

**KING MONGKUT'S INSTITUTE  
OF TECHNOLOGY LADKRABANG**  
International College

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**KMITL**

**KING MONGKUT'S INSTITUTE OF  
TECHNOLOGY LADKRABANG**

International College

สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง

**UNDERGRADUATE**

[www.ic.kmitl.ac.th](http://www.ic.kmitl.ac.th)



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# 01 ABOUT US



## KMITL

King Mongkut's Institute of Technology Ladkrabang, nationally renowned as KMITL, was first established in 1960 in Nonthaburi with academic cooperation from the government of Japan. With a focus on providing excellence in education nationally and globally, KMITL also intensively developed research in science and technology for the industrial and economic development of Thailand, welcoming students to be part of the country's developing process.

With royal permission, KMITL bears the royal name of King Rama IV, known as Father of Thai Science, and has its symbol, the royal crown emblem.

Today, as one of the major Public University in Thailand, KMITL consists of 12 Faculties including

- Faculty of Engineering
- Faculty of Architecture
- Faculty of Industry Education
- Faculty of Science
- Faculty of Agricultural Technology
- Faculty of information Technology
- Faculty of Agro-industry
- Chumphon Campus
- College of Nanotechnology
- College of Data Storage Technology and Applications
- Administration and Management College
- The International College

## Accreditation

KMITL is a leading Public University with accreditation from the commission of Higher Education and supervised by the Thai Ministry of Education.

## International College

The International College is one of the newest faculties and function as an autonomous unit focusing on multidisciplinary programs which are based not only on the strong experience of KMITL in science and technology but also on knowledge in other fields such as business and management.

The International College proposes to students a unique multi-cultural experience by studying in a challenging English-speaking environment. Our Researchers, Lecturers and Management team come from diverse horizons sharing a similar goal, to be a leading University producing graduates with high academic standards combined with exceptional knowledge of their respective industries, ready to succeed in today's globalized world.

## Cooperation

Our academic cooperation with well-known Universities in Europe such as Frankfurt (Germany), Imperial College (London, UK) or University of Glasgow (UK) makes us attractive to prospect students aiming for International careers.

# 02 LIVING IN BANGKOK

Thailand is undoubtedly one of the most famous tourist destinations worldwide. Bangkok, its capital, is well known as a breathtaking city with thousands of things to do day and night. Studying in Bangkok is one these things.

As one of the most exciting capital city in Asia, Bangkok offers to prospective students, a real life experience that will help them to grow culturally and academically as students, and also as individuals.

## TRANSPORTATION

### How To Get Here?

The KMITL International College is ideally located at proximity of the Suvarnabhumi International Airport in the quieter suburbs of Bangkok.

You can visit us on our campus using public transports (buses, Railway or airport link), taxis (Techno Ladkrabang), or private cars (Google map coordinates 13.726646, 100.776400).

Even if KMITL is located in the suburbs of Bangkok, it is still relatively easy to reach the city center using the airport link to PayaThai station. The trip is about 35 minutes from Latkrabang station.



Bus



Airport link



Railway



Taxi



Private car

## INSIDE & OUTSIDE CAMPUS FACILITIES

### Inside The Campus

Several convenience stores, pharmacies, coffee shops, book stores, banks, a post-office, and restaurants are open all day long in-campus.

### Around The Campus

The KMITL Campus is surrounded by a large diversity of businesses including restaurants, 7-eleven stores, supermarkets, local markets and other shopping attractions.

All these facilities are at walking distance from the campus but you can still use public transportation at your convenience.

A nearby Public Park is located at the intersection of Chalong Krung road and Latkrabang road.



## MAP



# 03 STUDENT LIFE



## ACCOMMODATION

The University can provide accommodations (dormitories) to prospective students upon request. The rooms at the university have air-condition, free wi-fi and all the necessary facilities for students to enjoy their stay during their studies.

Students can easily find, via the web, room availabilities in the Latkrabang area at reasonable prices.

