

物联网工程专业培养方案

一、专业代码及专业名称

080905

二、培养目标及规格

(一) 培养目标

(二) 培养规格

1

2

(1)

(2)

(3)

Web

(4)

(5)

(6)

(7)

3

三、专业特色

四、专业核心课程

RFID

ZigBee

五、学制和修业年限

4

3-8

175

六、授予学位

七、课程结构及学分构成

				%	
64%			33	18.8	
			23	13.1	
			56	32.0	
36%	58.7%		37	21.1	
	41.3%		26	15.0	10 4
			175	100	

八、实践性教学环节构成

	35	630		
	1	2		
	1	2		
	6	8		

九、专业指导性教学计划

	51030213	Cultivation of Ethic Thought and Fundamentals of Law	3	64	32	32		32	2	
	51030222	Compendium of Chinese Modern History	2	36	36	36			2	
	51030233	Introduction to Basic Principle of Marxism	3	54	54	54			3	
	51030256	Introduction to Mao Zedong Thought and Socialist Theoretical System with Chinese Characteristics	6	144	72	72		72	4	
	51030272	Political Situation and Policies	2							
	58030011	Mandarin	1	16	16	16			1	
	53030254	^A College English I (A)	4	80	48	48		32	3	
	53030264	^A College English II (A)	4	90	54	54		36	3	
	59030211	College P.E. I	1	32	32	32			2	
	59030221	College P.E. II	1	36	36	36			2	
	59030231	College P.E.III	1	36	36	36			2	
	59030241	College P.E.IV	1	36	36	36			2	
	61030011	National Defense Education and Military Training	1	2						
	69030052	Mental Health Education for College Students	2	32	32	32			2	
	67030021	Career Planning and Employment Guidance for College Students	1	38	18	18		20	1	
			33							
	03030516	^A Advanced Mathematics A	6	96	96	96			6	

	03030524	A Advanced Mathematics A	4	72	72	72			4	
	10510033	Advanced Language Programming	4	96	3	32	64		2+4	
	10510011	Introduction to Computer	1	32	32		32		2	
	10510054	Electronic Circuit	4	64	64	48	16		3+1	
	10510064	Digital Logic	4	72	72	54	18		3+1	
			23							
	10510074	Data Structure	4	72	72	54	18		3+1	
	10510133	Internet of Things Introductory Theory	3	54	54	54			3	
	01010143	Communication Principles	3	72	72	54	18		3+1	
	10510084	Principles of Computer Composition	4	72	72	54	18		3+1	
	10510104	Principles of Computer Network	4	72	72	72			4	
	10510101	Course Design of Principles of Computer Network	1	8				8		
	10510344	Embedded system	3	72	72	36	36		2+2	
	10510341	Course Design of Embedded system	1	8				8		
	10510233	Signals & Systems	3	54	54	36	18		2+1	

				10510023	Discrete Mathematics	3	54	54	54			3	
				10510164	Java Java Programming	4	108	108	36	72		2+4	
				10510153	Principle of Microcomputer & Interface	3	54	54	36	18		2+1	
				10510403	Security Technology of Internet of Things	3	54	54	54			3	
				10510284	Network Application Programming	4	72	72	36	36		2+2	
				01010203	Wireless Sensor Network Technology & Application	3	72	72	36	36		2+2	
				10510183	Database System Design	3	72	72	36	36		2+2	
						23							
				10510263	Internet of Things Data Processing	3	54	54	36	18		2+1	
				10510512	New Technology of Hardware	2	36	36	36			2	
				10510272	Professional English	2	36	36	36			2	
				10510502	New Technology of Software	2	36	36	36			2	

				ZigBee									
			10510353	ZigBee Network Principle & Application	3	72	72	36	36			2+2	
			10510173	Wireless Network & Mobile Technology	2	54	54	36	18			2+1	
					14								
		()	10510383	Mobile Software Development Technology	3	72	72	36	36			2+2	
			10510314	Network Operating System	3	54	54	36	18			2+1	
			10510392	Application System Design for Internet of Things	2	54	54	18	36			1+2	
			10510472	Professional Training	6	8							
						14							
					51								
			53030274	A College English III (A)	4	90	54	54			36	3	
			53030284	A College English IV (A)	4	90	54	54			36	3	
			03030533	A(III) Advanced Mathematics A(III)	4	72	72	72				4	

				10510122	Computer Systems Maintenance Technology	2	54	54	36	18		2+1	
				10510243	Internet of Things Organization Technology	3	72	72	36	36		2+2	
				10510463	Software Engineering	3	54	54	54			3	
				10510252	Internet of Things Systems & Criterion	2	54	54	54			3	
				10510452	Digital Image Processing	2	36	36	36			2	
				01010362	Mobile Human-Computer Interaction Technology	2	36	36	36			2	
				10510372	Logistics Management Information System	2	36	36	36			2	
				10510302	Linux Linux System	2	54	54	36	18		2+1	
				10510332	Electronic Commerce	2	54	54	36	18		2+1	
				10510322	Software Development & Practice	2	54	54	36	18		2+1	
				10510412	New Technology of Internet of Things	2	36	36	36			2	
				10510292	Data Mining	2	36	36	36			2	

