

自动化

一、培养目标

坚持以自动化技术为核心,融电气、电子、计算机于一体的电气信息类宽口径工程教育,着重培养理论基础厚、工程素质高、动手能力强,自动化领域的研究型与复合应用型人才。

要求学生了解控制科学与工程领域的理论前沿与发展动态,掌握控制系统的基本理论,具有初步的科学研究能力和较强的实际工作能力。能将控制理论、检测与仪表、电力电子技术、计算机信息处理等技术进行有机融合,具有在工业生产第一线从事自控系统分析、设计、运行、研发等方面的独立工作能力;培养具有求实创新精神和国际视野的高素质创新人才和未来领导者。预期毕业5年后,能够成为自动化及其相关领域的技术与科研骨干、高级管理人才。

二、基本规格要求

1. 具有较好的人文社会科学素养、正确的人生观和价值观、较强的社会责任感和诚实守信的工程职业道德。
2. 具有一定的组织管理能力、人际交往能力及团队合作能力。
3. 掌握检索和获取信息的基本方法,具备终身学习能力。
4. 熟悉国家宏观经济发展的产业政策,了解相关行业法律法规,能正确认识工程对于客观世界的影响。
5. 具有国际视野和跨文化的交流、竞争与合作能力。
6. 具有从事工程技术所需的数学、自然科学和经济、管理、法律等知识,具备工程管理和综合运用外语的能力。
7. 掌握扎实的电气信息类基础知识和自动化专业基本理论及系统的综合应用能力。主要包括自动控制理论、电子技术、检测与传感技术、智能信息处理、计算机软硬件基本理论与应用等。
8. 获得较好工程实践训练,具有熟练的计算机应用能力,具有综合运用控制学科理论和技术手段分析并解决各类控制系统与控制工程问题的基本能力。
9. 掌握创新基本方法,具有创新意识和对本专业新产品、新工艺、新设备进行设计和研发的综合能力,设计过程中能够综合考虑经济、环境、法律、安全、健康、伦理等制约因素。
10. 掌握本专业和了解其他学科交叉的新理论、新方法和新技术,具备本专业深入研究学习的能力。

三、培养特色

本专业培养特色是“以自动化技术为核心,融电气、电子、计算机于一体的电气信息类宽口径工程教育”,旨在使学生在智能控制与机器人、图像处理与模式识别、复杂系统优化与控制理论、现代电气自动化技术与装备、先进传感与检测技术等领域具备一定的基础理论知识和系统的专门应用能力。

四、学制、毕业基本要求及学位授予

1. 本科基本学制4年,弹性学习年限3—6年,按照学分制度管理。
2. 自动化专业学生毕业最低学分数为170学分,其中各类别课程及环节要求学分数如下表:

课程类别	通识必修	学门核心	学类核心	专业核心	专业选修	通识选修	集中实践	合计
学分数	27	24	43	10	26	8	32	170

3. 学生修满培养方案规定的必修课、选修课及有关环节,达到规定的最低毕业学分,并修完规定必修但不记学分的所有课程和环节,德、智、体合格,即可毕业。满足学位授予相关文件要求的,授予工学学士学位。

五、课程设置及学分分布

(一) 通识教育课程〔必修 27+ (6) 学分+选修 8 学分〕

通识教育课程包括必修和选修两部分。通识选修课程按《湖南大学通识选修(文化素质教育)课程方案》实施,通识必修课程如下:

编码	课程名称	学分	备注
GE01101	毛泽东思想和中国特色社会主义理论体系概论	3+ (3)	
GE01039	思想道德修养与法律基础	1.5+ (1.5)	
GE01100	形势与政策	0.5+ (1.5)	
GE01102	中国近现代史纲要	2	
GE01103	马克思主义基本原理(上)	2	
GE01104	马克思主义基本原理(下)	2	
GE01012(-15)	大学英语	8	
GE01088	计算机基本能力测试	0.5	
GE01093	计算机导论与程序设计	2.5	
GE01107(-13)	心理素质与生涯发展	1	
GE01089(-92)	体育	4	

(二) 学门核心(24 学分)

编码	课程名称	学分	备注
GE03025	高等数学 A(1)	5	
GE03026	高等数学 A(2)	5	
GE03003	线性代数 A	3	
GE03004	概率论与数理统计 A	3	
GE03005	普通物理 A(1)	3	
GE03006	普通物理 A(2)	3	
GE03007(08)	普通物理实验 A	2	

