Code: 25550041101636

Bachelor of Engineering Program in Information Systems and

Network Engineering (International Program) (2566)

Name of the degree

Full: Bachelor of Engineering (Information Systems and Network Engineering)

Abbreviation: B.Eng. (Information Systems and Network Engineering)

Curriculum structure

11 Deguired Co					
1.1 Required Co	urses			23	
1.1 Learner Pers 001101	son ENGL	101	Fundamental English 1	15 3(3-0-6)	
001102	ENGL	102	Fundamental English 2	3(3-0-6)	
001201	ENGL	201	Critical Reading and Effective Writing	3(3-0-6)	
001225	ENGL	225	English in Science and Technology Context	3(3-0-6)	
Select additi	ional three-	credits c	course on this list		
204100	CS	100	Information Technology and Modern Life	3(3-0-6)	
261111	CPE	111	Internet and Online Community	3(3-0-6)	
953111	SE	111	Software for Everyday Life	3(3-0-6)	
1.1.2.Innovative 259192	Co-creator ENGR	192	Skills for Professionalism and Entrepreneurship	4 1(0-3-1)	
Select additi	ional three-	credits c	course on this list		
013110	PSY	110	Psychology and Daily Life	3(3-0-6)	
050106	HUGE	106	Humanistic Arts	3(3-0-6)	
030106					
176100	LAGE	100	Law and Modern World	3(3-0-6)	
			Law and Modern World Environmental Science in Today's World		
176100	LAGE	100		3(3-0-6)	
176100 201114	LAGE SC	100 114	Environmental Science in Today's World	3(3-0-6) 3(3-0-6)	
176100 201114 201117	LAGE SC SC	100 114 117	Environmental Science in Today's World Mathematics and Science in Civilization	3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190	SC SC SC	100 114 117 190	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication	3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109	SC SC SC PHYS	100 114 117 190 109	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110	SC SC PHYS	100 114 117 190 109	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110 368100	SC SC SC PHYS PHYS ABM	100 114 117 190 109 110	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World Starting an Agribusiness in a Changing World	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110 368100 610111	SC SC SC PHYS PHYS ABM AG	100 114 117 190 109 110 100	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World Starting an Agribusiness in a Changing World Packaging for Marketing	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110 368100 610111 703103	SC SC PHYS PHYS ABM AG MGMT	100 114 117 190 109 110 100 111 103	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World Starting an Agribusiness in a Changing World Packaging for Marketing Introduction to Entrepreneurship and Business	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110 368100 610111 703103 751100	LAGE SC SC PHYS PHYS ABM AG MGMT ECON	100 114 117 190 109 110 100 111 103	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World Starting an Agribusiness in a Changing World Packaging for Marketing Introduction to Entrepreneurship and Business Economics for Everyday Life	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	
176100 201114 201117 201190 207109 207110 368100 610111 703103 751100 851103	LAGE SC SC PHYS PHYS ABM AG MGMT ECON MC DF	100 114 117 190 109 110 100 111 103 100	Environmental Science in Today's World Mathematics and Science in Civilization Critical Thinking, Problem Solving and Science Communication Life and the Universe Physics: the Science that Changed the World Starting an Agribusiness in a Changing World Packaging for Marketing Introduction to Entrepreneurship and Business Economics for Everyday Life Life and Society through Media	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)	

