中信科技大學 四年制 機械工程系 日間部 課程規劃表(適用111學年度入學) CTBC University of Science and Technology Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program-Day Division (Effective from Fall 2022)

		for Four-Year Bachelor's Degree	_	•						
				學年		學年	•	學年		學年
		创 口 为 绝		ool year 卜学期		ool year 卜学期		ool year 卜学期	4th scho	ool year 卜学期
		科 目 名 稱 Subject	上學期 1st semester	2nd						
		Subject		學分 時數	學分 時數	eamactar 學分 時數		學分 時數		學分 時數
			學分 時數 Credits Hours	学分 时数 Credits Hours						
		國文(1)(2)	0/0	0 / 0	,	1	,	,	,	
		Chinese (1) (2)	2/2	2/2						
		英文聽力與閱讀(1)(2)	2/2	2/ 2						
	通識	English Listening and Reading(1)(2)	2/ 2	2/ 2						
	基礎	體育(1)(2)(3)(4)	2/2	2/2	2/2	2/2				
	必修	Physical Education(1)(2)(3)(4)	L/ L	<i>L</i> / <i>L</i>	<i>L</i> / <i>L</i>	2/ 2				
	Required General	服務教育與大學社會責任(1)(2)								
	Education	Service Education and University Social	0/1	0/1						
	Courses	Responsibility (1)(2)								
		英文閱讀與寫作 English Pooding and Writing			2/2					
		English Reading and Writing 小 計Subtotal	6/7	6/7	4/4	2/ 2	0/0	0/0	0/0	0/ 0
		創意思考與AI智慧生活	0/ 1	0/ 1	4/4	<i>L</i> / <i>L</i>	0/ 0	0/ 0	0/ 0	0/ 0
		創意思考與AI智慧生店 Creative Thinking and AI Smart Living		2/2						
校訂		Creative Tilliking and At Smart Living 倫理與品格								
課程 Stipulated		海连典 四格 Ethics and Character Education			2/2					
Courses	通識博	科學與自然、人文與社會								
	雅必修	Science and Nature, Humanities and				2/2	2/2	2/2		
	Required Liberal Arts Courses	Social Sciences								
		創意實作								2/ 2
		Innovations and Implementations								2/ 2
		公民教育								2/2
		Citizenship Education								
		小 計Subtotal	0/0	2/2	2/2	2/2	2/2	2/2	0/0	4/4
	一般	全民國防教育軍事訓練(1)(2)(3)(4)	0 / 0	0 / 0	0 / 0	0 / 0				
	選修	National Defense Education and	2/2	2/2	2/2	2/2				
	受 lo General	Military Training (1)(2)(3)(4) 健康與護理(1)(2)(3)(4)								
	Elective	性家 英 邊 生 (1)(2)(3)(4) Health and Nursing(1)(2)(3)(4)	2/2	2/2	2/2	2/2				
	Courses	小 計Subtotal	4/4	4/4	4/4	4/4	0/0	0/0	0/0	0/0
		微積分		1/ 1	1/ 1	4/ 4	07 0	07 0	07 0	07 0
		Calculus	3/3							
		物理	2 / 2							
	院必修	Physics	3/3							
	課程	電腦軟體應用		2/ 2						
	Required	Computer Software Application		2/ 2						
	College	職場倫理		2/2						
	Courses	Employment Ethics		<i>D, D</i>						
		簡報製作與表達				2/2				
		Presentation and Communication Skills	0 / 0	4 / 4	0 / 0	2 / 2	0 / 0	0 / 0	0 / 0	0 / 0
		小計Subtotal	6/6	4/4	0/0	2/2	0/0	0/0	0/0	0/0
		工程概論	1/ 1							
		Introduction of Engineering 圖學與電腦繪圖								
		回字與电脑褶圆 Graphics and Computer Graphics	3/3							
		機械製造								
		Manufacturing Engineering		2/2						
		程式設計		9 / 9						
專業必		Programming Design		3/3						
等 未必 修課程		數控工具機與實習								
Profess		Computer Numerical Control Machine			3/3					
ional		Tools and Practice								

中信科技大學 四年制 機械工程系 日間部 課程規劃表(適用111學年度入學) CTBC University of Science and Technology Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program-Day Division (Effective from Fall 2022)

