

11. 电气工程 Electric Engineering

Course Category 课程类别		Course title 课程名称	Credit 学分	Term 学期	School by which Courses opened 开课学院	Remark 备注	
Degree Courses 学位课	Compulsory Subjects for All Students 公共必修	Overview of China 中国文化概论	3	1	Overseas Education College 海外教育学院	Compulsory 必修	
		Chinese 汉语	4	1, 2	Overseas Education College 海外教育学院		
	Fundamental Theories 基础理论	Numerical Analysis 数值分析	2	1	Faculty of Science 理学院		
		Matrix 矩阵论	2	1	Faculty of Science 理学院		
		Engineering electromagnetism and calculation 工程电磁场计算	3	1	School of Electrical and Information Engineering 电气信息工程学院		
		Modern Power Electronic Theory and Technology 现代电力电子技术	3	1	School of Electrical and Information Engineering 电气信息工程学院		
	Professional Foundation or Specialized Courses 专业基础	Motor design and analysis 电机设计与分析	3	2	School of Electrical and Information Engineering 电气信息工程学院		Choose at least two 至少选 2 门
		Digital control technology in motor 电机数字控制技术	3	2	School of Electrical and Information Engineering 电气信息工程学院		
		Power system analysis 电力系统分析	3	2	School of Electrical and Information Engineering 电气信息工程学院		
	Specialized Elective Courses 专业选修课	Bearing less Motor Theory and its applications 无轴承电机控制理论及其应用	2	2	School of Electrical and Information Engineering 电气信息工程学院		Choose at least two 至少选 2 门
System modeling, simulation and optimization 系统建模仿真与优化		2	2	School of Electrical and Information Engineering 电气信息工程学院			

		Topics on electrical engineering 电气工程概论	2	2	School of Electrical and Information Engineering 电气信息工程学院	
		Electric drive and control 电机驱动与控制	2	2	School of Electrical and Information Engineering 电气信息工程学院	
Selective for All 公共选修课	Research and Information Literacy I 研究及信息素养 I	Literature Retrieval & Utilization 文献检索	1	1	Graduate School Overseas Education College 研究生院 海外教育学院	Selective 任选
		Paper writing 论文写作	1	2		
	Research and Information Literacy II 研究及信息素养 II	Patent application 专利申请	1	2		
Practical Procedure 实践环节		Special Practice 专业实践	2	2	School of Electrical and Information Engineering 电气信息工程学院	
Scientific Frontiers & Symposiums 学术前沿及学术交流			1	1, 2		
Supplementary Courses 补修课程		Motor and drive technology 电机驱动技术	2	2	School of Electrical and Information Engineering 电气信息工程学院	Two for Trans-disciplinary students 跨专业补修 2 门
		Power Electronics Technology 电力电子技术	2	2	School of Electrical and Information Engineering 电气信息工程学院	
		Power system and its automation 电力系统自动化	2	2	School of Electrical and Information Engineering 电气信息工程学院	