engineering

University of Reading

SPU SRIPATUM UNIVERSITY

B.Eng. in Industrial and Digital Management Systems Engineering

IEDMS covers all essential materials in industrial engineering methods and tools, a fundamental of mathematical, physical, engineering and management sciences. Trained through hands-on experiences and project-based settings, our students are expected to develop a system-oriented, critical and analytical thinking skill.

program structure

3 TRACKS

Track 1 Solely run by Faculty of Engineering KMITL

Track 2 **Dual degree -** Cooperation between Faculty of Engineering, KMITL, and School of Computer Science, **University of Reading (UK)**

Track 3 **Dual degree -** Cooperation between Faculty of Engineering, KMITL, and Faculty of Business Science, **Sripatum University**

Total 139 credits

General Education 30 credits

Major courses 103 credits

Free electives 6 credits

The first two years of the program cover fundamentals in science and mathematics, engineering, Engineering, as well as language and communication skills.

In Years 3 and 4, each student will study the core courses of IEDMS covering the fundamental and the state-of-art knowledge in industrial engineering, system thinking, and management sciences. Sample courses include: System Dynamics Modelling, Data Sciences and Data Analytics, Operations Research and Simulation, Process Analysis, Supply Chain Economics & Logistics Management, Human Interaction & Services Integrated Management Systems for sustainability, Information and Database Technology

Training in the industry is required, either in the summer of Year 3 or in Semester 2 of Year 4

tuition fee

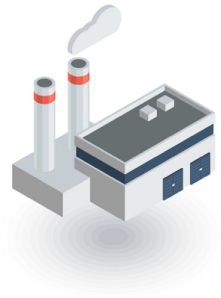
2,750 USD/semester

(21,820 USD for the entire program)

** 90,000 baht/semester (720,000 baht for the entire program)

engineering

Industrial and Digital Management Systems



study plan

TRACK 1 COURSES HELD AT KMITL

	Semester 1	Semester 2
Year 1	Introduction to Calculus Physics 1 Chemistry Introduction to Engineering Programming Engineering Materials (ESL) Academic Listening and Speaking (Audit) GEN-ED Electives (Humanities 1)	Advanced Calculus Physics 2 Engineering Drawing Engineering Mechanics (ESL) Academic Reading and Writing (Audit) GEN-ED Electives (Social sciences 1) GEN-ED Electives (Humanities 2)
Year 2	Fundamental of Electrical Engineering Manufacturing Processes Engineering Statistics Differential Equations and Linear Algebra Computer and Information Technology for Industrial Engineering Industrial Engineering Laboratory GEN-ED Electives (Humanities 3)	Discrete Event Simulation Industrial Work Study Thermodynamics Industrial Engineering Practice Mechanical Engineering Laboratory Industrial Safety Engineering Data Science and Data Analytics
Year 3	Operations Research Engineering Economy Quality Engineering (Gened Elective) Automation Systems GEN-ED Electives (Social sciences 2) GEN-ED Electives (Humanities 4)	Industrial Plant Design Maintenance Engineering Production Planning And Control Supply Chain And Logistics Management GEN-ED Electives (Science 1) (Free Elective)
Year 3	*Summer - Industrial Training*	
Year 4 ***Regular***	IE&DMS Elective IE&DMS Project Preparation Project Management GEN-ED Electives (Social sciences 3)	IE&DMS Elective IE&DMS Project GEN-ED Electives (Social sciences 2) (Free Elective)
Year 4 ***Study-Abroad or Cooperative Education***	Study-Abroad or Cooperative Education	IE&DMS Elective IE&DMS Elective Project Management GEN-ED Electives (Social sciences 3) GEN-ED Electives (Social sciences 4) (Free Elective)

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study plan

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TRACK 2 COURSES HELD AT KMITL - UNIVERSITY OF READING

	Semester 1	*Semester 2*	*Semester 3*
Year 1	Introduction to Calculus Physics 1 Chemistry Introduction to Engineering Programming Engineering Materials (ESL) Academic Listening and Speaking (Audit) GEN-ED Electives (Humanities 1)	Advanced Calculus Physics 2 Engineering Drawing Engineering Mechanics (ESL) Academic Reading and Writing (Audit) GEN-ED Electives (Social sciences 1) GEN-ED Electives (Humanities 2)	GEN-ED Electives (Humanities 2) Operations Research Industrial Safety Engineering
Year 2	Fundamental of Electrical Engineering Manufacturing Processes Engineering Statistics Differential Equations and Linear Algebra Computer and Information Technology for Industrial Engineering Industrial Engineering Laboratory GEN-ED Electives (Humanities 3)	Discrete Event Simulation Industrial Work Study Thermodynamics Industrial Engineering Practice Mechanical Engineering Laboratory Industrial Safety Engineering Data Science and Data Analytics	Engineering Economy Industrial Plant Design Production Planning And Control