2012 Undergraduate Curriculum for Automation（Ⅰ）

Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita-tion	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	Responsible Unit
0004312	Modern Chinese History	Exam	2	32	32				2															School of Marxism
0000011	Physical Education -1	Genaral Assessment	1	32	32				1															Department of Physical Education
0000007	College English (Band 1)	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	Genaral Assessment	1	32	32						1													Department of Physical Education
0000008	College English (Band 2)	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	Genaral Assessment	2	32	32							2												Students' Affairs Office
0006457	Fundamentals of Chinese Sociology	Exam	4	64	48		16						4										School of Marxism
0000013	Physical Education -3	Genaral Assessment	1	32	32								1										Department of Physical Education
0000009	College English (Band 3)	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
0004361	Introduction to Philosophy	Exam	3	48	48										3								School of Marxism
0000014	Physical Education -4	Genaral Assessment	1	32	32										1								Department of Physical Education
0000010	College English (Band 4)	Exam	4	64	64										4								College of Foreign Languages
	University Requirements	**Sub-total**	**62**	**1096**	**984**		**32**	**80**	**15.5**		**17.5**	**2**	**19**		**8**									
0007073	Freshmen Seminar Course — Automation Theory and Technology	Genaral Assessment	1	16	16				1															College of Electronic Information and Control Engineering

Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recitation	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	Responsible Unit
0000066	Engineering Graphics V	Exam	3	48	48				3															College of Mechanical Engineering & Applied Electronics Technology
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
0000131	Automatic Control Theory	Exam	4.5	72	64	8									4.5									College of Electronic Information and Control Engineering
0000108	Electric Machine Principle and Electric Drive	Exam	3.5	56	56												3.5							College of Electronic Information and Control Engineering
0000109	Power Electronics	Exam	2.5	40	32	8											2.5							College of Electronic Information and Control Engineering
0004930	Automatic Measurement and Instruments	Exam	3	48	48												3							College of Electronic Information and Control Engineering
0001996	Single-chip Microcomputer Principles and Interface Technique	Exam	3	48	40	8											3							College of Electronic Information and Control Engineering
0000129	Elementary of Linear System Theory	Exam	2.5	40	34	6													2.5					College of Electronic Information and Control Engineering
Discipline Requirements		Sub-total	43	688	612	76			4		8.5		7.5		8.5		12		2.5					
0004181	Practical Training of Program Design	Genaral Assessment	1	30			30		1															College of Electronic Information and Control Engineering
0004746	Machine Shop Training A	Genaral Assessment	1	30			30		1															College of Mechanical Engineering & Applied Electronics Technology
0004964	Physics Laboratory (Engineering)-1	Genaral Assessment	1	24	2	22							1											College of Applied Sciences
0003087	Practices of National Defense	Genaral Assessment	1	30			30							1										Student Affairs Office
0004594	The Electronic Technology Experiments-1	Genaral Assessment	1	24		24							1											College of Electronic Information and Control Engineering
0004965	Physics Laboratory (Engineering)-2	Genaral Assessment	1.5	36		36									1.5									College of Applied Sciences
0007069	Social Practices	Genaral Assessment	2	48			48									2								School of Marxism
0004625	The Electronic Technology Experiments-2	Genaral Assessment	2.5	60		60									2.5									College of Electronic Information and Control Engineering
0007260	Cognitive Practice	Genaral Assessment	1	30			30									1								College of Electronic Information and Control Engineering
0001205	Electrical Engineering Experiment	Genaral Assessment	1	24		24											1							College of Electronic Information and Control Engineering
0007488	Electronic Engineering Training I -1	Genaral Assessment	1.5	45			45										1.5							College of Electronic Information and Control Engineering

