

电气工程及其自动化专业培养方案（080601）

一、专业简介

该专业以主干的电气工程学科为主导，紧密与计算机、控制、通讯等学科有机结合，培养高级工程技术人才。毕业生可在电气工程领域或相关领域从事研究、教学、开发、管理及生产等相关工作。

二、培养目标

以知识、能力、素质有机融合为教学理念，培养德、智、体全面发展的，具有创造性、创新性思维和国际化视野，适应电气工程领域发展的，如科学研究、规划设计、装备制造、生产运行、企业管理等，高级工程技术人才。

三、培养要求

本专业学生主要学习电工理论、电子技术、信息技术、控制理论、计算机技术等方面较宽广的科学技术基础和相应的专业知识，并接受 1 个专业方向的系统训练，在电气工程领域初步具有提出问题和解决问题的能力，具体体现如下：

(1)具有较扎实的数学、物理等自然科学的基础知识，具有较好的人文社会科学和经济管理科学基础，具有外语综合应用能力。

(2)系统地掌握本专业领域较宽的技术基础理论知识，主要包括电工理论、电子技术、信息处理、控制理论、电力电子技术、电机学、计算机软硬件基本原理与应用等。

(3)获得较好的工程实践训练，具有较好的综合分析与解决实际问题的能力。

(4)具有较熟练的计算机应用能力。

(5)具有本专业领域内至少 1 个专业方向的专业知识、技能与理论，了解本专业学科前沿的发展趋势。

(6)具有较强的工作适应能力，具备一定的科学研究、科技开发和组织管理等实际工作能力。

四、核心课程

电路、电磁场、自动控制理论、电机学、模拟电子技术、数字电子技术、电力电子技术、计算机语言、单片机原理及应用、信号与系统、电气工程基础等必修课。高年级学生可根据社会需要和个人兴趣爱好，选修不同的专业模块，同时进行金工实习、生产实习、电力系统动态模拟与数字仿真综合实验及毕业设计等实践环节。

五、主要实践性教学环节（含主要专业实验）

电工基础实验、模拟电子技术实验、数字电子技术实验、电力电子技术实验、单片机原理及应用实验、自动控制原理实验、电机学实验、电力系统动态模拟实验、认识实习，生产实习和毕业设计。

六、毕业学分：161 学分

七、修业年限：四年

八、授予学位：工学学士

九、专业方向及特色

● 电气设备与控制（简称电气（A））

电机及电气传动系统广泛应用于电力系统、自动化设备、国防、交通运输、工矿企业和

日常生活的各个方面。本专业方向模块的教学主要围绕以下几个方面进行：控制电机、永磁电机等特种或新型电机的原理与特性，电机的分析和设计技术，电机调速与运动控制系统等控制技术。通过对上述课程的学习，可以在电机设计、电气传动自动控制系统方面有所专长。既能在电力系统、电机设计与制造等领域从事技术工作，也可在各类工矿企业从事与电气传动、自动控制相关的工程设计、研究开发等工作，具有广泛的适应性。

● 核电工程与传输技术（简称电气（B））

核能是能源结构中不可或缺的重要组成部分，也是国家能源安全战略的有机组成。实现核能和平利用的主要途径就是利用核能进行发电。本专业方向模块主要从核能发展历史、核反应堆物理、核反应堆结构、压水堆核电厂的运行、核反应堆安全、核电厂生产管理以及核电厂电气运行等方面介绍核能发电技术。旨在面向电力系统和核能领域，培养既具有广阔视野，又具有扎实基础知识的高级工程技术人才。

● 柔性电力技术（简称电气（C））

电力电子技术广泛应用于电力系统、电气传动系统及各种电源系统等工业生产和民用部门。柔性电力技术是以现代电力电子技术为核心、对电能进行变换与灵活控制的电力技术，目前已经开始应用于发电、输电、配电与用电的各个环节并得到快速发展。本专业方向主要学习电力电子与电力传动系统的理论、分析、控制及电力电子技术在电力系统的应用等方面的内容。学生既可以在电力系统及其自动化领域从事技术工作，也可以在自动化及信息领域从事工程设计、研究开发和其他相关工作。

● 电网智能保护与控制（简称电气（D））

本专业方向主要针对电力系统智能保护与智能控制领域。电网保护及安全自动控制装置是电力系统的重要组成部分和电力系统自动化的主要内容，是电力系统安全、稳定、可靠运行的重要保障。本专业方向设置的必修课是电力系统故障分析、电力系统继电保护和电力系统自动控制技术。主要学习电力系统故障分析的基本理论和基本方法，继电保护及安全自动控制的基本原理、作用和方法等。该方向面向电力系统、大中型工矿企业及电力设备制造厂家，培养电力系统保护及智能控制领域中的科研、生产、运行和管理等方面的专业技术人才。

● 高电压与绝缘技术（简称电气（E））

高电压与绝缘技术学科致力于高电压与绝缘技术领域的基础理论、创新技术和工程应用研究，主要研究和学习高电压绝缘技术、电力系统过电压、高电压实验等方面的内容。也特别注重发展新兴与交叉学科领域，研究和学习电力系统接地技术、高压电力设备在线监测技术、高压电器、现代气体放电技术概论、电介质理论、电力系统电磁兼容等方面的内容，是电气工程学院成长和发展最快的学科之一。主要培养具有扎实基础、创新能力和能从事高压电气设备设计、制造和运行维护等方面的高级工程技术人才。

● 可持续电力能源系统（简称电气（F））

本专业方向主要针对可持续电力能源系统的控制、运行与优化。设有的必修课是能源与环境、新能源发电技术、发电系统的组网与并网技术和高压直流输电技术。该方向主要是围绕电力能源系统中的能源与环境可持续发展问题，涵盖能源转换、利用与节能减排技术，面向电力能源系统规划运行中的低碳循环评估与调控、多种能源形式的利用与优化，针对这些领域培养高级工程技术人才。

