■ 課程名稱:(1131)可程式控制原理應用與實習(4065)_四生機三A(1131)Theory and Application of

PLC and Lab(4065) 授課教師:蔡循恒

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開課班級: 四生機三A 授課老師: 蔡循恒 學分數:3

課程大綱:

The objective of this course is to introduce the sequential controllers most commonly used in the industry today, which are known for their precision, functionality, low cost, high-temperature resistance, and scalability. The course content includes an introduction to the controller's hardware and software, as well as programming. It also trains students in the practical operation of programmable logic controllers (PLCs) and develops foundational skills in mechatronic integration.

outline:

The purpose of this course is to introduce the most-used programmable controller (PLC) in industries. The advantages of PLC are precision, easy use, anti-hightemp, and easy-expand. The course includes as follow: hardware and software of PLC, programming of PLC, maintaining and installing of PLC.

教學型態: 成績考核方式:

課堂教學+實習 (校內、校外) 平時成績:40% 期中考:30%

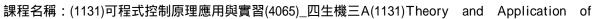
期中考:30% 期末考:30% 其它:%

本科目教學目標:

Science and Engineering: Possess scientific and engineering knowledge, with the ability to apply logical analysis and empirical methods. Practical Skills: Understand the development trends of the bio-industry and the practical design skills required in mechatronic engineering. Lifelong Learning: Able to self-assess and engage in continuous learning. Humanities and Ethics: Have a fundamental understanding of ethics, technology law, compassion, and social contribution. Global Perspective and Communication: Develop engineering skills aligned with international standards.

參考書目:

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課程進度表:

週次	起訖月日	授課單元(內容)	備註
第1週	9.09~9.16	Course Introduction	8日正式上課。8~12日課程加
			退選,轉學(系)生、復學生及
			延修生選課,雙主修、輔系
			申請,12日申辦抵免學分截
なる。田	0.40.000	0	<u> </u>
第2週	9.16~9.23	Control Valve 1	
第3週	9.23~9.30	Control Valve 2	28日(日)孔子誕辰紀念日/教 師節(放假),29日(一)補假
第4週	9.30~10.07	Electrical Control Components 1	29日成績優異提前畢業者提
为中心	9.50~10.07	Liectrical Control Components 1	出申請截止日
第5週	10.07~10.14	Electrical Control Components 2	6日(一)中秋節(放假),10日(
		·	五)國慶日(放假)
第6週	10.14~10.21	Electrical Circuit Diagram	14日學生宿舍安全輔導暨複
			合式防災疏散演練。18日多
			益測驗
第7週	10.21~10.28	Electrical Circuit Design	24日(五)補假,25日(六)光復
			暨古寧頭大捷日(放假)。
第8週		Midterm Exam	30日校課程委員會
第9週		FX2 Programmable Logic Controller (PLC) 1	3~9日期中考試
第10週	11.11~11.18	FX2 Programmable Logic Controller (PLC) 2	13日教務會議,16日教師期中
			成績上網登錄截止日
第11週		FX2 Programmable Logic Controller (PLC) 3	
第12週	11.25~12.02	FX2 Programmable Logic Controller (PLC) 4	24~28體育運動週。24日校園
			路跑。27日運動大會夜間開
			幕,28日運動大會活動,29
			日101週年校慶活動日,照常
佐い田	40.00.40.00	On any contribution of the state of the stat	上班
第13週		Sequential Commands 1	400 中等/克修钿码书 150
第14週		Sequential Commands 2	12日申請停修課程截止日
第15週	12.16~12.23	Basic Circuit 1	00日拉致会举 05日生事47
第16週	12.23~12.30	Basic Circuit 2	22日校務會議。25日行憲紀
第47年	12 20 1 06	Pagia Circuit 2	念日(放假)
第17週	12.30~1.06	Basic Circuit 3	1日(四)開國紀念日(放假)
第18週	1.06~1.13	Final Exam	5~11日期末考試,10~11日
			學生退宿

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