

电气工程及其自动化专业国际学生本科指导性培养计划

表一

课程类别	课程性质	课程编号	课程名称	总学分	总学时 (学周)	理论 授 课 学 时	实践教学				各 学 期 学 时（学周）								考核 方式
							实验 学时	上机 学时	实践 学时	实践 学周	一	二	三	四	五	六	七	八	
通识与公共基础课程	必修课	112306-8	汉语1-3	12.0	196	196					64	64	64						闭卷
		112309-10	中国概况1-2	4.0	64	64					32	32							闭卷
		113101-4	体育1-4	4.0	144	120			24		36	36	36	36					综合测评
		109133-4	高等数学B1-2	11.0	176	176					80	96							闭卷
		109115	线性代数	2.0	32	32						32							闭卷
		109102	概率与数理统计	3.0	48	48							48						闭卷
		109201	大学物理A	6.0	96	96						96							闭卷
		109208	大学物理实验	1.5	36		36						36						综合测评
		116327	计算机与C程序设计基础	2.0	32	24		8			32								闭卷
		116328	C程序设计	3.0	48	28		20				48							闭卷
		免修课程			14.0	军训、军事理论、思想道德修养与法律基础、中国近现代史纲要、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论、形势与政策。													
	小 计			62.5	872	784	36	28	24		244	404	184	36					
选修课	见公共选修课一览表			8.0	160	选修《跨文化交流与国际视野》《西方文化概论》《中国文化概论》和其他5门跨学科门类课程。													

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表二

课程类别	课程性质	课程编号	课程名称	总学分	总学时(学周)	理论授课学时	实践教学				各 学 期 学 时 (学周)								考核方式
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
学科基础课程	必修课	305274	电气工程及其自动化专业导论	1.0	16	16					16								综合测评
		205241	电路	6.0	96	80	16						96						闭卷
		209149	复变函数与积分变换	3.5	56	56							56						闭卷
		202207	工程制图基础 I	3.0	48	48					48								闭卷
		205252	电力工程	3.0	48	48								48					闭卷
		005203	电力工程课程设计	2.0	2					2				2周					综合测评
		033103	金工实习B	2.0	2					2		2周							综合测评
		005224	认识实习	1.0	1					1				1周					综合测评
		205120	模拟电子技术基础	4.5	72	64	8							72					闭卷
		205250	数字电子技术基础	3.5	56	48	8								56				闭卷
		005263	电子工艺实习	1.0	1					1				1周					综合测评
		005105	电子技术综合训练	3.0	3					3					3周				综合测评
		205213	自动控制原理A	5.0	80	66	8	6							80				闭卷
		205152	微机原理及应用D	3.0	48	48									48				闭卷
		205226	电力电子技术B	3.5	56	48	8								56				闭卷
		205148	电磁场理论A	4.0	64	64							64						闭卷
		205225	电机学	5.0	80	70	10							80					闭卷
		小 计		54.0	720+9周	656	58	6		9	64	2周	216	200+4周	240+3周				

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表二

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表二

课程类别	课程性质	课程编号	课程名称	总分	总学时(学周)	理论授课学时	实践教学				各 学 期 学 时 (学周)								考核方式
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
		小 计		47.5	416+22周	366	50			22					56	184+4周	176+3周	15周	
选修课	305275	电气工程新技术专题		1.0	16	16											16		综合测评
	305287	特种电机及其应用		1.5	24	24										24			闭卷
	305288	电力系统调度自动化		1.5	24	24											24		闭卷
	305289	嵌入式系统原理与开发技术		2.0	32	32											32		闭卷
	305290	电气制图与CAD		2.0	32	16		16							32				综合测评
	小 计		8.0	128	112											24	72		
	至少选4学分																		

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表三

课程类别	课程性质	课程编号	课程名称	总学分	总学时	理论授课学时	实践教学				各 学 期 学 时								考核方式					
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八						
创新创业教育	必修课	Y10010	创新创业基础	1.0	32	20			12				32						综合测评					
	选修课		创新课程	1.0								至少选修 3.0 学分。 学生可在第3-7学期选修科研创新训练 I - V 五个阶段的部分训练。								综合测评				
			开放实验	1.0																				综合测评
			科研创新训练 I	0.5																				综合测评
			科研创新训练 II	0.5																				综合测评
			科研创新训练 III	0.5																				综合测评
			科研创新训练 IV	0.5																				综合测评
			科研创新训练 V	0.5																				综合测评
			创新创业项目	2.0																	至少获得 2.0 学分，不占总学分			
第二课堂			2.0							至少获得 2.0 学分，不占总学分														

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Electrical Engineering and Automation*

Table 1

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method	
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8		
General and public courses	Computersory	112306-8	Chinese Language 1-3	12.0	196	196					64	64	64						Test	
		112309-10	A Survey of China 1-2	4.0	64	64					32	32							Test	
		113101-4	Physical Education 1-4	4.0	144	120			24		36	36	36	36					Comprehensive assessment	
		109133-4	Advanced Mathematics B1-2	11.0	176	176					80	96							Test	
		109115	Linear Algebra	2.0	32	32						32							Test	
		109102	Probability and mathematical statistics	3.0	48	48							48						Test	
		109201	College Physics A	6.0	96	96						96							Test	
		109208	Physical Experiment of College	1.5	36		36						36						Test	
		116327	Computer and C Programming Basics	2.0	32	24		8			32								Comprehensive assessment	
		116328	C Programming	3.0	48	28		20				48							Test	
		Exemption			14.0	Military Training, Military theory, Ideological and moral cultivation and legal basis, The outline of modern Chinese history, The fundamental tenets of Marxism, An introduction to Mao Zedong thought and the theoretical system of socialism with Chinese characteristics, Situation and Policy.														
	Sub-total			62.5	872	784	36	28	24		244	404	184	36						
	Optional	Select from the list of public optional courses			8.0	160	Select <Cross-cultural Communication and International Vision> <An Introduction to Western Culture> <An Introduction to Chinese Culture> and other 5 interdisciplinary courses													

