112學年度日間部四技 土環系必修課程變動表

修訂及重補修原則說明						
變動類別(停開、新增、更改課程名稱、學分)	學期變更	登 軍	影塊	登 軍	新增	
學分/時數	3/3	6/6		1/1		
第一學年/學期	石口	日		비		
113學年度科目(前)	施工安全	校外實習		實務專題		
學分/時數	3/3		3/3		1/1	
第 <u>學</u> 年/學 期	干三		크		四上	
113學年度科目(後)	施工安全		營建法規		實務專題	

糸課務委員簽章:

系主任簽章:

副教授廖汝容

院長簽章:

112學年度日間部 土木工程與環境資源管理系 四技課程規劃表

第一學年(112)					第二學年(113)						第三學年(114)							
		上學期 學分 時數		下學期			42	上學期		下學期			41.0	上名	學期	下	學期	
	科目			學分	時數		科目	學分 時數		學分	時數		科目	學分	時數	學分	時數	
校	體育	1	2	1	2		分類通識	2	2	2	2	204						
	分類通識	2	2	2	2	校	分類通識	2	2			校	160					
必	分類通識	2	2	2	2	必	Page 1					必						
修	小計	5	6	5	6	修	小計	4	4	2	2	修	小計	N SHAPE				
	微積分(一)(二)	3	3	3	3		科技英文(三)(四)	2	2	2	2							
	物理(一)(二)	2	2	2	2		工程倫理	2	2		-							
	科技英文(一)(二)	2	2	2	2	院	197 1					院						
2	應用中文(一)(二)	2	2	2	2	必						必		1				
	程式設計	2	2			修						修						
	人工智慧概論			2	2													
	小計	11	11	11	11		小計	4	4	2	2		小計					
	土環專業概論	2	2			de	應用數學	3	3				營建法規	3	3			
	測量與實習	3	3				混凝土配比與實務	3	3				土木施工學	3	3			
	電腦繪圖(一)			3	3		工程力學	3	3				鋼筋混凝土	3	3			
1	土木材料與實驗			3	3	專	工程識圖			3	3	專	土壤力學與實驗	3	3			
*							建築BIM建模			3	3	業	工程估價			3		
4							结構學			3	3	必	營建管理			3		
修						修				- 1		修	基礎工程與實務			3		
													實務專題			1		
													施工安全			3		
	小計	5	5	6	6		小計	9	9	9	9		小計	12	12	13	1	
25							環境工程	3	3	18			工程災害與防治	3	3			
		-		111			電腦繪圖(二)	3	3				職業安全衛生法規	3	3			
							環境生態學	3	3				無人機空拍操作實務	3	3			
	provide a section of	992	2-1	Town	-1,47		永續發展與環境教育	3	3	dia.			BIM應用與管理	3	3	Tel		
	at the Village of AVE	4 500	W-M	1 mag	Wante.		工程测量實務	3	3	4,20	-15576		土環職能實務(一)	2	2			
							水文學	3	3				環境資源規劃	2	2			
	14						地理資訊系統實務			3	3		交通工程	2	2			
							水土保持工程			3	3		工址調查實務			3		
						alti	水污染防治			3	3	di	工程品質管理與實務			3		
事业						專業	生態工程			3	- 3	專	非破壞檢測實務			3		
* "						兼選	環境資源管理			3	3	業選	橋梁工程			3		
野 多						修	景觀設計與實務			2	2	迷修	下水道工程學			3		
3						- 修	專案管理			3	3	19	工程污染防治			3		
													綠建築			3		
													智慧環境監測實務			3		
					-					77177			土壤改良實務			3		
	all conditions are selected.	T STATES	/ELEN	SE 197	A TEN		TOTAL SHEET SHEET	4 (800)	L. S. W.	200 11/2	Police		國土計畫與城鄉規劃		100	- 3		
													工程地質			3		
																	1000	
														-				
																	1	

		年(115)		下	- 料	
	科目	學分	時數	學分	時數	
校						
必						
修	小計					
院						
必						
修	小計					
	實務專題	1	1			
專						
業						
必						
修			70 11			
	小計	1	1	0	0	
	校外實習	9	9	9	9	
	環境影響評估	3	3			
	營造工程規劃設計	3	3			
	山坡地工程	3	3			
專	鋼結構工程	3	3			
業	土環職能實務(二)	2	2			
選	土地資源開發與管理	3	3			
修	工程法律			3	3	
	水資源工程			3	3	
	工程採購與發包			3	3	
	資源再生			3	3	

專業選修課程開設	規劃		
學期	時數		
第一學年第一學期	0		
第一學年第二學期	0		
第二學年第一學期	6		
第二學年第二學期	6		
第三學年第一學期	6		
第三學年第二學期	6		
第四學年第一學期	5		
第四學年第二學期	0		
開課時數總計	29		

科目類別:

共同科目:體育

通識科目:分類通識

專業科目:院必修、專業必修、專業選修

項目	學分	時數
校必修	16	18
院必修	28	28
專業必修	55	55
專業選修	29	29
合計	128	130

注意事項:

- 1. 本校訂有學生基本能力與畢業門檻實施辦法。
- 2. 學生需修習勞作教育(0學分4小時),並於第一學年上下二學期實施。
- 3. 一~三年級每學期應修習16~30學分,四年級每學期應修習9~30學分。
- 4. 最低畢業學分:128 學分;必修學分:99學分。
- 選修學分:29學分(選修學分含跨系選修學分);惟於本系專業選修學分不得低於17學分。
- 5. 畢業年級相當於國內高級中等學校二年級之國外或香港、澳門同類同級學校畢業生,以同等學歷 修讀本校學士學位者,最低畢業學分:140學分;必修學分:99學分;
 - 選修學分:41學分(選修學分含跨系選修學分),惟於本系專業選修學分不得低於19學分,可延長修業年限三年。
- 6. 學生若修習校外實習課程,相關辦法依「本校土木工程與環境資源管理系學生校外實習教學實施要點」辦理。
- 7. 表列選修課程僅供參考,依實際狀況調整。

副教授廖淑容





MUST Curriculum Planning for Undergraduate Students for Academic Years 2023-2026 Department of Civil Engineering and Environmental Informatics