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters															Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita-tion	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	
0007259	Control System Design and Implementation	Genaral Assessment	1.5	36		36											1.5							College of Electronic Information and Control Engineering
0005808	Detection Technology Experiment	Genaral Assessment	1	24		24											1							College of Electronic Information and Control Engineering
0007489	Electronic Engineering Training I -2	Genaral Assessment	2.5	75			75												2.5					College of Electronic Information and Control Engineering
0004341	Specialty Practice Training	Genaral Assessment	2.5	75			75														2.5			College of Electronic Information and Control Engineering
0007256	Professional Practice	Genaral Assessment	4	120			120														4			College of Electronic Information and Control Engineering
0002023	Senior Project	Genaral Assessment	16	480																			16	College of Electronic Information and Control Engineering
Practical Requirements		**Sub-total**	**42**	**1191**	**2**	**226**	**483**		**2**		**1**	**1**	**2.5**		**2.5**	**3**	**5**		**2.5**	**6.5**			**16**	
Discipline Electives			2	32	32										2									
Major Requirements			12	192	192														8		4			
Major Electives			11	176	176				3								2				6			
GEESEM:EM			2	32	32														2					
General Education Electives			13	208	208										4	4			2		3			
Electives		**Sub-total**	**40**	**640**	**640**				**3**						**6**		**6**		**12**		**13**			
Total for Theoretical Instruction			145	2424	2236	76	32	80	22.5		26	2	26.5		22.5		18		14.5		13			
Total for Practical Instruction			42	1191	2	226	483		2		1	1	2.5		2.5	3	5		2.5	6.5			16	
Innovation Requirements			4	96			96														4			
Total			**191**	**3711**	**2238**	**302**	**611**	**80**	**24.5**		**27**	**3**	**29**		**25**	**3**	**23**		**17**	**6.5**	**17**		**16**	

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

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Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita-tion	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	
0004924	Signals and Systems III	Genaral Assessment	2	32	32										2									College of Electronic Information and Control Engineering
0006361	Basis and Application of Programmable Logic Device	Genaral Assessment	2	32	32												2							College of Electronic Information and Control Engineering
0002007	Integrated Circuit Analysis and Design IV	Exam	2	32	22	10									2									College of Electronic Information and Control Engineering
Discipline Electives		**Sub-total**	**6**	**96**	**86**	**10**									**4**		**2**							
0000557	Modern Electrical Control Technology	Exam	2.5	40	34	6													2.5					College of Electronic Information and Control Engineering
0004931	Motion Control System (Chinese/English)	Exam	3	48	40	8													3					College of Electronic Information and Control Engineering
0000559	Motion Control System	Exam	3	48	40	8													3					College of Electronic Information and Control Engineering
0001998	Process Control System I	Exam	3	48	40	8													3					College of Electronic Information and Control Engineering
0001997	Digital Signal Processing II	Exam	3	48	42	6													3					College of Electronic Information and Control Engineering
0004632	Control System Simulation I	Genaral Assessment	2	32	24	8													2					College of Electronic Information and Control Engineering
0003283	Embedded System	Genaral Assessment	2.5	40	32	8													2.5					College of Electronic Information and Control Engineering
0000554	Computer Control System	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
0000813	Principles of Intelligent Instrument and Its Applications	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
0000815	Intelligent Control Technology	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
Major Requirements		**Sub-total**	**25**	**400**	**348**	**52**													**19**		**6**			
0004819	Fundamentals of C Language Program Design I	Genaral Assessment	3	48	28	20			3															College of Electronic Information and Control Engineering
0004934	Computer Networks and Application(Chinese/English)	Genaral Assessment	2	32	32												2							College of Electronic Information and Control Engineering
0000937	Computer Network Application	Genaral Assessment	2	32	32												2							College of Electronic Information and Control Engineering
0000560	Fundamentals of Optimization Theory	Genaral Assessment	2	32	28	4													2					College of Electronic Information and Control Engineering
0002542	Intelligent Transportation Systems	Genaral Assessment	2	32	32														2					College of Electronic Information and Control Engineering
0004936	Fundamental of Visual Programming Language(Self-learning)	Genaral Assessment	2	32	20	12													2					College of Electronic Information and Control Engineering
0004933	Introduction To Robot Technology	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering

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	
0004935	Theory and Application of Database (Self-learning)	Genaral Assessment	2	32	16	16															2			College of Electronic Information and Control Engineering
0004932	Control Theory	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
0007270	Echnology of Electromagnetic Compatibility	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
0007273	Application & Realization of Modern Motion Control Technology	Genaral Assessment	2	32	16	16															2			College of Electronic Information and Control Engineering
0007271	Fundamentals of Pattern Recognition	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
0007272	Introduction to System Engineering	Genaral Assessment	2	32	32																2			College of Electronic Information and Control Engineering
Major Electives		**Sub-total**	**27**	**432**	**364**	**68**			**3**								**4**		**6**		**14**			

Vice-Director:

Vice-President:

Date:

Date: