	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
			The Ideological and Moral Cultivation and Legal Basis	Compulsor y	3	1	1	School of Marxism
			Conspectus of Chinese Modern History	Compulsor y	2		2	School of Marxism
	Politics Foreign language	Compulso ry 14 credits	The Basic Principles of Marxism	Compulsor y	3	1	3	School of Marxism
		Cicuits	Introduction to Mao Zedong Thought and Theories of Socialism with Chinese Characteristics I	Compulsor y	3	1	5	School of Marxism
			Introduction to Mao Zedong Thought and Theories of Socialism with Chinese Characteristics II	Compulsor y	3	1	6	School of Marxism
		Compulso	English I	Compulsor y	3		1	School of Foreign Languag es
General Educatio n Courses 41 credits		6 credits	English II	Compulsor y	3		2	School of Foreign Languag es
		electives 4 credits	Academic English	Electives	2		3	School of Foreign Languag es

Course	Гуре	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
		Advanced English B	Electives	2		3	School of Foreign Languag es
		Thinking and Academic Skills-Audio, Visual and Oral English	Electives	2		3	School of Foreign Languag es
		Workplace English	Electives	2		4	School of Foreign Languag es
		Communication and Culture-Audio, Visual and Oral English	Electives	2		4	School of Foreign Languag es
Milita	237	Military Theory	Compulsor	2	1	1	Military Departm ent
iviiita	3 credits	Military Skills Training	Compulsor y	1	1	1	Military Departm ent
Physic Educat		Physical Education I	Compulsor y	1		1	P.E. Departm ent
	credits	Physical Education II	Compulsor	1		2	P.E.

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
				у				Departm ent
			Physical Education III	Compulsor y	1		3	P.E. Departm ent
			Physical Education IV	Compulsor y	1		4	P.E. Departm ent
		Compulso ry	Social Science and Ethical Responsibility	Compulsor y	2			
		4 credits	Ecology Environment and Life Care	Compulsor y	2			
	Transportation		Artistic Experience and Aesthetic Cultivation	Electives	I imit the course	the course	Every semester	
			4	Historical Cultural and Human Feelings	Electives	of a	t least 2	schiester
				Philosophical Wisdom and Critical Thinking	Electives	modules to 4		
			Transportation Engineering and Innovation	Electives	credits	realts		
	Orientation	Compulso ry 2 credits	Freshman Seminar	Compulsor y	2		1	School of Electrica 1 Engineer ing
	Computer	Compulso ry 5 credits	University Computer Foundation A	Compulsor y	1	0.5	1	School of Informati on Science
			Fundamentals of Computer Programming A	Compulsor y	4	1.5	2	School of

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
								Informati on Science
			Calculus BI	Compulsor y	5		1	School of Mathema tics
Basic Courses of the Disciplin			Calculus BII	Compulsor	5		2	School of Mathema tics
e	r	Math Compulso ry 19 credits Linear Algebra B	Compulsor y	3		1	School of Mathema tics	
			Complex Functions and Integral Transformations B	Compulsor	3		3	School of Mathema tics
			Probability Theory and Mathematical Statistics B	Compulsor y	3		3	School of Mathema tics
			Fundamentals of Physics AI	Compulsor y	4		2	School of Physics Science
			Fundamentals of Physics AII	Compulsor y	4		3	School of Physics

	Course Type			Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
	D1 '	Compulso							Science
Basic Courses of the Disciplin e	Physics	credits	College Physics	s Experiments AI	Compulsor y	1	1	2	School of Physics Science
			College Physics	s Experiments AII	Compulsor y	1	1	3	School of Physics Science
			Mechanical Drawing B Compulso y	Compulsor y	3	0.5	1	School of Mechani cal Engineer ing	
		Compulso ry 35 credits Electric Circuits AI Electric Circuits AII	Electric Circuits	s AI	Compulsor y	4	0.5	2	School of Electrica 1 Engineer ing
			s AII	Compulsor y	4	0.5	3	School of Electrica 1 Engineer ing	
			Compulsory 3 credits	Analogue Electronic Technology A	Compulsor y	4		3	School of Electrica

г

Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
							I Engineer ing/ Informati on Science
		Analogue Electronic Technology B	Compulsor y	3		3	School of Electrica l Engineer ing/ Informati on Science
	Analogue Elec	tronic Technology Experiments	Compulsor y	1	1	3	School of Electrica 1 Engineer ing/ Informati on Science
	Compulsory 3 credits	Digital Electronic Technology A	Compulsor y	4		4	School of Electrica 1 Engineer ing/ Informati

