



Computer Engineering



King Mongkut's
University of
Technology
Thonburi

BACHELOR OF ENGINEERING (B.ENG.)

COMPUTER ENGINEERING (INTERNATIONAL PROGRAM) Revised Version 2021

The international Bachelor's Degree of Computer Engineering aims to produce computer engineers who can think creatively, design with insight and discipline, and put knowledge into practice in the areas of software, hardware, and networking. Active learning, Hands-on, and outcome-based education are used in our teaching and learning approach in order to support life-long learning and disruptive technology in the future.

Program Objectives

- To produce graduates in Computer Engineering with 5 characteristics: self-learner, creative thinker, moral and ethical, socially skilled, and practitioner.
- To produce computer engineers who are knowledgeable in Computer Architecture including hardware and software with the capability in well-applying computer technology to industry.
- To promote research and development along with the appropriate technology transfer from other countries.
- To provide Computer Engineering consulting services in Thailand focusing on R&D projects in using computers to improve industrial productivity.
- To cultivate a culture among the students that has a desire for learning to be a life-long learner and a self-learner.

Expected Learning Outcomes

- **PLO1** Design and create the computer-based system by integrating and associating computer engineering knowledge
- **PLO2** Able to manipulate computer engineering tools and skills for analysis, problem-solving and decision making.
- **PLO3** Able to perform operations by adhering to the principles of health, morality, ethics, and professional ethics. Be responsible and considerate of the whole impact of community, public and environment.
- **PLO4** Communicate, present and write reports with knowledge and understanding for listeners or readers in English effectively.
- **PLO5** Able to life-long learning, possess leadership and positive attitude in working in their professional field.

Applicant Requirements

- High School Transcript in Math-Science program or equivalent
- High School Diploma in Math-Science program or equivalent
- English Proficiency Certificate (Optional)

Program Structure

Regular Program

General Education	31 Credits
Specific Courses	93 Credits
Core Courses	30 Credits
Special Courses	51 Credits
Technical Elective Courses	12 Credits
Elective Courses	6 Credits

Work-Integrated Learning Program (WIL)

General Education	31 Credits
Specific Courses	93 Credits
Core Courses	30 Credits
Special Courses	51 Credits
Work-Integrated Learning Courses	9 Credits
Elective Courses	9 Credits

Total 130 Credits

Career Opportunities

- Data Scientist
- Game Designer
- UX/UI Designer
- Software Engineer
- System Analyst
- Network & System Engineer
- IT Security Specialist
- IT Consultant
- IT Entrepreneur or Inventor
- Project Manager

Application Channels

- Direct recruitment: high GPA, GAT-PAT, via university alumni, for students with special needs and students from the three sudden border provinces, or for students with special talents.
- Direct recruitment for talent and university's scholarship
- Clearing house system recruitment
- Active recruitment
- National Admission



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