南開科技大學 112學年度入學 新南向車輛工程系國際學生產學合作專班 课程總表 Nankai University of Technology Course Catalog for the 112th Academic Year, College of Science and Technology, Department of Vehicle Engineering, International Bachelor Program of Industry-Academia Collaboration, Four-Year Program

	ー年級(112) First Year					二年級(113) Second Year					三年級(114) Third Year					四年級(115) Fourth year			
類別 class	4.0	AY	一上 (1) Fall		- 下) Spring	4.5	AY(上 2) Fall	二 AY(2)	下 Spring		AY	三上 (3) Fall	≦ AY(3)			AY(9上 (4) Fall	四下 AY(4) Spring
Class	科目 Subjects	學分 Credits	時數 Credit Hours	學分 Credits	nt de	+ 料目 Subjects	學分 Credits	時數 Credit Hours	學分 Credits	時數	科目 Subjects	學分 Credits	時數 Credit Hours	學分 Credite	時數 Credit Hours	科目	學分 Credits	時數 Credit Hours	學分 Credita Credi
	華語聽力會話練習(一)(二) Mandarin Listening and Speaking Practice (1)(2)	2	4	2	3			Trouis			英文(一)(二) English (1) (2)	2	2	2	2			Tiouis	
基本能力課程 Core Capabilities	體育(一)(二) Physical Education (1) (2)	2	2	2	2						華語閱讀與理解(一)(二) Mandarin Reading Comprehension (1)(2)	1	2	1	2				
Courses											華文主題式讀寫(一)(二) Chinese Topical Reading and Writing	1	2	1	2				
	小計 Subtotal Credits	4	6	4	5						小計 Subtotal Credits	4	6	4	6				
	產業概論(一)(二) Introduction to Industries(1)(2)	3	3	3	3						網路概論 Introduction to Networks	3	3						
專業基礎課程 Specialized Basic	計算機概論 Introduction to Computer Science	3	3										<u> </u>	!					
Courses	文書軟體應用 Office Document Software Application			3	3								 	!					
	小計 Subtotal Credits	6	6	6	6						小計 Subtotal Credits	3	3						
	法治教育 Legal Education	2	2																
12 14k 14k 10	台灣社會與生活 Society and Life in Taiwan	2	2																
通識課程 General Courses	職場倫理 Workplace Ethics			2	2														
	生涯規劃 Career Planning 小計			2	2													1	
	Subtotal Credits	4	4	4	4	dt ikn se 32 () ()					* * * * * * * * * * * * * * * * * * * *	┿	—					1	
	工程力學 Engineering Mechanics-Statics 汽車基礎電學應用與實習	2	2	_	_	學期實習(一)(二) Semester Intership(1) (2)	9	*	9	*	汽車綜合技術 Automotive Comprehensive Technology 電腦輔助製造技術	3	3					1	
	八平宏峻电子思用兴貞音 Practical Applications of Automotive Basic Electrical Theory 汽車引擎技術	3	3	-	_						电脑精明表现权例 Computer Aided Manufacturing Technology 機構學	3	3					-	
	7七半月 字4文4年 Automotive Engine Technology	_		3	3						機構字 Mechanism 汽車電系技術	3	3					-	
		_		_	_						八平电系技術 Automotive Electrical System Technologies 電動車與複合動力車原理	3	3						
		_		-	-						回 助 半 共 核 合 助 ガ 半 赤 珪 Introduction to Electric and Hybrid Vehicles 内 燃 機	2	2					-	
系專業必修 Departmental Required		_		-	-						Internal Combustion Engine 車輛感測技術	+		3	3				
Courses				-	-						Vehicle Sensing Technology 微處理機與實習		-	3	3			-	
				-	-						Microprocessor and Practice 車辆專業英文		-	3	3				
		-	+	-	-						Professional Autotmotive English 汽車底盤技術	+	+	2	2			-	
			-	-	-						Automotive Chassis Technology	+	 	3	3				
	小計	5	-	3	3	小計	9	0	9	0	小計	14	14	14	14				
	Subtotal Credits 初級華語測驗練習	3	5	3	3	Subtotal Credits	9	0	9	0	Subtotal Credits	14	14	14	14			+	
	Basic Chinese Language Test Practice 初級華語讀寫	3	- 6	,	5							+-	+	+				+	+
語言能力必選修	Basic Chinese Reading and Writing 中级華語測驗練習	3	6	3	,							+	+	+				+	
(4必選2) Language Compulsory	Intermediate Chinese Language Test Practice 中級華語讀寫	,	0	3	5								+						
	Intermediate Chinese Reading and Writing			,	,							+	+	+					
	小計	3	6	3	5							+	+	+				1	
	Subtotal Credits 車辆工程與原理	3	3	+ -							人因概論	2	2	+-		學期實習(三)(四)	9	*	9 *
	Vehicle Engineering and Principle 工業安全管理	3	3	+	+						Introduction to Human Factors 汽車空調技術實務	3	3	+		Semester Intership(3) (4) 汽車排放管制與控制	2	2	
	Industrial Safety Management 創意工程	2	2								Practice of Automobile Air Conditioning Technology 汽車電子電路	3	3			Automotive Emission Regulation and Control 汽車新科技	2	2	
	Innovation Engineering 汽車维修實務實習			2	2						Automotive Electronic Circuits 電腦輔助繪圖實務	3	3	+		New Technology for Automobile 動力學	3	3	
	Practice of Automobile Repair and Trouble Shooting 微積分		+	3	3						Computer-Aided Draw Practice 車輌材料概論	2	2	+		Engineering Mechanics Dynamics 機械元件設計	3	3	+ +
	Calculus 品質管制			2	2						Introduction to Vehicle Materials 工程倫理	2	2	+		Design of Machine Elements 車輛通訊與行控			2 2
	物理		+	3	3						Engineering Ethics 電動車機電整合概論	+	+	2	2	Vehicle Communication and Control 汽車電子通訊技術		1	3 3
系專業選修	Physics 材料力學 Mechanics of Materials			3	3						Mechatronics of Electrical Vehicle 精密量具與檢測技術	+		3	3	Automotive Electrical Communication Technology 汽車動態性能檢測與分析 Measurement and Analysis of Automotive Dynamic Performance			3 3
Departmental Elective Courses	Mechanics of Materials 潤滑學 Lubrication Theory			2	2						Metrology Practice 顧客服務技巧 Customer Relationship Service Method	+	+	3	3	Measurement and Analysis of Automotive Dynamic Performance 車身技術 Autobody Technology		1	3 3
	綠色科技	+	+	3	3						Customer Relationship Service Method 車聯網技術應用 Vehicle to Everything Technology Application	+		3	3	Autobody Technology 智慧車輛技術與應用 Smart Vehicle Technology and Application			3 3
	Green Technology	1	1	1	1		1				venicle to Everytning Technology Application	1	1	1 '		SHart venicle recnnology and Application	1	1	

