

List of specialized courses for the Department of Communications and Computer Engineering

(I) Specialized required courses

Course Name	Number of credits	Number of hours per week							
		First year		Second year		Third year		Fourth year	
		Fall semester	Spring Semester	Fall Semester	Spring semester	Fall Semester	Spring semester	Fall semester	Spring semester
Research Project B	4						2		
Research Project C	4							2	
Specialized required course total	8	0	0	0	0	0	2	2	0

(II) Specialized elective required courses

Course Name	Number of credits	Number of hours per week							
		First year		Second year		Third year		Fourth year	
		Fall semester	Spring semester	Fall Semester	Spring semester	Fall Semester	Spring semester	Fall semester	Spring semester
Circuit Theory A	2			2					
Logic Circuits	2			2					
Fundamentals of Programming	2			2					
Algorithms and Data Structures	2				2				
Computer Systems	2				2				
Signal Processing	2					2			
Communications and Computer Engineering Laboratory	2					4			
Information Network Systems	2					2			
Research Project A	2					2			
Teletraffic Theory	2					2			
Transmission Theory	2						2		
Research Project D	2								2
Specialized elective required course total	24	0	0	6	4	12	2	0	2

(III) Specialized elective courses

Course Name	Number of credits	Number of hours per week							
		First year		Second year		Third year		Fourth year	
		Fall semester	Spring semester	Fall Semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester
Electrodynamics	2				2				
Electronic Circuits	2					2			
Communication Systems	2					2			
Software Engineering	2					2			
Info-telecommunication and the Standardization	2					2			
Introduction to Computer Graphics and Image Processing	2					2			
Information Telecommunication Systems	2					2 (first half)			
Information Theory	2						4		
Information Security Basics	2						2		
Wireless Communication	2						2		
Multimedia Systems	2						2		
Mobile Communications	2						2		
Operating Systems	2						2		
Network Engineering	2							2	
Perceptual Computing	2							2	
Wireless Communications Network	2							2	
Digital Imaging	2							2	
Information Retrieval	2							2	
Digital System Design	2							2 (sec-ond half)	
Advanced Intelligent Software	2							2	
Analysis of Networked Systems	2							2	
Image Processing	2								2
Advanced Image Information	2								2
Advanced Information Networks	2								2
Reliable Software	2								2
Information Integration of Symbols and Patterns	2								2
Distributed Embedded and Real-Time Processing	2								2
Advanced Computer Architecture	2								2
Advanced Processor Architecture	2								2
Wireless Signal Processing	2								2
Software Quality Assurance	2								2
Computer Vision and Pattern Analysis	2								2
Foundation for Information Access Evaluation	2								2
Specialized elective course total	66	0	0	0	2	12	14	16	24