				83
259104	ENGR	104	Engineering Drawing	3(2-3-4
thers 252281	EE	281	Fundamentals of Electronic Circuits for Information Systems and Network Engineering	3(3-0-6
269103	ISNE	103	Programming for Information Systems and Network Engineering	3(3-0-6
269101	ISNE	101	Introduction to Information Systems and Network Engineering	3(3-0-6
undamental of			i v	3(3-0-6
261216	CPE	216	Quantitative Analysis in Industrial Engineering Discrete Mathematics for Computer Engineers	•
206162 255201	MATH IE	162 201	Calculus for Engineering 2	3(3-0-6
206161	MATH	161	Calculus for Engineering 1	3(3-0-6
.1 Core Course		- 6- 1-6		24
2) Field of Spe	cialization :	a minim	um of	107
951100	ANI	100	Modern Life and Animation	3(3-0-6
801100	ARCT	100	Architecture in Everyday Life	3(3-0-6
259195	ENGR	195	Managing Activities for Development	1(0-3-1
259193	ENGR	193	Morality and Intelligence for Being a Professional	1(0-3-1
256131	MN	131	Urban Mining	3(3-0-
154104	GEO	104	Environmental Conservation	3(3-0-
128100	PA	100	Basic Good Governance in Administration	3(3-0-
127100	GOV	100	Politics in Everyday Life	3(3-0-
2.3 Active Citiz 109114	zen FAGE	114	Art in Everyday Life	3(3-0-
2.2 Innovative 259194	Co-creator ENGR	194	Characteristics and Values for Being a Professional Entrepreneur	1(0-3-
705191	MKTG	191	Smart Consumer	1(1-0-2
702101	FINA	101	Finance for Daily Life	3(3-0-6
701181	ACC	181	Basic Accounting for Entrepreneurs	3(3-0-6
571116	NGGE	116	Health and Working in the Digital Age	3(3-0-6
462130	PHPC	130	Medications in Everyday Life	3(3-0-
211100	BCT	100	Eating Well : Better Living and Disease Prevention	3(3-0-
203100	CHEM	100	Chemistry in Everyday Life	3(3-0-
201100	SC	100	Integrated Science	3(3-0-
154130	GEO	130	Geo-Information in Daily Life	3(3-0-
009103	LS	103	Information Literacy and Information Presentation	3(3-0-

At least 36 credits in 2.2.1 and 2.2.2 must be 300 or higher level courses, among such courses there must be at least 18 credits from 400 or higher level courses.

2.2.1 Required Courses

2.2.1.1 Normal P	lan			74		
Organizations and Information Systems						
261446 CPE 446 Information Systems						
269105	ISNE	105	Information Systems and Network Engineering Laboratory 1	1(0-3-0)		
269201	ISNE	201	Information Systems and Network Engineering Laboratory 2	1(0-3-0)		
269370	ISNE	370	Project Management for Information Systems and Network Engineering	3(3-0-6)		
269470	ISNE	470	Information Technology Service Management	3(3-0-6)		

Technology for Ap 269200	plication SNE	200	Web Programming Language	3(2-3-4
269340	SNE	340	Data Centric Application Development	3(3-0-6
269360 I	SNE	360	Platform Programming	3(3-0-6
269430 I	SNE	430	Wireless And Broadband Computer Networks	3(3-0-6
269491	SNE	491	Project Survey	1(0-3-0
269492	SNE	492	Project	3(0-9-0
echnology and S	oftware Me	ethods		
261200	CPE	200	Object-Oriented Programming	3(2-3-4
261205	CPE	205	Data Structures and Algorithms	3(3-0-6
261361	CPE	361	Software Engineering	3(3-0-6
269102 I	SNE	102	Basic Computer Programming for Information Systems and Network Engineering	3(1-6-2
269202	SNE	202	Algorthms for Information Systems and Network Engineering	3(3-0-6
269210 I	SNE	210	Computer Architecture for Information Systems and Network Engineering	3(3-0-6
269462 I	SNE	462	Introduction to Human-Computer Interaction	3(3-0-6
Basic Structure of	_			
	CPE	335	Computer Networks	3(3-0-6
261336	CPE	336	Computer Networks Laboratory	1(0-3-0
261342	CPE	342	Fundamentals of Database Systems	3(3-0-6
261343	CPE	343	Database System Laboratory	1(0-3-0
261433	CPE	433	Network Programming	3(3-0-6
261434	CPE	434	Computer Network Design and Management	3(3-0-6
261447	CPE	447	Network and Information Security	3(3-0-6
269130 I	SNE	130	Fundamentals of Data and Computer Communications for Information Systems and Network Engineering	3(3-0-6
Hardware and Cor	nputer Arc	hitectu		
261305	CPE	305	Operating Systems	3(3-0-6
Field Experience 1 269401	raining SNE	401	Information System and Network Engineering Training	3(0-18 0)
2.2.1.2 Cooperative	e Educatio	n Plan		77
Organizations and	l Informatio	on Syst	tems	
261446	CPE	446	Information Systems	3(3-0-6
269105 I	SNE	105	Information Systems and Network Engineering Laboratory 1	1(0-3-0
269201 I	SNE	201	Information Systems and Network Engineering Laboratory 2	1(0-3-0
269370 I	SNE	370	Project Management for Information Systems and Network Engineering	3(3-0-6
269470 I	SNE	470	Information Technology Service Management	3(3-0-6
Technology for Ap 269200	plication SNE	200	Web Programming Language	3(2-3-4
	SNE	340	Data Centric Application Development	3(3-0-6
	SNE	360	Platform Programming	3(3-0-6
	SNE	430	Wireless And Broadband Computer Networks	3(3-0-6
	SNE	491	Project Survey	1(0-3-0
	SNE	492	Project	3(0-9-0
Technology and S	oftware Me	ethods		<u> </u>
	CPE	200	Object-Oriented Programming	3(2-3-4
	CPE	205	Data Structures and Algorithms	3(3-0-6
	CPE	361	Software Engineering	3(3-0-6
269102 I	SNE	102	Basic Computer Programming for Information Systems and Network Engineering	3(1-6-2

