

# Human Factor Engineering

Attachment #2

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Lecture Room: A0124      Credit:2      Course Hours:2  
Textbook: Edited textbook by *Wen-Ching Su*

**Evaluation: 20% for each test; 30% for Mid examination;  
10% for quiz and attendance; 40% for final**

## Content

- Chapter 1 – Introduction to human factor engineering (*definition, interior, effects, methods and uses*)  
Chapter 2 – Basic of human factor engineering (*posture, movement, action of any kind, characteristics of action, feeling, consciousness and cognition*)  
Chapter 3 – Anthropometry (*anthropometric principles—anatomy, body mechanics, measure of technique, applications* )

### Mid Examination(1 hr): covering chapter 1, 2, 3

- Chapter 4 – The applications of human factor engineering (*chair, bed, table; furniture dimension and human factor engineering; older person and human factor engineering* )  
Chapter 5 – Human factor engineering and interior environment (*normal interior accidents, disasters; heat, cold and the design of the physical environment; hearing, sound noise and vibration; vision, light and lighting* )  
Chapter 6 – Analysis of human factor engineering (*the design of chair, table and bed; displays and controls environment; the design of special work space*)

### Final Examination(1 hr): covering Chapter 4, 5, 6

Reference: R.S. Bridger, “Introduction To Ergonomics”, Taylor& Francis published.

Final paper: *Measurement of the human body—measured 5 persons (practical)*

*Include: standing eye height, standing elbow height, standing finger tip height, sitting height, sitting elbow height, popliteal height, buttock-popliteal length, hip width, et al.*