

## 佛光大學 課程大綱 Course Outline

課程名稱 Course Name in Chinese	人因工程				
英文課程名稱 Course Name in English	Human Factors				
科目代碼 Course Code	PM 246			班別 Degree	<input checked="" type="checkbox"/> 學士班 Undergraduate Program <input type="checkbox"/> 碩士班 Masters Program <input type="checkbox"/> 博士班 PhD Program
學分數 Credit	3	時數 Hour	3	修別 Type	<input type="checkbox"/> 必修 Required <input checked="" type="checkbox"/> 選修 Elective
學程別 Program	<input type="checkbox"/> 通識教育 General Education <input type="checkbox"/> 院基礎 Foundation <input type="checkbox"/> 跨領域 Interdisciplinary <input type="checkbox"/> 系核心 Core <input checked="" type="checkbox"/> 學系專業選修 Specialized Elective				
先修課程 prerequisite					
課程描述 Course Description					
<p>The course includes human factor theory, cognitive psychology and man-machine interaction theory. Besides the theories, there are also the descriptions of cases and discussion of assignments. Thus, students will recognize users' potential human factor needs and the application of human factor knowledge in product design.</p>					
課程目標 Course Objectives					
<ol style="list-style-type: none"> <li>1. Introduction of development and basic concept of human factor design.</li> <li>2. Introduction of man-machine system, basic principle of interface design and related theories.</li> <li>3. Study on human factor cases by learning.</li> </ol>					
教育目標 Education Objectives					
1	Cultivation of professional capability of products and media.				
2	Cultivation of design capability of cultural and creative industry.				
3	Cultivation of professional ethics and social concern.				
4	Aesthetic practice in life, live and career education.				
核心能力（專業能力） Learning Outcomes (Basic Learning Outcomes)				課程目標與基本素養 與核心能力相關性 Correlation between Course Objectives and learning Outcomes	
A	Professional knowledge				★
B	Design Technology				★

C	Humanities	◎
D	Creative Thinking	◎
E	Information Technology	★
F	Communication and expression	★

圖示說明：Illustration：★高度相關 Highly correlated ◎中度相關 Moderately correlated

### 課程綱要

#### Course Outline

週次	日期	課程內容： (含每週授課主題及進度)	備註
1		Introduction	
2		History of human factor engineering (1)	
3		History of human factor engineering (2)	
4		Basic characteristics of human (1)	
5		Basic characteristics of human (2)	
6		Characteristics of appearance	
7		Physiological characteristics	
8		Psychological characteristics	
9		Midterm exam / Man-machine system (1)	Presentation
10		Man-machine system (2)	
11		Man-machine system (3)	
12		Safety and health	
13		Product and environmental design	
14		Case study (1)	
15		Case study (2)	
16		Case study (3)	
17		Sermester performance	Presentation
18		Final Exam	

#### 資源需求評估 (師資專長之聘任、儀器設備配合...等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

1. Teachers of human factor engineering
2. 3D Projector

#### 課程要求及教學方式之建議

#### Course Requirements and Suggested Teaching Methods

- Cultivation of professional design literacy; the assignments should be submitted on time. For the delayed submission, students will receive 0 as the score.
- There will be irregular calls in classes. Regarding cutting class without proper reasons for at least 4 times, the students will not obtain the credit from the course.
- Teacher demonstrates in class and students practice of questions.

其他  
Miscellaneous