

NTHU ESS 103-001(清班)/002(華班), Spring 2021

Engineering Mechanics - Statics

工程力學

Instructor: 陳紹文教授 (辦公室: 李存敏館 607 室, 分機: 34169, E-mail: chensw@mx.nthu.edu.tw)

Lecture time:

M5, M6, R5 (-001, 清班), **Classroom:** ESS 506

T5, T6, R6 (-002, 華班), **Classroom:** ESS 502

Grades:

Homework: **15%**; Quiz: **10%**;

1st Midterm Exam: **20%**; 2nd Midterm Exam: **25%**; Final Exam: **30%**

Note:

1. 作業繳交: 紙本手寫繳交, 多張請釘在一起, 可至綠能館 610 門口繳交或直接給助教 (一般截止當天晚上 11:59 前繳交; 特殊狀況如考前等, 將另外指定繳交時間地點)。
2. 作業請勿抄襲, 抄襲與被抄襲者皆以零分計。
3. 考試為關書考試(closed book), 考試過程請勿攜帶或碰觸任何電子/通訊產品(例如: 平板、手機、電腦、數位相機、等), 如違反規則, 該次考試零分計算。

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Textbook: R.C. Hibbeler, "Engineering Mechanics – Statics" 14th Edition in SI Units, PEARSON

Keywords: Force Vectors, Equilibrium, Resultants, Structure Analysis, Friction, Virtual Work

Tentative outline:

開學日: 2/22(Mon)

1. Chapter 1 General Principles (1 hours)
2. Chapter 2 Force Vectors (5 hours)
3. Chapter 3 Equilibrium of a Particle (4 hours)
4. Chapter 4 Force System Resultants, Part 1 (6 hours)

1st Midterm Exam, 3/25(Thr), 6:30pm, ESS 5F (暫訂, 考前一週將確認範圍)

5. Chapter 4 Force System Resultants, Part 2 (4 hours)
6. Chapter 5 Equilibrium of a Rigid Body (8 hours)
7. Chapter 6 Structure Analysis, Part 1 (4 hours)

2nd Midterm Exam, 5/6(Thr), 6:30pm, ESS 5F (暫訂, 考前一週將確認範圍)

Note: 申請課程停修(第二階段退選4/12~5/10止)

8. Chapter 6 Structure Analysis, Part 2 (3 hours)
9. Chapter 8 Friction (7 hours)
- 10 Chapter 11 Virtual Work (6 hours)

Final Exam, 6/23 (Wed), 6:30pm, ESS 5F (暫訂, 考前一週確認範圍)