## SPORTS & ACTIVITIES

### FACILITIES

KMITL offers a wide range of sport facilities for students to use including for instance an Olympic sized swimming pool, tennis, basketball and badminton courts, fitness center and a soccer field.

### UNION & CLUBS

At the International College, we encourage our students to join unions and clubs according to their interests. Being members of social groups really help them to grow and to understand the power of people, socially and professionally.

The university proposes several clubs and unions to join including KMITL Chorus, Dance club, Chess Club, Multimedia Club to name a few.



## STUDENT WELFARE

Your health during your studies is one of our main concerns. A First-aid infirmary, providing free health care, is located on-campus, and several other hospitals and medical facilities surround the institute.

Pharmacies can easily be found inside and outside KMITL, usually at walking distance from your accommodation.

## CAREERS

Since its establishment in the early sixties', KMITL has strongly committed itself to lead students to greater achievements and successful careers in their respective industries.

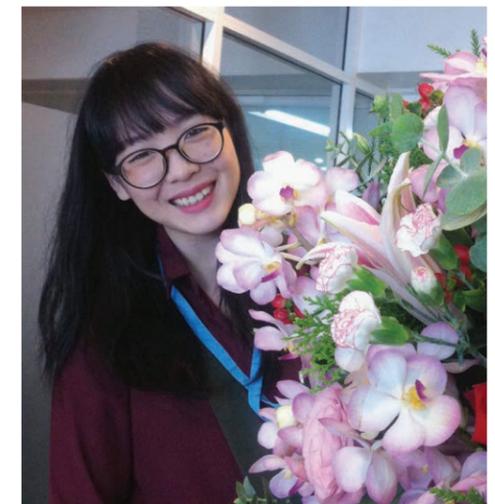
As one of the major University in Thailand in the engineering field, KMITL is pleased and proud to look back at its alumni and glad to be a part of their successful careers and achievements.

“

## TESTIMONIES

I am currently an IT Engineer in System Planning and Engineering department at Thai NS Solutions Co., Ltd. My job is to develop, operate, and maintain information systems including offering business application development and information technology solutions to customers.

During the four years in the Software Engineering program at the International College, KMITL, I have gained more than just knowledge. The college with its excellent program and valuable resources has given me such precious experiences. It has provided me with qualified lectures and intensive courses that fulfilled and enhanced both my technical and professional skills. Being a part of this challenging environment has totally developed my personal ambitions and paved future career path in the international arena. Moreover, it has promoted international understanding and companionship among students. Great supports from all instructors and administrative staff have been highly appreciated throughout the years.



Tasaprom Suptongchai (Ta)  
Software Engineering

Throughout my four years studying at the International College, KMITL; this institute was my second home supporting me with education, friendships, and memories. The Software Engineering program provided me with a solid foundation in knowledge and technical experiences for me to walk forward into the future as a graduate from KMITL. In support of an excellent program, the college also has a roster full of outstanding lecturers. Lecturers are very impressive in their abilities to pass on valuable knowledge to all the students.

Outside from the intensive courses, valuable life experiences were shared as well. This seems to be as precious, if not more, than the technical lessons. I can still clearly remember our last official day at the college. The dean along with other lecturers we have known and developed strong relationships with over the last 4 years, sat down unofficially talked about our future, shared their experiences, and gave their blessings to me and all of my colleagues as we were prepared to leave the college. This was a one of a kind experience and something I am certain all of my friends will remember for the rest of their lives.

Currently, I am pursuing the degree; Ph.D. in Computer Science at Chulalongkorn University. International College provided me with the mindset and taught me how to learn as I attempt to achieve postgraduate studies. In 2011, I came to the college as a child. Four years have passed and I left the college as a young man with knowledge in Software Engineering along with valuable memories I will forever cherish.



Thitiwat Piyatamrong (Tommy)  
Software Engineering

”

# 04 STUDYING AT KMITL



## COST

KMITL International College offers to prospective students a unique human experience and high standards qualifications in engineering in different fields and industries.

As a public University, KMITL challenges itself to always provide the most affordable and efficient solutions to its students.