269202 269210	ISNE			
269210	IOINL	202	Algorthms for Information Systems and Network Engineering	3(3-0-6)
	ISNE	210	Computer Architecture for Information Systems and Network Engineering	3(3-0-6)
269462	ISNE	462	Introduction to Human-Computer Interaction	3(3-0-6)
Basic Structure	of the Syst	tems		
261335	CPE	335	Computer Networks	3(3-0-6)
261336	CPE	336	Computer Networks Laboratory	1(0-3-0)
261342	CPE	342	Fundamentals of Database Systems	3(3-0-6)
261343	CPE	343	Database System Laboratory	1(0-3-0)
261433	CPE	433	Network Programming	3(3-0-6)
261434	CPE	434	Computer Network Design and Management	3(3-0-6)
261447	CPE	447	Network and Information Security	3(3-0-6)
269130	ISNE	130	Fundamentals of Data and Computer Communications for Information Systems and Network Engineering	3(3-0-6)
Hardware and C	•			0/0 0 0
261305	CPE	305	Operating Systems	3(3-0-6)
Field Experienc 269495	e Training ISNE	495	Cooperative Education	6
2.2.2 Major Elec	tives			
2.2.2.1 Normal P	lan : a minir	num of		9
2.2.2.2 Coopera	tive Educati	ion Plan	: a minimum of	6
Select From t	he Followin	gs		
261408	CPE	408	Quantum Computation	3(3-0-6)
261409	CPE	409	Functional Programming	3(3-0-6)
	CPE CPE	409 411	Functional Programming Parallel Processing and Distributed Systems	3(3-0-6) 3(3-0-6)
261409				
261409 261411	CPE	411	Parallel Processing and Distributed Systems	3(3-0-6)
261409 261411 261430	CPE CPE	411 430	Parallel Processing and Distributed Systems Wireless Networks	3(3-0-6)
261409 261411 261430 261435	CPE CPE	411 430 435	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks	3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438	CPE CPE CPE	411 430 435 438	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441	CPE CPE CPE CPE	411 430 435 438 441	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444	CPE CPE CPE CPE CPE CPE	411 430 435 438 441 444	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448	CPE CPE CPE CPE CPE CPE	411 430 435 438 441 444 448	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449	CPE CPE CPE CPE CPE CPE CPE CPE	411 430 435 438 441 444 448 449	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453	CPE CPE CPE CPE CPE CPE CPE CPE CPE	411 430 435 438 441 444 448 449	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456	CPE	411 430 435 438 441 444 448 449 453 456	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459	CPE	411 430 435 438 441 444 448 449 453 456 459	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461	CPE	411 430 435 438 441 444 448 449 453 456 459 461	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261468	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261468 261472	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468 472	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering Robotics	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261468 261472 261473	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468 472 473	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering Robotics Computer - Aided Manufacturing	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261468 261472 261473 261475	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468 472 473 475	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering Robotics Computer - Aided Manufacturing Modeling and Optimization for Big Data Analytics	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261472 261473 261475 261476	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468 472 473 475 476	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering Robotics Computer - Aided Manufacturing Modeling and Optimization for Big Data Analytics Biomedical Instruments Data Warehousing and Business Intelligence for Information Systems and Network	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)
261409 261411 261430 261435 261438 261441 261444 261448 261449 261453 261456 261459 261461 261465 261472 261473 261475 261476 269341	CPE	411 430 435 438 441 444 448 449 453 456 459 461 465 468 472 473 475 476 341	Parallel Processing and Distributed Systems Wireless Networks Broadband Communication Networks Fundamentals of Multiprotocol Label Switching Internet of Things and Big Data Advanced Database Systems Data Mining for Computer Engineering Software Testing for Computer Engineering Digital Image Processing Introduction to Computational Intelligence for Computer Engineering Deep Learning Visual and Interactive Programming Computer Graphics System Analysis and Design for Computer Engineering Robotics Computer - Aided Manufacturing Modeling and Optimization for Big Data Analytics Biomedical Instruments Data Warehousing and Business Intelligence for Information Systems and Network Engineering	3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6) 3(3-0-6)