● 电力系统运行与控制（简称电气（H））

本专业方向主要针对发电厂及电力系统的运行、分析、控制和管理。设有的必修课是电力系统暂态分析、电力系统继电保护、电力系统自动控制技术和高压直流输电技术。该方向主要是围绕电力系统（发电厂、电网、变电所）的规划、运行、调度和监测及控制技术，面向电力系统运行与控制领域，针对该领域培养高级工程技术人才。

● 电力经济（简称电气（G））

本专业方向不仅具备电气工程学科的基本要求,而且顺应电力工业经营管理体制变革对工程技术人才的要求。电力工业进入市场化,势必需要高级复合型工程技术人才。本专业方向立足于电力系统,在电力系统及其自动化(I、II、III)等专业方向的基础上,着重在电力技术经济、电力企业管理、电力市场化运营等方向培养高级工程技术人才。

● **输电工程(简称电气(K))**

输电是电力系统中实现电能远距离传输的一个重要环节,线路的架设、运行状态直接决定电力系统的安全和效益。本专业方向针对线路的设计、施工、运行、监测和检修等输电工程问题,设置工程力学、线路运行与检修等相应的课程。该方向面向电力咨询、送变电工程建设、电网企业以及电力设备制造厂家,培养具有输电工程专门知识的科研、生产、运行和管理等方面的高级工程技术人才。

十、各类课程学时学分比例

课程性质	课程类别		学分		学时		占总学分百分比	
必修课	通识教育必修课程		131	29	2125 +32周	739	81.8%	18.1%
	学科基础平台课程			24		416		15.0%
	专业基础课程			16		274		10.0%
	专业必修课程			41		696		25.6%
	实践环节	不含实验课程		21		32周		13.1%
		含实验课程		30		32周+ 256		18.8%
选修课	通识教育核心课程		29	10	464	160	18.2%	6.25%
	通识教育选修课程			3		48		1.88%
	专业选修课程			16		256		10.0%
毕业要求总合计			160		2589+32周		100%	

十一、课程设置清单(见下表)

电气工程及其自动化专业专业(大类)课程设置及学时分配表 [总表]

课程类别	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注 Notes
					授课	实验	上机			
通识教育必修课程	sd02810240	中国化的马克思主义	3	58	48			考试	滚动	课外 10
	sd02810050	道德与法律	3	58	48			考试	滚动	课外 10
	sd02810150	马克思主义原理	3	58	48			考试	滚动	课外 10
	sd02810250	中国近现代史纲要	1.5	29	24			考试	滚动	课外 5
	sd031100(1-6)0	大学英语	8	240	128			考试	1秋-1春	自主学习 112
	sd029106(3-6)0	体育(1-4)	4	128	128			考试	1秋-2春	
	sd01310010	大学计算机	3	64	32		32	考试		
	sd06910010	军事理论	2	32	32			考试	1秋/1春	
	sd090100(1-6)0	形势政策与社会实践(1-6)	1.5	72	24			考查	1秋-3春	课外 48

	01917-18	K方向选修课组	16						6-7	
	小计		16							
实践环节	0691000210	军训	0	3周					1	
	0193100160	单片机原理课程设计	1	1周				考查	5	
	0193101160	电气工程基础课程设计	2	2周				考查	7	
	0193101940	认识实习	1	1周				考查	3	
	0193101440	生产实习	3	3周				考查	7	
	新建	金工实习	2	2周					2	
	0193100820	电力系统动模实验	2	2周				考查	7	
	0193101720	综合实验	2	2周				考查	7	
	新建	专业设计(A、B、C、D、E、F、H、G、K方向)	1	1周				考查	7	
	新建	毕业论文(设计)	7	15周				考试	8	
	小计		21	32周						
合计			160							

电气工程及其自动化专业的专业选修课程设置及学时分配表(A方向) [表二A]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01901	电气A	新建	电力拖动自动控制系统	3	48	48			考试	6	必选
			0193200310	电机设计	2	32	32			考试	6	必选
			新建	现代变流技术及应用	2	32	32			考试	6	必选
	小计					7	112	112				
	01902	电气A	0193200810	电力系统分析	2	34	30	4		考查	6	十一选五
			0193202910	永磁电机	2	32	32	0		考查	6	十一选五
			0193202610	微特电机	2	34	30	4		考查	6	十一选五
			新建	电机的单片机控制	2	32	32	0		考查	6	十一选五
			0193304310	可编程控制器原理	2	34	30	4		考查	6	十一选五
			0193304910	现代测试技术	2	32	32	0		考查	6	十一选五
	新建	大型同步发电机	2	32	32	0		考查	6	十一选五		

		新建	计算机仿真技术	2	34	30	0	4	考查	6	十一选五
		新建	电器故障诊断	2	32	32	0		考查	6	十一选五
		新建	电动汽车驱动及能量管理	2	32	32	0		考查	6	十一选五
		0193305610	新能源发电技术	2	32	32	0		考查	6	十一选五
		小计		10/22	360	344	12	4			

备注：本表为专业课组课程设置表，即综合教务系统中的课程课组对照表。凡是总表必修课程中不能全专业或全专业大类学生都适用的课程都应进入本表。

电气工程及其自动化专业的专业选修课程设置及学时分配表（B方向） [表二B]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01903	电气B	0193202310	核反应堆物理基础	2	32	32			考试	6	必选
			0193202210	核电厂系统与设备	2	32	32			考试	6	必选
			0193202110	核电厂调试与运行	2	32	32			考试	6	必选
	小计					6	96	96				
	01904	电气B	0193303510	管理学概论	2	32	32			考查	6	九选五
			0193303710	核电发展与展望	2	32	32			考查	6	九选五
			0193303910	核反应堆安全分析	2	32	32			考查	6	九选五
			0193303610	核电厂电气运行	2	32	32			考查	6	九选五
			0193303810	核电站生产管理	2	32	32			考查	6	九选五
			0193304510	能源利用与环境发展	2	32	32			考查	6	九选五
			0193303010	高压电器	2	32	32			考查	6	九选五
			新建	计算机仿真技术	2	34	30	0	4	考查	6	九选五
			0193304910	现代测试技术	2	32	32			考查	6	九选五
	小计					10/18	292	284	8			

