

MEASUREMENT AND CONTROL TECHNOLOGY AND INSTRUMENT

TYPE OF COURSE	NATURE OF COURSE	COURSE NUMBER	COURSE NAME	CREDIT	HOURS	TEST OR ASSESSMENT	HOURS PER WEEK IN 8 TERMS											
							1	2	3	4	5	6	7	8				
REQUIRED COMMON COURSE	COMPULSORY	00100002	Outline of Modern Chinese History	2	36	T	2											
		00200004	Moral Education and Fundamentals of Law	3	54	A	3											
		00100001	An Introduction to Mao Zedong Thoughts, Deng Xiaoping Theory and the Important Thoughts of "Three Representatives"	3.5	72	T			4									
		00100003	Principles of Marxism	3	54	T				3								
		0010006*	College English	20	360	T	5	5	5	5								
		00100*1*	Physical Education	4	144	T	2	2	2	2								
		00100007	Basis of College Computer	2.5	54	A	3											
		00100008	C Language Programming	3	72	T			4									
		00200005	Situation and Policy	2	36	A												
		00200006	Military Course	1	18	A	2											

The common courses total 54.0 credits, and among these the required common courses total 44.0 credits, the elective common course total 10 credits.

REQUIRED BASIC COURSE	COMPULSORY	6110011*	Advanced Mathematics (A)	10	180	T	6	6										
		21204710	Engineering Drawing	2	36	A	2											
		6110112*	College Physics	6	108	T		3	3									
		24102710	Principles of Electric Circuit	4	72	T			4									
		24208410	Experiments of Electric Circuit	0.5	18	A			1									
		61100310	Complex Function & Integral Transformation	3	54	T			3									
		61100520	Linear Algebra	2	36	T			2									
		61201920	Physics Experiment	1	45	A				3								
		24110620	Analogue Electronic	2.5	45	T				3								
		24110620s	Experiments of Analogue Electronic	0.5	18	A				1								
		24110720	Digital Electronics	2.5	45	T				3								
		24110720s	Experiments of Digital Electronics	0.5	18	A				1								
		61100210	Probability and Mathematical Statistics	3	54	T				3								
		24103610	Principles of Auto-Control	4	72	T					4							

The required basic courses total 41.5 credits.

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REQUIRED SPECIALIZED COURSE	COMPULSORY	21116210	Fundamentals of Precision Machinery Design	2	36	T						2			
		24100210	Detection Technology and Sensors	2	36	T						2			
		24100710	Microcomputer Fundamental and Interface Technology	3	54	T						3			
		24105210	Signal Analysis and Processing	2	36	T						2			
		24111310	Error and Data Processing	2	36	T						2			
		24211410	English for Measurement and Control	2	36	A						2			
		24113710	Measurement Control System and Circuit	3	54	T							3		
		24113810	Applied Optics	2.5	45	T							3		
		24205110	Simulation and CAD of Control System	2	36	A							2		
		24110910	Automatic Instruments and Process Control	4	72	T								4	
The required specialized courses total 24.5 credits.															
RESTRICTED ELECTIVE COURSE	ELECTIVE	24213310	Introduction to Measurement&Ctrl Tech&Instrument	1	18	A	2								
		72200220	Information Retrieval and Utilization	1	18	A		2							
		24112810	Electrical Control and PLC(Programmable Logic Controller)	2.5	45	T							3		
		24204510	Autocontrol System for Engine Room	2	36	A							2		
		24209810	Fieldbus Technology	2	36	A							2		
		24211610	Virtual Instrument	2	36	A							2		
		24212910	Software for Engineering Application	2	36	A							2		
		24213610	The Basis of Modern Communication Principles	2	36	A							2		
		21219210	Measurement Techniques of Port Machinery	2	36	A								2	
		24110510	Integrated Logistics Monitoring System	2	36	T								2	
		24205510	DCS (Distributed Control System)	2	36	A								2	
		24205610	Process Inspection and Control System	2	36	T								2	
		24210410	3D Automatic Warehouses	2	36	A								2	
There are 13 restricted elective courses, totaling 24.5 credits, and students must have 16.5 credits out of them.															
Any elective courses total 6.0 credits.															

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							1	2	3	4	5	6	7	8	
PRACTICE	COMPULSORY	74060110	Military Training		2 weeks		√								
		12061030	Metal Craft Practice	1.5	3 weeks				√						
		24063310	Fieldwork	1	2 weeks				√						
		24060510	Course Design of Microcomputer Fundamental and Interface Technology	1	2 weeks						√				
		24063510	Printed Circuit Design & Fabrication	1	2 weeks						√				
		24061320	Course Design of Simulation and CAD of Control System	0.5	1 week							√			
		24063610	Course Design of Measurement Control System and Circuit	0.5	1 week								√		
		24061420	Graduation Project/Thesis(Including Graduation Practice)	9	18 weeks										√
Students must have 3.0 credits from the second classroom.															
SUM				160	2691										