				4-
269499	ISNE	499	Selected Topics in Network Engineering 2	3(3-0-6
269498	ISNE	498	Selected Topics in Network Engineering 1	3(3-0-6
269497	ISNE	497	Selected Topics in Information Systems 2	3(3-0-6
269496	ISNE	496	Selected Topics in Information Systems 1	3(3-0-6
269494	ISNE	494	Selected Topics in Information Systems and Network Engineering	3(3-0-
269493	ISNE	493	Seminar	3(3-0-
269472	ISNE	472	Risk Management in Software Project	3(3-0-
269471	ISNE	471	Advanced Project Management for Information System and Network Engineering	3(3-0-
269461	ISNE	461	Personal Software Process Improvement	3(3-0-
269452	ISNE	452	Mobile Application Development	3(3-0-
269451	ISNE	451	Introduction to Neuro-Fuzzy Systems	3(3-0-
269441	ISNE	441	Information Retrieval and Extraction	3(3-0-
269433	ISNE	433	Computer Network Routing Protocols	3(3-0-
269432	ISNE	432	Peer-to-Peer Systems	3(3-0-

2.3 Minor (if any): a minimum of

15

According to the Chiang Mai University regulation on the Minor curriculum for the Chiang Mai University student, if students choose to have a minor degree in a curriculum at the Chiang Mai university, they can register those courses not less than 15 credits with the academic advisor's approval. Hence, the total credits for the whole curriculum is increased at least 15 credits.

3. Free Electives: a minimum of

6

Any courses can be selected with the approval from the student's academic advisor

Total: a minimum of 143

Study plan

First Year

00110	D1	ENGL	101	<u>First Semester</u> Fundamental English 1	Credits 3(3-0-6)
2061	61	MATH	161	Calculus for Engineering 1	3(3-0-6)
25910	04	ENGR	104	Engineering Drawing	3(2-3-4)
25919	91	ENGR	191	Principle of Being Professional	1(0-3-1)
2612	16	CPE	216	Discrete Mathematics for Computer Engineers	3(3-0-6)
2691	01	ISNE	101	Introduction to Information Systems and Network Engineering	3(3-0-6)
2691	02	ISNE	102	Basic Computer Programming for Information Systems and Network Engineering	3(1-6-2)
				Total	<u>19</u>
00110	02	ENGL	102	Second Semester Fundamental English 2	Credits 3(3-0-6)
14010	04	PG	104	Citizenship	3(3-0-6)
2061	62	MATH	162	Calculus for Engineering 2	3(3-0-6)
26120	05	CPE	205	Data Structures and Algorithms	3(3-0-6)
2691	03	ISNE	103	Programming for Information Systems and Network Engineering	3(3-0-6)
2691	05	ISNE	105	Information Systems and Network Engineering Laboratory 1	1(0-3-0)
2691	30	ISNE	130	Fundamentals of Data and Computer Communications for Information Systems and	3(3-0-6)

