② 图 z 東華大學 教學計劃表 Syllabus

Cour		名稱(中文) me in Chinese			114/1			
Cour		名稱(英文) me in English	Physical Metal	lurgy l				
		目代碼 rse Code	N\$21000	系級 Department & Year				
		修別 Type	Program	學分數/時間 Credit(s)/Hour(s)	0/3.0			
		課教師 tructor	/					
		修課程 equisite						
			課	程描述 Course Descri	ption			
			課	程目標 Course Object	tives			
This course will enable students to gain a comprehensive understanding of the basic theories of physical metallurgy for the building of knowledge in materials science.								
課程目標與系專業能力和關性 系專業能力 Correlation between Course Objectives Basic Learning Outcomes and Dept.'s Education Objectives							力相關性 relation between urse Objectives and Dept.'s	
А	and ma	nthematic knowledg	e for materials	Acquire required bas science and engineering	sic physical, chemical, g.			
В	Acquire required professional							
С	l ogi c	thinking, executi	on of experiment	Equipped wit and data interpretati	th capabilities of on.			
Acquire professional morality and responsibility, and capability of quality communication and team cooperation								
E	Acquire English capability used for learning and interaction.							
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated								
			授課進	度表 Teaching Schedu	le & Content			
週次Week			內容	f	精註Remarks			
1		The structure o	ne structure of metals (1)					
2		The structure o	f metals (2)					
3		Characteri zati o	n techniques (
4		Characteri zati o	n techni ques (
5		Crystal binding	(1)					

6		Crystal binding (2)							
7		Introduction to dislocation (1)							
8		Introduction to dislocation (2)							
9		Midterm Exam							
10									
11		Dislocations and plastic deformation (1)							
12		Dislocations and plastic deformation (2)							
13		Elements of grain boundaries (1)							
14		Elements of grain boundaries (2)							
15		Vacanci es							
16		Anneal i ng							
17		Fi nal Exam							
18									
		教 學 策 略 Teaching Strategies							
~		Lecture Group Discussion	Field Trip						
	Nils	scel I aneous:							
		教學創新自評Teaching Self-Evaluation							
	(1	nnovati ve Teachi ng)							
		(PBL) (TBL)	(SBL)						
		,							
Flipped Classroom Moocs (Social Responsibility)									
		Community Practice Industy-Academia Cooperation							
	(ransdi sci pl i nary Proj ects)							
		Transdi sci pl i nary Teachi ng Inter-col legi ate Teachi ng							
		Courses Co-taught with Industry Practitioners							
	ot bo	-,							
other:									

	章及多元評量方式 Grading & Assessments 多元評量方式 Assessments								
配分項目 Items	配分比例 Percentage	測驗會考	實作觀察	口頭 發表	專題研究	創作展演	卷宗評量	證照 檢定	其他
() General Performance (Attendance Record)									
Midterm Exam	35%	~							
Fi nal Exam	35%	~							
Homework and/or Assignments	20%		~						
Miscel I aneous									
	Grading & A		P量方式 ²						
	教科書與參考 ther References	s (Titl	e, Autho	or, Pub	lisher,	Agents,	Remark		
R. Abbaschi an, L. Abbaschi Learni ng, 2010, (932-597		wetarru (03	•	4th ea. 87 (0932-	0 0
	教材網址(含線 ids & Teacher' Persor	s Websi		uding c	nline t	eaching			
е									