

# Academic credits for Information & communication Engineering cooperative Program of National Chin-Yi University of Technology

		1 <sup>st</sup> academic year					2 <sup>nd</sup> academic year					3 <sup>rd</sup> academic year					4 <sup>th</sup> academic year													
		Subjects		First semester		Second semester		Subjects		First semester		Second semester		Subjects		First semester		Second semester												
				Credits	Courses	Internships	Credits			Courses	Internships	Credits	Courses			Internships	Credits	Courses	Internships	Credits	Courses	Internships								
<b>Compulsory</b>		<b>C o m m o n s u b j e c t s ( 3 2 c r e d i t s i n t o t a l )</b>																												
		English Listen and speak (I)	3	3	0			English conversation (I)	2	2	0																			
		English Listen and speak (II)				3	3	0	English conversation (II)				2	2	0															
		Chinese Listening and Reading (I)	3	3	0			Chinese theme reading and writing (I)	2	2	0																			
		Chinese Listening and Reading (II)				3	3	0	Chinese theme reading and writing (II)				2	2	0															
		Chinese Culture and Life (Humanities and Art)	2	2	0			Human rights and the rule of law	2	2	0																			
		Music Appreciation	1	1	0			Art Appreciation	1	1	0																			
		Introduction to Industrial Development	2	2	0																									
		Introduction to Science and Technology				2	2	0																						
		Physical Education (I)	1	2	0																									
		Physical Education (II)				1	2	0																						
		<b>S u b t o t a l</b>	<b>12</b>	<b>13</b>	<b>0</b>	<b>9</b>	<b>10</b>	<b>0</b>	<b>小 計</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>															
		<b>Professional Elective Courses</b>		<b>B a s i c S u b j e c t s ( 6 7 c r e d i t s i n t o t a l )</b>																										
				Calculus I	3	3	0			Electric Circuit Analysis(I)	3	3	0			Microprocessing applications and practice	3	2	2			Industry internship (I)	9	0	18					
				Calculus II				3	3	0	The Experiment of Electronics Circuit (I)	3	2	2		Project study (I)	2	0	6			Industry internship (II)			9	0	18			
Computer program and practice (I)	3			2	2			The Industry Practises (I)	3	1	2			The Industry Practises (III)	3	1	2													
Computer program and practice (II)						3	2	2	Electric Circuit Analysis(II)				3	3	0	The Industry Practises (IV)				3	1	2								
Logical design and practice						3	2	2	The Experiment of Electronics Circuit (II)				3	2	2	Signals and Systems				3	3	0								
									The Industry Practises (II)				3	1	2	Project study (II)				2	0	6								
<b>S u b t o t a l</b>	<b>6</b>			<b>5</b>	<b>2</b>	<b>9</b>	<b>7</b>	<b>4</b>	<b>S u b t o t a l</b>	<b>9</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>6</b>	<b>4</b>	<b>S u b t o t a l</b>	<b>8</b>	<b>3</b>	<b>10</b>	<b>8</b>	<b>4</b>	<b>8</b>	<b>S u b t o t a l</b>	<b>9</b>	<b>0</b>	<b>18</b>	<b>9</b>	<b>0</b>	<b>18</b>	
Credits/Hours of Compulsory Subjects				18	18	2	18	17	4		16	13	4	13	10	4		8	3	10	8	4	8		9	0	18	9	0	18
<b>Business Management Elective Courses</b>																														
										PLC Applications & Experiments	3	2	2			Introduction to Fuel Cells	3	3	0			Electric Machinery Practice	3	2	2					
										Microprocessor	3	3	0			Wireless Sensors Networks	3	3	0			Industrial Distribution Design Practice	3	2	2					
										Introduction to Computer Network	3	3	0			Fundamentals of Sensors	3	3	0			Implementation of Computer Vision	3	2	2					
										Energy Storage technologies				3	3	0	Linux Fundamentals, Applications and Administration	3	3	0			System Analysis & Design	3	3	0				
										Industrial Electronics Experiments	3	2	2			Intelligent Robotics	3	3	0			Application of Big Data	3	3	0					
								Microcontroller Application	3	3	0			Digital Communication	3	3	0			Embedded system design and experiment	3	2	2							
								Algorithms				3	3	0	Mechatronic & Experiments				3	2	2	Lens elements and design	3	3	0					
								C# Programming Language				3	3	0	Graphical computer program and experiment				3	2	2	Fundamental of Innovative Electronic Design	3	3	0					
								Extracurricular Intern I(Summer vacation)	3	0	3			Engineering Optic Applcat				3	3	0	Industrial field communication technology	3	3	0						
														Introduction To RF Circuit Design				3	3	0	Electric Machinery Control and Experiment				3	2	2			
														TRIZ Systematic Innovation Practice				3	2	2	Internet of Things applications and internships				3	2	2			
														Practical Applications of Cloud Computing				3	2	2	Experiments of Power Electronics				3	2	2			
														Extracurricular Intern II (summer vacation)				3	0	3	Android Application Development and Practice				3	2	2			
																				Type of Service System Applications for the Health Care of Elderly				3	3	0				
																		Fuzzy Control				3	3	0						
																		An Introduction to Software Engineering				3	3	0						
																		Introduction to Smart-Living System Design				3	3	0						
																		Database Management System and Laboratory				3	2	2						
<b>Business Management Elective Courses</b>																														
		Customer Relationship Management				3	3	0	Logistics Management	3	3	0			Electronic Commerce	3	3	0												
									Human Resource Management				3	3	0	Production Operations and Management				3	3	0								
							Management Information Systems				3	3	0	Service Industry Management Practices				3	3	0										
<b>Remarks</b>		1. Graduation should be at least 128 credits 【Required courses 99 credits (Include Common subjects 32credits · Basic subjects 67credits) · Elective Courses at least 29 credits】 .																												
		2. Through in equivalent qualifications for university entrance examination, graduation should be at least 140 credits 【Required courses 99 credits (Include Common subjects 32credits · Basic subjects 67credits) · Elective Courses at least 41credits】 .																												
		3. For pass the course of Internship, according to the 【Special Points for Students' Outside Practice Course】 and 【Students outside the school practice points】 .																												