

TPCU four-year Undergraduate Program Day School Department of Mechanical Engineering/Division of Vehicle Engineering Curriculum Planning(applicable to 114 semester year adimssion)

類別 category	科目名稱 subject name	第一學年 1st semester year				科目名稱 subject name	第二學年 2nd semester year				科目名稱 subject name	第三學年 3rd semester year				科目名稱 subject name	第四學年 4th semester year			
		上學期 fall		下學期 spring			上學期 fall		下學期 spring			上學期 fall		下學期 spring			上學期 fall		下學期 spring	
		學分 credit	時數 hour	學分 credit	時數 hour		學分 credit	時數 hour	學分 credit	時數 hour		學分 credit	時數 hour	學分 credit	時數 hour		學分 credit	時數 hour	學分 credit	時數 hour
基礎通識 basic general education	中文閱讀與寫作 Chinese Reading and Writing	2	2			體育(三) Physical Education(III)	2	2												
	共同外語(一) Common Foreign Language (I)			2	2	共同外語(二)(三) Common Foreign Language(II)(III)	2	2	2	2										
	體育(一) Physical Education (I)	2	2																	
	體育(二)-高爾夫 Physical Education II: Golf			2	2															
	小計 subtotal	4	4	4	4	小計 subtotal	4	4	2	2	小計 subtotal	0	0	0	0	小計 subtotal	0	0	0	0
	類別學分小計 category credits subtotal	14																		
	1.共同外語課程需修滿6學分，學生於修課前即可選擇「英語」或「日語」為外語課程。 1. Common foreign language courses require 6 credits. Students can choose "English" or "Japanese" as the foreign language course before taking the course. 2.選定語言後，不可異動。 2. Once the language is selected, it cannot be changed.																			
職用通識 career application general education	職場應用文 Workplace Applied Chinese			2	2	法律與生活 Law and Life			2	2										
	社會責任實踐(一)(二) Social Responsibility Practice (I) (II)	0	1	0	1															
	職場禮儀與口語表達 Workplace Etiquette and Oral Communication	2	2																	
	小計 subtotal	2	3	2	3	小計 subtotal	0	0	2	2	小計 subtotal	0	0	0	0	小計 subtotal	0	0	0	0
	類別學分小計 category credits subtotal	6																		
多元通識 multiple general education	1.「多元通識」由通識教育中心訂定預選課程，預選後列出應選修之人文藝術領域、自然科技領域及社會科學領域二類之應開課程後，每一領域至多選修4學分，共計8學分之課程。 1. The General Education Center would offer "Multiple General Education" courses selection for students to choose from. After the advance selection, the General Education center would list courses in the following three categories (domains): Arts and Humanities, Natural Technologies and Social Science. Students are to choose at most 4 credits from each category (domain), with the total of 8 credits. 2. 通識教育中心所公布之選、承、學程所提供之輔助課程，亦可承認為通識選修課程，唯學生應修所肄業之院、系及學程提供之課程，則不予承認。 2. Supplementary courses provided by various colleges, departments, and programs announced by the General Education Center can also be recognized as general elective courses. However, students taking elective courses provided by the colleges, departments, and programs to which they are affiliated will not be recognized. 3.「名人講座」係跨類別選修課程，可承認為「多元通識課程」中任一領域課程，以一次為限。 3."Celebrity Lecture" is a cross-category elective course and can be recognized as a course in any field of "Multiple General Education Courses", only once.																			
	類別學分小計 category credits subtotal	8																		
院訂必修 compulsory courses required by the college	工程通識 Engineering General Education	2	2			科技應用 Application of Science and Technology			2	2	職涯講堂 Occupation Career Lecture	2	2			工程產業講座 Engineering Industry Seminar			2	2
	小計 subtotal	2	2	0	0	小計 subtotal	0	0	2	2	小計 subtotal	2	2	0	0	小計 subtotal	0	0	2	2
	類別學分小計 category credits subtotal	8																		
專業必修 required for majors	電腦軟體應用 Computer Software Applications	3	3			工程材料與應用 Engineering Materials and Applications	3	3			工程術語導讀(一) English for Engineering Terminology (I)	2	2							
	工程概論 Introduction to Engineering	3	3			基礎電學與實習 Basic Electricity and Practice	3	3			電腦輔助設計 Computer Aided Design	3	3							
	機械製圖 Mechanical Drawing	2	3			電腦輔助立體繪圖 Computer Aided 3D Model Drafting	2	3			實務專題(一) Practical Project (I)	2	3							
	電腦輔助繪圖 Computer Aided Drawing			2	3	液壓氣控制與實習 Fluid Pressure Control and Internships			2	3	實務專題(二) Practical Project (II)			2	3					
	應用力學 Applied Mechanics			2	2	材料力學 Mechanics of Materials	2	2			工程術語導讀(二) English for Engineering Terminology (II)			2	2					
	機械創意思考與設計 Creative Thinking and Mechanical Design			3	3	焊接實務 Welding Practice	3	3			熱流學與實驗 Thermo-Fluid Science and Experiment			2	3					
	機車動力檢修實習 Motorcycle Power Inspection and Repair			3	3	應用電子學與實習 Application of Electronics Lab.			2	3	專利申請與撰寫 Patent Application and Writing	2	3							
						機械設計 Mechanical Design			3	3	機構設計模擬 Mechanical Design Simulation			3	3					
						微電腦概論與實習 Introduction of Microcomputer and its Practices			2	3										
	小計 subtotal	8	9	10	11	小計 subtotal	13	14	9	12	小計 subtotal	9	11	9	11	小計 subtotal	0	0	0	0
類別學分小計 category credits subtotal	58																			
專業選修 professional electives	車輛安全概論 Automobile Safety Devices			2	2	車輛懸吊系統 Automotive Suspension System	3	3			3D列印與實習 3D printing and practice	3	3			軌道車輛實務學	3	3		
	工程數學 Engineering Mathematics			2	2	熱力學 Introduction to Thermodynamics	2	2			汽車市場行銷與企劃 Automotive Marketing and Planning	2	2			校外實習(一) Off-campus Internship (I)	9	*		
	車輛工程與實務 Vehicle Engineering Actual Affairs			2	2	視窗程式設計 Windows Programming Design	3	3			顧客抱怨處理技巧 Dealing with a Customer Complaint			2	2	車輛設計 Vehicle Design	3	3		
	汽機車原理																			