

INTERNATIONAL SCHOOL OF ENGINEERING (ISE)
 Established in 2005 by the Faculty of Engineering of Chulalongkorn University
 INTERNATIONAL SCHOOL OF ENGINEERING_ Chulalongkorn University

The Automotive Design and Manufacturing Engineering (ADME) program offers a new dimension of multi-disciplinary courses profiling from automotive engineering, mechanical engineering, engineering design, manufacturing, regulation, and management. Thailand is an automotive hub in the region. As manufacturing grows and other automotive activities such as design and development continue to grow, so will the demand of qualified engineers within the region. This international program will provide graduates with multi engineering knowledge and skills fit perfectly for much-needed automotive assemblers, part and component makers and other supporting industries. The ADME program has well established relationships with automobile manufacturers, and some of the classes are conducted along with them to fulfill students' industrial expertise.

SEMESTERS

8

SUBJECTS

55

CREDITS

147

SEMESTER 1

Course	Subject	Credits
2190101*	Computer Programming	3
2190151*	Computer Programming Laboratory	1
2301107	Calculus I	3
2302103	General Chemistry Laboratory	1
2302105	Chemistry for Engineers	3
2304153	Physics for Engineers	3
2304193	Physics Laboratory for Engineers	1
5501112*	Communicative English I	3

Course	Subject	Credits
		18

SEMESTER 2

Course	Subject	Credits
2140111*	Exploring Engineering World	3
2183101*	Engineering Graphics	3
2189101*	Engineering Materials	3
2301108	Calculus II	3
2304154	Physics and Electronics for Engineers	3
2304194	Physics and Electronics Laboratory for Engineers	1
5501123*	Communicative English II	3
		19

SEMESTER 3

Course	Subject	Credits
2142251*	Manufacturing Process for Automotive Engineering I	3
2183212*	Statics	3
2183221*	Thermodynamics	3
2183271*	Automotive Engineering Workshop	1
2183281*	Introduction to Automotive Engineering	3

Course	Subject	Credits
2184201*	Probability and Statistics for Automotive Engineering	3
2301312	Differential Equations	3

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SEMESTER 4

Course	Subject	Credits
2142201	Engineering First	3
2142252*	Manufacturing Process for Automotive Engineering II	3
2182210*	Electrical Circuit	3
2182213*	Electrical Circuit Laboratory	1
2183213*	Mechanics of Materials	3
2183231*	Dynamics	3
5501214*	Communication and Presentation Skills	3

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SEMESTER 5

Course	Subject	Credits
2182310*	Electronics and Instrumentation for Automobile	3
2183222*	Fluid Mechanics	3
2183261*	Mechanical Engineering Laboratory	2

Course	Subject	Credits
2183272*	Automotive Instrument Laboratory	1
2183331*	Mechanics of Machinery	3
2184302*	Product Development Process	3
5501225*	Technical Writing	3

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SEMESTER 6

Course	Subject	Credits
2142424	Vehicle Dynamics	3
2183321*	Heat Transfer	3
2183332*	CAD/CAM/CAE	3
2183351*	Mechanical Engineering Design	3
2184303*	Engineering Management	3
xxxxxxx	General Education	3

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SEMESTER 7 (SUMMER)

Course	Subject	Credits
2140301	Industrial Training	2

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SEMESTER 8

Course	Subject	Credits
2142498*	Automotive Engineering Pre-Project	1
2183322*	Internal Combustion Engine	3
2183352*	Motor Vehicle Design	3
xxxxxxx	Approved Elective	3
xxxxxxx	Approved Elective	3
xxxxxxx	General Education	3
xxxxxxx	General Education	3
xxxxxxx	Free Elective	3

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SEMESTER 9

Course	Subject	Credits
2142499	Automotive Engineering Project	3
xxxxxxx	Approved Elective	3
xxxxxxx	General Education	3
xxxxxxx	Free Elective	3

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