Scholarships from KMITL are also available for both, Thai nationals and international students on our website

## HOW TO APPLY

To get more information or apply for one of our courses, please follow the link:



[www.ic.kmitl.ac.th/se/16/](http://www.ic.kmitl.ac.th/se/16/)

## ACADEMIC FACILITIES



### LIBRARY

The recently refurbished main library offers an outstanding studying environment with countless numbers of international books and research papers from many fields and industries.

Our library facilities propose a quiet and effective studying experience to our students, a place to relax or a meeting point for developing projects and ideas.



### RESEARCH LABORATORIES

The quality and uniqueness of our research laboratories are one of the strong characteristics of the reputation of KMITL.

Our efforts to provide the best equipment to our students encourage them to adapt themselves to newest technologies and be ready to operate in their future industries.

## TERM TIMES

Our University follows the international term standards:

### SEMESTER 1

(early August to middle December)

### SEMESTER 2

(early January to middle May)

Following International standards grant us the privilege of enhancing our collaborations with internationally well-known universities worldwide.

Also, students who enrol exchange programs with our partnered universities do not feel any disruption as we follow a similar calendar.

# SOFTWARE ENGINEERING

THE FIRST INTERNATIONAL PROGRAM IN SOFTWARE ENGINEERING IN THAILAND.

Advanced program in software research, development and practice, to lead international software industry.

To experience both Thai and British cultures whilst be awarded with a degree from a world-class university.

## Why Software Engineering?

Every computer system is governed by software. Almost every human activity involves computer technology in some form. Undoubtedly software industry is one of the largest industries in the world.

Software engineering (SE) is an engineering discipline concerning all aspects of software production, including software analysis, design, development, testing, and deployment. SE requires profound abstract and logical thinking and the application of mathematics, logic, and computer science in order to produce efficient and reliable software with the available resources.

## Our Software Engineering Program

The program aims at producing leading software engineers who possess high caliber in the knowledge and skills in software development and research, as well as having professional integrity and ethics. The program is a 4-year undergraduate course conducted entirely in English. It is taught by a team of academics with expertise in various disciplines of software engineering from KMITL and our overseas partner universities. Graduates will be awarded the B.Eng. degree in Software Engineering.

## KMITL-Glasgow 2+2 SE Program

With our collaboration with University of Glasgow, UK, students who have completed Year 2 of our SE program and passed the academic and English language requirements will be able to continue their studies in Years 3 and 4 at the School of Computing Science, University of Glasgow. Students will join the highly successful Software Engineering program at Glasgow and have an opportunity to study with world-renowned academics, as well as working on team projects with multi-national talents in this program. Successful students will be conferred the B.Sc. degree in Software Engineering from University of Glasgow.

## King Mongkut's Institute of Technology Ladkrabang

Since its founding in 1960, KMITL has grown to become one of the nation's leading universities in the field of computing and information technology. The institute is named after King Rama IV, the King Mongkut, widely known among Thais as the Father of Thai Science. Being well-known for its science and engineering innovation, the institute emphasizes a hands-on approach in educating students and encourages creativity.

## University of Glasgow

Founded in 1451, University of Glasgow is the fourth oldest university in the English-speaking world. It is one of the world's top 100 universities. Glasgow has built a reputation for the excellence of its Computing Science teaching and research. Today, the School of Computing Science is ranked in the UK's top 10 for research in the latest Research Assessment Exercise. The students can benefit from its strong links with industry and graduate well-placed for a career with a range of companies across the UK, Europe and the world.