备注：本表为专业课组课程设置表，即综合教务系统中的课程课组对照表。凡是总表必修课程中不能全专业或全专业大类学生都适用的课程都应进入本表。

电气工程及其自动化专业的专业选修课程设置及学时分配表（C方向） [表二C]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01905	电气C	新建	电力电子装置及应用	3	52	44	8		考试	6	必选
			0193200810	电力系统分析	2	34	30	4		考试	6	必选
			新建	电力电子自动控制系统	2	36	30	6		考试	6	必选
	小计					7	122	104	18			
	01906	电气C	新建	柔性电力技术	2	32	32			考查	6	八选五
			0193303110	高压直流输电	2	32	32			考查	6	八选五
			0193305710	新能源发电与并网技术	2	32	32			考查	6	八选五
			0193305010	现代电力电子器件	2	32	32			考查	6	八选五
			0193300710	电力电子系统计算机仿真	2	36	28	8		考查	6	八选五
			0193302510	电网电能质量控制	2	32	32			考查	6	八选五
			0193300110	DSP 原理及应用	2	34	30	4		考查	6	八选五
			0193302710	发电厂变电所控制	2	32	32			考查	6	八选五
	小计					10/16	262	250	12			

备注：本表为专业课组课程设置表，即综合教务系统中的课程课组对照表。凡是总表必修课程中不能全专业或全专业大类学生都适用的课程都应进入本表。

电气工程及其自动化专业的专业选修课程设置及学时分配表（D方向） [表二D]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01907	电气D	0193201110	电力系统继电保护	2	34	30	4		考试	6	必选
			0193203010	电力系统故障分析	2	34	30	4		考试	6	必选
			0193201310	电力系统自动控制技术	2	34	30	4		考试	6	必选
			0193304810	微机型继电保护原理	2	34	30	4		考试	6	必选
	小计					8	136	120	16			

01908	电气 D	新建	电力系统通信及远程监控技术	2	32	32			考查	6	六选四
		0193302710	发电厂变电所控制	2	32	32			考查	6	六选四
		0193300310	Matlab 原理及编程	2	36	28	8		考查	6	六选四
		0193305610	新能源发电技术	2	32	32			考查	6	六选四
		新建	智能配电网保护与控制	2	32	32			考查	6	六选四
			新建	电力系统稳定与广域控制	2	32	32			考查	6
小计				8/12	196	188	8				

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电气工程及其自动化专业的专业选修课程设置及学时分配表(E方向) [表二 E]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01909	电气 E	新建	高电压绝缘技术	3	48	48			考试	6	必选
			新建	电力系统过电压	2.5	40	40			考试	6	必选
			新建	高电压试验技术	2.5	40	40			考试	6	必选
	小计					8	128	128				
	01910	电气 E	0193302110	电力系统接地技术	2	32	32			考查	6	七选四
			0193302910	高压电力设备在线监测技术	2	32	32			考查	6	七选四
			0193303010	高压电器	2	32	32			考查	6	七选四
			0193305310	现代气体放电技术概论	2	32	32			考查	6	七选四
			0193300610	电介质理论	2	32	32			考查	6	七选四
			0193301510	电力系统电磁兼容	2	32	32			考查	6	七选四
			0193303110	高压直流输电	2	32	32			考查	6	七选四
	小计					8/14	224	224				

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电气工程及其自动化专业的专业选修课程设置及学时分配表(F方向) [表二F]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01911	电气F	0193202510	能源与环境	2	32	32			考试	6	必选
			0193202812	新能源发电技术	2	32	32			考试	6	必选
			0193201610	发电系统的组网与并网技术	2	32	32			考试	6	必选
			0193303210	高压直流输电技术	2	32	32			考试	6	必选
	小计					8	128	128				
	01912	电气F	0193302510	电网电能质量控制	2	32	32			考查	6	十一选四
			0193301210	电力市场概论	2	32	32			考查	6	十一选四
			0193301010	电力企业管理	2	34	30	4		考查	6	十一选四
			0193304410	能源经济与政策概论	2	32	32			考查	6	十一选四
			0193305210	现代能量管理系统	2	32	32			考查	6	十一选四
			0193305110	现代电力通讯技术	2	32	32			考查	6	十一选四
			0193304610	配电网综合自动化	2	32	32			考查	6	十一选四
			0193303410	供配电工程	2	32	32			考查	6	十一选四
			0193303310	工程经济学概论	2	32	32			考查	6	十一选四
			0193304710	数据库技术	2	40	24		16	考查	6	十一选四
	0193300910	电力法	2	32	32			考查	6	十一选四		
	小计					8	362	342	4	16		

备注：本表为专业课组课程设置表，即综合教务系统中的课程课组对照表。凡是总表必修课程中不能全专业或全专业大类学生都适用的课程都应进入本表。

电气工程及其自动化专业的专业选修课程设置及学时分配表(H方向) [表二H]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业	01913	电气H	0193200810	电力系统分析	2	34	30	4		考试	6	必选

