

Control Science and Engineering

Program Code: 0811

1. Program Duration: 4-8 years
2. Required Credits: No less than 14 credits.
3. Curriculum

Course Type	Course Code	Course Name	Credit Hours	Credits	Semesters	Notes
Required course	7000001	Survey of China	36	2	1	
	7000011	Primary Chinese Language	32	2	1	
	6000032	Matrix Theory	48	3	1	
	6051001	Linear System Theory	48	3	2	
Optional course	6051003	Optimal Control	48	3	2	
	6051004	Principles and Skills of Weak Signal Measurement	32	2	1	
	5052020	Principle of Pattern Recognition	32	2	1	
	6051002	Modern Measurement Technology	48	3	2	
	6052001	Advanced Signal Processing	48	3	2	
	6051017	Robust Control Theory	48	3	2	
	6051018	Modern Fault Diagnosis Technology	48	3	2	
	6051019	Stochastic Estimation and Control	32	2	2	
	6051020	Smart Control Theory	32	2	2	

	6051021	Nonlinear Control Theory	32	2	2	
	6072003	Data Mining	32	2	2	
	6000013	Visual-Audio-Oral Practice of English for Postgraduates	16	1	2	select 2 courses
	6000014	Academic English: Reading & Writing	16	1	2	
	6000015	Contrastive Study of English And Chinese & Translation	16	1	2	
	6000016	Cross-Cultural Communication	16	1	2	
	6000017	Appreciation of The Classic Literary Works in English-Speaking Countries	16	1	2	
	6000018	English For Energy	16	1	2	
	6000019	English For Studying Abroad	16	1	2	
	6000034	Stochastic Process	48	3	2	
	6000027	Applied Statistical Methods627	48	3	1	
	7000024	Modern Applied Mathematics	48	3	1	
	6000069	UPC Intensive Curricula	-	≤3	1-6	
	5051001	Automatic Control Principle	80	5	1	
	5051002	Modern Control Theory	32	2	2	
	5052031	Digital Signal Processing	48	3	2	
	6051006	Adaptive Control	32	2	2	
Compulsory part	8050101	Literature Reading and Thesis Proposal	-	1	4	
	8050102	Overseas Academic Exchange and Study & Training	-	1	1-8	