

# 100-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	機械設計(二)	Serial No. / ID	1828 / MAI3007
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年1班
Lecturer	劉大銘	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(二)789 / H439	Language	Chinese

Introduction
<p>Course is designed to enable students to become familiar with the concept of using mechanical engineering design, including belts and chains, spur gears, helical gears, turbo and turbo rods, bolts, bearings and shaft design and analysis; and introduces the analysis and computer-related tools. This course provides various professional courses in a bridge connection, including materials, dynamics, mechanical design of materials and machinery applications, the main purpose is to study the static or dynamic loads because of the damage caused. In the practical aspect will be to meet the needs of students in the Class B license related mechanical component design as a priority, the instance will be re-calculus in the theory and concepts will be important in the calculation of the exercise.</p>

Outline
<ol style="list-style-type: none"><li>1. (Belt Drives and Chain Drives)</li><li>2. (Kinematics of Gears)</li><li>3.(Gear Design)</li><li>4.(Keys, Coupling and Seals)</li><li>5.(Shaft Design )</li><li>6.(Tolerances and Fits)</li><li>7.(Bearings Design )</li><li>8. (Welding )</li><li>9. (Springs Design )</li><li>10. (Screws Design )</li></ol>

Prerequisite
Mechanics of Materials, Applied Mechanics