

2012 Undergraduate Curriculum for Communication Engineering (I)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0004312	Modern Chinese History	Exam	2	32	32				2														School of Marxism		
0000011	Physical Education 1	General Assessment	1	32	32				1														Department of Physical Education		
0000007	College English (Band One)	Exam	4	64	64				4														College of Foreign Languages		
0001903	Calculus (Engineering)-1	Exam	5.5	99	64			35	5.5														College of Applied Sciences		
0001908	Linear Algebra (Engineering)	Exam	3	54	48			6	3														College of Applied Sciences		
0004311	Ethical Conduct and Fundamentals of Law	Exam	3	48	32		16				3												School of Marxism		
0000012	Physical Education 2	General Assessment	1	32	32						1												Department of Physical Education		
0000008	College English (Band Two)	Exam	4	64	64						4												College of Foreign Languages		
0000072	University Physics I-1	Exam	4	64	64						4												College of Applied Sciences		
0001904	Calculus (Engineering)-1	Exam	5.5	99	64			35			5.5												College of Applied Sciences		
0002784	Fundamentals of National Defense	General Assessment	2	32	32							2											Students' Affairs Office		
0000013	Physical Education 3	General Assessment	1	32	32								1										Department of Physical Education		
0000009	College English (Band Three)	Exam	4	64	64								4										College of Foreign Languages		
0000025	Complex Variables and Integral Transforms	Exam	3	54	54								3										College of Applied Sciences		
0000073	University Physics I-2	Exam	4	64	64								4										College of Applied Sciences		
0006457	Fundamentals of Chinese Sociology	Exam	4	64	48		16						4										School of Marxism		
0003333	Probability and Statistics (Engineering)	Exam	3	54	50			4					3										College of Applied Sciences		
0000014	Physical Education 4	General Assessment	1	32	32									1									Department of Physical Education		
0000010	College English (Band Four)	Exam	4	64	64									4									College of Foreign Languages		
0004361	Introduction to Philosophy	Exam	3	48	48									3									School of Marxism		
University Requirements		Sub-total	62	1096	984			32	80	15.5		17.5	2	19		8									
0007073	Freshmen Seminar Course	General Assessment	1	16	16				1														College of Electronic Information and Control Engineering		

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									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0000066	Engineering Graphics V	Exam	3	48	48				3														College of Mechanical Engineering and Applied Electronics		
0000116	Fundamentals of Computer Software	Exam	3.5	56	36	20					3.5												College of Electronic Information and Control Engineering		
0000111	Circuit Analysis Fundamentals	Exam	5	80	64	16					5												College of Electronic Information and Control Engineering		
0000123	Digital Electronic Technology	Exam	4	64	64							4											College of Electronic Information and Control Engineering		
0004333	Analog Electronic Technology	Exam	3.5	56	56							3.5											College of Electronic Information and Control Engineering		
0001995	Computer Principles and Applications I	Exam	4	64	54	10							4										College of Electronic Information and Control Engineering		
0004186	Signals and Systems I	Exam	4	64	64								4										College of Electronic Information and Control Engineering		
0007264	Communication Electronic Circuits	Exam	3.5	56	56											3.5							College of Electronic Information and Control Engineering		
0004639	Introduction to Random Signal Analysis	General Assessment	2	32	32								2										College of Electronic Information and Control Engineering		
0001997	Digital Signal Processing II	Exam	3	48	48										3								College of Electronic Information and Control Engineering		
0001654	Principles of Communication Systems	Exam	3.5	56	56										3.5								College of Electronic Information and Control Engineering		
0007265	Fundamentals of Communication Networks	Exam	2.5	40	34	6									2.5								College of Electronic Information and Control Engineering		
0007263	Electromagnetism Field and Electromagnetism Wave	Exam	3	48	48										3								College of Electronic Information and Control Engineering		
Discipline Requirements		Sub-total	45.5	728	676	52			4		8.5		7.5		10		12		3.5						
0004181	Practical Training of Program Design	General Assessment	1	30			30		1														College of Electronic Information and Control Engineering		
0004746	Machine Shop Training A	General Assessment	1	30			30		1														College of Mechanical Engineering & Applied Electronics Technology		
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2	22					1												College of Applied Science		
0003087	Practices of National Defense	General Assessment	1	30			30				1												Students' Affairs Office		
0004594	The Electronic Technology Experiments-1	General Assessment	1	24		24					1												College of Electronic Information and Control Engineering		
0004965	Physics Experiments (Engineering)-2	General Assessment	1.5	36		36					1.5												College of Applied Science		
0004625	The Electronic Technology Experiments-2	General Assessment	2.5	60		60							2.5										College of Electronic Information and Control Engineering		
0007069	Social Practices	General Assessment	2	48			48							2									School of Marxism		
0007260	Cognitive Practice	General Assessment	1	30			30							1									College of Electronic Information and Control Engineering		
0007488	Electronic Engineering Training I -1	General Assessment	1.5	45			45								1.5								College of Electronic Information and Control Engineering		