选修课组			0193201310	电力系统自动控制技术	2	34	30	4		考试	6	必选	
			0193201110	电力系统继电保护	2	34	30	4		考试	6	必选	
			0193303210	高压直流输电技术	2	32	32			考试	6	必选	
	小计					8	134	122	12				
	01914	电气 H		0193302510	电网电能质量控制	2	32	32			考查	6	十二选四
				0193301210	电力市场概论	2	32	32			考查	6	十二选四
				0193301010	电力企业管理	2	34	30	4		考查	6	十二选四
				0193305610	新能源发电技术	2	32	32			考查	6	十二选四
				0193304410	能源利用与环境发展	2	32	32			考查	6	十二选四
				0193305210	现代能量管理系统	2	32	32			考查	6	十二选四
				0193305110	现代电力通讯技术	2	32	32			考查	6	十二选四
				0193304610	配电网综合自动化	2	32	32			考查	6	十二选四
				0193303410	供配电工程	2	32	32			考查	6	十二选四
			0193303310	工程经济学概论	2	32	32			考查	6	十二选四	
			0193304710	数据库技术	2	40	24		16	考查		十二选四	
			0193300910	电力法	2	32	32			考查		十二选四	
小计					8 /24	394	374	4	16				

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电气工程及其自动化专业的专业选修课程设置及学时分配表（G 方向） [表二 G]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01915	电气 G	0193202410	经济学原理	2	32	32			考试	5	必选
			0193202010	工程经济学概论	2	32	32			考试	6	必选
			0193200611	电力市场原理(双语)	3	52	44	8		考试	6	必选
			0193200510	电力企业管理	3	52	44	8		考试	6	必选

		小计		10	168	152	16				
01916	电气 G	0193304710	数据库技术	2	40	24		16	考查	6	十五选三
		0193300910	电力法	2	32	32			考查	6	十五选三
		0193301610	电力系统分析	2	34	30	4		考查	6	十五选三
		0193302310	电力系统自动控制技术	2	34	30	4		考查	6	十五选三
		0193302010	电力系统继电保护	2	32	32			考查	6	十五选三
		0193302510	电网电能质量控制	2	32	32			考查	6	十五选三
		0193305610	新能源发电技术	2	32	32			考查	6	十五选三
		0193304510	能源利用与环境发展	2	32	32			考查	6	十五选三
		0193305210	现代能量管理系统	2	32	32			考查	6	十五选三
		0193303210	高压直流输电技术	2	32	32			考查	6	十五选三
		0193305110	现代电力通讯技术	2	32	32			考查	6	十五选三
		0193304610	配电网综合自动化	2	32	32			考查	6	十五选三
		0193303410	供配电工程	2	32	32			考查	6	十五选三
		0193302410	电力营销管理	2	32	32			考查	6	十五选三
		0193305510	线路运行与检修	3	48	48			考查	6	十五选三
		小计		6/31	508	484	8	16			

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电气工程及其自动化专业的专业选修课程设置及学时分配表（K 方向） [表二 K]

类别	课组号	专业课组名称	课程号	课程名称	学分数	总学时	总学时分配			考核方式	开设学期	备注
							授课	实验	上机			
专业选修课组	01917	电气 K	0193202410	经济学原理	2	32	32			考试	5	必选
			0193202010	工程经济学概论	2	32	32			考试	6	必选
			0193200611	电力市场原理(双语)	3	52	44	8		考试	6	必选
			0193202710	线路运行与检修*	3	52	44	8		考试	6	必选

		小计		10	168	152	16				
01918	电气 K	0193304710	数据库技术	2	40	24		16	考查	6	十五选三
		0193300910	电力法	2	32	32			考查	6	十五选三
		0193301610	电力系统分析	2	34	30	4		考查	6	十五选三
		0193302310	电力系统自动控制技术	2	34	30	4		考查	6	十五选三
		0193302010	电力系统继电保护	2	32	32			考查	6	十五选三
		0193302510	电网电能质量控制	2	32	32			考查	6	十五选三
		0193305610	新能源发电技术	2	32	32			考查	6	十五选三
		0193304510	能源利用与环境发展	2	32	32			考查	6	十五选三
		0193305210	现代能量管理系统	2	32	32			考查	6	十五选三
		0193303210	高压直流输电技术	2	32	32			考查	6	十五选三
		0193305110	现代电力通讯技术	2	32	32			考查	6	十五选三
		0193304610	配电网综合自动化	2	32	32			考查	6	十五选三
		0193303410	供配电工程	2	32	32			考查	6	十五选三
		0193302410	电力营销管理	2	32	32			考查	6	十五选三
		0193301110	电力企业管理	3	52	44	8		考查	6	十五选三
		小计		6/31	512	480	16	16			

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教学院长（签字）：

年 月 日

学院本科教学指导委员会主任（签字）：

年 月 日

Course Structure of Electrical Engineering and Automation (080601)

I、Major Introduction

The major of Electrical Engineering and Automation takes the Electrical Engineering as the leading discipline, which is closely interconnected with other disciplines such as computer science, control science, and communications, etc. The aim of this major is to train the high-level talents in Electrical Engineering. The graduates of this major have the capability of performing research, teaching, development and management in Electrical Engineering or in related areas.

II、Academic Objectives

Based on the education idea of combining knowledge, ability and accomplishment, the objective is to train senior engineering talents which are fully developed in moral, wisdom and physique and have the creativity, creative mind and international horizon, and fit the development of electrical engineering in the fields of scientific research, planning and design, equipment manufacture, production and operation, and business management, etc.

III、Academic Requirement

The students mainly study the basic of scientific technology and corresponding professional knowledge related to a wide range of fields which include electrotechnics theory, electronics, information technology, control theory and computer technology. They will receive a systematic training in one major direction, and have the preliminary ability of discovering and solving problems in electrical engineering field. The detailed requirements are as follows.

(1) Solid natural science knowledge which includes mathematics and physics, good foundation of humanities, social science, economics and management science, and comprehensive ability of using foreign language.

(2) A wide range of basic technical knowledge of the major which include electrical theory, electronics, information processing, control theory, power electronics, electric machinery, computer application and its software and hardware principles.

(3) Adequate engineering practices, and good ability of analyzing and solving practical problems.

(4) Proficient computer application ability.

(5) Professional knowledge, skill and theory of at least one direction of the major, knowing the current trend of the major.

