課程中文名稱 Title of Course in Chinese：**企業雲端運算入門**

課程英文名稱 Title of Course in English：**Foundation of Business Cloud Computing**

應修系級 Major：**企業管理學系4A ，企業管理學系4B ，**

授課教師 Instructor：**謝棠桂**

戴敏育

選修類別 Required/Elective：**選**

全半學年 Whole or Half of the Academic Year：**半**學年

學　　分 Credit(s)：**3** 學分

時　　數 Hour(s)：**3** 小時

教師網址 Instructor's Website ：

教師專長 Instructor's Specialty ：數位行銷、服務創新、行動與電子商務

課綱附檔 Attachments ：

先修科目：

Prerequisites：

教學目標：
本課程主要介紹亞馬遜公司的雲端運算服務Amazon Web Services (AWS)，
對於想要全面瞭解企業雲端運算概念的同學，本課程將詳細介紹雲概念、AWS 核心服務、安全性、架構、
定價和相關支援等服務，並以通過認證AWS Certified Cloud Practitioner為目標。

Course Objectives：
This course introduces Amazon Web Services (AWS), the cloud computing service of
Amazon. For students who want to fully understand the concept of enterprise cloud computing, this
course will introduce the AWS Academy Cloud Foundations. Topics include Cloud Concepts Overview,
Cloud Economics and Billing, AWS Global Infrastructure Overview, AWS Cloud Security, Networking
and Content Delivery, Cloud Compute, Cloud Storage, Cloud Databases, Cloud Architecture, Cloud
Automatic Scaling and Monitoring, Cloud Project Presentation and Discussion, and Final Project
Presentation. The course objective is training students to pass the certification of AWS Certified Cloud
Practitioner.

內容綱要：
說明如何使用 AWS 帳戶的最佳實務
說明AWS架構完善的框架和設計原則
說明AWS高可用性和可靠性
描述AWS設計決策的業務影響
描述AWS如何設置組織結構以簡化帳單和提高帳戶可見性
說明AWS替代支援選項和功能

Course Outline：
This course introduces Amazon Web Services (AWS), the cloud computing service of
Amazon. For students who want to fully understand the concept of enterprise cloud computing, this
course will introduce the AWS Academy Cloud Foundations. Topics include Cloud Concepts Overview,
Cloud Economics and Billing, AWS Global Infrastructure Overview, AWS Cloud Security, Networking
and Content Delivery, Cloud Compute, Cloud Storage, Cloud Databases, Cloud Architecture, Cloud
Automatic Scaling and Monitoring, Cloud Project Presentation and Discussion, and Final Project
Presentation. The course objective is training students to pass the certification of AWS Certified Cloud
Practitioner.

學生核心能力關連(Student's Core Competence)：
(八大核心能力為百分比；合計100%；Total 100%)

企業管理學系 109年 系核心能力：

具備企業管理專業知識　0 %
具備發現問題、分析問題與解決問題之能力　50 %
具備邏輯思考與創新之能力　0 %
具備溝通與協調之能力　0 %
具備國際觀與資訊化之能力　50 %
具有企業倫理與社會責任之價值觀　0 %
[-]

校四大基本素養 **Four Fundamental Qualities**							
專業 Professionalism		人際 Interpersonal Relationship		倫理 Ethics		國際觀 International Vision	
創意思考與問題解決 (Creative thinking and Problem-solving) 50 %	綜合統整 (Comprehensive Integration) 0 %	溝通協調 (Communication and Coordination) 0 %	團隊合作 (Teamwork) 0 %	誠信正直 (Honesty and Integrity) 0 %	尊重自省 (Self-Esteem and Self-reflection) 0 %	多元關懷 (Caring for Diversity) 0 %	跨界宏觀 (Interdisciplinary Vision) 50 %

商學院學習目標(College Learning Goals)：

系所學習目標(Department Learning Goals)：

教學進度(Teaching Contents)：

週別 (Weekly Schedule)	日期 (Date)	教學預定進度 (Tentative teaching schedule) (若有調整，依教師實際授課為準;Adjustments are made according to instructor's actual teaching schedule)	教學方法與教學活動 (Teaching methods and activities)
Week 1	20210224	雲端概念概述 (Cloud Concepts Overview)	講授Lecture
Week 2	20210303	雲端經濟與計費 (Cloud Economics and Billing)	講授Lecture
Week 3	20210310	AWS全球基礎設施概述 (AWS Global Infrastructure Overview)	講授Lecture
Week 4	20210317	AWS雲端安全 (AWS Cloud Security)	講授Lecture
Week 5	20210324	網路和內容交付 (Networking and Content Delivery)	講授Lecture
Week 6	20210331	雲端計算 (Cloud Compute)	講授Lecture
Week 7	20210407	雲端儲存 (Cloud Storage)	講授Lecture
Week 8	20210414	雲端數據庫 (Cloud Databases)	講授Lecture
Week 9	20210421	雲端架構 (Cloud Architecture)	講授Lecture
Week 10	20210428	雲端自動擴展和監控 (Cloud Automatic Scaling and Monitoring)	講授Lecture
Week 11	20210505	學生自主學習 (Self-learning)	其他Others
Week 12	20210512	學生自主學習 (Self-learning)	其他Others
Week 13	20210519	學生自主學習 (Self-learning)	其他Others
Week 14	20210526	雲端專案成果報告與討論 (Cloud Project Presentation and Discussion)	講授Lecture
Week 15	20210602	學生自主學習 (Self-learning)	其他Others
Week 16	20210609	學生自主學習 (Self-learning)	其他Others
Week 17	20210616	學生自主學習 (Self-learning)	其他Others
Week 18	20210623	期末專案成果報告 (Final Project Presentation)	討論Discussion

評量方式(Evaluation Methods)：
課堂之前測(Pre-test) 0 %　　　　　　課堂之隨堂測驗(Quiz) 0 %
期中考-筆試(Mid-Term) 0 %　　　　　期末考-筆試(Final Exam) 0 %
個案分析報告(Case Report) 0 %　　　課堂參與(Class Participation) 20 %
個人報告(Individual Presentation) 80 %　團體報告(Group Presentation) 0 %
作業(Assignment) 0 %
其他評量方式(Other Evaluation Methods)
AWS認證成績

指定用書(Required Texts)：

參考書目(Reference Books)：

其他參考資料(Other References)：
www.awsacademy.com
www.awseducate.com
www.aws.training