



E100104 工程導論

動力機械工程概論

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| Instructor: | 張禎元 教授 | Professor Jen-Yuan (James) Chang |
| Credits: | 2 credits. | |
| Class meetings: | Wednesdays 10:10 AM~12:00 noon (W3W4) | |
| Office hours: | Wednesdays 5:00PM~6:00PM in Engineering Building I – R509. | |
| Course description: | The senior faculty members from Chemical Engineering, Power Mechanical Engineering, Materials Science and Engineering, Industrial Engineering and Engineering Management and Electrical Engineering introduce the scope and education disciplines to students for fundamental knowledge of engineering areas. | |
| Textbooks: | Class notes provided | |
| References: | None. | |
| Teaching Method: | Classroom lecture in Chinese and in English. | |
| Assessments: | Class attendance or quiz (detail to be announced in the 1 st class) | 10% |
| | Group project & project report (details to be announced in the 1 st class) | 60% |
| | Final report | 30% |
| Final report regulations: | | |

A. 題目 Topic : (四選一 Select one out of the following four)

我國機械工業發展預測 Prediction of Mechanical Industry in Taiwan

化工產業中使用的主要機械設備 Major Mechanical Equipment used in Chemical Industry

材料工業與機械工業的關連 Relationship between Materials Industry and Mechanical Industry

我國機械工業中的自有品牌 Issues of Original Brand in Taiwan's Mechanical Industry

B. 兩人一組之姓名/學號 (Name/Matriculation No. of two persons making a group)

C. 內容：以檢索為主，必須註明資料來源及序號，可加入個人評論。(Contents: based on survey, must cite the reference. You can add comments.)

D. 資料來源：依序條列，包括出處及日期 (References: numbered and listed, including the source and year of publication.)

E. 字數：包括標點符號，必須為 300-400 字 (Length: 300-400 words including all marks.)

G. 繳交日期：各系最後一次上「機械工程導論」課 (Due: The last class of your session of “Mechanical Engineering”)



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Weekly Schedule

第一週：機械、機械工程與人類文明的互動發展、主要面向以及現代社會與經濟的主要關連議題

1st week: Development of machines, mechanical engineering and interaction with human civilization; aspects of mechanical engineering and major issues of today's economy and society.

第二週：大學機械工程課程結構與多元化之未來生涯發展、機械元件與系統概論

2nd week: The course structure and future career tracks of undergraduate mechanical engineering; introduction to mechanical components and systems.

第三週：機械工程團隊專題設計競賽(每隊五人)

3rd week: Group mechanical engineering design project competition. (Five students per group)

Disability Resource Services Reasonable Accommodations Statement

Reasonable accommodations are available for students who have a documented disability. Classroom accommodation forms are available through the Disability Services Office. If you have a documented disability (even temporary) make an appointment as soon as possible with the university student services. You will need to provide your instructor with the appropriate classroom accommodation form from Disability Services during the first week of class. Late notification may mean that requested accommodations might not be available. All accommodations for disabilities must be approved through the Disability Services Coordinator.