	Tot I out I out Buchelot & Begiee								第四學年				
				學年		學年		學年					
				ool year		ool year		ool year	4th school year				
科 目 名 稱			上學期	ト学期 2nd	上學期	ト学期 2nd	上學期	ト学期 2nd	上學期	ト学期 2nd			
		Subject	1st semester	comester	1st semester	comester	1st semester	competer	1st semester	2110 competer			
			學分 時數	學分 時數	學分 時數	學分 時數	學分 時數	學分 時數	學分 時數				
юпат			Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours			
Required		工程力學與實驗			3/3								
Courses		Engineering Mechanics and Experiment			ე/ ე								
		可程式控制實習			2 / 2								
	系必修	Programmable Logic Controller Practice			3/3								
	課程	機械材料與實驗											
	Required	Mechanical Material and Test				3/3							
	Department Courses	感測器原理與應用											
	Courses	Application and Theory of Sensor				3/3							
		機械設計											
		校					3/3						
		熱流概論與實驗											
		Introduction to Heat and Fluid and					3/3						
		Experiment					0/ 0						
		氣液壓學與實習											
		Introduction and Practice of Pneumatics					3/3						
		and Hydraulics					0, 0						
		實務專題(1)(2)											
		Project(1)(2)					1/3	1/3					
		機電整合實習						3/3					
		Practice of Mechatronic											
		小 計Subtotal	4/4	5/5	9/9	6/6	10/12	4/6	0/0	0/0			
		工廠實習	9/9										
	術與維	Factory Practice	3/3										
		電腦輔助立體製圖		2 / 2									
		Computer-Aided 3D Drawing		3/3									
		精密量測與實習											
					3/3								
		Theory and Practice of Precision			ე/ ე								
		Measurement											
		熱處理與實習				2/2							
	造 跃在	Heat Treatment and Practice				<i>D</i> / <i>D</i>							
	模組 Manufacturing Technology	冷凍空調原理與實務											
		Principle and Practice of Refrigeration					3/3						
	and Maintenance	and Air Conditioning											
	Course	去从治人上一字功											
	Module	車銑複合加工實務						3/3					
		Milling and Turning Compound Processing											
		電腦輔助製造							9/9				
		Computer Aided Manufacturing							3/3				
		模具設計實務								0/0			
		Mold Design Practice								3/3			
		小 計Subtotal	3/ 3	3/ 3	3/3	2/ 2	3/3	3/3	3/3	3/3			
	自動化	電工學與實習											
		Electric Machinery and Practice	3/3										
		數位邏輯與實習											
		数位 選 料 央 頁 首 Digital Logic Design and Practice			3/3								
	Practice												
	Course	自動控制與實習				3/3							
	Module	Automatic Control and Experiment											
		微控器應用與實習					3/3						
		Microcontroller Application and Practice											
		氣壓順序控制與實習						0.4.6					
		Pneumatic Sequential Control and Practice						3/3					

中信科技大學 四年制 機械工程系 日間部 課程規劃表(適用111學年度入學) CTBC University of Science and Technology Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program-Day Division (Effective from Fall 2022)

第一學年 第二學年 第三學年 第三學年 第四學年													
				• .									
		1 D D 10		ool year 卜学期	2nd sch	ooi year 卜学期		ool year 卜学期		ool year ト学期			
		科目名稱	上學期	2nd	上學期	2nd	上學期	2nd	上學期	2nd			
		Subject	1st semester	samestar	1st semester	comester	1st semester	camestar	1st semester	competer			
			學分 時數	學分 時數	學分 時數	學分 時數	學分 時數	學分 時數	學分 時數	學分 時數			
		r	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours			
		智慧生活應用與實習						3/3					
		Application and Practice of Smart life						0/ 0					
		安全控制應用實習						9/9					
		Practice of Safety Control Application						3/3					
		電腦監控應用與實習							0 / 0				
系專		PC-Based Control Application and Practice							3/3				
業選		機器人應用與實習							0 / 0				
修		Application and Practice of Manipulator							3/3				
		工業影像檢測與實習											
課程 Professional		Practice of Industrial Image Inspection								3/3			
Elective		小 計Subtotal	3/ 3	0/ 0	3/3	3/ 3	3/ 3	9/9	6/6	3/ 3			
Courses			0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	J/ J	0/ 0	0/ 0			
		工程力學		3/3									
		Engineering Mechanics											
		機構學			2/2								
		Mechanism			<i>L</i> / <i>L</i>								
		工程數學			2/2								
		Engineering Mathematics			Z/ Z								
		工程材料			0 / 0								
		Engineering Materials			3/3								
		熟力學											
		Thermodynamics			3/3								
		動力學											
		助ガ字 Dynamics				2/2							
		ř											
		創意性機構設計與實習					3/3						
		Creative Mechanism Design and Practice											
		半導體製程					3/3						
		Semiconductor Process											
		材料力學						2/2					
	其他	Mechanics of Materials						<i>L</i> / <i>L</i>					
	Others	能源工程						3/3					
		Energy Engineering						ე/ ე					
		材料機械性質							0 / 0				
		Mechanical Property of Materials							2/2				
		模流分析實務											
		Molding Flow Analysis and Practice							3/3				
		學期校外實習											
		Off-Campus Internship							9/				
		專利與工程創新											
		予刊與工程制制 Patents and Engineering Innovation								2/2			
		產業校外實習 Off Communa Industrial Intermedia								9/			
		Off-Campus Industrial Internship											
		電腦輔助工程分析								3/3			
		Computer-Aided Engineering Analysis											
		射出成型實務								2 : 2			
		Injection Molding Technology and								3/3			
		Practice											
		小 計Subtotal	0/0	0/0	2/2	2/2	6/6	5/5	14/5	17/8			
擬開最低	選修學分												
	Minimum	合 計Total	3/ 3	2/2	4/4	7/ 7	6/6	10/ 10	9/9	5/5			
Elective	Credits												