(6) Good adaptability to work, and Practical work ability on scientific research, technological development and management.

IV、Core Courses

The compulsory courses include electric circuit, electromagnetism, automatic control theory,

electrical machinery, analogue electronics, digital electronics, power electronics, computer language, principle and application of computer, signal and system, and fundamental of electrical engineering. Senior students can select different major modules based on society requirements and personal interests, and carry on the several practices such as metalworking practice, field practice, integrated dynamic and digital simulation of power system, graduation design.

V、Main Laboratory and Practice

The main practices include metalworking practice, field work, production practice, job training, programming design, and final project. The professional experiments includes experiments of electrical theory, analogue/digital electronics, power electronics, micro-computer principle, automatic control theory, electric machinery, and power system dynamic simulations.

VI、Credits:

161 Credits

VII、Duration:

Four years

VIII、Degree:

Bachelor of Engineering.

IX、Major Predominance and characteristics

- **Electric machine and electric drive (referred to as Electric(A))**

Electric machines and electric drives are widely used in power system, automatic equipment, national defense, transportation, industry, daily life and so on. The courses of this major module mainly concerns the principle and characteristics of special or novel electric machines such as control machines and permanent magnet machines, the analysis and design of electric machines, the control techniques of electric machines such as motor speed adjustment and motion control systems. Through the systematic study in this major, students can obtain professional knowledge in electric machine design, automatic control system of electric drives, and can find wide job adaptability in research and development of power system, electric machine, and other industry domains concerned with electric drive, automatic control.

- **Nuclear Power Engineering and Transmission Technology (referred to as Electric(B))**

Nuclear energy is the indispensable part of utilized energy, and is included in our national energy security strategy. It is the main way to peacefully use nuclear energy by generating electric power. This major mainly introduces the nuclear power generation in the aspects of the history of nuclear energy development, the physics and composition of nuclear reactor, the commissioning and operation of PWR nuclear power plant, nuclear reactor safety analysis, the production management and electric operation of nuclear power plant. This major mainly cultivates engineering and technical talents with broad horizon and solid knowledge foundation in the field of power system and nuclear energy.

- **Flexible Power Technology (referred to as Electric(C))**

Power electronics is widely used in the industrial field of power system, electric drive system and various power supply systems. Flexible power technology, based on the modern power electronics technology, can transform and control power energy flexibly. Currently, flexible power technology is being used in each field of power system, such as power generation, transmission, distribution and end user, and gets rapid development. This major mainly focuses on power electronics and power drive systems theory, analysis, and control, at the same time learning power electronics application in power system. Students are able to work on the technical jobs in the field of the power system and its automation, can also be engaged research and development and other related work in the field of automation and information engineering.,

- **Electric Power System Smart Protection and Control (referred to as Electric (D))**

This professional direction mainly focuses on power system smart protection and the field of security and automation control. As an important part of the power system and a major content of power system automation, smart protection and automation control devices mostly guaranteed the security, stability and reliability operation of the power system. The compulsory courses of this professional direction include Power System Fault Analysis, Power System Relaying Protection and Power System Automatic Control Technology. The main learning contents of this professional direction are the basic theory and method of power system faults analysis and basic principles, rules and methods of security automatic control. This professional direction orients to power system, medium and large industrial and mining enterprises and electrical equipment manufacturers, and trains professional and technical professionals for the scientific research, production and management of the power system protection, security and automation control.

- **High Voltage and Insulation Technology (referred to as Electric (E))**

High Voltage and Insulation Technology Discipline is committed to the research of the basic theory, the innovative technology and the application of high voltage and insulation technology. The main contents include high-voltage insulation technology, power system over voltage, high voltage test techniques and other aspects. And it also places special emphasis on the development of new and interdisciplinary areas, power system grounding technologies, high voltage apparatus on-line monitoring technology, high voltage apparatus, modern gas discharge technology conspectus, dielectric theory, power system electromagnetic compatibility and other aspects. It is one of the fastest growing disciplines in the Electrical Engineering College. The objective is to cultivate senior engineering technical talents with the solid foundation, innovation and the ability to engage in the design, manufacture and operation and maintenance of high voltage electrical equipment in

- **Sustainable Electric Energy System (referred to as Electric(F))**

This program concentrates on control, operation and optimization of sustainable electric energy systems. The compulsory courses include Energy and Environment, Renewable Generation Technology, Interconnection and Integration of Electric Power Generation, and HVDC Power Transmission Technology. The program focuses on sustainable development of energy and the environment covering energy conversion, utilization and conservation. The program aims at cultivating high-quality engineers with versatile capabilities related to electric energy system planning & operation, including evaluation and control of carbon cycles, utilization and optimization of multi-energy resources.

- **Electric Power System and Automation(I) (referred to as Electric (H))**

This program concentrates on operation, analysis, control and management of power plants and power systems. The required courses include Transient Analysis of Power Systems, Automatic Control Technology of Power Systems, Power System Protection, and HVDC Power Transmission Technology. The program focuses on planning, operation, dispatch and supervision & control of power systems (power plants, power networks and power stations). The program aims at cultivating high-quality engineers with versatile capabilities related to power system operation and control.

● **Electric Power System Economics (G) (referred to as Electric (G))**

This program not only conforms to the requirement of electrical engineering, but also satisfies the demand for engineers who are familiar with regulation of electric power industry. More high-quality compound engineers are greatly needed when electric power industry finishes marketization. Based on the electric power system, the program cultivates high-quality engineers in major predominance of electric power system and its automation(I、II、III), especially in areas of electric power technologic economics, power enterprise management and electricity market operation.

● **Transmission Engineering (K) (referred to as Electric (K))**

Transmission is an important part to implement remote transfer of electric power. The building and operating of lines are directly related to security and profit of the power system. The compulsory courses of this program include Engineering Mechanics, Transmission Line Operation and Maintenance etc. The program orients to electric power consultation, electric power transmission & transformation engineering, power grid enterprises and electrical equipment manufacturers, and trains professional and technical personal for the scientific research, production and management.