(三) 学类核心(43 学分)

编码	课程名称	学分	备注
EC04011	电路	4	
EC04012	电路实验	1	
EC04013	电磁场与波	3	
EC04014	模拟电子技术基础	4	
EC04015	模拟电子技术实验	1	
EC04016	数字电子技术基础	4	
EC04017	数字电子技术实验	1	
EC04018	微机原理及其应用	4	
EC04019	微机原理及其应用实验	1	
EC04020	积分变换	2	
EC04021	复变函数	2	
EC04022	工程图学	3	
EC04023	自动控制原理	4	
EC04024	信号与系统	3	
EC04025	传感与检测技术	3	
EC05003	电力电子技术基础	3	

(四) 专业核心 (10 学分)

编码	课程名称	学分	备注
EC05020	计算机控制技术	4	
EC05021	电机与拖动基础	3	
EC05007	过程控制与仪表	3	

(五) 选修课 (26 学分)

编码	课程名称	学分	备注
EI05011	嵌入式系统及其应用	2	
IA07004	科学与工程计算方法及应用	3	
EC06046	软件技术基础	3	
IA06003	PLC 技术及其应用	2	
EC06027	现场总线技术及应用	2	
EC06072	智能信息处理	2	
EI05010	数字图像处理	2	
EC06033	智能控制	2	
EC06070	模式识别	2	
EC06015	机器人及其控制	2	
EC06071	机器视觉检测	2	
EC06018	控制系统仿真技术	2	
IA06011	人工智能导论	2	
EC06060	数据挖掘技术	2	
EC06063	数控系统	2	
EC06025	系统辨识	2	
EC06026	系统工程导论	2	
EC07013	现代控制理论	2	
EC06031	运动控制系统	2	
EC06035	自动化专业英语	2	
EC06073	大数据处理	2	
EC06074	C++ 面向对象程序设计	2	
EC06075	自适应控制	2	
EC06076	复杂网络导论	2	
EI05014	计算机视觉导论	2	
EC06077	移动平台嵌入式系统设计与应用	2	
EC06085	电力系统分析	2	
EC06086	发电厂电气主系统	2.5	
EC06087	电力系统继电保护原理	2.5	
EC06088	高电压技术	2	
EC06089	电力系统自动控制技术	2	
EC06020	配电网络	2	
EC06008	电力系统微机保护	2	
EC06061	电力系统可靠性	2	
EC06091	电力系统优化基础	2	
EC06055	智能电网概论	2	
EC06007	电力系统规划	2	
EC06092	电机控制技术	2.5	
EC06093	电机设计	2.5	
EC06094	电力电子装置设计	2	
EC06095	电力伺服技术	2	

续表

编码	课程名称	学分	备注
EC06096	电气测量与电机试验技术	2	
EC07008	电器学	2	
EC06097	电气装备电磁设计基础	2	
EC06098	电气装备机械设计基础	2	
EC06045	Matlab 与电机系统仿真	2	
EC06099	微特电机技术	2	
EC06100	电力电子与电机系统可靠性	2	
EC06101	电力系统过电压	2	
EC06102	高压电力设备在线监测及故障诊断	2	
EC06103	特高压输电技术	2	
EC06013	发电厂动力部分	2	
EC06006	电力技术经济	2	
EC06041	电力市场	2	
EC06002	电气工程 CAD 技术	2	
EC06036	电气工程新技术导论	2	
EC06042	新能源发电技术	2	
EC06104	电气工程专业英语	2	
EC06105	建筑电气	2	
EI07005	ASIC 设计初步	2	
EI05017	光纤通信	2	
EI07006	计算机网络	2	
EC06067	认知无线电技术	2	
EI06025	数字电视技术	2	
EC06106	通信原理 B	2	
EI06028	微波与天线	2	
EI06029	卫星通信	2	
EI06031	无线通信技术	2	
EI05013	通信系统仿真	2	
EI06034	移动通信	2	
EC06065	语音信号处理	2	
EC06066	射频电子电路	2	
EI07003	信息论与编码技术	2	
EC06068	超高频快速电路的信号完整性	2	
EC06069	集成电路设计软件模拟与仿真	2	
EC06078	MEMS 基础	2	
IA07001	测控系统工程设计	2	
EC06079	光电测量技术	2	
EC06080	MATLAB 程序设计	2	
IA06010	精密测量技术	2	
EC06081	无线传感技术	2	
EC06082	虚拟仪器	2	
EC06083	智能仪器	2	
EC06084	过程控制与自动化仪表 B	2	
EC06090	电能质量检测与控制	2	
EI06019	DSP 技术及其应用	2	
EC06001	EDA 技术基础	2	
EI06021	电磁兼容技术	2	
IA06012	数字信号处理 B	2	

