

2012 Undergraduate Curriculum for Electronic Science and Technology (I)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters														Responsible Unit	
				Total Hrs	Lec	Lab	Practice	Recita- tion	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)-2	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
0003333	Probability and Statistics (Engineering)	Exam	3	54	50			4					3											College of Applied Sciences
0006457	Fundamentals of Chinese Sociology	Exam	4	64	48		16						4											School of Marxism
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									
0000066	Engineering Graphics V	Exam	3	48	48				3															College of Mechanical Engineering and Applied Electronics

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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
0007073	Freshmen Seminar Course	Genaral Assessment	1	16	16				1															College of Electronic Information and Control Engineering
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
0000525	Statistical Physics	Exam	2	32	26			6							2									College of Electronic Information and Control Engineering
0002004	Quantum Mechanics III	Exam	2	32	27			5							2									College of Electronic Information and Control Engineering
0001995	Computer Principles and And Applications I	Exam	4	64	54	10									4									College of Electronic Information and Control Engineering
0000516	Theory of Electromagnetic Field	Exam	2	32	27			5								2								College of Electronic Information and Control Engineering
0000519	Solid State Physics	Exam	2	32	28			4								2								College of Electronic Information and Control Engineering
0004056	Semiconductor Physics II	Exam	3.5	56	43			13								3.5								College of Electronic Information and Control Engineering
0002006	Integrated Circuit Analysis and Design III	Exam	4	64	51	8		5									4							College of Electronic Information and Control Engineering
0004057	Principles of Semiconductor Devices IV	Exam	3.5	56	52			4									3.5							College of Electronic Information and Control Engineering
Discipline Requirements		Sub-total	43	688	592	54		42	4		8.5		7.5		8		7.5		7.5					
0004181	Practice 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 Sciences
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 Laboratory (Engineering)-2	General Assessment	1.5	36		36						1.5												College of Applied Sciences
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
0004349	Practice for Semiconductor Process II	General Assessment	1.5	45			45									1.5								College of Electronic Information and Control Engineering

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				Total Hrs	Lec	Lab	Practice	Recita- tion	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
0007254	Semiconductor Physics Laboratory	General Assessment	1	24		24										1							College of Electronic Information and Control Engineering	
0007489	Electronic Engineering Training I -2	General Assessment	2.5	75			75									2.5							College of Electronic Information and Control Engineering	
0007255	Semi-custom ASIC Design	General Assessment	1.5	45			45									1.5							College of Electronic Information and Control Engineering	
0007253	Semiconductor Device Laboratory	General Assessment	0.5	12		12												0.5					College of Electronic Information and Control Engineering	
0007261	Digital Integrated Circuit Design	General Assessment	1.5	45			45											1.5					College of Electronic Information and Control Engineering	
0007257	Power Transistor Design	General Assessment	1	30			30											1					College of Electronic Information and Control Engineering	
0007258	Integrated Circuit Layout Design	General Assessment	1.5	45			45											1.5					College of Electronic Information and Control Engineering	
0007256	Professional Practice	General Assessment	4	120			120												4				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	1233	2	178	1053		2		1	1	2.5		2.5	3	6.5		4.5	4			16	
Discipline Electives			6	96													6		0.5					
Major Requirements			12.5	200											2						10			
Major Electives			6.5	104					3									3.5						
GEESEM:EM			4	64													2				2			
General Education Electives			9	144													2		4		3			
Electives		Sub-total	38	608					3						2		10		8		15			
Total for Theoretical Instruction			143.0	2392					22.5		26	2	26.5		18		17.5		15.5		15			
Total for Practical Instruction			43	1233					2		1	1	2.5		2.5	3	6.5		4.5	4	0		16	
Innovation Requirements			4																		4			
Total			190.0	3625					24.5		27	3	29		20.5	3	24		20	4	19		16	

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

2012 Undergraduate Curriculum for Electronic Science and Technology (II)

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters														Responsible Unit	Note		
				Total Hrs	Lec	Lab	Prac- tice	Recita- tion	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	
0004924	Signals and Systems III	General Assessment	2	32	32										2									College of Electronic Information and Control Engineering		
0003213	The Principle of Automatic Control II	General Assessment	2	32	30	2											2							College of Electronic Information and Control Engineering		
0004644	Technology of Microelectronic Process	General Assessment	2	32	32												2							College of Electronic Information and Control Engineering		
0007269	Professional English	General Assessment	1	16	16													1						College of Electronic Information and Control Engineering		
Discipline Electives		Sub-total	7	112	110	2									2		4		1							
0007275	Semiconductor Theory	General Assessment	2	32	26				6												2			College of Electronic Information and Control Engineering	Recommended to postgraduated study	
0002010	Special Devices and Sensitive Devices	General Assessment	2	32	32																2			College of Electronic Information and Control Engineering	Photoelectron Modular	
0002012	Heterojunction and Optoelectronic Devices	Exam	2.5	40	40																2.5			College of Electronic Information and Control Engineering		
0007278	Fundamentals of Optoelectronics Technology (Chinese/English)	General Assessment	2	32	32													2						College of Electronic Information and Control Engineering		
0000767	Computer Aided Design (CAD) for Very Large Scale Integrated Circuit (VLSI)	General Assessment	2.5	40	36				4												2.5			College of Electronic Information and Control Engineering	IC Modular	
0002067	Electronic Design Automation (EDA) of Integrated Circuits	General Assessment	2	32	32																2			College of Electronic Information and Control Engineering		
0004959	ASIC Design and Application (Self-learning)	Exam	2.5	40	34	6															2.5			College of Electronic Information and Control Engineering		
0007280	Analysis and Design of RF Integrated Circuits	General Assessment	2	32	27				5										2					College of Electronic Information and Control Engineering		
0004960	System on Chip (SOC) (Chinese/English)	General Assessment	2	32	32																2			College of Electronic Information and Control Engineering		
0007277	Electronic Materials and Devices (Chinese/English)	General Assessment	2	32	30				2								2							College of Electronic Information and Control Engineering	Microelectronic s Modular	
0005701	Monochip and Embedded System I	General Assessment	2	32	22	10											2							College of Electronic Information and Control Engineering		
0007276	Simulation and Design of Semiconductor Devices	General Assessment	2	32	20	12													2					College of Electronic Information and Control Engineering		
0002009	Power Semiconductor Devices and Applications	General Assessment	2	32	32																2			College of Electronic Information and Control Engineering		
Major Requirements		Sub-total	27.5	440	395	28			17								4		6		17.5					
0004819	Fundamentals of C Language Program Design I	General Assessment	3	48	28	20				3														College of Electronic Information and Control Engineering		
0000765	Multimedia Technology	General Assessment	2	32	30				2										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
0005213	Single Chip Microcomputer Application Technologies	Genaral Assessment	2	32	24	6		2									2							College of Electronic Information and Control Engineering	
0004961	Reliability Technology of Semiconductor Devices(Self-learning)	Genaral Assessment	2	32	32													2						College of Electronic Information and Control Engineering	
0001076	Computer Network Application I	Genaral Assessment	2	32	30			2										2						College of Electronic Information and Control Engineering	
Major Electives		Sub-total	11	176	144	26	0	6	3								2		6						

Vice-Director:

Vice-President:

Date:

Date: