

COURSE PLAN
for
Non-cooperative Education Program
Bachelor of Engineering Program
Automotive Engineering (International program)

1st Academic year

	First Semester	Credits (Lecture-Lab-Self Study)
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(- -)
	Total	<u>20(- -)</u>

	Second Semester	Credits (Lecture-Lab-Self Study)
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(- -)
	Total	<u>20(- -)</u>

2nd 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(- -)
Total		<u>20(- -)</u>

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(- -)
Total		<u>20(- -)</u>

3rd 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(- -)
Total		<u>19(- -)</u>

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(- -)
Total		<u>19(- -)</u>

4th Academic year

First Semester		Credits (Lecture-Lab-Self Study)
0360xxxx	Technical Electives	3(- -)
0360xxxx	Technical Electives	3(- -)
Total		<u>6(- -)</u>

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(- -)
Total		<u>17(- -)</u>

Student record form for Bachelor of Engineering Program, Automotive Engineering (International Program), Improved Program Year 2023 (for the non-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><input type="text" value="3 01417167"/></div> <div><input type="text" value="3 01420111"/></div> <div><input type="text" value="1 01420113"/></div> <div><input type="text" value="2 01999111"/></div> <div>Foreign Languages I</div> <div><input type="text" value="3 01358xxx"/></div> <div>Wellness</div> <div><input type="text" value="2 xxxxxxxx"/></div> <div>Aesthetics</div> <div><input type="text" value="3 xxxxxxxx"/></div> <div>Thai Language</div> <div><input type="text" value="3 xxxxxxxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="3 01417168"/></div> <div><input type="text" value="3 01420112"/></div> <div><input type="text" value="1 01420114"/></div> <div><input type="text" value="3 03608111"/></div> <div><input type="text" value="3 03608131"/></div> <div>Information/Computer</div> <div><input type="text" value="1 xxxxxxxx"/></div> <div>Entrepreneurship courses</div> <div><input type="text" value="3 xxxxxxxx"/></div> <div>Thai Citizen and Global Citizen</div> <div><input type="text" value="3 xxxxxxxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="1 01403114"/></div> <div><input type="text" value="3 01403117"/></div> <div><input type="text" value="3 01417267"/></div> <div><input type="text" value="3 03604223"/></div> <div><input type="text" value="1 03604281"/></div> <div><input type="text" value="3 03608221"/></div> <div><input type="text" value="3 3608251"/></div> <div>Foreign Languages II</div> <div><input type="text" value="3 01358xxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="3 03604262"/></div> <div><input type="text" value="3 03604271"/></div> <div><input type="text" value="3 03608222"/></div> <div><input type="text" value="3 03608232"/></div> <div><input type="text" value="3 03608241"/></div> <div>Physical Education Activities</div> <div><input type="text" value="1 03608261"/></div> <div><input type="text" value="1 01175xxx"/></div> <div>Entrepreneurship</div> <div><input type="text" value="3 xxxxxxxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="3 3608312"/></div> <div><input type="text" value="3 3608313"/></div> <div><input type="text" value="3 3608323"/></div> <div><input type="text" value="3 3608333"/></div> <div><input type="text" value="3 3608342"/></div> <div><input type="text" value="1 3608362"/></div> <div>Foreign Languages III</div> <div><input type="text" value="3 01358xxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="3 03604331"/></div> <div><input type="text" value="3 03608314"/></div> <div><input type="text" value="3 03608334"/></div> <div><input type="text" value="3 03608343"/></div> <div><input type="text" value="3 03608352"/></div> <div><input type="text" value="1 03608399"/></div> <div>Free Electives</div> <div><input type="text" value="3 xxxxxxxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div>Engineering elective courses</div> <div><input type="text" value="3 0360xxxx"/></div> <div>Engineering elective courses</div> <div><input type="text" value="3 0360xxxx"/></div> <div>Free Electives</div> <div><input type="text" value="3 xxxxxxxx"/></div> </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div><input type="text" value="3 03604442"/></div> <div><input type="text" value="3 03604471"/></div> <div><input type="text" value="3 03608424"/></div> <div><input type="text" value="3 03608444"/></div> <div><input type="text" value="2 03608499"/></div> <div>Engineering elective courses</div> <div><input type="text" value="3 0360xxxx"/></div> </div>