

**COURSE PLAN**  
**for**  
**Cooperative Education Program**  
 Bachelor of Engineering Program  
 Automotive Engineering (International program)

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**1<sup>st</sup> Academic year**

	<b>First Semester</b>	<b>Credits (Lecture-Lab-Self Study)</b>
01417167	Engineering Mathematics I	3(3-0-6)
01420111	General Physics I	3(3-0-6)
01420113	Laboratory in Physics I	1(0-3-2)
01999111	Knowledge of the Land	2(2-0-4)
01358xxx	Foreign Languages	3( - - )
	General Education Course : Wellness	<u>2( - - )</u>
	General Education Course : Aesthetics	3( - - )
	Thai Language	3( - - )
	<b>Total</b>	<b><u>20( - - )</u></b>

	<b>Second Semester</b>	<b>Credits (Lecture-Lab-Self Study)</b>
01417168	Engineering Mathematics II	3(3-0-6)
01420112	General Physics II	3(3-0-6)
01420114	Laboratory in Physics II	1(0-3-2)
03608111	Automotive Engineering Drawing	3(2-3-6)
03608131	Automotive Technology Exploration	3(3-0-6)
	General Education Course : Information/Computer	<u>1( - - )</u>
	General Education Course : Entrepreneurship	3( - - )
	General Education Course : Thai Citizen and Global Citizen	3( - - )
	<b>Total</b>	<b><u>20( - - )</u></b>

## 2<sup>nd</sup> Academic year

First Semester		Credits (Lecture-Lab-Self Study)
01403114	Laboratory in Fundamentals of General Chemistry	1(0-3-2)
01403117	Fundamental of General Chemistry	3(3-0-6)
01417267	Engineering Mathematics III	3(3-0-6)
03604223	Basic Principles of Engineering Mechanics	3(3-0-6)
03604281	Workshop Practice	1(0-3-2)
03608221	Automotive Engineering Materials	3(3-0-6)
03608251	Automotive Electrical System	3(2-3-6)
01358xxx	Foreign Languages	3( - - )
<b>Total</b>		<b><u>20( - - )</u></b>

Second Semester		Credits (Lecture-Lab-Self Study)
03604262	Health Safety and Environment	3(3-0-6)
03604271	Digital Technology in Mechanical Engineering	3(2-3-6)
03608222	Mechanics of Automotive Materials	3(3-0-6)
03608232	Vehicle Aerodynamics	3(3-0-6)
03608241	Thermodynamics for Automotive Engineering	3(3-0-6)
03608261	Automotive Engineering Laboratory I	1(0-3-2)
01175xxx	Physical Education Activities	1(0-2-1)
	General Education Course : Entrepreneurship	3( - - )
<b>Total</b>		<b><u>20( - - )</u></b>

### 3<sup>rd</sup> Academic year

First Semester		Credits (Lecture-Lab-Self Study)
03608312	Computer-Aided Design in Automotive Engineering	3(2-3-6)
03608313	Automotive Part Design	3(3-0-6)
03608323	Modern Automotive Mechanics	3(3-0-6)
03608333	Automotive Dynamic System and Control	3(3-0-6)
03608342	Automotive Thermal Management System	3(3-0-6)
03608362	Automotive Engineering Laboratory I	1(0-3-2)
01358xxx	Foreign Languages	3( - - )
<b>Total</b>		<b><u>19( - - )</u></b>

Second Semester		Credits (Lecture-Lab-Self Study)
03604331	Internal Combustion Engines	3(3-0-6)
03608314	Introduction to Modern Automotive Design	3(2-3-6)
03608334	Automotive Engineering Processes	3(3-0-6)
03608343	Automotive Air Conditioning	3(3-0-6)
03608352	Autonomous Vehicle Control	3(3-0-6)
03608399	Automotive Engineering Project Preparation	1(0-3-2)
	Free Electives	3( - - )
<b>Total</b>		<b><u>19( - - )</u></b>

## 4<sup>th</sup> Academic year

First Semester		Credits (Lecture-Lab-Self Study)
03600490	Co-operative Education	<u>6</u>
<b>Total</b>		<b><u>6</u></b>

Second Semester		Credits (Lecture-Lab-Self Study)
03604442	Power Plant Engineering	3(3-0-6)
03604471	Robots, Artificial Intelligence, and Internet of Things	3(3-0-6)
03608424	Noise, Vibration and Harshness	3(3-0-6)
03608444	Engineering Management and Economic	3(3-0-6)
03608499	Automotive Engineering Project	2(0-6-3)
0360xxxx	Technical Electives	3( - - )
	Free Electives	3( - - )
<b>Total</b>		<b><u>20( - - )</u></b>

Student record form for Bachelor of Engineering Program, Automotive Engineering (International Program), Improved Program Year 2023 (for the cooperative education program )

Faculty of Engineering at Sriracha, Kasetsart University Sriracha Campus

Name ..... Surname ..... Student ID .....

Advisor Asst. Prof. Sakda Thongchai (sakda@eng.src.ku.ac.th)

Academic year	1 (2023)		2 (2024)		3 (2025)		4 (2026)	
	First semester	Second semester	First semester	Second semester	First semester	Second semester	First semester	Second semester
Credit								
Average score								
Total credit								
GPA								
Credit / Semester	20	20	20	20	19	19	6	20
	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01417167</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01420111</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 01420113</div> <div><span style="border: 1px solid black; padding: 2px;">2</span> 01999111</div> <div>Foreign Languages I</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01358xxx</div> <div>Wellness</div> <div><span style="border: 1px solid black; padding: 2px;">2</span> xxxxxxxx</div> <div>Aesthetics</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> <div>Thai Language</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01417168</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01420112</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 01420114</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608111</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608131</div> <div>Information/Computer</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> xxxxxxxx</div> <div>Entrepreneurship courses</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> <div>Thai Citizen and Global Citizen</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">1</span> 01403114</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01403117</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01417267</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03604223</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 03604281</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608221</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608251</div> <div>Foreign Languages II</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01358xxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03604262</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03604271</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608222</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608232</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608241</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 03608261</div> <div>Physical Education Activities</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 01175xxx</div> <div>Entrepreneurship</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608312</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608313</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608323</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608333</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608342</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 3608362</div> <div>Foreign Languages III</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 01358xxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03604331</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608314</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608334</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608343</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608352</div> <div><span style="border: 1px solid black; padding: 2px;">1</span> 03608399</div> <div>Free Electives</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><span style="border: 1px solid black; padding: 2px;">6</span> 03600490</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03604471</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 03608424</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 3608444</div> <div><span style="border: 1px solid black; padding: 2px;">2</span> 3608499</div> <div>Engineering elective courses</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> 0360xxxx</div> <div>Free Electives</div> <div><span style="border: 1px solid black; padding: 2px;">3</span> xxxxxxxx</div> </div>	