X、The proportion of credit hours of courses

property	Course category		credit		period (hour)		percentage of total credit	
compulsory courses	compulsory general courses		131	29	2125 +32 weeks	739	81.8%	18.1%
	basic professional courses			24		416		15.0%
	professional courses			16		274		10.0%
	major compulsory courses			41		696		25.6%
	practice	exclude experiments		21		32 weeks		13.1%
include experiments		30	32 weeks+	18.8%				
optional courses	core general courses		29	10	464	160	18.2%	6.25%
	optional general courses			3		48		1.88%
	optional professional courses			16		256		10.0%
required credit for graduation			160	2589+32 weeks		100%		

十一、课程设置清单（见下表）

Course Assignment and Credit Allocation (Summary Table)

course category	course number	course name	credit	period(hour)	total period			exam method	semester	Notes
					lecture	experiment	simulation on computer			
compulsory general courses	sd02810240	Marxism with Chinese characteristics	3	58	48			paper	Any one	extracurricular 10h
	sd02810050	Morality and Law	3	58	48			paper	Any one	extracurricular 10h
	sd02810150	Basic Principles of Marxism	3	58	48			paper	Any one	extracurricular 10h
	sd02810250	Outline of History of Modern Chinese	1.5	29	24			paper	Any one	extracurricular 5h
	sd031100 (1-6) 0	College English	8	240	128			paper	1-2	self learn 112h
	sd029106 (3-6) 0	Physical Education (1-4)	4	128	128			paper	1-4	
	sd01310010	College Computer	3	64	32		32	paper	Any one	
	sd06910010	Military Theory	2	32	32			paper	Any one	
	sd090100 (1-6) 0	Situation and Policy and Social Practice(1-6)	1.5	72	24				1-6	extracurricular 48h
	subtotal		29	739	512		32			extracurricular 195h
core general courses	00051	category of Ancient Chinese Literature	2	32	32				Any one	choose 2 credits
	00052	category of Innovation	2	32	32				Any one	choose 2 credits
	00053	Category of Art	2	32	32				Any one	choose 2 credits
	00054	category of Humanity science	2	32	32				Any one	choose 2 credits
	00055	category of Social science	2	32	32				Any one	choose 2 credits
		subtotal		10	160	160				
optional general courses	00090	Group of optional general courses	3	48	48				Any one	choose 3 credits in school level
		subtotal	3	48	48					
basic professional courses	Sd009201 (2-3) 0	Higher Mathematics (1-2)	10	160	160			paper	1-2	
	0192001710	Linear Algebra	3	48	48			paper	1	
	Sd00920020	Probability Theory and Mathematical statistics	3	48	48			paper	3	
	0173204910	Basics of Digital Electronic Technology	3+1	80	48	32		paper	3	
	0173204810	Basics of Simulated Electronic Technology	3+1	80	48	32		paper	4	
	subtotal		24	416	352	64				
profess	新建	Electric Machinery (1-2)	6	104	88	16		paper	3-4	

Course Assignment and Credit Allocation (Electric A) [Table 2 A]

category	Course group number	Special ized group name	Course No.	Course Name	credit	pe riod (hour)	total credit			exam method	semester	notes
							lectu re	expe riment	sim ulation on computer			
option al profes sional course s	01901	Electric A	新建	Control System of Electrical drives	3	48	48			paper	6	compulsory
			0193200310	Electric Machine Design	2	32	32			paper	6	compulsory
			新建	Modern Power Converting Technique and Applications	2	32	32			paper	6	compulsory
	Subtotal					7	112	112				
	01902	Electri c A	0193200810	Power Systems Analysis	2	34	30	4		test	6	Select five in eleven
			0193202910	Permanent Magnet Machines	2	32	32	0		test	6	Select five in eleven
			0193202610	Micro and Special type Machines	2	34	30	4		test	6	Select five in eleven
			新建	Single Chip Control of Electric Machines	2	32	32	0		test	6	Select five in eleven
			0193304310	PLC Principle and Applications	2	34	30	4		test	6	Select five in eleven
			0193304910	Modern Testing Technology	2	32	32	0		test	6	Select five in eleven
			新建	Operation of Large Synchronous Generators	2	32	32	0		test	6	Select five in eleven
			新建	Computer Simulation Technology	2	34	30	0	4	test	6	Select five in eleven
			新建	Fault Diagnosis of Electric Appliances	2	32	32	0		test	6	Select five in eleven
			新建	Electric Vehicle Drive and Energy Management	2	32	32	0		test	6	Select five in eleven
	0193305610	Renewable Energy Generation	2	32	32	0		test	6	Select five in eleven		
	Subtotal					10 /22	360	344	12	4		

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Course Assignment and Credit Allocation (Electric B) [Table 2 B]

category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes	
							lecture	experiment	simulation on computer				
optional professional courses	01903	Electric B	0193202310	Physics Theory of Nuclear Reactor	2	32	32			paper	6	compulsory	
			0193202210	System and Devices of Nuclear Power Station	2	32	32			paper	6	compulsory	
			0193202110	Debugging and Operation of Nuclear Power Station	2	32	32			paper	6	compulsory	
	Subtotal					6	96	96					
	01904	Electric B	0193303510	Principle of Management	2	32	32			test	6	Select five in nine	
			0193303710	Past and Future of Nuclear Power	2	32	32			test	6	Select five in nine	
			0193303910	Safety Analysis of Nuclear Reactor	2	32	32			test	6	Select five in nine	
			0193303610	Electrical Equipment Operation of Nuclear Power Station	2	32	32			test	6	Select five in nine	
			0193303810	Management of Nuclear Power Station	2	32	32			test	6	Select five in nine	
			0193304510	Energy Utilization and Environmental Sustainability	2	32	32			test	6	Select five in nine	
			0193303010	High Voltage Apparatus	2	32	32			test	6	Select five in nine	
			新建	Computer Simulation Technology	2	34	28	8		test	6	Select five in nine	
			0193304910	Modern Testing Technology	2	32	32			test	6	Select five in nine	
	Subtotal					10 / 18	292	284	8				