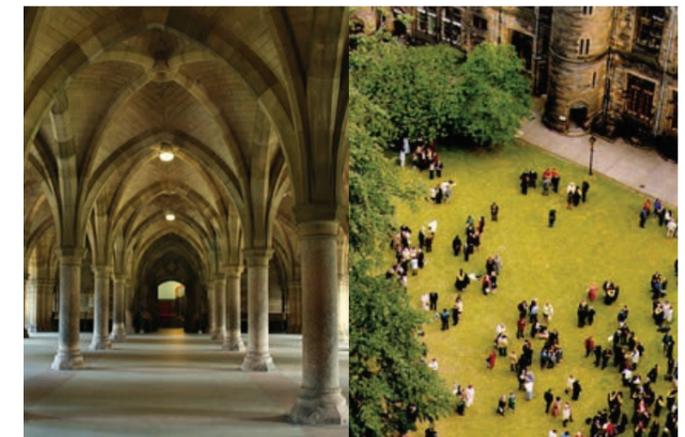
## International SE Program

FIRST YEAR	SECOND YEAR	SUMMER SEMESTER	FOURTH YEAR
<b>1st Semester</b> Mathematics 1 Intro. to Mathematical Logic Principle of Computer Programming Principle of Com Programming Lab Digital Circuit & Logic Design Digital Circuit Lab Computer & Programming Foundation English 1	<b>1st Semester</b> Mathematics 3 Probability & Statistics Advanced Object-Oriented Programming Data Structures & Algorithms Data Structures & Algorithms Lab Seminar in Software Engineering Technical Writing	SW Industrial Placement	<b>1st Semester</b> Software Project 2 Two Elective Courses in SE One Free Elective Course One Elective Course in Social Study
<b>2nd Semester</b> Mathematics 2 Discrete Mathematics Computer Organization & Assembly Language Computer Organization & Assembly Language Lab Object-Oriented Concepts & Programming Object-Oriented Programming Lab	<b>2nd Semester</b> Software Engineering Principle Software Engineering Lab Operating Systems Database Systems Computer Graphics Applications of Information Systems Technical Communication & Presentation	<b>THIRD YEAR</b> <b>1st Semester</b> Object-Oriented Analysis & Design Object-Oriented Analysis & Design Lab Theory of Computation Computer Network & Comm. Artificial Intelligence SW Verification & Validation	<b>2nd Semester</b> Software Project 3 SW Development Process Computer Ethics & Laws One Free Elective Course One Elective Course in Humanity
		<b>2nd Semester</b> Algorithm Design & Analysis Compiler Construction Distributed Computing SW Design & Architecture SW Project Management Software Project 1	



## KMITL-Glasgow 2+2 SE Program (Taught by Glasgow)

THIRD YEAR	FOURTH YEAR
Team Project Advanced Programming Algorithmics Database Systems Distributed Infor Management Interactive Systems Networked Systems Operating Systems Professional SW Development Programming Languages	Individual Project Professional Skills & Issues Eight Elective Courses in Computer Science and Software Engineering



# ENGINEERING & TECHNOLOGY MANAGEMENT



The role of engineers has dramatically evolved over the past decades. Engineers are not only here to operate technical tasks but also to deal with business operation issues. The International College answers market's needs and offers the B.Sc. Engineering and Technology Management (ETM) that combines engineering, technological and business courses in a unique program. By combining these diverse fields, the program gives more flexibility to students as they discover new interests and passions during their studies at the International College.

*"Being able to gain knowledge and experience in various fields is the key to excel in nowadays world as an Engineer and also, as an International Leader".*

In the first two years of the ETM program, the focus is made on learning the fundamental courses including mathematics, economics, languages, business and management. At the end of the second year, the curriculum proposes three different paths which help students to get specialized in the field of their choice. The three specializations are:

## ENGINEERING MANAGEMENT

Engineering Management is a discipline that deals with engineering and business issues in order to provide a solution to a complex project.

## SUPPLY CHAIN MANAGEMENT

Supply Chain Management is a discipline that deals with mismatches between supply and demand and manages the flow of goods and services to end users.

## TECHNOLOGY MANAGEMENT

Technology Management is a discipline that provides competitive advantages via technological strategy, innovation, and management.

Of course the International College staff is always pleased to advise our students and to give them necessary information regarding the path that may suit them the best.

After graduated, students from all international programs at KMITL International College have overseas opportunities, as prospective Master students as well as managers for foreign companies.

The Engineering & Technology Management Program at the International College, KMITL, is undoubtedly an open door to a challenging and successful career as a global leader of the twenty first century.