Course Type	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
						on Science
	Digital Electronic Technology B	Compulsor y	3		4	School of Electrica 1 Engineer ing/ Informati on Science
	Digital Electronic Technology Experiments	Compulsor y	1	1	4	School of Electrica l Engineer ing/ Informati on Science
	Signals and Systems	Compulsor y	3	0.25	4	electrical
	Engineering Electromagnetic Fields	Compulsor y	3		4	electrical
	Principles of Automatic Control	Compulsor	4	0.5	5	electrical
	Principles of Micro-Computer	Compulsor y 必修	4	0.5	5	electrical
	Electrical Measurement Technology	Compulsor y 必修	2	0.25	6	electrical

	Course Type		Course Name		Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
			Introduction to Electrical Engineering		Compulsor y 必修	2		4	electrical
	Specialized basic course		Engineering Mechanics C		Compulsor	3		5	School of Mechani cs
		Group I. 18 credits Group 2	Devem Electronica	Group I/II	Compulsor y	4	0.5	6	School of Electrica 1 Engineer ing
			p I. edits p 2 edits p 3	Group III/IV	Compulsor y	4	0.5	5	School of Electrica 1 Engineer ing
		21 credits	Electrical Machinery B		Compulsor y	4		4	School of Electrica 1 Engineer ing
			Electrical Machinery B Experiments		Compulsor y	1	1	4	School of Electrica 1 Engineer ing

Course Type	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
	Electrical Machinery AI	Compulsor y	4		4	School of Electrica 1 Engineer ing
	Electrical Machinery AI Experiments	Compulsor y	1	1	4	School of Electrica 1 Engineer ing
	Electrical Machinery AII Experiments	Compulsor y	3	0.5	5	School of Electrica 1 Engineer ing
	Power System Analysis A	Compulsor y	4	0.5	5	School of Electrica 1 Engineer ing
	Power System Analysis B	Compulsor y	2		6	School of Electrica 1 Engineer ing

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
			Computer Networks and Communication	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
			High Voltage Technology	Compulsor	0.25	5	School of Electrica 1 Engineer ing	
Specialty	Group I Power supply and	Compulso	Power System Protective Relaying		3	0.5	6	School of Electrica 1 Engineer ing
	automation of rail transit	utomation of 20 aradita	Engineering of Overhead Contact System	Compulsor y	3	0.25	6	School of Electrica 1 Engineer ing
			Power Supply System	Compulsor y	3	0.25	6	School of Electrica 1 Engineer ing

Course Type	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
	Remote Supervisory and Control Technology	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
	Power Supply and Substation Techniques	Compulsor y	2		6	School of Electrica 1 Engineer ing
	Design Project of Overhead Contact Line System Engineering	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
	Design Project of Power System Protective Relaying	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
	Design Project of Remote Supervisory and Control	Compulsor y	1	1	7	School of Electrica 1 Engineer ing

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
			Design Project of Power Supply and Substation Techniques	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
Specialty		Integra	Integration of Four Power Sub-system for High Speed Railways	Electives	2		7	School of Electrica 1 Engineer ing
		Electives	Condition Monitoring for Electric Equipment	Electives	2	0.25	7	School of Electrica 1 Engineer ing
		2 credits	Microcomputer-based Relay and Substation Automation System	Electives	2		7	School of Electrica 1 Engineer ing
			Overvoltage Protection and Insulation Coordination of Power System	Electives	2	0.25	7	School of Electrica 1 Engineer ing

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
			Power Quality Analysis and Control of Rail Transit System	Electives	2		7	School of Electrica 1 Engineer ing
			Technology for High Voltage Electrical Apparatus	Electives	2		7	School of Electrica 1 Engineer ing
			Maintenance for Overhead Contact Line System	Electives	2		7	School of Electrica 1 Engineer ing
	Group II Power system and automation	wer system ry 15	High Voltage Technology	Compulsor y	3	0.25	5	School of Electrica 1 Engineer ing
			Power System Protective Relaying	Compulsor y	3	0.5	6	School of Electrica 1 Engineer ing

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
Specialty			Electrical Parts of Power Plant	Compulsor y	3	0.5	6	School of Electrica 1 Engineer ing
			Power System Transient Analysis	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
			Design Project of Primary System	Compulsor y	2	2	7	School of Electrica 1 Engineer ing
			Design Project of Secondary Power System	Compulsor y	2	2	7	School of Electrica 1 Engineer ing
		Electives 5 credits	Remote Supervisory and Control Technology	Electives	2	0.25	6	School of Electrica 1 Engineer ing

