

**Curriculum for Bachelor of Engineering
(Computer Engineering)**

First Year

First Semester

		Credits (Lect - Lab)
204111	Computers and Programming	3 (2-3)
204112	Information Technology for Engineers	1 (0-2)
417167	Engineering Mathematics I	4 (4-0)
420111	General Physics I	3 (3-0)
420113	Laboratory in Physics I	1 (0-3)
999021	Thai Language for Communication	3 (3-0)
175xxx	Physical Education Activities	1 (0-2)
355xxx	English	<u>3 (3-0)</u>
		<u>19 (15-10)</u>

Second Semester

		Credits (Lect - Lab)
204214	Programming Skill Development Laboratory	1 (0-3)
208111	Engineering Drawing	3 (2-3)
403111	General Chemistry	4 (4-0)
403112	Laboratory in General Chemistry	1 (0-3)
417168	Engineering Mathematics II	3 (3-0)
420112	General Physics II	3 (3-0)
420114	Laboratory in Physics II	1 (0-3)
175xxx	Physical Education Activities	1 (0-2)
355xxx	English	<u>3 (3-0)</u>
		<u>20 (15-14)</u>

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Second Year

First Semester

		Credits (Lect - Lab)
204211	Discrete Mathematics	3 (3-0)
204221	Computer Organization and Assembly Language	3 (3-0)
204223	Practicum for Computer Engineering	1 (0-3)
205201	Introduction to Electrical Engineering	3 (3-0)
208201	Basic Principles in Engineering Mechanics	3 (3-0)
219211*	Software Development Training Camp	1 (0-3)
417267	Engineering Mathematics III	3 (3-0)
999xxx	Humanities	<u>3 (3-0)</u>
		<u>20 (18-6)</u>

Second Semester

		Credits (Lect - Lab)
204212	Abstract Data Types and Problem Solving	3 (3-0)
204213	Theory of Computation	3 (3-0)
204222	Digital Systems Design	3 (3-0)
204224	Logic Circuit Laboratory	1 (0-3)
205202	Electrical Engineering Laboratory I	1 (0-3)
205203	Electronics for Computer Engineers	3 (3-0)
213211	Materials Science for Engineers	3 (3-0)
355xxx	English	<u>3 (3-0)</u>
		<u>20 (18-6)</u>

* 219211 Software Development Training Camp 1 (0-3) is the technical elective for every computer engineering student the study

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Third Year

First Semester

		Credits (Lect - Lab)
204313	Algorithm Design and Analysis	3 (3-0)
204321	Computer Architecture	3 (3-0)
204325	Data Communication and Computer Networks	3 (3-0)
204331	System Software	3 (3-0)
204352	Laws and Ethics in Information Technology	3 (3-0)
205303	Electronics Laboratory for Computer Engineers	1 (0-3)
	Free Electives	<u>3 (-)</u>
		<u>19 (-)</u>

Second Semester

		Credits (Lect - Lab)
204332	Operating Systems	3 (3-0)
204341	Design and Construction of Large Software Systems	3 (3-0)
204351	Database Systems	3 (3-0)
204421	Computer Networks	3 (3-0)
204422	Computer Communication and Network Laboratory	1 (0-3)
	Free Electives	<u>3 (-)</u>
		<u>16 (-)</u>

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Fourth Year

First Semester

		Credits (Lect - Lab)
204495	Computer Engineering Project Preparation	2 (2-0)
204497	Seminar	1
999xxx	Social Sciences	3 (3-0)
	Technical Electives	6 (-)
	Free Electives	<u>3 (-)</u>
		<u>15 (-)</u>

Second Semester

		Credits (Lect - Lab)
204499	Computer Engineering Project	2 (0-6)
999xxx	Science and Mathematics	3 (3-0)
	Technical Electives	3 (-)
	Free Electives	<u>3 (-)</u>
		<u>11 (-)</u>