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Course Assignment and Credit Allocation (Electric C) [Table 2 C]

category	Course	Special	Course No.	Course Name	cred	pe	total credit	exam	semest	notes
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Category	group number	Specialized group name			credit	period (hour)	lecture	experiment	simulation on computer	method	semester		
Optional professional courses	01905	Electric C	新建	Power Electronics Equipments and Applications	3	52	44	8		paper	6	compulsory	
			0193200810	Power Systems Analysis	2	34	30	4		paper	6	compulsory	
			新建	Power Electronics Control System	2	36	30	6		paper	6	compulsory	
	Subtotal					7	122	104	18				
	01906	Electric C	新建	Flexible power technology	2	32	32				test	6	Select five in eight
			0193303110	High Voltage Direct Current Power Transmission	2	32	32				test	6	Select five in eight
			0193305710	Renewable Energy Generation and Grid Connected	2	32	32				test	6	Select five in eight
			0193305010	Modern Power Electronics Devices	2	32	32				test	6	Select five in eight
			0193300710	Simulation of Power Electronics Systems	2	36	28	8			test	6	Select five in eight
			0193302510	Power Quality Control	2	32	32				test	6	Select five in eight
			0193300110	DSP Principle and Applications	2	34	30	4			test	6	Select five in eight
			0193302710	Power Plant and Power Station Control	2	32	32				test	6	Select five in eight
	Subtotal					10 /16	262	250	12				

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Course Assignment and Credit Allocation (Electric D) [Table 2 D]

Category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes
							lecture	experiment	simulation on computer			
Optional professional course	01907	Electric D	0193201110	Power System Protective Relaying	2	34	30	4		paper	6	compulsory
			0193203010	Faulted Power System Analysis	2	34	30	4		paper	6	compulsory

s			0193201310	Power System Automatic Control Technology	2	34	30	4		paper	6	compulsory	
			0193304810	Microcomputer-based Relay Protection	2	34	30	4		paper	6	compulsory	
	Subtotal					8	136	120	16				
	01908	Electric D	新建		Power System Communication and Remote Motoring & Control Technology	2	32	32			test	6	select four in six
				0193302710	Power Plant and Power Station Control	2	32	32			test	6	select four in six
				0193300310	Application of MATLAB	2	36	28	8		test	6	select four in six
				0193305610	Renewable Energy Generation	2	32	32			test	6	select four in six
			新建		Protection and Control for Smart Distribution Grid	2	32	32			test	6	select four in six
			新建		Power System Stability and Wide Area Control	2	32	32			test	6	select four in six
	Subtotal					8 /12	196	188	8				

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Course Assignment and Credit Allocation (Electric E) [Table 2 E]

category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes
							lecture	experiment	simulation on computer			
optional professional courses	01909	Electric E	新建	High Voltage and Insulation Technology	3	48	48			paper	6	compulsory
			新建	Power System Over Voltage	2.5	40	40			paper	6	compulsory
			新建	High Voltage Test Techniques	2.5	40	40			paper	6	compulsory
	Subtotal					8	128	128				
	01910	Electric E	0193302110	Power System Grounding Technology	2	32	32			test	6	select four in seven
			0193302910	High Voltage Apparatus On-line Monitoring Technology	2	32	32			test	6	select four in seven
0193303010			High Voltage Electrical Apparatus	2	32	32			test	6	select four in seven	

			0193305310	Modern Gas Discharge Technology Conspectus	2	32	32			test	6	select four in seven
			0193300610	dielectric theory	2	32	32			test	6	select four in seven
			0193301510	Power System Electromagnetic Compatibility	2	32	32			test	6	select four in seven
			0193303110	High Voltage Direct-current Transmission	2	32	32			test	6	select four in seven
			Subtotal		8	224	224					

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Course Assignment and Credit Allocation (Electric F) [Table 2 F]

category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes
							lecture	experiment	simulation on computer			
optional professional courses	01911	Electric F	0193202510	Energy and environment	2	32	32			paper	6	compulsory
			0193202812	Renewable Generation Technology	2	32	32			paper	6	compulsory
			0193201610	Interconnection and Integration of Electric Power Generation Systems	2	32	32			paper	6	compulsory
			0193303210	HVDC Power Transmission Technology	2	32	32			paper	6	compulsory
	Subtotal					8	128	128				
	01912	Electric F	0193302510	Power Quality Control	2	32	32			test	6	select four in eleven
			0193301210	Introduction to Electric Power Market	2	32	32			test	6	select four in eleven
			0193301010	Management of Electrical Enterprises	2	34	30	4		test	6	select four in eleven
			0193304410	Energy Economics and Policy	2	32	32			test	6	select four in eleven
			0193305210	Energy Management System	2	32	32			test	6	select four in eleven
0193305110			Modern Power System Communication Technology	2	32	32			test	6	select four in eleven	

			0193304610	Automation of Distribution Systems	2	32	32			test	6	select four in eleven	
			0193303410	Power Supply and Distribution Engineering	2	32	32			test	6	select four in eleven	
			0193303310	Introduction to Engineering Economics	2	32	32			test	6	select four in eleven	
			0193304710	Database Technique	2	40	24		16	test	6	select four in eleven	
			0193300910	Electric Power Law	2	32	32			test	6	select four in eleven	
			Subtotal			8	362	342	4	16			
					8	362	342	4	16				