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									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	
0007489	Electronic Engineering Training I -2	General Assessment	2.5	75			75									2.5							College of Electronic Information and Control Engineering		
0007262	Engineering Application Training of Communication Systems	General Assessment	2	60			60										2						College of Electronic Information and Control Engineering		
0004148	Communication Circuits and Systems Experiment	General Assessment	1.5	36		36											1.5						College of Electronic Information and Control Engineering		
0001208	Electronic Engineering Training I -3	General Assessment	2	60			60										2						College of Electronic Information and Control Engineering		
0007256	Professional Practice	General Assessment	4	120			120											4					College of Electronic Information and Control Engineering		
0003286	Curricula Project of Modern Communication	General Assessment	2	60			60												2				College of Electronic Information and Control Engineering		
0002023	Senior Project	General Assessment	16	480			480															16	College of Electronic Information and Control Engineering		
Practical Requirements		Sub-total	43.5	1248	2	178	1068		2		1	1	2.5		2.5	3	4		5.5	4	2		16		
Discipline Electives			5	80												2.5	2.5								
Major Requirements			10	160													5		5						
Major Electives			7	112					3								2		2						
GEESEM:EM			4	64												2	2								
General Education Electives			9	144									2		2					5					
Electives		Sub-total	35	560					3					2		6.5	11.5		12						
Total for Theoretical Instruction			142.5	2384					22.5		26	2	26.5		20		18.5		15		12				
Total for Practical Instruction			43.5	1248					2		1	1	2.5		2.5	3	4		5.5	4	2		16		
Innovation Requirements			4	96																	4				
Total			190	3728					24.5		27	3	29		22.5	3	22.5		20.5	4	18		16		

Notation: GEESEM:EM is the abbreviation for General Education Electives for Science and Engineering Majors: Economics and Management.

2012 Undergraduate Curriculum for Major in Communication Engineering (II)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recitation	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0002007	Integrated Circuit Analysis and Design IV	Exam	2	32	22	10								2										College of Electronic Information and Control Engineering	
0003213	Principles of Automatic Control II	Exam	2	32	30	2									2									College of Electronic Information and Control Engineering	
0007268	Wireless Communications	Exam	2.5	40	40												2.5							College of Electronic Information and Control Engineering	
0003281	The Essential Guide to Signal Processing	General Assessment	2	32	32															2				College of Electronic Information and Control Engineering	
Discipline Electives		Sub-total	8.5	136	124	12								2		2		2.5		2					
0004951	Modern Switching Technology I	General Assessment	2	32	26	6											2							College of Electronic Information and Control Engineering	
0005701	Monochip and Embedded System I	General Assessment	2	32	26	6											2							College of Electronic Information and Control Engineering	
0000786	Elements of Information Theory	General Assessment	2.5	40	40												2.5							College of Electronic Information and Control Engineering	
0004953	Fiber-Optic Communication Theory (Chinese/English)	Exam	2	32	26	6											2							College of Electronic Information and Control Engineering	
0004955	Mobile Communications	General Assessment	2.5	40	34	6											2.5							College of Electronic Information and Control Engineering	
0001979	Multimedia Data Communication Technique	General Assessment	2.5	40	38	2														2.5				College of Electronic Information and Control Engineering	
0004954	Microwave Technology	General Assessment	2.5	40	34	6														2.5				College of Electronic Information and Control Engineering	
0001981	Satellite Communications	General Assessment	2	32	32															2				College of Electronic Information and Control Engineering	
0007270	Technology of Electromagnetic Compatibility	General Assessment	2	32	32															2				College of Electronic Information and Control Engineering	
0004630	Introduction to the New Technologies of Modern Communications I	General Assessment	2	32	32															2				College of Electronic Information and Control Engineering	
Major Requirements		Sub-total	22	352	320	32												11		11					
0004819	Fundamentals of C Language Program Design I	Exam	3	48	28	20			3															College of Electronic Information and Control Engineering	
0001078	Database Technique and Application II	General Assessment	2	32	20	12										2								College of Electronic Information and Control Engineering	
0005213	Single Chip Microcomputer Application Technologies	General Assessment	2	32	26	6										2								College of Electronic Information and Control Engineering	
0004944	Signal Processing Using Matlab (Self-learning)	General Assessment	2	32	32											2								College of Electronic Information and Control Engineering	
0007279	FPGA Principle, Design and Application	General Assessment	2	32	24	8										2								College of Electronic Information and Control Engineering	
0001076	Computer Network Application I	General Assessment	2	32	22	10												2						College of Electronic Information and Control Engineering	

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									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0000522	Digital Image Processing II	Exam	2.5	40	34	6											2.5						College of Electronic Information and Control Engineering		
0004939	Digital Image Processing (Chinese/English)	Exam	2.5	40	34	6											2.5						College of Electronic Information and Control Engineering		
0004629	Digital Speech Processing and Coding	General Assessment	2	32	32												2						College of Electronic Information and Control Engineering		
0007274	Signals, Systems and Transformations	General Assessment	2	32	32														2				College of Electronic Information and Control Engineering		
0004941	DSP Technology and Application I (Chinese/English)	General Assessment	2.5	40	32	8													2.5				College of Electronic Information and Control Engineering		
0004942	Object Oriented Programming with C++	General Assessment	2	32	16	16													2				College of Electronic Information and Control Engineering		
Major Electives		Sub-total	26.5	424	332	92											8		9			6.5			

Vice-Director:

Vice-President:

Date:

Date: