

Intelligent Electronic and Electrical System Engineering

Programme Highlights

Dual Degrees from Two Top-Tier Universities

Earn degrees from both universities. KMUTT is Thailand's number 1 science and technology university (QS World University Rankings 2027). Queen Mary is a top-tier UK research university and a Russell Group member.

Flying Faculty

Queen Mary academics fly to KMUTT to teach half of all core modules in person.

From Circuits to Intelligent Infrastructure

Connects electronics, electrical systems, and intelligent control, with applications in automation, energy, and AI data centres.

Active, Hands-on Learning

Focuses on practical experience through labs, major projects and an internship.

Career Opportunities

- Electrical Engineer
- Semiconductor Engineer
- Telecommunications Engineer
- Service Engineer
- Sales Engineer

Qualifications of Prospective Students

- Education: High school diploma or equivalent (e.g. M.6 / GED / IB / A levels)
- GPA: A minimum of 3.00, or as specified in the admissions criteria.
- English: CEFR B1 or higher (IELTS 5.0 or higher)
- Strong analytical and creative skills and readiness for international study

Expected Learning Outcomes

- Identify, formulate and solve complex electrical and electronic engineering problems using engineering, science and mathematics.
- Design solutions that meet requirements, considering safety, welfare, culture, society, the environment, the economy and the global context.
- Communicate effectively with diverse audiences.
- Recognise ethical and professional responsibilities and assess engineering solutions' wider impacts.
- Work as a team member or leader, creating an inclusive environment, setting goals, planning tasks and achieving objectives.
- Conduct experiments, analyse and interpret data, and apply engineering judgement to draw valid conclusions.

Curriculum / Credits

Programme total: 131 credits

Course Category	Credits
General Education	**27**
Specific Courses	**98**
• Basic Science and Mathematics	18
• Compulsory Courses	74
• Elective Courses	6
Free Electives	**6**
Total	**131**

Tuition Fees

Tuition Fees (baht)	Per Semester	Per Year
Tuition Fees (flat rate)	225,000	450,000
Total Tuition Fees		1,800,000

Faculty of Engineering

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