Second Year

001201	ENGL	201	<u>First Semester</u> Critical Reading and Effective Writing	Credits 3(3-0-6)
255201	IE	201	Quantitative Analysis in Industrial Engineering	3(3-0-6)
261200	CPE	200	Object-Oriented Programming	3(2-3-4)
261335	CPE	335	Computer Networks	3(3-0-6)
261336	CPE	336	Computer Networks Laboratory	1(0-3-0)
269200	ISNE	200	Web Programming Language	3(2-3-4)
269201	ISNE	201	Information Systems and Network Engineering Laboratory 2	1(0-3-0)
269202	ISNE	202	Algorthms for Information Systems and Network Engineering	3(3-0-6)
			Total	. <u>20</u>
001225	ENGL	225	Second Semester English in Science and Technology Context	Credits 3(3-0-6)
252281	EE	281	Fundamentals of Electronic Circuits for Information Systems and Network Engineering	3(3-0-6)
261342	CPE	342	Fundamentals of Database Systems	3(3-0-6)
261342 261343	CPE CPE	342 343	Fundamentals of Database Systems Database System Laboratory	3(3-0-6)
			<u>-</u>	, ,
261343	CPE	343	Database System Laboratory	1(0-3-0)
261343 261433	CPE CPE	343 433	Database System Laboratory Network Programming	1(0-3-0)

Normal Plan

Third Year

261305	CPE	305	<u>First Semester</u> Operating Systems		Credits 3(3-0-6)
261434	CPE	434	Computer Network Design and Management		3(3-0-6)
261361	CPE	361	Software Engineering		3(3-0-6)
269340	ISNE	340	Data Centric Application Development		3(3-0-6)
269430	ISNE	430	Wireless And Broadband Computer Networks		3(3-0-6)
			Elective from General Education Courses (Learner Person)		3
				Total	<u>18</u>
261446	CPE	446	Second Semester Information Systems		Credits 3(3-0-6)
261447	CPE	447	Network and Information Security		3(3-0-6)
269360	ISNE	360	Platform Programming		3(3-0-6)
269370	ISNE	370	Project Management for Information Systems and Network Engineering		3(3-0-6)
269462	ISNE	462	Introduction to Human-Computer Interaction		3(3-0-6)
			Major Electives		3
			Elective from General Education Courses		1
				Total	<u>19</u>
269401	ISNE	401	Summer Session Information System and Network Engineering Training	:	Credits 3(0-18-0)

				Total	<u>3</u>
			Fourth Year		
269491	ISNE	491	First Semester Project Survey		Credits 1(0-3-0)
			Major Electives		3
			Elective from General Education Courses		6
			Free Electives		3
				Total	<u>13</u>
259192	ENGR	192	Second Semester Skills for Professionalism and Entrepreneurship		Credits 1(0-3-1)
269470	ISNE	470	Information Technology Service Management		3(3-0-6)
269492	ISNE	492	Project		3(0-9-0)
			Major Electives		3
			Free Electives		3
				Total	<u>13</u>
			Cooperative Education		
			Third Year		
261305	CPE	305	First Semester Operating Systems		Credits 3(3-0-6)
261434	CPE	434	Computer Network Design and Management		3(3-0-6)
261361	CPE	361	Software Engineering		3(3-0-6)
269340	ISNE	340	Data Centric Application Development		3(3-0-6)
269430	ISNE	430	Wireless And Broadband Computer Networks		3(3-0-6)
			Elective from General Education Courses (Learner Person)		3
			Free Electives		3
				Total	<u>21</u>
261446	CPE	446	Second Semester Information Systems		Credits 3(3-0-6)
261447	CPE	447	Network and Information Security		3(3-0-6)
269360	ISNE	360	Platform Programming		3(3-0-6)
269370	ISNE	370	Project Management for Information Systems and Network Engineering		3(3-0-6)
269462	ISNE	462	Introduction to Human-Computer Interaction		3(3-0-6)
269491	ISNE	491	Project Survey		
			Major Electives Elective from General Education Courses		3 1
			Elective from General Education Courses	Total	'
			Fourth Year		<u> </u>
269495	ISNE	495	<u>First Semester</u> Cooperative Education		Credits 6
				Total	<u>6</u>
259192	ENGR	192	<u>Second Semester</u> Skills for Professionalism and Entrepreneurship		Credits 1(0-3-1)
269470	ISNE	470	Information Technology Service Management		3(3-0-6)
269492	ISNE	492	Project		3(0-9-0)

Major Electives		3
Elective from General Education Courses		6
Free Electives		3
	Total	<u>19</u>