中信科技大學 四年制 機械工程系 日間部 課程規劃表(適用111學年度入學)

CTBC University of Science and Technology Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program-Day Division (Effective from Fall 2022)

	第一學年				第二學年				第三學年				第四學年			
	1st school year				2nd school year				3rd school year				4th school		ol year	
科 目 名 稱 Subject	上學期 1st semester		ト学期 2nd		上學期 1st semester		ト学期 2nd		上學期 1st semester		2nd		上學期 1st semester		ト学期 2nd	
													學分 Credits			

111年05月03日 校課程發展委員會會議通過Amended Date: 2022-05-03

112年02月22日 校課程發展委員會會議修正通過Amended Date: 2023-02-22

112年05月23日 校課程發展委員會會議修正通過Amended Date: 2023-05-23

113年10月04日 校課程發展委員會會議修正通過Amended Date: 2024-10-04

114年01月07日 校課程發展委員會會議修正通過及更改校名Amended Date: 2025-01-07

114年07月08日 校課程發展委員會會議修正通過Amended Date: 2025-07-08

一、畢業總學分至少128學分:

The total number of credits completed to be eligible to graduate shall not be less than 128 credits.

1.校訂必修32學分(含通識基礎必修18學分、通識博雅必修14學分)。

The stipulated compulsory credits shall be 32 credits.(18 credits for required general education courses, and 14 credits for required liberal arts courses.)

2.專業必修50學分(院必修12學分、系必修38學分)。

The professional compulsory credits shall be 50 credits.(12 credits for required college courses, and 38 credits for required department courses.)

3.系專業選修至少26學分。

The professional elective credits shall be not less than 26 credits.

4. 跨系選修至少6學分。

The number of inter-department elective credits shall be not less than 6 credits.

※「微學分課程」最多採計12學分。

The number of 'Micro-Credit Courses' credits shall be up to 12credits.

二、畢業門檻:Graduation Threshold

1.學生於修業年限內,應修畢「校訂必修」、「專業必修」、「系專業選修(含跨系選修)」共計128學分。

Students are required to complete a total of 128 credits of "Stipulated Compulsory Course", "Professional Compulsory Course", and "Department Professional Elective Course" ("inter-college elective" included) within their academic years.

2.系專業能力門檻(中信科技大學機械工程系畢業門檻實施要點辦理)。

Department Professional Threshold (CTBC University of Science and Technology Regulations of Graduation Threshold of Mechanical Engineering Department)

3.英文能力門檻(中信科技大學輔導學生取得英檢證照實施辦法辦理)。

English Proficiency Threshold (CTBC University of Science and Technology Regulations of Tutoring Students to Get English Proficiency Certificates)

備註 Note

中信科技大學 四年制 機械工程系 日間部 課程規劃表(適用111學年度入學)

CTBC University of Science and Technology Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program-Day Division (Effective from Fall 2022)

	第一學年				第二學年				第三學年				第四學年			
	1st school year				2nd school year				3rd school year				4th school year			ear
科 目 名 稱 Subject	上學期 1st semester 2nd semester		nd	上學期 1st semester		ト学期 2nd		上學期 1st semester		ト学期 2nd		上學期 1st semester		ト学期 2nd		
	學分 Credits															

三、校訂課程:Stipulated Courses

1.校訂課程不須依先後順序修課,不得互抵者,包括「國文(1)(2)、英文聽力與閱讀(1)(2)、體育 (1)(2)(3)(4)」課程。

Stipulated courses are not required to be taken in sequence and the credits shall not be mutually transferred, including "Chinese (1) (2), English listening and reading (1) (2), and physical education (1) (2) (3) (4)" courses.

2.校訂課程不須依先後順序修課,得互抵者,僅為「服務教育與大學社會責任(1)(2)」課程。

Stipulated courses are not required to be taken in sequence and those that may be mutually complemented by each other may be only "Service Education and University Social Responsibility (1) (2)".

- 3.校訂課程不須依先後順序修課,包括「全民國防教育軍事訓練(1)(2)(3)(4)、健康與護理(1)(2)(3)(4)」課程。 Stipulated courses are not required to be taken in sequence, including National Defense Education and Military Training (1)(2)(3)(4) and Health and Nursing(1)(2)(3)(4).
- 4.「創意思考與AI智慧生活」、「倫理與品格」課程在一年級下學期、二年級上學期開課,得依實際情形上下學期調整。「倫理與品格」課程含括環境倫理、生命倫理及性別倫理三門,依實際情形排定一門,學生擇一修課即可。

Creative Thinking and Training and AI Smart Life shall be offered at the second semester of the freshman and at the first semester of the sophomore year and be adjusted based on the actual situation in the first and second semesters. Ethics and Character Education includes three courses: environmental ethics, bioethics, and gender ethics. Each course may be arranged according to the actual situation, and students shall choose one course.

四、專業課程: Professional Courses:

1.「實務專題(1)(2)」課程應依先後順序修課,得互抵。

Project(1)(2) shall be taken in sequence and may complement each other.