

國立勤益科技大學114學年度進修部二年制機械工程科學分計畫表

National Chin-Yi University of Technology Continuing Education Division
Curriculum for 2025 Two-year Association Program of Department of Mechanical Engineering

113.10.23 113學年度第1學期第1次系課程會議通過
113.11.13 113學年度第1學期第2次系務會議通過
113.11.19 113學年度第1學期第1次院課程會議審議通過
113.12.05 校課程委員會議及113.12.24 臨時教務會議審議通過

科目	Courses	上學期First Semester			下學期Second Semester		
		學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
共同必修科目(10學分)General Required Courses(10credits hours)							
第一學年First Year							
國文(一)	Chinese (I)	2	2	0			
國文(二)	Chinese (II)				2	2	0
第二學年Second Year							
法學概論	Introduction to the Study of Law	2	2	0			
英文(一)	English (I)	2	2	0			
英文(二)	English (II)				2	2	0
科目	Courses	上學期First Semester			下學期Second Semester		
		學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
校訂必修科目(37學分)Department Required Courses(37credits hours)							
第一學年First Year							
微積分(一)	Calculus (I)	2	2	0			
△計算機程式	Computer Program	3	3	0			
電機學	Electrical Machinery	2	2	0			
工廠實務	Factory Practice	2	2	0			
電腦輔助繪圖	Computer Aided Drafting	3	3	0			
微積分(二)	Calculus (II)				2	2	0
靜力學	Statics				3	3	0
機械材料	Mechanical Material				3	3	0
製造學	Manufacturing Processes				2	2	0
氣液壓學	Pneumatic and Hydraulic				3	3	0
第二學年Second Year							
機構學	Mechanism	3	3	0			
材料力學	Mechanics of Materials	3	3	0			
數控工具機	CNC Machine Tool	3	3	0			
機械設計	Mechanical Design				3	3	0
科目	Courses	上學期First Semester			下學期Second Semester		
		學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
專業選修科目Department Electives Courses							
第一學年First Year							
工程倫理	Engineering Ethics	3	3	0			
製程規劃	Manufacturing Process Planning	3	3	0			
精密量具	Precision Measuring Instrument	3	3	0			
工業安全與衛生	Industrial Safety and Health				3	3	0
3D參數化機械設計	3D Parametric Mechanical Design				3	3	0
航空工程概論	Introduction to Aeronautical Engineering				3	3	0
第二學年Second Year							
影像處理	Image Processing	3	3	0			
程式應用	Program Application	3	3	0			
熱處理	Heat Treatment	3	3	0			
CAE概論	Introduction to CAE Analysis	3	3	0			
模具設計	Mold Design	3	3	0			
精密鑄造學	Precision Casting				3	3	0
工業心理學	Industrial Psychology				3	3	0
視窗軟體應用	Windows Software Application				3	3	0
半導體製程技術	Semiconductor Processing Technology				3	3	0
切削刀具學	Tooling for Metal Cutting				3	3	0
工具設計	Tool Design				3	3	0
塑膠材料	Plastic Materials				3	3	0
非傳統加工	Non-Traditional Machining Processes				3	3	0
科目	Courses	上學期First Semester			下學期Second Semester		
		學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
共同選修科目General Elective Courses							
第二學年Second Year							
通識課程	Liberal Education Curriculums	2	2	0			

通識課程		Liberal Education Curriculums						2	2	0
學分/時數統計 Credit/Hour Total	第一學年First Year				第二學年Second Year					
	上學期 First Semester		下學期 Second Semester		上學期 First Semester		下學期 Second Semester			
	學分 Credit	學時 Hour	學分 Credit	學時 Hour	學分 Credit	學時 Hour	學分 Credit	學時 Hour		
必修科目學分/時數 Required Courses Credit / Hour	14	14	15	15	13	13	5	5		
最低選修科目學分/時數 Minimum Electives Courses Credit / Hour	6	6	5	5	7	7	15	15		
總學分數/時數累計 Credits / Hours Total	20	20	20	20	20	20	20	20		

備註Note:

- 一、 畢業至少應修滿 80 學分【必修 47 學分，選修至少 33 學分(其中至少需含本系專業選修 22 學分)】。
Students should complete at least 80 credits before graduation, including 47 required credits, 33 elective credits (elective credits should have at least 22 credits from department elective courses).
- 二、 選修通識課程包含性別平等、智慧財產權、海洋教育等相關課程；選修通識課程由通識學院協助開設。
Liberal Education Courses include gender equality courses、intellectual property courses、marine education courses, and these courses provided by College of General Education.
- 三、 課程名稱前有標示「△」符號者，為「程式設計課程」。
Courses with a “△” refers to an application design course.
- 四、 專業選修以開課3學分/3學時為原則，但部份課程為配合每日排課不得超出10節課，得開課為2學分/2學時。
The principle of professional elective courses is 3 credits/3 credit hours. However, some courses may not exceed 10 classes per day to accommodate the daily class schedule, courses can be 2 credits/2 credit hours.
- 五、 為因應法規變更、評鑑建議或政府計畫規定等外在因素，本系保有調整學分計畫之權利。若有修訂，將於學期開始前公告，並明確說明修訂內容、影響範圍及相關配套措施，以保障學生權益。
The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.