Recommended Tracks

Master of Engineering in Electrical and Computer Engineering

The following guidelines are designed to provided you with the recommended study tracks. Theses tracks include the list of courses recommended for the individual track (for study plan A2 and B). For further information or recommendation, please contact ECE lecturers.

Electrical Power and Energy Engineering (EPE)
Electric Drive System
Testing and Condition Diagnostic of High Voltage Equipment
Asset Management
Data Management and Analysis
Battery Storage Systems
Electrical Transients in Electrical Power Systems
Internet of things
Optimization

Communications and Smart System Engineering (CSE)
Communication Protocols
Advanced Wireless Communications and Metering Infrastructure
Electromagnetic Field Theory for Smart Sensor Applications
Antenna Engineering
Internet of things
Mobile Radio networks
Broadband Wireless Communication Systems
Microwave Components and Circuit Design

Smart Grids Engineering (SGE)
Data Management and Analysis
Advanced Wireless Communications and Metering Infrastructure
Asset Management
Internet of things

Computer Engineering (ComEng): System Track

Highly recommended for depth	Breadth recommendation
Hardware and System Software Architecture	Advanced Computer Architecture
Advanced Operating System and Distributed System	Cloud Computing
Database Systems	Storage System
Parallel Computing	Compiler Design and Optimization
	Advanced Database Management Systems
	High Performance Scientific Computing
	Algorithms

Computer Engineering (ComEng): Data Analytics Track

Highly recommended for depth	Breadth recommendation
Database Systems	Cloud Computing
Principles of Data Mining	Advanced Database Management Systems
Data Management and Analysis	Information Retrieval
Machine Learning	Bioinformatics
	Algorithms
	Advanced Software Engineering

Computer Engineering (ComEng): AI & ML Track

Highly recommended for depth	Breadth recommendation
Principles of Data Mining	Bioinformatics
Machine Vision	Digital Image Processing
Machine Learning	Applications of Digital Image Processing
Algorithms	High Performance Scientific Computing
	Parallel Computing
	Optimization

Computer Engineering (ComEng): High Performance Computing Track

Highly recommended for depth	Breadth recommendation
High Performance Scientific Computing	Cloud Computing
Parallel Computing	High Performance Computing using GPUs
Optimization	
Algorithms	
Algorithmic Differentiation	

Recommended Study Tracks of M.Eng. in ECE   Last update: 14 May 2021

The Sirindhorn International Thai-German Graduate School of Engineering (TGGS)
Electrical and Computer Engineering

Computer Engineering (ComEng): Enterprise Software Track	
Highly recommended for depth	Breadth recommendation
Cloud Computing	Hardware and System Software Architecture
Database Systems	Advanced Database Management Systems
Advanced Software Engineering	Data Management and Analysis
	Algorithms
	Computer Graphics
	Human-Computer Interaction

Computer Engineering (ComEng): Vision Track	
Highly recommended for depth	Breadth recommendation
Machine Vision	Machine Learning
Digital Image Processing	Computer Graphics
Applications of Digital Image Processing	Human-Computer Interaction
Algorithms	