN THAILAND FOR SCIENCE AND TECHNOLOGY UNIVERSITIES
(QS WORLD UNIVERSITY RANKINGS 2027)

1st

IN LONDON FOR GENERAL ENGINEERING
(GOOD UNIVERSITY GUIDE 2027)



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QUEEN MARY UNIVERSITY OF LONDON

As a prestigious member of the UK's elite Russell Group, Queen Mary University of London is a world-class, research-led institution based in East London, supporting over 32,000 students across the humanities, sciences, engineering, medicine, and law. Ranked among the top 9% of universities globally, Queen Mary combines a vibrant campus life with academic excellence, boasting joint 7th place in the UK for research quality in REF 2021, to deliver an outstanding, research-inspired learning experience that drives exceptional graduate employability.

32nd

IN THE WORLD FOR QUALITY OF RESEARCH
(TIME HIGHER EDUCATION WORLD UNIVERSITY RANKINGS 2027)

KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI

Ranked No. 1 in Thailand for science and technology universities by the QS World University Rankings, King Mongkut's University of Technology Thonburi (KMUTT) is an innovative institution dedicated to creating sustainable global impact through research, educational innovation, and entrepreneurship. Functioning as both an educational and industrial park, KMUTT champions diversity, equity, and inclusion across its community while producing highly capable, values-driven graduates equipped to lead meaningful change and economic development.







Future-ready Curricula

Address future challenges through intensive, international curricula, driving readiness for emerging technologies and high-growth engineering sectors.

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Bachelor of Engineering Programme in Data and Artificial Intelligence Engineering

(International Programme)



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Programme Overview

Explore how artificial intelligence learns from data, understands images and language, and supports decisions. Progress from foundations in computing and mathematics to machine learning, generative AI and intelligent applications. Bring together AI, data and software engineering to design, build and evaluate responsible solutions to practical problems.

Degrees awarded

KMUTT
- B.Eng. (Data and Artificial Intelligence Engineering)

Queen Mary University of London
- BEng Data and Artificial Intelligence Engineering

What you will study

Y1: Maths, physics, programming, computer systems.
Y2: Algorithms, databases, web applications, data and AI.
Y3: Machine learning, generative AI, cloud and design-build.
Y4: Vision, language, decisions, electives and final project.

Learn from both universities

Queen Mary:
Programming, machine learning and computer vision.

KMUTT:
Databases, data engineering and cloud computing.

Together:
Design-and-build and final-year projects.



Career Opportunities

- Data engineer
- AI / Machine learning engineer
- Software engineer
- Data scientist

Skills you will develop

Design data and AI systems that meet practical needs. Build and evaluate models using appropriate data, software and engineering tools.
Use experimental evidence to judge performance and improve solutions.
Explain technical ideas, collaborate in diverse teams and consider the ethical and wider effects of AI.

