113-1 Full Curriculum of Da-Yeh University

Information			
Title	Senior Project (1)	Serial No./ID	0393 /IFI3112
Required/Credit	Required /1	Time/Place	(Sun)1 /H708
Language	Chinese	Grade Type	Number
Lecturer /Full- or Part-time	Tsai Huan-Liang /Full-time	Graduate Class	Non-graduating Class
School System /Dept /Class, Grade	Bachelor /Department of Computer Science and Information Engineering /Class 1, Grade 3		
Office Hour / Place	(Mon) 16:20~17:10, (Tue) 08:10~09:00, (Wed) 08:10~09:00, (Thu) 08:10~09:00 / H715		
Lecturer	n.a.		

Introduction

A、大葉大學資訊工程學系碩士班教育目標 1、教育學生在資訊工程領域的專業知能。 2、培養學生獨立發掘、分析暨解決問題之能力。 3、培養學生溝通協調及跨領域整合之能力。 4、培養學生領導、管理及規劃之能力。 5、培養學生宏觀的國際視野。 6、培養學生終身學習及生涯規劃能力。 B、大葉大學資訊工程學系碩士班培育之核心能力 1.1 具備軟硬體設計與系統整合之能力。 1.2 具備至少以下一種特定資訊工程領域之專業知識：（1）IC設計與自動化（2）網路多媒體（3）知識工程（4）行動通訊。 2.1 具備應用相關數學、科學及工程原理解決工程技術或學術研究問題之能力。 2.2 具備撰寫研究成果報告之能力。 3.1 具備溝通與協調之能力。 3.2 具有團隊合作的能力。 4.1 具備專題策劃及專案執行之能力。 4.2 具備專案領導之技巧與時程管理之能力。 5.1 瞭解全球資訊研究及相關產業之發展現況與趨勢。 5.2 具備應用外語之能力。 6.1 瞭解終身學習的重要性及具備自我學習之能力。 6.2 具備使用圖書資訊與網路資源之能力。 課程目標：讓學生具有適當地英文論文閱讀與口頭報告的能力，培養學生獨立發掘、分析暨解決問題之能力，並且提升應用外語之能力。（A1、A2、A3、A5、A6、B1.2、B2.1、B3.1、B5.1、B5.2、B6.2）

Outline

專題研討

Prerequisite

無

The Relationship Between Courses and Departmental Core Competencies and Basic Skills

- 1.2 Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- 2.1 Ability to design and conduct experiments, as well as to analyze and interpret data
- 2.2 Ability to propose, conduct, and write the reports of a research project
- 2.3 Ability to dedign and integrate the systems
- 3.1 Ability to cooperate supportively with others and communicate effectively

3.3 Ability to engage in life-long learning

1.1 Knowledge of mathematics and physics for the application of information engineering

3.2 Understanding of engineering ethics and international vision

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】
1.2 Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	10	The practical abilities	Practical Operation (Experiment, Machine Operation Group Discussion Lecturing Special Report	Oral Report: 20% Product Manufacturing: 40% Course Participation: 20% Written Report: 20%	Total: 100	10
2.1 Ability to design and conduct experiments, as well as to analyze and interpret data	10	The professional abilities	Lecturing Group Discussion Special Report Practical Operation (Experiment, Machine Operation	Course Participation: 20% Product Manufacturing: 40% Written Report: 20% Oral Report: 20%	Total: 100	10
2.2 Ability to propose, conduct, and write the reports of a research project	10	The practical abilities	Lecturing Practical Operation (Experiment, Machine Operation Group Discussion Special Report	Course Participation: 20% Oral Report: 20% Product Manufacturing: 40% Written Report: 20%	Total: 100	10
2.3 Ability to dedign and integrate the systems	10	The professional abilities	Practical Operation (Experiment, Machine Operation Group Discussion Lecturing Special Report	Oral Report: 20% Product Manufacturing: 40% Course Participation: 20% Written Report: 20%	Total: 100	10

3.1 Ability to cooperate supportively with others and communicate effectively	10	The basic abilities	Practical Operation (Experiment, Machine Operation Group Discussion Lecturing Special Report	Oral Report: 20% Product Manufacturing: 40% Course Participation: 20% Written Report: 20%	Total: 100	10
3.3 Ability to engage in life-long learning	10	The basic abilities	Practical Operation (Experiment, Machine Operation Group Discussion Lecturing Special Report	Oral Report: 20% Product Manufacturing: 40% Course Participation: 20% Written Report: 20%	Total: 100	10
1.1 Knowledge of mathematics and physics for the application of information engineering	30	The professional abilities	Lecturing Group Discussion Practical Operation (Experiment, Machine Operation Special Report	Course Participation: 20% Product Manufacturing: 40% Oral Report: 20% Written Report: 20%	Total: 100	30
3.2 Understanding of engineering ethics and international vision	10	The basic abilities	Lecturing Group Discussion Practical Operation (Experiment, Machine Operation Special Report	Course Participation: 20% Product Manufacturing: 40% Oral Report: 20% Written Report: 20%	Total: 100	10

Grade Auditing

Product Manufacturing: 40%
Course Participation: 20%
Written Report: 20%
Oral Report: 20%

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

Book Type	Book name	Author
Instructor-compiled	專題實作報告	蔡渙良

Lesson Plan

Weeks	Content	Teaching Methods
1	Report and Discussions & Intellectual Property Protection (use legitimate textbooks only) & Traffic safety Propaganda & Gender equality education promotion	Lecturing、 Group Discussion
2	Report and Discussions	Lecturing、 Group Discussion
3	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
4	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
5	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
6	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
7	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation
8	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
9	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
10	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report

11	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
12	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
13	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
14	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
15	Report and Discussions	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Special Report
16	Report and Discussions	Group Discussion、 Practical Operation (Experiment, Machine Operation、 Special Report
17	Self-directed Learning & Flexible Teaching/Learning	Flexible Teaching - Independent Action、 Flexible Teaching - Communication and Interaction
18	Self-directed Learning & Flexible Teaching/Learning	Flexible Teaching - Independent Action、 Flexible Teaching - Communication and Interaction