	1st year(112)		18.7				2 nd year(113))	10.04				3 rd year(114))			
Tell in the			l st rester		2 nd nester	Course			st ester	2 sem				1st semester		2 nd semester	
	Course	Cr.	hr.	Cr.	hr.	15.00	Course	Cr.	hr.	Cr.	hr.		Course	Cr.	hr.	Cr.	hr.
	Physical Education	1	2	1	2	Clas Clas	Classified general Education	2	2	2	2						
	Classified general Education	2	2	2	2		Classified general Education	2	2			A GUICT C					
MUST Core	Classified general Education	2	2	2	2	MUST Core Required						MUST Core Required					
Required Courses		Courses Courses															
	Subtotal	5	6	5	6		Subtotal	4	4	2	2		Subtotal	0	0	0	0
	Calculus(I)(II)	3	3	3	3		Technical English(III)(IV)	2 2 2 2				-					
	Physics(I)(II)	2	2	2	2		Ethics for Engineers	2	2								
	Technical English(I)(II)	2	2	2	2		20000										
School	Applied Chinese(I)(II)	2	2	2	2	School						School					
Professional	Introduction to Computers			-	-	Professional						Professional					
Required	and Programmine	2	2			Required						Required					_
Courses	Introduction to artificial intelligence			2	2	Courses	Courses										
	Subtotal	11	11	11	11		Subtotal	4	4	2	2		Subtotal	0	0	0	0
		11-	11	-11	- 11		Applied Mathematics	3	3	SACSE WHO	-		Construction Laws	3	3		
	Introduction to Civil Engineering & Environment and Resources	2	2				Concrete Mix Design	3	3		-		Civil Engineering Construction	3	3		_
	General Surveying & Lab	3	3		_		Engineering Mechanics	3	3		-		Reinforced Concrete	3	3		_
	Computer Aided Drafting(I)	3	3	3	3		Illustration of Engineering Drawings	0	0	3	3		Soil Mechanics & Lab	3	3		\vdash
Department	Civil Engineering Materials & Practice			3	3	Department	Practice and Concept of BIM		-	3	3	Department	ConstructionCost Estimating			3	
compulsory	Civil Engineering Materials & Practice		-	3	3	compulsory	Structure Analysis			3	3	compulsory	Construction Management	_	-	3	
courses						courses	Structure Analysis		-			courses	Foundation Engineering & Practice			3	
			-		-								Special Topic Projects			1	
			_	<u> </u>						-			Construction Safety Measures			3	
	Subtotal	5	5	6	6	Tellis to	Subtotal	9	9	9	9		Subtotal	10	10	10	1
	Subtotal			0			Environmental Engineering	3	3	SURPLE AND IN			Natural Hazard Mitigation	3	3		
							Computer Aided Drafting(II)	3	3				Occupational Safety and Health Regulations	3	3		
							Environmental Ecology	3	3				UAV Operation Pratice	3	3		
							Sustainable Development and Environmental Education	3	3				Application and Management of BIM	3	3		
							Engineering Surveying Practice	3	3				Engineering Pratical Training (I)	2	2		
							Hydrology	3	3				Environmental and Resources Management	2	2		
		The T				D	Geographic Information System			3	3		Traffic Engineering	2	2	713	
Department Elective	Person Particle No. 1	Light 1		25.77	a residence	Department Elective	Water and Soil Conservation Engineering	1000	(Same	3	3	Department	Construction Site Investigation	- 1		3	7
Courses						Courses	Water Pollution Control	21		3	3	Elective	Engineering Quality Management	-		3	-11
Courses						Courses	Ecologycal Engineering			3	3	Courses	Practice of Non-destructive Testing			3	
			-				Environmental and Resources Management			2	2	Courses	Bridge Engineering			3	
							Landscape Design & Pratice			2	2		Sewer Engineering			3	
							Practical project management			3	3		Engineering Pollution Control		-	3	
													Sustainable Building			3	
				-									Practice of Intelligent Environmental Monitoring			3	
			-	-					-				Practice of Soil Improvement			3	
		_											National land use plen and urban-rural planning			3	
	4 th year(115)		-		311	1							Engineering Geology	-	-	3	

	4 th year(115)				
	Course	1 sem	st ester	2 seme	^{ad} ester
	Course		hr.	Cr.	hr.
MUST Core					
Required			17 19	11/2	I (m
Courses	Subtotal	0	0	0	0
School Professional					
Required Courses	Subtotal	0	0	0	0
	Special Topic Projects	1	1		
Department compulsory courses					
	Subtotal	0	0	9	9
	Off-Campus Practice Training	9	9	9	9
	Environmental Impact Assessmen	3	3		
	Construction Planning and Design	3	3		-
	Sloped Land Engineering	3	3		
Department	Steel Stucture Construction	3	3		
Elective Courses	Engineering Practical Training	2	2		
	Land resource development and managem	3	3		
	Engineering Law			3	3
	Water Resource Engineering			3	3
	Project Procurement & Contract Award			3	3
	Greenhouse Gas Evalution			3	3

Cr./hr.=Credit/hour

Remarks:

- 1. According to university regulations, students are required to meet the graduation requirement of basic language proficiency and professional skills.
- 2. Students shall take 4 hours Service Education courses (0 credits) in the first and second semester of the first academic year.
- 3. In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the 4th year.
- 4. Minimum credits required for graduation: 128 credits including 99 compulsory credits, and at least 29 elective credits
- (interdepartmental credits are included), while elective professional course credits shall not be fewer than 17.
- 5. Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent of the second year of high school study of the ROC's high school sophomore level, or with a high school equivalent degree, need to take 140 credits including 99 compulsory credits, and at least 41 elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer than 19 . The program can be extended up to 3 academic years.

6.Students should take off-campus internship courses, and the relevant measures are handled in accordance with the Implementation of Off-campus Internship

Teaching for Students in the Department of Civil Engineering and Environmental Informatics ".

7. Elective courses are subject to change if necessary.