Put learning into practice

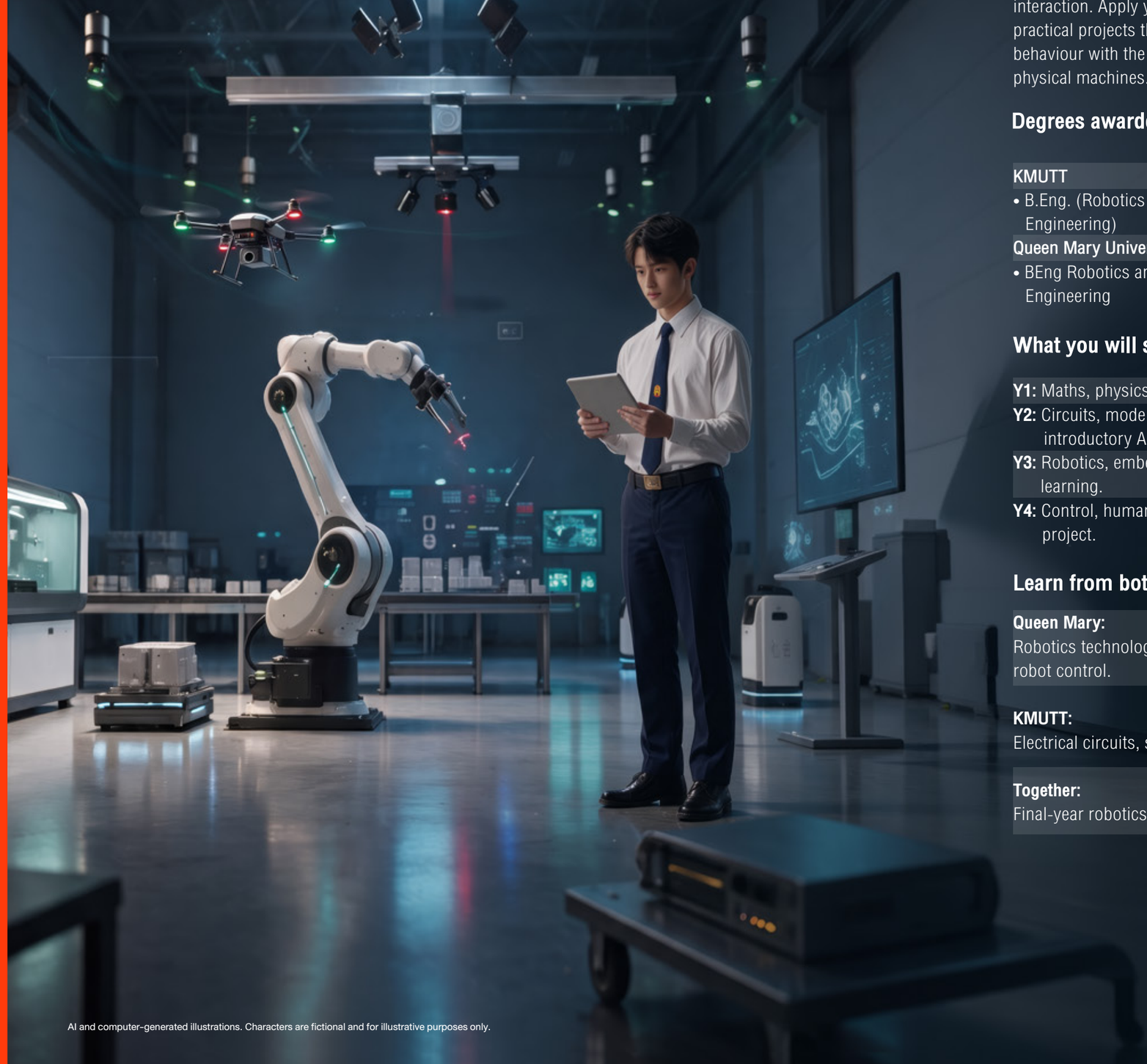
Computing exercises, a design-and-build project, workplace experience and a two-part final-year project. Assess through exams, practical assignments, reports and presentations.

Tuition fee

The tuition fee is 225,000 THB per semester (450,000 THB per year). The total tuition fee for the four-year programme is 1,800,000 THB.

Bachelor of Engineering Programme in Robotics and Artificial Intelligence Engineering

(International Programme)



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Programme Overview

Learn to design, build and control robots by bringing together mechanical systems, electronics, sensors and software. Progress from engineering design and system modelling to robotics, embedded AI and human-robot interaction. Apply your knowledge through practical projects that integrate intelligent behaviour with the movement and control of physical machines.

Degrees awarded

KMUTT
- B.Eng. (Robotics and Artificial Intelligence Engineering)

Queen Mary University of London
- BEng Robotics and Artificial Intelligence Engineering

What you will study

Y1: Maths, physics, programming and design.
Y2: Circuits, modelling, sensing and introductory AI.
Y3: Robotics, embedded AI and machine learning.
Y4: Control, human-robot interaction and final project.

Learn from both universities

Queen Mary:
Robotics technologies, machine learning and robot control.

KMUTT:
Electrical circuits, sensors and embedded AI.

Together:
Final-year robotics and AI project.



Career Opportunities

- Robotics engineer
- Automation and control engineer
- Mechatronics engineer
- AI / Machine learning engineer

Skills you will develop

Combine mechanisms, electronics and software to develop robotic solutions.
Apply AI and control methods to meet a design brief.
Plan experiments, interpret results and evaluate how a system performs.
Communicate technical ideas, manage work with others and keep developing your engineering knowledge and professional skills.

Put learning into practice

Experiments, modelling and design tasks; industrial training or short-term research; a two-part final-year project. Assess through exams, lab work, prototypes, reports and presentations.

Tuition fee

The tuition fee is 225,000 THB per semester (450,000 THB per year). The total tuition fee for the four-year programme is 1,800,000 THB.

Bachelor of Engineering Programme in Intelligent Electronics and Electrical System Engineering

(International Programme)



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Programme Overview

Explore the engineering behind semiconductor devices, communication networks, modern power systems and electric vehicles. Build from circuits and electronics to integrated circuits, embedded systems, AI and electric powertrains. Elective options extend your interests into the Internet of Things, smart power and smart grids, connecting intelligent devices with energy and transport applications.

Degrees awarded

KMUTT
- B.Eng. (Intelligent Electronic and Electrical System Engineering)

Queen Mary University of London
- BEng Intelligent Electronic and Electrical System Engineering

What you will study

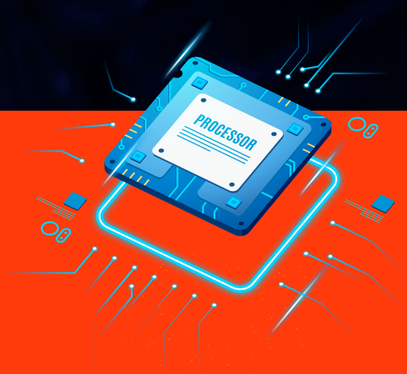
Y1: Maths, science, programming and engineering.
Y2: Circuits, electronics, signals and telecoms.
Y3: Control, AI, power systems and microprocessors.
Y4: Embedded systems, power electronics, EVs and final project.

