

113-2 Full Curriculum of Da-Yeh University

Information			
Title	Project Study of Transdisciplinary Design (2)	Serial No./ID	1201 /DAR5175
Required/Credit	Required /3	Time/Place	(Wed)789 /PX304
Language	Chinese	Grade Type	Number
Lecturer /Full- or Part-time	/Full-time	Graduate Class	Non-graduating Class
School System /Dept /Class, Grade	Master /Graduate Program of Design and Arts Colloge /Class 1, Grade 1		
Office Hour / Place	(Mon) 12:00~13:20, (Tue) 12:00~13:20, (Wed) 12:00~13:20 / PX301		
Lecturer	、黃懷德		

Introduction

跨域實務專題研究課程旨在培養學生跨足不同學科領域，掌握多元技能，並運用這些技能解決實際問題。課程充分借鏡跨領域研究的理念，使學生能夠在不同專業領域之間建立連結，促進知識的整合和應用。

Outline

1.跨學科整合與理論基礎

- .學科簡介：認識不同學科基本概念。
- .理論基礎：探討跨學科研究的理論基礎。

2.實務應用與專業技能

- .實務案例分析：分析實際案例，理解實務應用情境。
- .專業技能培養：學習特定領域所需專業技能。

3.團隊協作與溝通技巧

- .團隊合作：培養在跨學科團隊中協作的的能力。
- .溝通技巧：強化跨學科溝通的口頭和書面表達能力。

4問題導向學習和實作

- .問題定義：學習明確定義問題，設定研究目標。
- .實地實作：透過調查、實驗等方式解決問題，並撰寫研究報告。

Prerequisite

基本能力：

- 批判性思維：能夠分析、評估和合成不同學科的資訊，提出合理的觀點和解決方案。
- 溝通能力：具備書面表達能力，能夠清晰地解釋專業概念和研究成果。
- 問題解決能力：具備解決問題的能力，包括問題定義、設計解決方案和評估解決方案的能力。
- 團隊協作技能：能夠有效地與來自不同專業領域的同儕合作，協同完成專題研究。
- 自主學習能力：具備自主學習和主動探索新知識的能力，因為跨域研究常常需要不斷學習和應對新的挑戰。

先修課程：

- 1.研究方法論：了解和應用不同研究方法，包括定量和定性研究方法，以便能夠有效地設計和執行研究。

- 2.跨學科基礎課程：具備一些跨學科研究的基本知識，包括理解不同學科之間的交叉點和整合點。
- 3.專業領域知識：具有設計學院背景，以便能夠在跨學科研究中提供有價值的專業見解。

The Relationship Between Courses and Departmental Core Competencies and Basic Skills

-  創新人文思維論述及務實社會關懷實做能力
-  跨域設計開發與專業連結整合能力
-  國際移動學習與跨境創作實踐能力
-  多元性設計藝術拓展與新世代科技運用能力

Teaching Plan						
Core Capability	Weight(%) 【A】	Ability index(Performance Indicators)	Teaching Methods	Assessment and Weight	Core Competency Learning Outcomes 【B】	Final Exam Grades 【C=B*A 】
多元性設計藝術 拓展與新世代科 技運用能力	40	專業藝術理論的貫徹能力 發掘並定義設計議題之 能力 具備建立解決設計議題 程序的能力 專業藝術創作的執行能 力 跨領域整合專業知識, 創新研發能力 具備邏輯思辨的能力 使用者導向設計問題解 決能力 跨領域整合專業知識, 創新研發能力 具備以各種表現法工 具(2D,3D)呈現設計構想 的能力	Lecturing Case Study Practical Operation (Experiment, Machine Operation Group Work	Product Manufacturing: 30% Homework Assignment: 30% Final Exam: 30% Record on Experiment: 10%	Total: 100	40
創新人文思維論 述及務實社會關 懷實做能力	30		Lecturing Case Study Practical Operation (Experiment, Machine Operation Special Report	Product Manufacturing: 30% Homework Assignment: 30% Final Exam: 30% Record on Experiment: 10%	Total: 100	30
跨域設計開發與 專業連結整合能 力	20		Lecturing Special Report Practical Operation (Experiment, Machine Operation Case Study Group Discussion	Final Exam: 30% Homework Assignment: 30% Product Manufacturing: 30% Record on Experiment: 10%	Total: 100	20

國際移動學習與 跨境創作實踐能 力	10	Case Study Lecturing Practical Operation (Experiment, Machine Operation Special Report	Final Exam: 30% Homework Assignment: 30% Record on Experiment: 10% Achievement Presentation: 30%	Total: 100	10
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Grade Auditing

Homework Assignment: 30%
Final Exam: 30%
Product Manufacturing: 27%
Record on Experiment: 10%
Achievement Presentation: 3%

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

Book Type	Book name	Author
Instructor-compiled	跨域實務專題研究(二)	中魁魁

Lesson Plan

Weeks	Content	Teaching Methods
1	Course and Team Introduction & Intellectual Property Protection (use legitimate textbooks only) & Traffic safety Propaganda & Gender equality education promotion	Lecturing、Case Study
2	Introduction to Interdisciplinary Design (Design, Multimedia, Information Science, Social Sciences, etc.)	Lecturing、Case Study、Practical Operation (Experiment, Machine Operation
3	Topic Selection and Problem Definition _1	Lecturing、Group Discussion、Case Study、Practical Operation (Experiment, Machine Operation、Special Report
4	Topic Selection and Problem Definition _2	Lecturing、Case Study、Practical Operation (Experiment, Machine Operation
5	Literature Review _1	Lecturing、Group Discussion、Case Study
6	Literature Review _2	Lecturing、Group Discussion、Case Study、Practical Operation (Experiment, Machine Operation

7	Research Design and Methodology _1	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
8	Research Design and Methodology _2	Lecturing、 Group Discussion、 Case Study 、 Practical Operation (Experiment, Machine Operation
9	Midterm Project Production and Submission	Lecturing、 Case Study、 Special Report
10	Technical Training and Tool Usage _1	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation
11	Technical Training and Tool Usage _2	Lecturing、 Group Discussion、 Case Study 、 Practical Operation (Experiment, Machine Operation
12	Data Collection and Analysis _1	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Group Work
13	Data Collection and Analysis _2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Special Report
14	Results Presentation and Discussion _1	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Special Report
15	Results Presentation and Discussion _2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Special Report
16	Final Report Preparation _1	Lecturing、 Case Study、 Special Report
17	Final Report Preparation _2 & Flexible Teaching/Learning	Flexible Teaching - Independent Action、 Flexible Teaching - Communication and Interaction
18	Final Project Production and Submission & Flexible Teaching/Learning	Flexible Teaching - Independent Action、 Flexible Teaching - Communication and Interaction