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Course Assignment and Credit Allocation (Electric H) [Table 2 H]

category	Course group number	Special ized group name	Course No.	Course Name	credit	pe riod (hour)	total credit			exam method	semest er	notes
							lectu re	expe riment	simulat ion on computer			
option al profes sional course s	01913	Electric H	0193200810	Power Systems Analysis	2	34	30	4		paper	6	compulsory
			0193201310	Automatic Control Technology of Power Systems	2	34	30	4		paper	6	compulsory
			0193201110	Power System Protection	2	34	30	4		paper	6	compulsory
			0193303210	HVDC Power Transmission Technology	2	32	32			paper	6	compulsory
	Subtotal					8	134	122	12			
	01914	Electri c H	0193302510	Power Quality Control	2	32	32			test	6	select four in twelve
			0193301210	Introduction to Electric Power Market	2	32	32			test	6	select four in twelve
			0193301010	Management of Electrical Enterprises	2	34	30	4		test	6	select four in twelve
			0193305610	Renewable Energy Generation	2	32	32			test	6	select four in twelve
			0193304410	Energy Utilization and Environmental Sustainability	2	32	32			test	6	select four in twelve
			0193305210	Energy Management System	2	32	32			test	6	select four in twelve
			0193305110	Modern Power System Communication Technology	2	32	32			test	6	select four in twelve

			0193304610	Automation of Distribution Systems	2	32	32			test	6	select four in twelve	
			0193303410	Power Supply and Distribution Engineering	2	32	32			test	6	select four in twelve	
			0193303310	Introduction to Engineering Economics	2	32	32			test	6	select four in twelve	
			0193304710	Database Technology	2	40	24		16	test		select four in twelve	
			0193300910	Electric Power Law	2	32	32			test		select four in twelve	
			Subtotal			8	394	374	4	16			
						8	394	374	4	16			

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Course Assignment and Credit Allocation (Electric G) [Table 2 G]

category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes
							lecture	experiment	simulation on computer			
optional professional courses	01915	Electric G	0193202410	Principles of Economics	2	32	32			paper	5	compulsory
			0193202010	Introduction to Engineering Economics	2	32	32			paper	6	compulsory
			0193200611	Principle of Electricity Market	3	52	44	8		paper	6	compulsory
			0193200510	Management of Electrical Enterprises	3	52	44	8		paper	6	compulsory
	Subtotal					10	168	152	16			
	01916	Electric G	0193304710	Database Technique	2	40	24		16	test	6	select three in fifteen
			0193300910	Electric Power Law	2	32	32			test	6	select three in fifteen
			0193301610	Power Systems Analysis	2	34	30	4		test	6	select three in fifteen
			0193302310	Auto-control Technology of Power Systems	2	34	30	4		test	6	select three in fifteen
			0193302010	Power System Relay Protection	2	32	32			test	6	select three in fifteen
0193302510			Power Quality Control	2	32	32			test	6	select three in fifteen	
0193305610			Renewable Power Generation	2	32	32			test	6	select three in fifteen	

			0193304510	Energy Utilization and Environmental Sustainability	2	32	32			test	6	select three in fifteen	
			0193305210	Energy Management System	2	32	32			test	6	select three in fifteen	
			0193303210	HVDC power Transmission Technology	2	32	32			test	6	select three in fifteen	
			0193305110	Modern Power System Communication Technology	2	32	32			test	6	select three in fifteen	
			0193304610	Automation of Distribution Systems	2	32	32			test	6	select three in fifteen	
			0193303410	Power Supply and Distribution Engineering	2	32	32			test	6	select three in fifteen	
			0193302410	Electricity marketing Management	2	32	32			test	6	select three in fifteen	
			0193305510	Transmission line operation and Maintenance	3	48	48			test	6	select three in fifteen	
			Subtotal			6/31	508	484	8	16			

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Course Assignment and Credit Allocation (Electric K) [Table 2 K]

category	Course group number	Specialized group name	Course No.	Course Name	credit	period (hour)	total credit			exam method	semester	notes
							lecture	experiment	simulation on computer			
optional professional courses	01917	Electric K	0193202410	Principles of Economics	2	32	32			paper	5	compulsory
			0193202010	Introduction to Engineering Economics	2	32	32			paper	6	compulsory
			0193200611	Principle of Electricity Market	3	52	44	8		paper	6	compulsory
			0193202710	Transmission line operation and Maintenance	3	52	44	8		paper	6	compulsory
	Subtotal					10	168	152	16			
	01918	Electric K	0193304710	Database Technique	2	40	24		16	test	6	select three in fifteen
			0193300910	Electric Power Law	2	32	32			test	6	select three in fifteen
			0193301610	Power Systems Analysis	2	34	30	4		test	6	select three in fifteen
0193302310			Auto-control Technology of Power Systems	2	34	30	4		test	6	select three in fifteen	

		0193302010	Power System Relay Protection	2	32	32			test	6	select three in fifteen
		0193302510	Power Quality Control	2	32	32			test	6	select three in fifteen
		0193305610	Renewable Power Generation	2	32	32			test	6	select three in fifteen
		0193304510	Energy Utilization and Environmental Sustainability	2	32	32			test	6	select three in fifteen
		0193305210	Energy Management System	2	32	32			test	6	select three in fifteen
		0193303210	HVDC power Transmission Technology	2	32	32			test	6	select three in fifteen
		0193305110	Modern Power System Communication Technology	2	32	32			test	6	select three in fifteen
		0193304610	Automation of Distribution Systems	2	32	32			test	6	select three in fifteen
		0193303410	Power Supply and Distribution Engineering	2	32	32			test	6	select three in fifteen
		0193302410	Electricity marketing Management	2	32	32			test	6	select three in fifteen
		0193301110	Management of Electrical Enterprises	3	52	44	8		test	6	select three in fifteen
		Subtotal		6/31	512	480	16	16			

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教学院长（签字）：

年 月 日

学院本科教学指导委员会主任（签字）：

年 月 日