Learn from both universities

Queen Mary:
Electronic devices, telecommunications and embedded systems.

KMUTT:
Circuit analysis, measurement and digital logic.

Together:
Capstone and final-year projects.



Career Opportunities

- Electrical engineer
- Electronics engineer
- Semiconductor engineer
- Telecommunications engineer

Skills you will develop

Analyse and design electrical and electronic systems to meet practical requirements.
Conduct experiments and use evidence to evaluate system performance.
Consider safety, environmental effects and professional responsibilities in engineering decisions.
Communicate clearly, contribute to team projects and apply new knowledge as technologies develop.

Put learning into practice

Laboratory work, a capstone project, an engineering internship and a two-part final-year project. Assess through exams, assignments, practical work, reports and presentations.

Tuition fee

The tuition fee is 225,000 THB per semester (450,000 THB per year). The total tuition fee for the four-year programme is 1,800,000 THB.



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FACULTY MEMBERS

Professor Alex Clark
PhD (Auburn University, USA), BA (Harvard University, USA)
Professor of Mathematics

Research
Dynamical Systems, Topology, Tiling Spaces

Professor Akram Alomainy
PhD (Queen Mary University of London, UK)
Professor of Antennas and Applied Electromagnetics

Research
Antenna Engineering, Applied Electromagnetics, Biomedical and Healthcare, THz Science and Technology, Radio Propagation, Wearable Technology

Dr Chinnapat Panwisawas
PhD (University of Birmingham, UK)
Reader (Associate Professor) in Computational Materials

Research
Additive manufacturing, Computational Materials, Digital Manufacturing, Digital Twins, Data-Centric Engineering, Physics-based and Data-driven Modelling

Dr Kamyar Mehran
PhD (Newcastle University, UK)
Senior Lecturer in Electrical Power Engineering

Research
Power Electronics, Microgrid Control and Energy Management, Electric and Hybrid Powertrain, System Modelling and Control, Battery Management Systems

Dr Thilina Dulantha Lalitharatne
PhD (Saga University, Japan)
Lecturer in Robotics and Mechatronics

Research
Human-Robot Interaction (HRI), Social Robotics, Medical Robotics, Brain-Computer Interface (BCI), Soft Robotics, Bio-Inspired Robotics

Dr Santitham Prom-on
PhD (King Mongkut's University of Technology Thonburi, Thailand)
Assistant Professor in Computer Engineering

Research
Artificial Intelligence, Data Engineering, Data Science, Machine Learning, Big Data Analytics

Dr Majid Taghavi
PhD (Scuola Superiore Sant'Anna, Italy)
Senior Lecturer in Robotics & Mechatronics

Research
Bioengineering, Artificial Muscles, Variable Stiffness, Soft Robotics, Smart Materials, Assistive Robotics

Dr Poj Tangamchit
PhD (Carnegie Mellon University, USA)
Associate Professor in Automation Engineering

Research
Artificial Intelligence, Financial Intelligence, Robotics, Financial Automation

Professor Wuttipong Kumwilaisak
PhD (University of Southern California, USA)
Professor in Electronic and Telecommunication Engineering

Research
Artificial Intelligence, Deep Learning, Computer Vision

Listed professors contribute to curriculum development and/or teaching in the programme. Updates to the teaching staff list will be available later on the website.

QUALIFICATIONS OF PROSPECTIVE STUDENTS

Our programmes seek motivated learners with strong analytical skills, creativity, and a collaborative mindset. Designed for both Thai and international students, these pathways empower you to excel in engineering within a vibrant, global academic environment.

Educational Qualifications

- Successful completion of upper secondary education (high school) or its equivalent from an accredited Thai or international institution.
- Qualifications must be officially recognised as equivalent to Matthayom 6 or an international high school diploma (e.g., A-levels, IB Diploma, GED).
- A strong academic record meeting the minimum GPA requirement set by the university for the respective admission round.

English Language Proficiency

- Demonstrated proficiency suitable for international coursework, aligned with CEFR level B1 or higher (IELTS (Academic) minimum score of 5.0 or higher).
- Valid test scores from standardised examinations such as IELTS, TOEFL, TOEIC, or other university-approved equivalents.
- Applicants who completed their prior education entirely in English may submit proof of instruction for evaluation and approval.

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Instagram: qmul.kmutt
Facebook: Queen Mary KMUTT Dual Degree Programmes

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