Required Courses of Department of Electrical Engineering Applicable to Students Enrolled in School Year 2022

Subject Category		Course Name	1st Year		2nd Year		3rd Year		4th Year	
							ester			
			1	2	3	4	5	6	7	8
General Education Course	Language Literacy	Critical thinking and expression in Chinese *Choose (I) or (II) in 1st Year and above.	3							
		General English *Choose in 1st Year and above.	3							
		English Proficiency Standard	0							
	Inter-college Electives	Inter-college Electives *Choose in 1st Year and above. *Three credits must take EAP/ESP course.	8							
	Liberal Arts Courses	Liberal Arts Courses *Choose in 2nd Year and above.			13					
	Practical Experience courses	Primer on College Life: A Lecture Series *Take six sessions of lectures approved by Si Wan College before 3rd year.	0							
	courses	Service Learning *Available only for 2nd Year and above.			1					
	Sport & Health courses	Sport & Health courses	1	1	1	1				
		Calculus (I)	3							
		Calculus (II)		3						
		General Physics (I)	3							
		General Physics (II)		3						
		Introduction to Computers	3							
		Design of Digital Systems	3							
		Computer Programming	3							
		Linear Algebra		3						
		Differential Equations		3						
		Circuit Theory (I)		3						

			1st Year		2nd Year		3rd Year		4th Year	
		Course Name					ester			-
	Required Courses		1	2	3	4	5	6	7	8
		Signals and Systems			3					
		Electronics (I)			3					
		Electrical Engineering Lab. (I)			1					
		Circuit Theory (II)			3					
		Electromagnetic Theory (I)			3					
		Electronics (II)				3				
		Electrical Engineering Lab. (II)				1				
Department		Electrical Machines				3				
of Eletrical Engineering Course		Electromagnetic Theory (II)				3				
		Electrical Engineering Lab. (III)					1			
		Control Systems					3			
		Communication Systems					3			
		Electrical Engineering Lab. (IV)						1		
		Electrical Engineering Lab. (V)							1	
		[A]: One of the following subjects must be taken								
		Discrete Mathematics						3		
		Complex Variables					3			
		Probability Theory				3				
		[B]: One of the following subjects must be taken								
		Independent Studies in Electronic Practice						2		
	Required	Independent Studies in Control Practice						2		
	Courses - Core Elective	Independent Studies in Computer Practice						2		
	Courses	Independent Studies in Electric Power Practice						2		

	1st	Year	ear 2nd Year			3rd Year		Year		
Course Name		Semester								
	1	2	3	4	5	6	7	8		
Independent Studies in Wave and Optics Practice						2				
Independent Studies In Communication Practice						2				
Independent Studies in System- on-Chip Design						2				
Independent Studies in Biomedical Signal Processing & Instrumentation						2				
but are not included in the minimu2. Department of Eletrical Engineer3. Department of Eletrical Engineer4. Other elective course: at least 13interested in.5. Core Elective Courses [B]:(1) Students of 2 to 3 form a grouphave regular meeting with their supMinium(2) Depending on the topics of theigraduation132creditscomplete the course.6. Should meet at least one of the fgraduation requirements.(1) International Study: At least onecompletion of at least 2 credits of tprogram at least 36 hours of study)(2) Interdisciplinary Study: A minoror another university, or a micropro-	Instrumentation 1. General Education Course: 28 credits (Sport & Health courses 4 credits are required but are not included in the minimum graduation credits.) 2. Department of Eletrical Engineering - Required Courses: 67 credits 3. Department of Eletrical Engineering - Elective Courses: at least 24 credits 4. Other elective course: at least 13 credits. Students can choose any courses they are interested in. 5. Core Elective Courses [B]: (1) Students of 2 to 3 form a group studying under a professor. The students usually have regular meeting with their supervisor. (2) Depending on the topics of their projects, the students may have either hardware or software oriented tasks to complete in one semester. A project report is required to complete the course. 6. Should meet at least one of the following "International or Interdisciplinary Studies"									