

### Cooperative Education Program

Year 1 Semester 1	Credits (Lecture-Lab-Self Study)
01219114 Computer Programming I	3(3-0-6)
01219115 Computer Programming Laboratory I	1(0-3-2)
01219118 Discrete Mathematics and Linear Algebra	4(4-0-8)
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)
01175xxx Physical Education Activities	1(0-2-1)
Information/Computer	<u>3(- -)</u>
<b>Total</b>	<b><u>21(- -)</u></b>

Year 1 Semester 2	Credits (Lecture-Lab-Self Study)
01204216 Probability and Statistics for Computer Engineers	3(3-0-6)
01219116 Computer Programming II	3(3-0-6)
01219117 Computer Programming Laboratory II	1(0-3-2)
01219217 Data Structure and Algorithm I	3(3-0-6)
01417168 Engineering Mathematics II	3(3-0-6)
Foreign Language	3(- -)
General Education Entrepreneurship	<u>3(- -)</u>
<b>Total</b>	<b><u>19(- -)</u></b>

Year 2 Semester 1		Credits (Lecture-Lab-Self Study)
01219212	Data Structure and Algorithm Laboratory	1(0-3-2)
01219218	Data Structure and Algorithm II	3(3-0-6)
01219224	Computer Network Architecture and Programming	3(3-0-6)
01219231	Database Systems for Software and Knowledge Engineers	3(3-0-6)
01219241	Individual Software Development Process	3(2-3-6)
	Thai Language	3( - - )
	General Education Wellness	<u>3( - - )</u>
	<b>Total</b>	<b><u>19( - - )</u></b>

Year 2 Semester 2		Credits (Lecture-Lab-Self Study)
01204461	Artificial Intelligence	3(3-0-6)
01219222	Introduction to Computer Systems	3(3-0-6)
01219223	Computer System Laboratory	1(0-3-2)
01219243	Principles of Software Design	3(3-0-6)
01219335	Data Acquisition and Integration	3(3-0-6)
01219343	Software Testing	3(3-0-6)
	Foreign Language	<u>3( - - )</u>
	<b>Total</b>	<b><u>19( - - )</u></b>

Year 3 Semester 1		Credits (Lecture-Lab-Self Study)
01219313	Communication Skills for Software and Knowledge Enginee	3(3-0-6)
01219325	Software Development Security	3(3-0-6)
01219346	Collaborative Software Process and Project Management	3(2-3-6)
01219366	Knowledge Engineering	3(3-0-6)
01219367	Data Analytics	3(3-0-6)
	General Education Wellness	<u>3( - - )</u>
	<b>Total</b>	<b><u>18( - - )</u></b>

Year 3 Semester 2		Credits (Lecture-Lab-Self Study)
01219395	Innovative Software Group Project Preparation	1(0-3-2)
01219449	Principles of Software Architecture	3(2-3-6)
01219461	Big Data Engineering	3(3-0-6)
01219462	Software Engineering for AI-Enabled System	3(3-0-6)
	General Education Aesthetics	3( - - )
	Elective	<u>6( - - )</u>
	<b>Total</b>	<b><u>19( - - )</u></b>

Year 4 Semester 1		Credits (Lecture-Lab-Self Study)
01219490	Cooperative Education	<u>9</u>
	<b>Total</b>	<b><u>9</u></b>

Year 4 Semester 2		Credits (Lecture-Lab-Self Study)
01219497	Hands-on Technical Seminar in Software and Knowledge Engineering	1(0-3-2)
01219499	Innovative Software Group Project	3(2-3-6)
	Foreign Language	3( - - )
	Elective	3( - - )
	Free Elective	<u>6( - - )</u>
	<b>Total</b>	<b><u>16( - - )</u></b>