注：前面 19 门课程至少选修 12 学分，剩余学分既可在本专业选修，也允许跨专业、跨学院选修课程。

(六) 集中实践 (32 学分)

编码	课程名称	学分	备注
GE09030	中文写作实训	1	1 周
GE09006	金工实习 A	2	2 周
GE09020	电工实习	2	2 周
GE09020	电子实习	2	2 周
EC10007	电子技术综合设计	2	2 周
EC10008	微机应用系统综合设计	2	2 周
EC10009	认识实习	1	1 周
EC10010	生产实习	2	2 周
EC10011	专业课程设计	2	2 周
EC10012	专业综合实验	1	1 周
EC10013	导师课程	1	1 周
EC10014	毕业实习	2	2 周
EC10015	毕业设计	12	12 周

注：在读期间参加 SIT、学科竞赛，经学院认定，可将实践学分记录进成绩单，但此成绩不能替代其他课程学分，且不参与毕业学分计算。

六、课程责任教师一览表

序号	姓名	职称	学历学位	专业特长	课程 (专业核心、专业选修、通识选修)
1	王耀南	教授	博士	智能控制、装备自动化	现代自动化新技术、智能控制
2	张小刚	教授	博士	复杂系统控制与模式识别	自动控制原理、数据挖掘技术
3	王 辉	教授	博士	工业自动化、电力电子技术	电力电子技术基础
4	李树涛	教授	博士	智能信息处理、图像处理	数字图像处理、现代自动化新技术
5	欧阳红林	教授	博士	电力电子技术及应用	电力电子技术基础
6	孙 炜	教授	博士	智能控制、机器人	机器人及其控制、智能控制
7	刘国才	教授	博士	模式识别、图像处理	自动控制原理、现代控制理论、计算机网络技术
8	彭楚武	教授	学士	微机控制、自动化装置	微机原理及其应用
9	谭建豪	教授	博士	智能信息处理	智能信息处理、模式识别
10	涂春鸣	教授	博士	电气自动化	过程控制与仪表
11	刘小燕	教授	博士	复杂过程建模与自动控制	科学与工程计算方法、现代控制理论、自动化专业英语
12	肖昌炎	教授	博士	模式识别、图像处理	嵌入式系统及其应用、现场总线技术及应用、
13	余致廷	副教授	博士	电气自动化、电机控制	电机拖动基础、现场总线技术及应用
14	林 翠	副教授	硕士	系统工程	系统工程导论、数字图像处理
15	谢 宏	副教授	博士	智能信息处理	计算机控制技术、检测与转换技术
16	余洪山	副教授	博士	机器人控制	过程控制与仪表、模式识别、科学与工程计算方法
17	张 帆	副教授	硕士	计算机控制	自动控制原理、电机拖动基础
18	雷友诚	副教授	硕士	嵌入式系统	微机原理及其应用、嵌入式系统及其应用
19	葛召炎	副教授	博士	自动控制系统与智能检测技术	可编程逻辑控制技术应用、软件技术基础
20	瞿 亮	副教授	硕士	自动控制与计算机应用	软件技术基础、控制系统仿真技术
21	李孟秋	副教授	博士	电气自动化、电力电子技术	运动控制系统、电力电子技术基础、数字信号处理及应用
22	袁小芳	副教授	博士	自动控制	计算机控制技术、科学与工程计算方法、系统辨识
23	刘 敏	副教授	博士	生物图像处理	科学与工程计算方法

