



CS Study Plan

Batches of 2017- 2018 and before Graduates up to Year 2021-2022

Year	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
1	ENGL 101	General English Language	--	3	ENGL 101	General English Language	--	4	
	COMP 131	Computer Skills	--	2	ENGL 102	English for Academic and Specific Purposes	--	3	
	LRSK 141	Learning and Searching Skills	--	2	LRSK 142	Communication Skills	--	2	
	MATH 111	Math I	--	3	MATH 112	Math II	MATH 111	3	
	PHEDU 162	Physical Education	--	1	STAT 132	Statistics	--	3	
					COMP 122	Computer Applications	--	3	
	Total				11	Total			
Year	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
2	CIS 211	Fundamentals of Information Systems	--	3	CS 221	Fundamentals of Programming	CS 211	3	
	CS 211	Introduction to Computing	--	3	CS 222	Electronics	PHYS 212	4	
	MATH 211	Calculus	--	3	STAT 207	Intro to Statistics and Probability theory	MATH 211	3	
	PHYS 212	Physics	--	4	ISLAM 272	Social System in Islam	--	2	
	ISLAM 271	Faith Morals	--	2	BIOL 222	Biology	--	4	
	Total				15	Total			
Year	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
3	CIS 313	Technical Reports	--	2	CS 310	Data Structure	CS 311	2	
	MATH 301	Discrete Mathematics	STAT 207	3	CIS 321	Database Concepts and Design	CIS 211	3	
	CS 311	Object Oriented Programming (1)	CS 221	3	CS 321	Object Oriented Programming (2)	CS 311	3	



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	CS 314	Digital Hardware	CS 222	3	CIS 326	IT Infrastructure Management	CIS 315	3
	CIS 315	Communication and Network Fundamentals	CIS 211	3	MGMT 320	Principles of Management	--	3
	ISLA M 273	Economic System in Islam	--	2	CIS 413	Professional Responsibility	--	2
	Total			16	Total			16
4	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	CS 322	Operating Systems	CS 314	3	CIS 422	Human Computer Interaction	CIS 211	3
	CS 411	Software Engineering	CS 321, CIS 321	3	CIS 423	Web-Based Systems	CIS 321, CS 321	3
	CS 412	Algorithm Analysis and Design	MATH 301	3	CS 422	Language Theory & Finite Automata	MATH 401	3
	CS 414	Computer Organization	CS 314	3	CIS 425	Computer Data Security and Privacy	CIS 326	3
	MATH 401	Logic and Proof Techniques	MATH 301	3	MATH 411	Numerical Analysis	MATH 301	3
	Total			15	Total			15
Summer	822654	Practical (Co-op) Training	120 Cr	3				
5	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	CS 511	Project Proposal	CS 411, CS 412	2	CS 521	Project Implementation	CS 511	3
	CS 512	Artificial Intelligence	MATH 401	3	CS 522	Selected Topics in CS	CS 511	3
	CS 513	Mobile Computing	--	3	ISLAM 274	Political System in Islam	ISLAM 273	2
		Elective Course - 1	--	3		Elective Course - 3		3
		Elective Course - 2	--	3				
Total			14	Total			11	

Preparatory Year credit units: 29

Degree Plan credit units: 121

Total credit units: 150



Elective Courses			
Course #	Course Title	Prerequisite	Cr
CS 514	Basic Language Translator-Compiler	CS 422	3
CS 515	Modeling and Simulation	MATH 301	3
CS 516	Advanced Programming Languages	CS 322, CS 422	3
CIS 517	Data Mining and Warehousing	--	3
CS 523	Multi Agents	CS 322	3
CS 525	Advanced Operating Systems	CS 412	3
CS 534	Introduction to Computer Vision	CS 221	3
CS 536	Introduction to Computer Graphics	CS 311	3
CS 526	Mobile Application Programming	CS 321	3