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Electrical Engineering and Automation*

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8	
Discipline Basic Courses	Computers	305274	Introduction to Electrical Engineering	1.0	16	16					16								Comprehensive assessment
		205241	Electric Circuits	6.0	96	80	16						96						Test
		209149	Complex Function and Integral Transform	3.5	56	56							56						Test
		202207	Fundamentals of Engineering Drawing I	3.0	48	48					48								Test
		205252	Electrical Power Engineering	3.0	48	48								48					Test
		005203	Course Design of Electric Power Engineering	2.0	2					2				2 weeks					Comprehensive assessment
		033103	Metalworking Practice B	2.0	2					2	2 weeks								Comprehensive assessment
		005224	Cognition Practice	1.0	1					1				1周					Comprehensive assessment
		205120	Fundamentals of Analog Electronics Technology	4.5	72	64	8							72					Test
		205250	Foundamentals of Digital Electronics Technology	3.5	56	48	8								56				Test
		005263	Practice in Electronic Technology	1.0	1					1				1 week					Comprehensive assessment
		005105	Comprehensive Training of Electronic Technology	3.0	3					3					3 weeks				Comprehensive assessment
		205213	Principle of Automatic Control A	5.0	80	66	8	6							80				Test
		205152	Principle and Application of Microcomputer D	3.0	48	48									48				Test
		205226	Power Electronic Technology B	3.5	56	48	8								56				Test
		205148	Theory of Electromagnetic Fields A	4.0	64	64							64						Test

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Electrical Engineering and Automation*

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8	
		205225	Electrical Machinery	5.0	80	70	10							80					Test
		Sub-total			54.0	720+9 weeks	656	58	6		9	64	2 weeks	216	200+4 weeks	240+3 weeks			
Special-ized Course	Compu-lsory	305282	Power System Analysis	3.5	56	56									56				Test
		305283	Motion Control System	3.5	56	56										56			Test
		005250	Comprehensive Training of Motion Control System	2.0	2					2						2 weeks			Comprehensive assessment
		305265	Computer Controlling Technology A	3.5	56	46	10										56		Test
		005207	Comprehensive Training of Computer Controlling Technology	3.0	3					3							3 weeks		Comprehensive assessment
		305284	Electrical Control and PLC application	2.5	40	40										40			Test
		005249	Comprehensive Training of Electrical control and PLC application	2.0	2					2						2 weeks			Comprehensive assessment
		305285	Automation of Power Systems	2.0	32	32											32		Test
		005213	Comprehensive Experiment of Power System	1.0	24		24										24		Comprehensive assessment
		205230	Principles of Relay Protection	3.0	48	48										48			Test
		305286	Electrical Detection Technology	2.5	40	32	8									40			Test
		205232	High Voltage Technology	2.0	32	32											32		Test
		305248	Renewable Power Generation Technology	2.0	32	24	8										32		Test

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Electrical Engineering and Automation*

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method	
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8		
		005253	Graduation Practice	2.0	2					2								2 weeks	Comprehensive assessment	
		005210	Graduation Project	13.0	13					13								13 weeks	Comprehensive assessment	
		Sub-total		47.5	416+22 weeks	366	50				22					56	184+4 weeks	176+3 weeks	15 weeks	
	Option-al	305275	Special Topic on New Technology of Electrical Engineering	1.0	16	16												16		Comprehensive assessment
		305287	Special Motor and Its Application	1.5	24	24											24			Test
		305288	Power system dispatch automation	1.5	24	24												24		Test
		305289	Principle and Development Technology of Embedded System	2.0	32	32												32		Test
		305290	Electrical Drawing and CAD	2.0	32	16		16							32					Comprehensive assessment
		Sub-total		7.0	112	96											24	56		
		Choose at least 4 credits																		

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Electrical Engineering and Automation*

Table 3

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theore- tical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method
							Experimen- tal hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8	
Innovation- n and Entrepren- eurship	Compulsory	Y10010	Foundation of Innovation and Entrepreneurship	1.0	32	20			12										Comprehensive assessment
	Optional		Innovation Courses	1.0							Earn at least 3.0 credits. Students can take part in part or all of Research Training I - V in semester 3-7.								Comprehensive assessment
			Open Experiments	1.0															Comprehensive assessment
			Research Training I	0.5															Comprehensive assessment
			Research Training II	0.5															Comprehensive assessment
			Research Training III	0.5															Comprehensive assessment
			Research Training IV	0.5															Comprehensive assessment
			Research Training V	0.5															Comprehensive assessment
			Innovation and Entrepreneurship Projects	2.0															
	Second Classroom Activities				2.0							Earn at least 2.0 credits. BUT those credits are not included in the graduation credits.							