

國立屏東大學 112學年度第1學期 教學課程綱要

※為保護智慧財產權，請勿非法影印教科書。

班別：智慧機器人學系二年甲班(CBD210)

課程學分數：3.00(3.00小時)

授課老師：李健(300595)

必選修：選

開課序號	1721
科目名稱	工程圖學(CGC2204)
科目英文名稱	Engineering Drawing
授課語言	英語/國語/全外語授課
主要教學型態	課堂教學
教學目標	Training students to know engineering drawings so that in their future careers, they can be competent in designing mechanical components or systems. They can also concisely communicate during teamwork and the manufacturing of developed products.
每週課程內容及教學方法	1. Introduction 2. Orthographic Projection 3. Isometric Projection 4. 2D Drawing Representation 5. Section Views 6. Auxiliary Views 7. Modeling for Manufacture and Assembly 8. Dimensioning 9. Tolerancing 10. Working Drawings
核心能力	1. 基礎理論與應用實務之專業能力 80% 2. 團隊合作精神及自我挑戰的能力 0% 3. 獨立思考與創新能力 20% 4. 人文素養與國際視野能力 0%
預期學習成果	Students can be familiar with 1) Projection geometry and three-dimensional, auxiliary, section views, and sketch drawing. 2) Dimensional tolerances and annotations of views, graphic presentation of parts or systems manufacturing and assembly procedures. 3) Using the drawing software fusion 360 (or Inventor, Solidworks, etc.) to create parts, assemblies, and engineering drawing.
與預期學習成果搭配的多元評量	1. Midterm exam: drawing Orthographic and auxiliary Views..... 30% 2. Final exam : drawing through CAD software Fusion 360

	.....30% 3. Class participation and active involvement..... 40%
<b>主要讀本</b>	Self-made materials by instructor
<b>參考書目</b>	Frederick E. Giesecke Shawna Lockhart Marla Goodman Cindy M. Johnson. Technical Drawing with Engineering Graphics. Peachpit Press.  陳朝光、陳銘崑 主編, "工程圖學", 高立圖書
<b>其他事項</b>	To protect intellectual property rights, do not illegally photocopy textbooks. (為保護智慧財產權, 請勿非法影印教科書。)  課程line群組 <a href="https://line.me/R/ti/g/NOAmjCmJR3">https://line.me/R/ti/g/NOAmjCmJR3</a>