续表

序号	姓名	职称	学历学位	专业特长	课程（专业核心、专业选修、通识选修）
24	梁桥康	副教授	博士	自动控制系统与智能检测技术	软件技术基础、系统工程导论
25	陈洁平	讲师	硕士	电气控制、系统辨识	信号处理技术、科学与工程计算方法、数字信号处理器及其应用
26	王亚	讲师	硕士	自动控制与计算机应用	可编程逻辑控制技术应用、微机原理及其应用
27	王石	讲师	博士	机器人技术	机器人及其控制、系统辨识
28	凌志刚	讲师	博士	视觉信息处理	数字图像处理
29	张振军	讲师	博士	非线性控制理论	科学与工程计算方法、系统辨识
30	李华丽	讲师	博士	图像处理	数字图像处理、信号处理
31	路晓庆	讲师	博士	非线性系统优化	自动控制原理
32	谭少林	讲师	博士	复杂系统	自动控制原理、电子技术
33	郑燕	讲师	博士	复杂系统	自适应控制

七、专业责任教授

序号	姓名	职称	学历学位	专业特长	承担授课课程
1	张小刚	教授	博士	复杂系统控制与模式识别	自动控制原理、数据挖掘技术

Automation

I . Objectives

The program will offer students with a thorough electrical information engineering education, which blends automation, electronic technology and computers technologies. The program aims to develop interdisciplinary students with solid theoretical basis, high engineering quality and manipulative ability.

Students in this program should understand theories, the current and future development of the discipline. They should have rudimentary research ability and strong practical ability. Students can fuse the knowledge on control principle, measurement and instruments, power electronics and computer information processing, and they can embark on careers in systematic analysis, design, operation, research and product of automation control systems. They will be trained as high-quality creative talents and future leaders with innovative spirit and international vision. They are expected to become technology and scientific researchers, senior managers in automation and related fields in five years after graduation.

II . Basic Specifications

1. They should have basic knowledge on humanities and social science, positive outlook, strong sense of responsibility and honest and credible professional behave.
2. They should possess strong competency of organized, management and good communication and coordination skill.
3. They should have the capability of knowledge search and lifelong learning.
4. They should understand the policy, law and regulation and the prospects of engineering industries.
5. They should possess the capability of international communication, competition and cooperation.
6. They should understand the basic engineering knowledge including mathematics, economics, managements and laws, and have the ability of engineering management and the use of foreign language.
7. They should have a sound foundation in conceptions, theories, techniques and application of automation control principles, electronics, measurement and sensing technology, intelligent information, computer software, computer hardware, etc.
8. Be trained well in engineering practice and computer application, and be able to solve all kinds of problems in control system and control engineering.
9. They should possess the basic approaches of innovation, capable of a sense of innovation and a comprehensive ability to design and develop the new products, new technology and new equipment in the field of automation. In the process, they can consider various constraints comprehensively, such as economy, environment, legislation, safety, health, ethics, and so on.
10. They should have the ability to understand the new interdisciplinary theories, methods and technologies, and in-depth study and research in the field of automation.

III. Characteristics

The characteristics of our professional training is “a wide-scope education in the field of electrical and information engineering with a core in the automation technology and inter-disciplined with the subjects of electrical engineering, electronic engineering and computer science”, aiming at enabling the students to gain basic theoretical and specialized knowledge and innovative ability in the fields of intelligent control and robot system, image processing and pattern recognition, complex system optimization and control theory, modern electrical automation technology and equipment and advanced sensing and intelligent detection technology.

IV. Length of Schooling, Basic Requirements for Graduation, and Degree Conferment

1. The length of schooling for undergraduate studies is four years, with a flexible length lasting from 3 to 6 years, based on the regulation of credit system.

2. Students of Automation are expected to complete a minimum of 170 credits upon graduation, and the required credits for different courses are illustrated in the following table.

Course Category	Required General Education Courses	Introductory Major Courses	Major Survey Courses	Required Core Courses	Restricted Electives	General Education Electives	Intensive Practice	Total
Credits	27	24	43	10	26	8	32	170

3. On successful completion of the prescribed courses and intensive practice, students, who are qualified enough to meet all the requirements of this program, will thus be awarded the Bachelor's Degree of Engineering.

V. Curriculum and Credits

1. General Education Courses [required 27 + (6) + elective 8 credits]

The general education courses consist of required courses and elective courses. General education electives are designed according to the *Curriculum Design of General Education Electives of Hunan University*. Required general education courses are illustrated in the following table.