	Course Type	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
		Application of Power Electronics in Power System	Electives	2		6	School of Electrica l Engineer ing
		Microcomputer-based Relay and Substation Automation System	Electives	2		7	electrical
		Condition Monitoring for Electric Equipment	Electives	2	0.25	7	School of Electrica 1 Engineer ing
Specialty		Distribution Network Automation	Electives	2		7	School of Electrica 1 Engineer ing
		Overvoltage Protection and Insulation Coordination of Power System	Electives	2	0.25	7	School of Electrica 1 Engineer ing
		Power System Automatic Device	Electives	2		7	School of Electrica l Engineer

Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
							ing
		Wind Turbine and Photovoltaic Power Generation Systems	Electives	2		7	School of Electrica 1 Engineer ing
		Smart Grid Practice	Electives	1	1	7	School of Electrica 1 Engineer ing
	Power ctronics Compulso ry 15 Electrical credits	Modern AC Speed Regulating System	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
Group III Power Electronics and Electrical Drive Control		Power Electronic Equipment and Its Control	Compulsor y	2		6	School of Electrica 1 Engineer ing
		Traction Motor and Electric Appliance	Compulsor y	2	0.25	6	School of Electrica l Engineer

Course Type	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
						ing
	Electric Traction Drive and Control	Compulsor y	2	0.25	7	School of Electrica I Engineer ing
	Train Control Network and Monitoring	Compulsor y	2	0.25	7	School of Electrica 1 Engineer ing
	Computer Aided Motor Design and Experiments	Compulsor y	2	2	6	School of Electrica 1 Engineer ing
	Design Project of Electric Traction System	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
	Power Electronics and Electrical Drive Systems Design and Experiments	Compulsor y	2	2	7	School of Electrica 1 Engineer

Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
							ing
		Measurement Technique and Fault Diagnosis	Electives	2		6	School of Electrica 1 Engineer ing
	Electives	Computer Control Systems	Electives	2		6	School of Electrica 1 Engineer ing
	4 credits	Wind Turbine and Photovoltaic Power Generation Systems	Electives	2		6	School of Electrica 1 Engineer ing
		Modeling and Simulation of Power Electronics Systems	Electives	2		6	School of Electrica 1 Engineer ing
Group IV Urban Rail Transit and Maglev Electrification	Compulso ry 17 credits	Power Supply System for Urban Rail Transit	Compulsor y	2	0.25	6	School of Electrica l Engineer

Course	Туре	Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
							ing
		Electromagnetic Suspension and Linear Drive	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
		Traction Motor and Electric Appliance	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
		Urban Rail Vehicles Traction Systems and Control Systems	Compulsor y	2	0.25	6	School of Electrica 1 Engineer ing
		Protection and Monitoring of Power Supply System for Urban Rail Transit	Compulsor y	2	0.25	7	School of Electrica 1 Engineer ing
		Urban Rail Train Network and Operation Control	Compulsor y	2	0.25	7	School of Electrica 1 Engineer

Course Typ	e	Course Name		Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
								ing
		Computer Aided Motor Design and Experiments		Compulsor y	2	2	6	School of Electrica 1 Engineer ing
		Power Electronics and Electrical Drive Systems Design and	Experiments	Compulsor y	2	2	7	School of Electrica 1 Engineer ing
		Design Project of Power Supply System for Urban Rail Transit	Cl	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
	Electives 2 credits	Design Project of Maglev Suspension System	Choose one	Compulsor y	1	1	7	School of Electrica 1 Engineer ing
		Power Electronic Equipment and Its Control		Electives	2		6	School of Electrica 1 Engineer

Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
							ing
		Calculation and Analysis of Engineering Electromagnetic Fields	Electives	2		6	School of Electrica 1 Engineer ing
		Measurement Technique and Fault Diagnosis	Electives	2		6	School of Electrica 1 Engineer ing
		Electronic Market Research	Compulsor y	1	1	1	School of Electrica 1 Engineer ing
Specialized experiment and Practice	Compulso ry 8 credits	Engineering Training A	Compulsor y	2	2	1	Engineer ing Training Center
		Electronic Process Practice	Compulsor y	2	2	2	School of Electrica 1 Engineer ing
		Engineering Internship	Compulsor	3	3	3	School

	Course Type		Course Name	Type of Courses	Total Credit s	Practical Credits	Suggested Term	Teaching Departm ent
				у				of Electrica l Engineer ing
Graduati	on Dissertation	Compulso ry 12 credits	Graduation Dissertation	Compulsor y	12	12	8	School of Electrica 1 Engineer ing
Innova	ation Practice	Compulso ry 2 credits	Innovation Practice	Compulsor y	2	2	2-7	School of Electrica 1 Engineer ing