			10510432	Cloud Computing	2	36	36	36			2	
			10510442	Artificial Intelligence	2	36	36	36			2	
			10510422	TCP/IP TCP/IP Protocol Analysis	2	36	36	36			2	
					51							

十、专业分学年指导性教学计划

			Cultivation of Ethic Thought and Fundamentals of Law	3	2	32	32
			^A College English I (A)	4	3	48	32
			College P.E. I	1	2	32	
			Mental Health Education for College Students	2	2	32	
			National Defense Education and Military Training	1	2	2	
			Political Situation and Policies	2			2
			Mandarin	1	1	16	
			^A Advanced Mathematics A	6	6	96	
			Introduction to Computer	1	2	32	
			Advanced Language Programming	4	2+4	96	
			Electronic Circuit	4	3+1	64	
				29			
			Compendium of Chinese Modern History	2	2	36	
			^A College English II (A)	4	3	54	36
			College P.E. II	1	2	36	
			Political Situation and Policies	2			2
			^A Advanced Mathematics A	4	4	72	
				4	3+1	72	

		Digital Logic					
		Internet of Things Introductory Theory	3	3	54		
		Data Structure	4	3+1	72		
		Signals & System	3	3	54		
		Professional Probation	1		2		
		Discrete Mathematics	3	3	54		
		B College Physics B	3	3	54		
		Computer Systems Maintenance Technology	2	2+1	54		
			36				

			Introduction to Basic Principle of Marxism	3	3	54	
			III College P.E.III	1	2	36	
			Political Situation and Policies	2			2
			Communication Principles	3	3+1	72	
			Principles of the Database	3	3	54	
			Principles of Computer Composition	4	3+1	72	
			Principles of Computer Network	4	4	72	
			Course Design of Principles of Computer Network	1	8		
			Java Java Programming	4	2+4	108	
			Wireless Network & Mobile Technology	2	2+1	54	
			A College English III (A)	4	3	54	36
			B Experiment of College Physics B	1	2	36	
			A Advanced Mathematics A (III)	4	4	72	
				36			
			Introduction to Mao Zedong Thought and Socialist Theoretical System with Chinese Characteristics	6	4	72	72
			College P.E.IV	1	2	36	
			Political Situation and Policies	2			2
			Embedded System	3	2+2	72	
			Course Design of Embedded System	1	8		
			ZigBee ZigBee Network Principle & Application	3	2+2	72	
			Principle of Microcomputer &	3	2+1	54	

			Interface					
			Network Application Programming	4	2+2	72		
		A	College English IV (A)	4	3	54	36	
			Probability Theory & Mathematical Statistics	3	3	54		
			Artificial Intelligence	2	2	36		
			Internet of Things Organization Technology	3	2+2	72		
			Internet of Things System & Criterion	2	3	54		
				37				

			Political Situation and Policies	2				2
				3	3	54		

		Operating System					
		RFID RFID Technology & Application	3	2+2	72		
		RFID Course Design of RFID Technology & Application	1		8 周		
		Wireless Sensor Network Technology & Application	3	2+2	72		
		Internet of Things Data Processing	3	2+1	54		
		Network Operating System	3	2+1	54		
		Logistics Management Information System	2	2	36		
		Mobile Human-Computer Interaction Technology	2	2	36		
		Linux Linux System	2	2+1	54		
		Digital Image Processing	2	2	36		
		Data Mining	2	2	36		
			28				
		Political Situation and Policies	2				2
		Career Planning and Employment Guidance for College Students	1	1	18	20	
		Mobile Software Development Technology	3	2+2	72		
		Security Technology of Internet of Things	3	3	54		
		Application System Design for Internet of Things	2	1+2	54		
		Database System Design	3	2+2	72		
		Electronic Commerce	2	2+1	54		
		Software Development & Practice	2	2+1	54		

		TCP/IP TCP/IP Protocol Analysis	2	2	36		
		Cloud Computing	2	2	36		
		Software Engineering	3	3	54		
		New Technology of Internet of Things	2	2	36		
			27				

		Political Situation and Policies	2				2	
		Internship	6			10		
		Graduation Thesis				4		
		Professional English	2	2	36			
		New Technology of Software	2	2	36			
		Profession Training	6		8			
		New Technology of Hardware	2	2	36			
				30				
			Political Situation and Policies	2				2
			Career Planning and Employment Guidance for College Students	1	1	18	20	
		Graduation Design	10		18			
		Practice and Innovation	3					
				16				