## Channels of Admission

The quota admission is open for students with excellent academic records from Thai schools, international schools, bilingual schools, international vocational programs, or high schools/secondary schools outside Thailand. Selection is based on the applicant's academic records, standardized test scores, and an interview.



Please visit our website for further information  
[www.ic.kmitl.ac.th/etm](http://www.ic.kmitl.ac.th/etm)

## OUR MISSION

### Year 1

"Strengthening our students in the basics of Mathematics, Economics, Language, Business & Management."

### Year 2

"Challenging students in the different fields of Engineering, Business & IT."

### Year 3

"Adding further essential core courses in Engineering, Business Finance and encouraging our students to focus on one of the specialization proposed."

### Year 4

"Developing specific skills according to students' specialization"

## "Your path to a successful international career"

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<b>1st Semester</b> <ul style="list-style-type: none"> <li>• Introduction in Economics</li> <li>• Elective in Humanity 1</li> <li>• Foundation English 1</li> <li>• Introduction to Computer &amp; Programming</li> <li>• Calculus 1</li> <li>• Linear Algebra</li> </ul>	<b>1st Semester</b> <ul style="list-style-type: none"> <li>• Business Information Systems</li> <li>• Principles of Financial Accounting</li> <li>• Economics for Business &amp; Management</li> <li>• Elective in Humanity</li> <li>• Technical Writing</li> <li>• Probability &amp; Statistics</li> </ul>	<b>1st Semester</b> <ul style="list-style-type: none"> <li>• Business Application Programming ***</li> <li>• Business Process management **/**</li> <li>• Statistical Analysis *</li> <li>• Productions &amp; Operations Management */**</li> <li>• Introduction to Decision Support Systems</li> <li>• Business Finance- Principles of Marketing</li> <li>• Elective in Social Science</li> </ul>	<b>1st Semester</b> <ul style="list-style-type: none"> <li>• Intelligent Systems for business ***</li> <li>• Information Systems Development ***</li> <li>• Business Data Com &amp; Networking ***</li> <li>• Introduction to Inventory Management **</li> <li>• Transportation &amp; Logistics Management **</li> <li>• Enterprise Planning &amp; Control Systems **</li> <li>• Facility Location &amp; Layout Planning *</li> </ul>
<b>2nd Semester</b> <ul style="list-style-type: none"> <li>• Principles of Management</li> <li>• Principles of Business</li> <li>• Introduction to Modern Engineering</li> <li>• Foundation English 2</li> <li>• Elective in Science &amp; Mathematics</li> <li>• Calculus 2</li> </ul>	<b>2nd Semester</b> <ul style="list-style-type: none"> <li>• Introduction to Engineering &amp; Technology Management</li> <li>• Database Systems &amp; Applications</li> <li>• Introduction to Management Science</li> <li>• Organizational Behavior</li> <li>• Management Accounting</li> <li>• Technical Communication &amp; Presentation</li> </ul>	<b>2nd Semester</b> <ul style="list-style-type: none"> <li>• Data Structures for Information Processing ***</li> <li>• Business Information Systems Analysis ***</li> <li>• Distributed &amp; Collaborative Computing ***</li> <li>• e-Business ***</li> <li>• Business Process Simulation */**</li> <li>• Management Systems Optimization */**</li> <li>• Economic Decision Analysis */**</li> <li>• Introduction to Supply Chain Mgmt */**</li> <li>• Introduction to Research Methodology</li> <li>• Project Management</li> </ul>	<b>2nd Semester</b> <ul style="list-style-type: none"> <li>• Production &amp; Inventory Management *</li> <li>• Quality Management *</li> <li>• Electives 1 &amp; 2- Seminar</li> <li>• Co-Operative Education</li> <li>• Special Studies 1 &amp; 2 (Exchange Program)</li> <li>• Project</li> </ul>
<b>SUMMER SEMESTER</b> <ul style="list-style-type: none"> <li>• Summer Internship</li> </ul>			

Engineering Management Path\*  
Supply Chain Management Path\*\*  
Technology Management Path\*\*\*