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**DUAL-DEGREE** 

Receive 2 diplomas from College of Materials Innovation and Technology and Faculty of Engineering, KMITL



02

# INTERNATIONAL PROGRAM

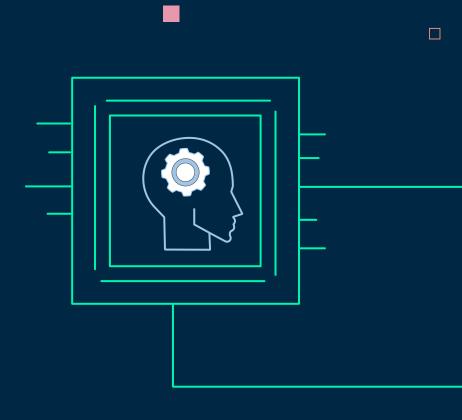
4-year study 152 credits 120,000 baht per semester



4 co-working area 4 laboratories and more...

## **CAREER PATH**

- Roboticist or Robotic Engineer
- Startup Entrepreneur in High Technology
- Software Engineer for Mechatronics and Machines
- System Engineer
- Al Engineer
- Machine Vision Engineer
- loT Engineer
- Robotic Security Analyst
- Expert Systems Analyst
- Machine Designer
- Material Engineer and more...



# MAIN SUBJECTS



Robotics Laboratory



Artificial Intelligence Technology



Manufacturing Process



Energy Storage



Micro and Nano Fabrication



**Nanosensors** 

and more...

# **CURRICULUM** (apart from Robotics & AI)

### Year 1:

- CHEMISTRY
- INTRODUCTION TO NANOTECHNOLOGY

### Year 2:

- SENSOR TECHNOLOGY
- INTRODUCTION TO PROBABILITY AND STATISTICS
- MICRO AND NANOFABRICATION
- ELECTIVE MANDATORY SUBJECTS FOR SMART MATERIALS TECHNOLOGY

#### Year 3:

- QUANTUM AND NANOELECTRONIC DEVICES
- APPLICATIONS AND TRENDS OF SMART MATERIALS
- ELECTIVE SUBJECTS FOR SMART MATERIALS TECHNOLOGY
- ELECTIVE MANDATORY SUBJECTS FOR SMART MATERIALS TECHNOLOGY

### Year 4:

MOST OF ELECTIVE SUBJECTS

### IN COLLABORATION WITH ROBOTICS & AI

With the help of smart material (nanotechnology), it can:

- Improve the structure, built, and coating of the object
  - Phone: lightweight, waterproof, rigid body
- The stability of the robot
  - Improve the precision and develop the sensors
    - Improve LiDAR to work in greater distance
- Extends the limits of electronics
  - Improve processors and circuit board by making it smaller and decrease energy consumption while improving its performance
    - Apple's iPhone 12 using 5 nm A14 Bionic processor

and such...

Not just robotics and AI, it can also use to applied in any other field such as biotechnology, energy, photonics, and more!



### REQUIREMENTS

### Education background

- Obtained or expected to receive a qualification equivalent to Matthayom 6
- Graduated from or studying in Matthayom 6 or equivalent

### Academic record

- GPA (at least 4 semesters) 75 percentile
- SAT / GSAT 1020+
- ACT 19+
- IB diploma 29+
- A-level, GAT/PAT, gaokao, depending on professor

### English score

- IELTS 6.0+
- TOEFL 550+
- KMITL-TEP 82+

#### APPLY NOW!



Direct/TCAS Admission

# **FACILITIES**



LAB & CLASSROOM



FABRICATION LAB



**ROBOTICS LAB** 



CO-WORKING 1



CO-WORKING 2



NANO LAB

### PARTNERSHIP WITH...





































# MORE INFO:



FB: College of Materials Innovation and Technology (@CMIT.KMITL)



www.cmit.kmitl.ac.th/dual-degree



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