Course Instructor:
副教授 詹健元 Office: 704, ME Building Tel: 06-2757575 ext.62149
E-Mail: chanky@mail.ncku.edu.tw (來信請註明：機械設計二)
Office Hour: 10am-noon, Thursdays, or by appointments

Teaching Assistant: 許佳豪 Office: 705, 儀器大樓 Tel: 06-2757575 ext.62159-51

Course Information:
Days and Hours: 9:10-11:00am, Mondays; 9:10-10:00am, Wednesdays
Classroom: Room #203, ME Building
Webpage: http://moodle.ncku.edu.tw (需撥入，確認已將此課程加入，並設定常用Email帳號)
Textbook: “Shigley’s Mechanical Engineering Design” 8th ed. in SI units

Credit: 3
Grades (100%):
- Term Project: 20% (5%, 5%, 10%)
- Homework Quiz: 16% (4% each)
- Attendance and Participation: 12%
- Midterm Exam #1: 15%
- Midterm Exam #2: 15%
- Final Exam: 22%

Course Mission:
Provide concepts, procedures, and decision analyses that are essential in designing mechanical components.
Students are expected to analyze individual element as well as the interfaces between elements as they work
together to form a system.

Course Objectives:
- Introduce the design and analysis of Shafts and Shaft Components (Chap. 7)
- Introduce the design and analysis of power screw and threaded fasteners (Chap. 8)
- Introduce the design and analysis of various joining components and methods (Chap. 9)
- Introduce the design and analysis of various springs (Chap. 10)
- Introduce the design and analysis of bearings (Chap. 11, 12)
- Introduce the design and analysis of various forms of gear and gear systems (Chap. 13, 14, 15)
- Introduce the design and analysis of brakes and clutches (Chap. 16)
- Introduce the design and analysis of various flexible mechanical components (Chap. 17)
- Class review and case studies (Chap. 18, 19, 20)

Honor Code:
我在試卷時絕不會给予别人協助，也不會接受他人的幫忙，所有作業及考試的答案均為本人
努力的結果，若有違背誓言，一切依校規處置。