

2021 Industry-Academia Collaboration Program for Indonesian 2-year college Course Map

Chien Hsin University of Science and Technology/Energy and Automation Program

2020.09.25

	First year		Second year		Third year		Fourth year		Skill	Career
	Fisrt semester	Second semester	Fisrt semester	Second semester	Fisrt semester	Second semester	Fisrt semester	Second semester		
General Education	Mandarin(1)	Mandarin(2)							Language	
	English(1)	English(2)								
	Mandarin tutoring(1)	Mandarin tutoring(2)								
Professional courses	Electric Circuits	Electric machinery	Industrial power Distribution	Computer aided power distribution system design and Practicum	Power quality				Industrial wiring	Electrical energy engineer
		Electric machinery practicum	Power systems							
		Computer aided electrical drawing practicum								
		Industrial wiring practicum								
	Electronics	Power electronics	Photovoltaic module encapsulation technology and practice	Renewable energy theory and practice	Photovoltaic system installation and practicum	Photovoltaic system design			Photovoltaic system	
					Power electronics practice					
			Principles of refrigeration and air conditioning	Refrigeration and air conditioning practicum					Refrigeration and air conditioning	

Profession courses			Control systems	Motor control practicum		Automatic measurement practice			Automatic control	Automation engineer	
			Control system practicum			Computer aided control system design					
			Computer aided electronic circuit design and practicum								
		Computer Programming	Microcontroller application and Practicum	Embedded Systems		Programmable logic control and practicum	GUI program design practice				Programmable Control
			Programmable logic control application and practice								
									Mechatronics		
					Robot control Practicum	Servo control systems					
					IOT system integration and application	Mechatronics practicum					

General Education	Profession Core	Profession Elective
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