										電池振論 Battery Introduction			2	2					
										燃料噴射系統 Fuel Injection System			2	2					
小計 Subtotal Credits	8	8	18	18						小計 Subtotal Credits	15	15	18	18	小計 Subtotal Credits	19	10	23	14
습計 Total Credits	30	35	38	41	습하 Total Credits	9	0	9	0	술화 Total Credits	36	38	36	38	습計 Total Credits	19	10	23	14

1.本表適用112學年度新南向車輛工程系國際學生產學合作專班入學學生。
1.This curriculum is applicable to students of International Programs of Industry-Academia Collaboration admitted for the academic year 2023.
2.最低畢業總學分為128學分,其中全校基本能力課程必修16學分、專業基礎必修6學分、通識課程必修8學分、專業必**修48學分**、語言能力必遷修為6學分,**合計82學分,專業選修學分數至少為46學分**。

2. The minimum credits for graduation is 128. This includes 16 credits for compulsory subjects, 8 credits for compulsory subjects, 8 credits for department required courses, 6 credits for department required courses, 6 credits for compulsory subjects, 8 credits for department required courses, 6 credits for department required courses, 8 credits for department required courses, 6 credits for department required courses, 8 credits for department required courses, 8 credits for department required courses, 10 credits for department required cours recognized as graduation credits.
3.可至外条修讀相關課程,選讀外条課程需經本系主任與修讀外系課程主任同意。

3. Relevant courses can be taken from other departments. However, approval from the head of your current department and the department offering the courses is required for selecting courses from other departments.

4.跨系學程証明之核發依本校學程設置辦法規定辦理。

4.7fbe issuance of a certificate for completing an interdisciplinary program shall be conducted in accordance with the regulations stipulated by the NKUT Interdisciplinary Establishment.

5.専班校外實習課程學分數最多36季分,與學習時數之對應基準為1學分質習80小時,校外實習依本校學生校外實習要點辦理。

5.The maximum credit for off-campus internship courses in specialized programs is 36 credits. The corresponding standard is 1 credit for 80 hours of internship. Off-campus internships shall be conducted in accordance with the NKUT Guidelines for Off-campus Internships.

6.本素業經系課程委員會(112.03.28)、學院課程委員會(112.03.30)、校課程委員會(112.04.11)審議通過。

6. This curriculum list has been reviewed and approved by the Department Curriculum Committee (2023.03.28), College Curriculum Committee (2023.03.30), and University Curriculum Committee (2023.04.11).