

Curriculum for Bachelor of Engineering
(Software and Knowledge Engineering - International Program)

First Year

First Semester

		Credits (Lect - Lab)
01204111	Computers and Programming	3 (2-3)
01208111	Engineering Drawing	3 (2-3)
01417167	Engineering Mathematics I	4 (4-0)
01420111	General Physics I	3 (3-0)
01420113	Laboratory in Physics I	1 (0-3)
	Foreign Language	<u>6 (-)</u>
		<u>20 (-)</u>

Second Semester

		Credits (Lect - Lab)
01219141	Object-Oriented Modeling and Programming	3 (3-0)
01219142	Object-Oriented Modeling and Programming Laboratory	1 (0-3)
01403114	Laboratory in Fundamental of General Chemistry	1 (0-3)
01403117	Fundamental of General Chemistry	3 (3-0)
01417168	Engineering Mathematics II	3 (3-0)
01420112	General Physics II	3 (3-0)
01420114	Laboratory in Physics II	1 (0-3)
01175xxx	Physical Education Activities	1 (0-2)
	Foreign Language	<u>3 (-)</u>
		<u>19 (-)</u>

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Second Year

First Semester

		Credits (Lect - Lab)
01204211	Discrete Mathematics	3 (3-0)
01204212	Abstract Data Types and Problem Solving	3 (3-0)
01204214	Programming Skill Development Laboratory	1 (0-3)
01219211	Software Development Training Camp	1 (0-3)
01219243	Software Specification and Design	3 (3-0)
01219244	Software Specification and Design Laboratory	1 (0-3)
01999xxx	Social Sciences	3 (3-0)
	Foreign Language	<u>3 (-)</u>
		<u>18 (-)</u>

Second Semester

		Credits (Lect - Lab)
01204313	Algorithm Design and Analysis	3 (3-0)
01204482	Computer-Human Interfaces	3 (3-0)
01219221	Computer Organization and Architecture	3 (3-0)
01219245	Individual Software Development Process	3 (3-0)
01219246	Individual Software Development Process Laboratory	1 (0-3)
01219271	Knowledge Engineering and Knowledge Management	3 (3-0)
01175xxx	Physical Education Activities	<u>1 (0-2)</u>
		<u>17 (15-5)</u>

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Third Year

First Semester

		Credits (Lect - Lab)
01204312	Applied Probability for Computer Engineers	3 (3-0)
01219331	Database Design and Programming	3 (3-0)
01219347	Workgroup Software Development Process	3 (3-0)
01219348	Workgroup Software Development Process Laboratory	1 (0-3)
	Technical Electives	<u>6 (6-0)</u>
		<u>16 (15-3)</u>

Second Semester

		Credits (Lect - Lab)
01219311	Operating Systems for Software and Knowledge Engineer	3 (3-0)
01219321	Data Communication and Computers Networks Programming	3 (3-0)
01219372	Enterprise Management in Software and Knowledge Business	3 (3-0)
	Humanities	3 (3-0)
	Technical Electives	<u>6 (6-0)</u>
		<u>18 (18-0)</u>

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Fourth Year

First Semester

		Credits (Lect - Lab)
01219490	Co-operative Education	9 (-)
		<u>9 (-)</u>

Second Semester

		Credits (Lect - Lab)
01204352	Laws and Ethics in Information Technology	3 (3-0)
01219449	Software Patterns and Architecture	3 (3-0)
01219497	Seminar	1
01219499	Software and Knowledge Engineering Workgroup Project	3 (2-3)
	Science and Mathematics	3 (3-0)
	Free Electives	<u>6 (-)</u>
		<u>19 (-)</u>