99-1 大葉大學 完整版課綱

基本資訊			
課程名稱	基礎運輸工具設計(一)	科目序號 / 代號	2531 / IDD2075
開課系所	工業設計學系	學制 / 班級	大學日間部2年1班
任課教師	約翰蓋格	專兼任別	兼任
必選修 / 學分數	選修 / 2	畢業班 / 非畢業班	非畢業班
上課時段 / 地點	(四)89A / G410	授課語言別	英文

課程簡介

A. 教育目標
1. 培養學生結合感性美學、經營管理及科技工程的工業設計創新思維
2. 解決人類（使用者）對產品（Tangible Product ）與服務（ Intangible product ）
等需求之設計專業問題。

B. 教育核心能力
1. 生活文化、感性的造形能力
2. 掌握科技工程的能力
3. 使用者導向的創新思維應用
4. 跨領域溝通與整合的能力

C. 大葉大學工業設計學系課程特色：
1. 培養正確的工業設計思維
2. 培養分析、歸納與創新設計能力
3. 提倡以人為本的設計理念
4. 培養完整設計、視覺化表達與溝通能力
5. 造形語意、造形創意與審美觀的養成
6. 培養學生融合理論與實際、手腦並用
7. 產學合作、學以致用

課程大綱

Design und Business:Market observation, prediction methods, methods of canalized information
Design und Business:Market observation, prediction methods, methods of canalized information
Design tools:Project semantic chart, transformation into images of appearance in material, image board
Design tools:Project semantic chart, transformation into images of appearance in material, image board
Ergonomy/ construction/ physical vehicle dynamics:Basic layout and understanding, Platform, Package, Power train, Suspension types and others.
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Ergonomy/ construction/ physical vehicle dynamics:Basic layout and understanding, Platform, Package, Power train, Suspension types and others.

成績稽核

Presentation techniques:2D/ 3D sketching and renderings, presentation by boards.

教科書(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
無參考教科書				

參考教材及專業期刊導讀(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
無參考教材及專業期刊導讀				

上課進度

週次	教學內容	分配時數(%) 講授	示範	習作	實驗	其他
1	Design und Business:Market observation, prediction methods, methods of canalized information	20	20	40	20	
2	Design und Business:Market observation, prediction methods, methods of canalized information	20	20	20	40	
3	Design tools:Project semantic chart, transformation into images of appearance in material, image board	40	20	20	20	
4	Design tools:Project semantic chart, transformation into images of appearance in material, image board	40	20	20	20	
5	Ergonomy/ construction/ physical vehicle dynamics:Basic layout and understanding, Platform, Package, Power train, Suspension types and others.	40	20	20	20	
6	Ergonomy/ construction/ physical vehicle dynamics:Basic layout and understanding, Platform, Package, Power train, Suspension types and others.	40	20	20	20	
7	Ergonomy/ construction/ physical vehicle dynamics:Basic layout and understanding, Platform, Package, Power train, Suspension types and others.	40	20	20	20	
8	Presentation techniques:2D/ 3D sketching and renderings, presentation by boards.	40	20	20	20	
9	Presentation techniques:2D/ 3D sketching and renderings, presentation by boards.	40	20	20	20	
10	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
11	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
12	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	

基本能力或先修課程

Students are required to understand technical packages and have a brief Introduction in the basic procedure of transportation design.

課程與系所基本素養及核心能力之關連

教學計畫表

系所核心能力	權重(%)【A】	檢核能力指標(績效指標)	教學策略	評量方法及配分權重	核心能力學習成績【B】	期末學習成績【C=B*A】
無此教學計畫表資訊						

13	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
14	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
15	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
16	Modeling technique:Basics in Clay modeling, automotive construction measuring systems, model underconstruction, section and main templates	40	20	20	20	
17	Final presentation	40	20	20	20	
18	Very Final presentation	0	0	0	0	100