Code	Course Title	Credit(s)	Remarks
GE01101	Introduction to Maoism and Theoretical System of Socialism with Chinese Characteristics	3+ (3)	
GE01039	Moral Cultivation and Law Basics	1.5+ (1.5)	
GE01100	Current Situation and Policies	0.5+ (1.5)	
GE01102	Outline of Modern Chinese History	2	
GE01103	Fundamentals of Marxism I	2	
GE01104	Fundamentals of Marxism II	2	
GE01012(-15)	College English	8	
GE01088	Computer Proficiency Test	0.5	
GE01093	Introduction to Computer Science and Programming	2.5	
GE01107(-13)	Psychological Health & Career Planning	1	
GE01089(-92)	Physical Education	4	

2. Introductory Major Courses(24 credits,7 courses)

Code	Course Title	Credit(s)	Remarks
GE03025	Advanced Mathematics A(I)	5	
GE03026	Advanced Mathematics A(II)	5	
GE03003	Linear Algebra A	3	
GE03004	Probability and Mathematical Statistics A	3	
GE03005	General Physics A(I)	3	
GE03006	General Physics A(II)	3	
GE03007(08)	Experiments in general Physics A	2	

3. Major Survey Courses (43 credits,16 courses)

Code	Course Title	Credit(s)	Remarks
EC04011	Electric Circuit	4	
EC04012	Electric Circuit Experiments	1	
EC04013	Electromagnetic Field and Wave	3	
EC04014	Fundamental of Analog Electronic Circuits	4	
EC04015	Experiments on Analog Circuits	1	
EC04016	Fundamental of Digital Electronic Circuits	4	
EC04017	Experiments on Digital Circuits	1	
EC04018	Principle and Application of Microcomputer	4	
EC04019	Experiments on Principle and Application of Microcomputer	1	
EC04020	Integral Transformation	2	
EC04021	Complex Variables Functions	2	
EC04022	Engineering Graphics	3	
EC04023	Principle of Automatic Control	4	
EC04024	Signals and Systems	3	
EC04025	Sensor and Detector Technology	3	
EC05003	Fundamentals of Power Electronics	3	

4. Required Core Courses (10 credits,3 courses)

Code	Course Title	Credit(s)	Remarks
EC05020	Computer Control Technology	4	
EC05021	Basis of Electrical Machinery and Drag	3	
EC05007	Process Control and Instrumentation	3	

5. Restricted Electives (26 credits)

Code	Course Title	Credit(s)	Remarks
EI05011	Embedded System and Its Applications	2	
IA07004	Scientific and Engineering Calculation Method and Application	2	
EC06046	Fundamentals of Software Technology	2	
IA06003	PLC Technique and Applications	2	
EC06027	Field Bus Technology and Applications	2	
EC06072	Intelligent Information Processing	2	
EI0510	Digital Image Processing	2	
EC06033	Intelligent Control	2	
EC06070	Pattern Recognition	2	
EC06015	Robotics and Robot Control	2	

Cont

Code	Course Title	Credit(s)	Remarks
EC06071	Machine Vision Inspection Technology	2	
EC06018	Control System Simulation Technology	2	
IA06011	Introduction to Artificial Intelligence	2	
EC06060	Data Mining Technology	2	
EC06063	Computer Numerical Control System	2	
EC06025	System Identification	2	
EC06026	Introduction to System Engineering	2	
EC07013	Modern Control Theory	2	
EC06031	Motion Control System	2	
EC06035	Specialized English for Automation	2	
EC06073	Big Data Processing	2	
EC06074	C++ Object-oriented Programming	2	
EC06075	Self-Adaptive Control	2	
EC06076	Introduction to Complex Network	3	
EI05014	Introduction to Computer Vision	3	
EC06077	Embedded System Design and Applications based on Mobile Platforms	2	
EC06085	Power System Analysis	2	
EC06086	Primary Electrical System of Power Plant	2.5	
EC06087	Protective Relaying in Power System	2.5	
EC06088	High Voltage Technology	2	
EC06089	Power System Automatic Control Technology	2	
EC06020	Distribution Network	2	
EC06008	Microcomputer Protection of Power System	2	
EC06061	Power System Reliability	2	
EC06091	Fundamentals of Power System Optimization	2	
EC06055	An Introduction to the Smart Grid	2	
EC06007	Power System Planning	2	
EC06092	Electric Motor Control Technique	2.5	
EC06093	Electrical Machines Design	2.5	
EC06094	Power Electronic Device Design	2	
EC06095	Power Servo Technique	2	
EC06096	Electrical Measurement and Electrical Machine Testing Technology	2	
EC07008	Electrical Appliances	2	
EC06097	Fundamentals of Electrical Equipment Electromagnetic Design	2	
EC06098	Fundamentals of Electrical Equipment Mechanical Design	2	
EC06045	Matlab and Electrical Machine System Simulation	2	
EC06099	Micro and Special Motor Technology	2	
EC06100	Power Electronics and Electrical Machine System Reliability	2	
EC06101	Over-voltage in Power Systems	2	
EC06102	On-line Monitoring and Fault Diagnosis of High Voltage Power Equipment	2	
EC06103	Ultra High Voltage Transmission Technology	2	
EC06013	Power Equipment of Power Plant	2	
EC06006	Technical Economics in Electricity	2	
EC06041	Electricity Markets	2	

