

Curriculum for Bachelor of Engineering
(Electrical-Mechanical Manufacturing Engineering - International Program)

First Year

First Semester

		Credits (Lect - Lab)
01208111	Engineering Drawing	3 (2-3)
01417167	Engineering Mathematics I	4 (4-0)
01420111	General Physics I	3 (3-0)
01420113	Laboratory in Physics I	1 (0-3)
01999021	Thai Language for Communication	3 (3-0)
01xxxxxx	Foreign Language	<u>3 (-)</u>
		<u>17 (-)</u>

Second Semester

		Credits (Lect - Lab)
01204111	Computers and Programming	3 (2-3)
01403114	Laboratory in Fundamental of General Chemistry	1 (0-3)
01403117	Fundamental of General Chemistry	3 (3-0)
01417168	Engineering Mathematics II	3 (3-0)
01420112	General Physics II	3 (3-0)
01420114	Laboratory in Physic II	1 (0-3)
01175xxx	Physical Education Activities	1 (0-2)
01xxxxxx	Foreign Language	3 (-)
	Humanities	<u>3 (-)</u>
		<u>21 (-)</u>

Curriculum for Bachelor of Engineering
(Electrical-Mechanical Manufacturing Engineering - International Program)

Second Year

First Semester

		Credits (Lect - Lab)
01205211	Electric Circuit Analysis I	3 (3-0)
01208221	Engineering Mechanics I	3 (3-0)
01208241	Thermodynamics I	3 (3-0)
01208281	Workshop Practice	1 (0-3)
01213211	Materials Science for Engineers	3 (3-0)
01417267	Engineering Mathematics III	3 (3-0)
01175xxx	Physical Education Activities	1 (0-2)
01xxxxxx	Foreign Language	3 (-)
	Social Sciences	<u>3 (-)</u>
		<u>23 (-)</u>

Second Semester

		Credits (Lect - Lab)
01204112	Information Technology for Engineers	1 (0-2)
01205213	Electric Circuit Laboratory	1 (0-3)
01205231	Electronic Circuits and Systems I	3 (3-0)
01205251	Electromechanical Energy Conversion I	3 (3-0)
01208222	Engineering Mechanics II	3 (3-0)
01208261	Mechanics of Solids	3 (3-0)
01211231	Conventional and Computer-Controlled Machines	3 (3-0)
	Science and Mathematics	<u>3 (-)</u>
		<u>20 (-)</u>

Curriculum for Bachelor of Engineering (Electrical-Mechanical Manufacturing Engineering - International Program)

Third Year

First Semester

		Credits (Lect - Lab)
01205305	Digital Circuits and Microcontrollers	3 (3-0)
01205306	Digital Circuits and Microcontrollers Laboratory	1 (0-3)
01205331	Electronic Circuits and Systems II	3 (3-0)
01205332	Electronic Laboratory	1 (0-3)
01205352	Electromechanical Energy Conversion Laboratory I	1 (1-3)
01206311	Manufacturing Processes I	3 (3-0)
01208371	Automatic Control	3 (3-0)
01211311	Introduction to CAD/CAM	<u>3 (2-3)</u>
		<u>18 (15-12)</u>

Second Semester

		Credits (Lect - Lab)
01208321	Mechanics of Machinery	3 (3-0)
01208361	Machine Design I	3 (2-3)
01211322	Instrument and Precision Measurement	3 (2-3)
01211323	Instrument and Control Systems Laboratory	1 (0-3)
01211331	CNC Machine Technology I	3 (2-3)
01211361	Mold and Die	<u>3 (2-3)</u>
		<u>16 (11-15)</u>

Curriculum for Bachelor of Engineering
(Electrical-Mechanical Manufacturing Engineering - International Program)

Fourth Year

First Semester

		Credits (Lect - Lab)
01211431	Machine Part Design	3 (3-0)
01211442	Principles of Operation and Production	3 (3-0)
01211495	Electrical-Mechanical Manufacturing Engineering Project Preparation	1 (0-3)
01211497	Seminar	1
	Free Electives	<u>6 (-)</u>
		<u>14 (-)</u>

Second Semester

		Credits (Lect - Lab)
01208242	Fluid Mechanics	3 (3-0)
01211499	Electrical-Mechanical Manufacturing Engineering Project	2 (0-6)
	Technical Electives	<u>12 (-)</u>
		<u>17 (-)</u>