

Bachelor of Science in Computer Engineering Model Study Plan (2020-2021 Cohort onwards)

For Students Admitted to the University from the Fall Semester Total Degree Credit hours: 144

Company Comp		Semester	Course Code	Course Title	СН	Course type	Semester	Course Code	Course Title	СН	Course type
Company Comp				Introduction to Academic English for Information Technology I							
(Fall) Control Section (Control Section Sectio							_				
(Fall) Septing Company Control Manufacture Menderation Company Co	-	1	CS8P119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	2	CS8P219	Object Oriented Programming	3	College Requirement
Fell	ĕ	_	PHYS105	General Physics I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	· -	CENG205	Digital Design & Computer Organization	3	College Requirement
Page	9	(Fall)	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	(Spring)	CS8P221	Programming Lab II	1	Specialization
Comparison of the Comparison			CS8P121	Programming Lab 1	1	Specialization		HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
Comparison Com			Phys135	General Physics Lab I	1	Specialization					
Company Content American C					17					16	
(Fall)			MATH140	Linear Algebra I	3	Specialization		MATH275	Ordinary Differential Equations	3	Specialization
(Fall) Contact An Internation		_	CENG201	Circuits fundamentals	3	Specialization	1	CENG221	Computer Architecture	3	Specialization
(Fall)	2	3	CENG231	Circuits Lib	1	Specialization	4	PHYS231	Electronics Fundamentals	3	Specialization
(Fall) (Septing Variety (Septing Variety Varie	a.	-	PHYS110	General Physics II	3	Specialization	(c ·)	CENG210	Communication & Networks Fundamentals	3	Specialization
(Fall) (Septing Variety (Septing Variety Varie	ě	(Eall)	PHYS140	General Physics Lab II			(Spring)	BIOC100/CHEM 111	Basic Biology I /General Chemistry I Choose ONE	3	College Requirement
Facility Section Street Section St	-	(raii)	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)	(-1- 0)	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
Section Computer Number Computer Number Number Computer Number Number Computer Number Number Computer Number N			CS8P319	Data Structures	3	College Requirement					
Section Computer Number Computer Number Number Computer Number Number Computer Number Number Computer Number N					17					18	
Fall Control			ELEC370	Electronic Circuits	3	Specialization		CENG320	Signals and Systems I	3	Specialization
(Fall) Survival in the final form of the final f		-	ELEC375	Electronic Circuits Lab	1	Specialization		CENG324	Digital System Design	3	Specialization
(Fall) Surging Antibodity and Statistics 1 Configure Requirement (Spring) Surging Statistics 1 Surging Statistics	m	5									
Fell	·		CENG329					CSBP315	Operating Systems Fundamentals	3	College Requirement
Total Control	2	(Fall)	STAT210	Probability and Statistics				CENG529	Networking Lab	1	Majojor Elective Lab
To control to the second process of the seco	1		ITBP301					Elective			
Fall			CENG530	Computer Network Protocols	3	Major Elective		Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
Fig.					27					17	
(Fall) Source deduction Project 1 of Configure Responsered 1 of Config		7 (Fall)	SWEB300	Software Engineering Fundamentals	3	Specialization	•	ITBP481	Senior Graduation Project II	3	College Requirement
(Fall) Eactive Student choice 3 Mayor Retriev (Spring) Eactive Student choice 3 Mayor Retriev (Spring) Eactive Student choice 3 Mayor Retriev Student choic	4		ITBP418	Entrepreneurship in Information Technology	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	8	ITBP370	Professional Responsibility in Information Technology	3	College Requirement
(1 dil) District D	ar		ITBP480				(Spring)	Elective			
9 risens hitemania	2		Elective							3	Free Elective
9 IBP45 Internalip 12			Elective	Student choice	3	Major Elective	(Spring)	Elective	Student choice	3	Free Elective
TIP-95 Internitip 12				15	15					15	
Time 45 Internals in terminis 12											
	5		ITBP495			12					
(Fall)	ar			Internship	12						
(ran)	ě										
		(Fall)									
					12						

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For Students Admitted to the University from the Spring Semester Total Degree Credit hours: 144

_	Semester	Course Code	Course Title	Course type	Semester	Course Code	Course Title	СН	Course type
	Semester	ESPU1081		3 Gen Ed Course (Cluster 1: Area 2: Enellish Communication)	Semester	CENG202	Discrete Mathematics		College Requirement
Year 1		MATH105		3 Gen Ed Course (Cluster 1: Area 2: English Communication) 3 Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH110			College Requirement
	1	CSBP119		3 Gen Ed Course (Cluster 1: Area 5: Optamortative Reasoning)	2	CS8P219	Object Oriented Programming		College Requirement
	1	PHYS105		3 Gen Ed Course (Cluster 1: Area 4: Critical Ininong) 3 Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		CENG205			College Requirement
	/a · \	GEIT112		3 Gen Ed Course (Cluster 1: Area 1: Natural sciences) 3 Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	(= 11)	CSBP221	Programming Lab II		Specialization
	(Spring)	CSBP121			(Fall)	HSS105			Specialization Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	(CS8P121 Phys135		1 Specialization 1 Specialization	,,	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
		MAN 132		1 specialization				16	
		MATH140		3 Specialization		Mith275	Ordinary Differential Equations		Specialization
	2	CENG201		3 Specialization	4	CENG221	Computer Architecture		Specialization
~	3	CENG231		1 Specialization	4	PHYS231	Electronics Fundamentals		Specialization
e		PHYS110		3 Specialization		CENG210	Communication & Networks Fundamentals		Specialization
×	(Spring)	PHYS140		1 Specialization	(Fall)				College Requirement
	(26, 11,8)	GESU121		3 Gen Ed Course (Cluster 3: Area 2: Sustainability)	(i dii)	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
		CS8P319		3 College Requirement					
								18	
		CENG320		3 Specialization		ELEC370			Specialization
	_	CENG324		3 Specialization	6 (Fall)	ELEC375	Electronic Circuits Lab		Specialization
Year 3	Spring)	CENG325		1 Specialization		CENG328	Introduction to Embedded Systems		Specialization
		CS8P315	Operating Systems Fundamentals	3 College Requirement		CENG329	Introduction to Embedded Systems Lab	1	Specialization
		CENG529		1 Majojor Elective Lab		STAT210	Probability and Statistics	3	College Requirement
		CENG530	Computer Network Protocols	3 Major Elective		ITBP301	Security Principles & Practice	3	Specialization
		Elective	Student choice	3 Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)		Elective	Student choice	3	Major Elective
				17				17	
rear 5 Year 4		SWEB300		3 Specialization	8 (Fall)	ITBP481	Senior Graduation Project II		College Requirement
	/	ITBP418	Entrepreneurship in Information Technology	3 Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		ITBP370	Professional Responsibility in Information Technology	3	College Requirement
		ITBP480	Senior Graduation Project I	3 College Requirement		Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	(Spring)	Elective		3 Major Elective		Elective	Student choice	3	Free Elective
		Elective	Student choice	3 Major Elective		Elective	Student choice	3	Free Elective
				15				15	
	9								
		ITBP495	Internship	12					
×	(Spring)				4				
	(Spring/								
								0	