Cont

Code	Course Title	Credit(s)	Remarks
EC06002	CAD Technology in Electrical Engineering	2	
EC06036	Introduction to New Technology of Electrical Engineering	2	
EC06042	Renewable Resource Generation	2	
EC06104	Specialized English for Electrical engineering	2	
EC06105	Building Electricity	2	
EI07005	Introduction to ASIC Design	2	
EI05017	Optical Fiber Communications	2	
EI07006	Computer Networks	2	
EC06067	Cognitive Radio	2	
EI06025	Digital TV Technologies	2	
EC06106	Principle of Communications B	2	
EI06028	Microwaves and Antennas	2	
EI06029	Satellite Communication	2	
EI06031	Wireless Communication Technology	2	
EI05013	Simulation of Communication Systems	2	
EI06034	Introduction of Mobile Communication	2	
EC06065	Speech Signal Processing	2	
EC06066	Radio-frequency Electronic Circuits	2	
EI07003	Information Theory and Coding Techniques	2	
EC06068	Signal Integrity of GHz Circuits	2	
EC06069	IC Design by Cadence Simulation	2	
EC06078	Fundamentals of MEMS	2	
IA07001	Engineering Design of Measurement and Control System	2	
EC06079	Photoelectric Detection Technology	2	
EC06080	MATLAB Programming	2	
IA06010	Precision Measurement Technology	2	
EC06081	Wireless Sensing Technology	2	
EC06082	Virtual Instrument	2	
EC06083	Intelligent Instrument	2	
EC06084	Process control and Automation Instrumentation B	2	
EC06090	Power Quality Detection and Control	2	
EI06019	DSP Technology and its Applications	2	
EC06001	Fundamental of Electronic Design Automation	2	
EI06021	Electromagnetic Compatibility	2	
IA06012	Digital Signal Processing B	2	

Note: At least 12 credits should be elected, in the first 19 courses. The remaining credits can be elected in major, cross-major or cross-college elective courses.

6. Intensive Practice (32 credits)

Code	Course Title	Credit(s)	Remarks
GE09030	Chinese Writing Training	1	1 week
GE09006	Smith-craft Practice A	2	2 weeks
GE09020	Electrical Engineering Practice	2	2 weeks
GE09020	Electronic Engineering Practice	2	2 weeks
EC10007	Comprehensive Design of Electronics Technique	2	2 weeks
EC10008	Comprehensive Design of Microcomputer Application System	2	2 weeks

Cont

Code	Course Title	Credit(s)	Remarks
EC10009	Professional Cognitive Practice	1	1 week
EC10010	Professional Productive Practice	2	2 weeks
EC10011	Specialty Course Project	2	2 weeks
EC10012	Specialty Comprehensive Experiment	1	1 week
EC10013	Tutor Course	1	1 week
EC10014	Undergraduate Practice	2	2 weeks
EC10015	Undergraduate Thesis	12	12 weeks

