佛光大學 課程大綱 Course Outline

	程名稱 se Name in se			į	設計材	料與加工	
	課程名稱 he Name in sh	Design materials and processing					
	·目代碼 urse Code	PM429				班別 Degree	■學士班 Undergraduate Program □碩士班 Masters Program □博士班 PhD Program
•	分 數 Credit	3	時數 Hour	3	., .,	□必修 R■選修 E	_
粤	是程別	□通識教育	General E	Education □院	基礎 Fo	undation	□跨領域 Interdisciplinary
P	rogram □系核心 Core ■學系專業選修 Specialized Elective						
	修課程						
pre	requisite			課程排	++ :±		
				 Course Des	-	on	
By in	ntroduction	of materials	and ma				n, students learn to use new and
				_	-	_	
mass-	production	techniques.	They are I	#####################################		the learni	ing to various fields of design.
	普鱼重	智慧問	计產品	Course Ob		オオオ	5得非決影的。
1. By	material m	anufacturing,	students	know and try v	arious	kinds of n	nanufacturing.
2.By	digital man	ufacturing pro	ocess, stu		-	action tecl	hniques and content.
				教育! Education ()		05	
1	Cultivation	of profession	nal canah	ility of product			
_							
				of cultural and c		industry	
3	Cultivation	of profession	nal ethics	and social con	cern		
4	Aesthetic p	ractice in life	e, live and	l career educati	on		
							課程目標與基本素養
		核心	能力(專	業能力)			與核心能力相關性
	Lea	arning Outcom	es (Basic	Learning Outc	omes)		Correlation between Course Objectives and learning Outcomes
A		P	rofessiona	al knowledge			*
В			Design T	Technology			*
С			Hum	nanities			©
D			Creative	Thinking			*

Е	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	課程內容:	備註		
	(含每週授課主題及進度)	·		
第一週	Meeting: introduction of course content and			
<i>N</i> ~ ~	progress, description of related rules			
第二週	Warm up: work environment and outline of works			
第三週	Introduction of material			
第四週	Introduction of material manufacturing	Unit Practice 1		
第五週	Forming technique: hot forming and spinning			
第五型	forming			
第六週	Shot molding and press molding	Unit Practice 2		
第七週	CNC Machining and Laser Sculpting			
第八週	Midterm model	Unit Practice 3		
第九週	Midterm week			
第十週	Combined techniques: ultrasonic waves, vibration	Presentation		
X 1 2	edge blending	Tresentation		
第十一週	Assembly and rapid forming			
第十二週	Surface processing: coating and electroplating	Unit Practice 4		
第十三週	Surface processing: Pattern transferring and			
77 一二週	coating			
第十四週	The end of the model to discuss 1	Data collection		
第十五週	The end of the model to discuss 2	Sketch		
第十六週	The end of the model to discuss 3	Framed		
第十七週	Final model published with review	Presentation		
第十八週	Total review and pay works			

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 materials and manufacturing methods
- 2. Computer
- 3. Manufacturing machine

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.							
11							
其他							
Miscellaneous							