# 106-1 Full Curriculum of Da-Yeh University

Information				
Title	Human Factors Engineering	Serial No./ID	1617 / IDV2005	
Required/Credit	Required /2	Time/Place	(Thu)78 /G410	
Language	Chinese	Grade Type	Number	
Lecturer /Full- or Part-time	Dndy Chung /Full-time	Graduate Class	Non-graduating Class	
School System / Dept / Class, Grade	Vocational Ba. / Department of Industrial Design / Class 1, Grade 2			
Office Hour / Place	(Mon) 12:20~13:20, (Tue) 12:20~13:20, (Wed) 12:20~13:20, (Thu) 12:20~13:20 / G608			
Lecturer	n.a.			

#### Introduction

to learning the knowledge of ergonomics, and facilitate the concept of ergonomics to product design.

### Outline

- 1. The concept of ergonomis
- 2. Human Sense
- 3. Anthropometry
- 4. Universal Design
- 5. Tools Design

## Prerequisite

not necessary

## The Relationship Between Courses and Departmental Core Competencies and Basic Skills

Sense of aesthetics

- 🏮 Comprehension in engineering and technology
- Design methodology
- User oriented innovation capability
- Team work and design management Society trend and life-long learning
- Ethics and social responsibility

Teaching Plan						
Core Capability	Weight(% )【A】	Ability index(Performance Indicators)	Teaching Methods	Assessment and Weight	Core Competency Learning Outcomes	Grades
Comprehension in engineering and technology	20	To have good understanding about the new technologies. To possess fundamental knowledge regarding ergonomics (human factor), interface design, etc. To possess fundamental knowledge regarding manufacturing, such as material, forming, machining, assembly, surface treatment etc. To possess fundamental knowledge regarding physics, mechanics, mechanism, etc.	Lecturing	Midterm Exam: 25% Homework Assignment: 25% Product Manufacturing: 25% Assessment on Teamwork: 25%	Total: 100	20
Design methodology	20	To possess capability in intra-discipline integration and innovation To understand the design process and methodologies To possess basic knowledge about perceptional psychology. To make logical and critical analysis. To possess capability in presenting design concepts by sketching, rendering, computer graphics (2D & D, animation, model making, photography, presentation panels, etc. To possess good communication skill in both oral and written	Lecturing	Midterm Exam: 25% Homework Assignment: 25% Product Manufacturing: 25% Assessment on Teamwork: 25%	Total: 100	20

User oriented innovation capability	20	To understand life style of customers and their cultures To understand customers' need and their behaviors To understand user-oriented innovational thinking and capability.	Lecturing	Midterm Exam: 25% Homework Assignment: 25% Assessment on Teamwork: 25% Product Manufacturing: 25%	Total: 100	20
Team work and	20	To possess good	Lecturing	Midterm Exam:	Total: 100	20
design		communication ability		25%		
management		and skills		Homework		
		To have good		Assignment: 25%		
		understanding of project		Product		
		operation and personal		Manufacturing:		
		role in the project		25%		
		To be able and be willing		Assessment on		
		to work with other		Teamwork: 25%		
		members as a team				
Ethics and social	20	To possess attributes of	Lecturing	Midterm Exam:	Total: 100	20
responsibility		professional ethics and		25%		
		social responsibility		Product		
				Manufacturing:		
				25%		
				Homework		
				Assignment: 25%		
				Assessment on		
				Teamwork: 25%		

# **Grade Auditing**

Homework Assignment: 25% Assessment on Teamwork: 25% Product Manufacturing: 25%

Midterm Exam: 25%

Book Type (Respect intellectual property rights. Please use official textbooks and do not illegally photocopy others' works.)

Book Type	Book name	Author
Textbook	人因工程學 精華版	張一岑

#### Lesson Plan Content Teaching Methods Lecturing Lecturing & Intellectual Property Protection (use legitimate 1 textbooks only) Lecturing Lecturing 2 3 Lecturing Lecturing 4 Lecturing Lecturing 5 Lecturing Lecturing Lecturing Lecturing 6 7 Lecturing Lecturing 8 Lecturing Lecturing Lecturing 9 Middle Exam 10 Lecturing Lecturing Lecturing 11 Lecturing Lecturing 12 Lecturing Lecturing 13 Lecturing 14 Lecturing Lecturing 15 Lecturing Lecturing

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Final Report