

**Curriculum for Bachelor of Engineering
(Mechanical 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)
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 Physics II	1 (0-3)
01175xxx Physical Education Activities	1 (0-2)
Foreign Language	3 (-)
Humanities	<u>3 (-)</u>
	<u>21 (-)</u>

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Second Year

First Semester

		Credits (Lect - Lab)
01205201	Introduction to Electrical Engineering	3 (3-0)
01208211	Geometric Modeling for Mechanical Engineering Applications	3 (2-3)
01208221	Engineering Mechanics I	3 (3-0)
01213211	Materials Science for Engineers	3 (3-0)
01417267	Engineering Mathematics III	3 (3-0)
01175xxx	Physical Education Activities	1 (0-2)
	Foreign Language	3 (-)
	Science and Mathematics	<u>3 (-)</u>
		<u>22 (-)</u>

Second Semester

		Credits (Lect - Lab)
01205202	Electrical Engineering Laboratory I	1 (0-3)
01208222	Engineering Mechanics II	3 (3-0)
01208241	Thermodynamics I	3 (3-0)
01208242	Fluid Mechanics	3 (3-0)
01208261	Mechanics of Solids	3 (3-0)
01208271	Computer Methods for Mechanical Engineering	3 (2-3)
01208281	Workshop Practice	1 (0-3)
	Social Sciences	3 (-)
		<u>20 (-)</u>

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Third Year

First Semester

		Credits (Lect - Lab)
01206311	Manufacturing Processes I	3 (3-0)
01208321	Mechanics of Machinery	3 (3-0)
01208322	Mechanical Vibrations	3 (3-0)
01208323	Engineering Measurements	3 (3-0)
01208341	Thermodynamics II	3 (3-0)
01208351	Heat Transfer	3 (3-0)
01208381	Mechanical Engineering Laboratory I	<u>1 (0-3)</u>
		<u>19 (18-3)</u>

Second Semester

		Credits (Lect - Lab)
01208331	Internal Combustion Engines	3 (3-0)
01208332	Automotive Engineering I	3 (3-0)
01208352	Refrigeration I	3 (3-0)
01208361	Machine Design I	3 (3-0)
01208371	Automatic Control	3 (3-0)
01208382	Mechanical Engineering Laboratory II	1 (0-3)
	Free Electives	<u>3 (-)</u>
		<u>19 (-)</u>

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Fourth Year

First Semester

		Credits (Lect - Lab)
01208431	Power Plant Engineering	3 (3-0)
01208451	Air Conditioning	3 (3-0)
01208461	Machine Design II	3 (2-3)
01208495	Mechanical Engineering Projects Preparation	1 (0-3)
	Technical Electives	<u>6 (-)</u>
		<u>16 (-)</u>

Second Semester

		Credits (Lect - Lab)
01208441	Fluid Machinery	3 (3-0)
01208481	Special Mechanical Engineering Laboratory	1 (0-3)
01208497	Seminar	1
01208499	Mechanical Engineering Project	2 (0-6)
	Technical Electives	6 (-)
	Free Electives	<u>3 (-)</u>
		<u>16 (-)</u>