



BACHELOR OF ENGINEERING PROGRAM

IN ROBOTICS and AI ENGINEERING

(MULTIDISCIPLINARY INTERNATIONAL PROGRAM)

About KMITL

King Mongkut's Institute of Technology Ladkrabang (KMITL) has been established since 1960 and is considered one of pioneer science and technology institutions in Thailand. The name of the institute wes derived from the name of King Rama IV. The royal grand crown seal has been graciously used as the emblem of the institute. As moved to a new era with 50 years' experience, KMITL has not only been very successful as an institute specializing in the eld of science and technology in Thailand, but also produced a great exceptional number of professional "Practical Engineers" in diversied engineering territories. KMITL is moving forward with the new era with the philosophy "Education and Research in Science and Technology are the Foundation of the Development of the Nation" and KMITL is also ready to glow globally as internationalized activities and supports

About Robotics and Al Engineering (RAI) Program

engineering. Our program will provide technical deep-dive into the area of Robotics and Artificial Intelligence (AI) to prepare our student to be ready for the twenty-first century which Robotics and AI techniques will become an essential part of the technology industry and daily life. The programme will produce Robotics and Al graduates with a highly relevant skillset in control, innovate and manipulate the intelligent robots and Al systems that can learn from experience and the programme also places significant emphasis on student learning by doing. It adopts a practical, hands-on, approach to learning, where all modules are fully assessed using continuous assessment methods.

a four-year multidisciplinary international program



Year 1 - Semester 1

Computer Programming Introducation To Calculus Physics 1 (GENED ELECTIVE) Engnieering Drawing (ESL) Academic Listening And Speaking



Year 1 - Semester 2

Introduction To Robotics Engineering Mechanics Advances Calculus (GENED) Physics For Rai Life (Physic 2) (ESL) Academic Reading And



Year 2 - Semester 1

Engineering Materials (GENED ELECTIVE) (GENED ELECTIVE) Differential Equations And Matrix Algebra Feedback Control 1 (GENED) Interpretation And Arguments



Year 2 - Semester 2

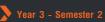
(GENED ELECTIVE) Safety And Standardization In Rai Rai Elective Mandatory Subject Kinematics And Dynamics Mamufacturing Process



Year 3 - Semester 1

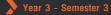
(GENED, SCIENCE & MATHEMATICS ELECTIVE) ARTIFICIAL INTELLIGENCE TECHNOLOGY RAI Elective mandatory subject RAI Elective mandatory subject RAI Elective subject RAI Elective mandatory subject

FOR REGULAR STUDENTS



(GENED ELECTIVE) RAI ELECTIVE (FREE ELECTIVE) RAI Elective mandatory subject

RAI Elective mandatory subject RAI Elective mandatory subject



INDUSTRIAL INTERNSHIP



(FREE ELECTIVE) RAI Elective subject RAI Elective mandatory subject RAI CAPSTONE DESIGN PREPARATION



RAI Elective subject BAI Elective subject RAI CAPSTONE DESIGN PREPARATION RAI Elective mandatory subject

FOR CO-OP/STUDY **ABROAD STUDENTS**

Year 3 - Semester 2

(GENED ELECTIVE) (FREE ELECTIVE) 1 RAI Elective subject RAI Elective subject RAI Elective mandatory subject RAI Elective mandatory subject RAI Elective mandatory subject



Year 4 - Semester 1

COOPERATIVE EDUCATION STUDY ABBOAD

Year 4 - Semester 2

RAI Elective mandatory subject RAI Elective mandatory subject (FREE ELECTIVE) 1 ROBOTICS AND ALENGINEERING CAPSTONE DESIGN **BAL Elective subject** RAI Flective subject

Collaboration with Other Institutes and Companies

The program is in collaboration with many university according to the memorandum of understanding (MOU) such as the University of South Florida, Imperial College, Chubu University, Kumamoto University, BK Birla Institute of Engineering and Technology, National Formosa University and South Eastern Regional College, etc. In case of industrial, the program is in collaboration and support by the world class companies in elds of robotics and Al such as Seagate, ABB, Mitsubishi, Amazon AWS Education, Delta Electronics, and AutoDesk, etc.



Possible Career Path after Graduation

- Roboticist or Robotic Engineer
- Startup Entrepreneur in High Tech
- Software Engineer for Mechatronics and Machines
- System Engineer
- Al Engineer
- Machine Vision Engineer
- IoT Engineer
- Robotic Security Analyst
- Expert Systems Analyst
- Machine Designer
- Software Architect for Al
- Technology Manager for Robotics and Al
- Solution Engineer
- Solution Architect