VI. Course Instructor List

No.	Name	Academic Title	Educational Background	Research Areas	Courses
1	Wang Yaonan	Professor	Doctor	Intelligent control, the e-quipment automation	New Technology of Modern Automation, Intelligent Control
2	Zhang Xiaogang	Professor	Doctor	Complex system control and pattern recognition	Automatic Control Theory, Data Mining Technology
3	Wang Hui	Professor	Doctor	Industrial automation, Power electronic technology	Power Electronic Technology
4	Li Shutao	Professor	Doctor	Intelligent information processing, Image processing	Digital Image Processing, New Technology of Modern Automation
5	Ouyang Honglin	Professor	Doctor	Power electronic technology and application	Basis of Power Electronic Technology
6	Sun Wei	Professor	Doctor	Intelligent control, Robot	Robotics and Robot Control, Intelligent Control
7	Liu Guocai	Professor	Doctor	Pattern recognition, Image processing	Modern Control Theory, Computer Network Technology
8	Peng Chuwu	Professor	Bachelor	Micro-computer control, Automatic device	Micro-computer Theory and Application
9	Tan Jianhao	Professor	Doctor	Intelligent information processing	Intelligent Information Processing, Pattern Recognition
10	Tu Chunming	Professor	Doctor	Electrical automation	Process Control and Instrumentation
11	Liu Xiaoyan	Professor	Doctor	Complex process modeling and automatic control	Science and Engineering Calculation Methods, Modern Control Theory, Specialized English for Automation
12	Xiao Changyan	Professor	Doctor	Pattern recognition and image processing	Embedded System and Applications, Field Bus Technology and Applications
13	She Zhiting	Associate Professor	Doctor	Electrical automatization, Motor control	Basis of Electrical Machinery and Drag, Field Bus Technology and Application
14	Lin Hui	Associate Professor	Master	System engineering	Introduction to System Engineering, Digital Image Processing
15	Xie Hong	Associate Professor	Doctor	Intelligent information processing	Computer Control Technology, Detection and Conversion Technology
16	Yu Hongshan	Associate Professor	Doctor	Robot control	Process Control and Instrumentation, Pattern Recognition, Science and Engineering Calculation Methods

Cont

No.	Name	Academic Title	Educational Background	Research Areas	Courses
17	Zhang Fan	Associate Professor	Master	Computer control	Automatic Control Theory, Basis of Electrical Machinery and Drag
18	Lei Youcheng	Associate Professor	Master	Embedded system	Microcomputer Principle and Applications, Embedded System and Applications
19	Ge Zhaoyan	Associate Professor	Doctor	Automatic control system and intelligent detection technology	Application of Programmable Logic Control Technology, Basis of Software Technology
20	Qu Liang	Associate Professor	Master	Automatic control and computer applications	Basis of Software Technology, Control System Simulation Technology
21	Li Mengqiu	Associate Professor	Doctor	Electrical automation, Power electronic technology	Motion Control System, Basis of Power Electronic Technology, Digital Signal Processing and Applications
22	Yuan Xiaofang	Associate Professor	Doctor	Automatic control	Computer Control Technology, Science and Engineering Calculation Methods, System Identification
23	Liu Min	Associate Professor	Doctor	Biological image processing	Science and Engineering Calculation Methods
24	Liang Qiaokang	Associate Professor	Doctor	Automatic Control System and Intelligent Detection Technology	Basis of Software Technique, Introduction to Systems Engineering
25	Chen Jieping	Lecturer	Master	Electrical control, System identification	Digital Signal Processing Technology, Science and Engineering Calculation Methods, Digital Signal Processor and Applications
26	Wang Ya	Lecturer	Master	Automatic control and computer applications	Programmable Logic Control Technology and Applications, Microcomputer Theory and Applications
27	Wang Shi	Lecturer	Doctor	Robotic technology	Robotics and robot Control, System Identification
28	Ling Zhigang	Lecturer	Doctor	Visual information processing	Digital Image Processing
29	Zhang Zhenjun	Lecturer	Doctor	Nonlinear control theory	Science and engineering calculation Methods, system identification
30	Li Huali	Lecturer	Doctor	Image processing	Signal Processing
31	Lu Xiaoqing	Lecturer	Doctor	Nonlinear system optimization	Automatic Control Theory
32	Tan Shaolin	Lecturer	Doctor	Complex systems	Automatic Control Theory, Electronic Technology
33	Zheng Yan	Lecturer	Doctor	Complex systems	Self Adaptive Control

VII. Course Scheduler

No.	Name	Academic Title	Educational Background	Research Areas	Courses
1	Zhang Xiaogang	Professor	Doctor	Complex system control and pattern recognition	Automatic Control Theory, Data Mining Technology

(翻译人:刘敏、郑燕)