

电子商务、金融科技和 电子商务网络编程技能的知识实践。

Knowledge of technologies and applications of E-Commerce,
Financial Technology (FinTech) and E-Commerce Web programming skills.



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学术伙伴 Academic Partners:



行业合作伙伴 Industry Partners:



FINANCIAL

软件工程 电子商务与 金融科技

暨IT工程技能

Software Engineering
E-Commerce and Financial Technology
(SECEF-DB)
 with IT Engineering Skills

- ▲ 80% 实践训练 / 80% Practical Skills
- ▲ 20% 理论 / 20% Theory
- ▲ 2年课程 / 2 Years Learning
- ▲ 16岁以上即可报读, 无需入学资格 / Entry Requirement: 16 Years Old & Above
- ▲ 教学媒介语以中文为主, 英文为辅 / Medium of Instruction: Chinese & Simple English

认证与注册鉴定单位 Accredited and Registered by:



软件工程 电子商务与金融科技

SOFTWARE ENGINEERING
E-Commerce and Financial Technology(SECCEP-DB)

2年课程 Years Course

本课程为因应资讯科技的迅猛发展及有以下意愿的学生而设：

This qualification was developed to keep pace with the fast changing information technology sector and for candidates who want :

- 在资讯与通讯科技(ICT)谋求职业发展。
Career progression within the Information and Communication Technology (ICT) industry.
- 掌握资讯业必须具备的知识和技能，成为专业的电子商务网站程序员、电子商务流动应用程序开发员、系统架构师、网页开发商等等。
To gain knowledge and skills needed to work in the E-Commerce industry as a professional software engineer, E-Commerce web programmer, E-Commerce mobile application developer, system architect, web developer and etc.
- 分析有助于成功应用电子商务的全球商业环境(例如“一带一路”)。
Analyze global business environments (such as “The Belt and Road”) conducive to successful application of e-commerce.
- 专注于金融科技和金融创新。
Focus on financial technologies and financial innovations.
- 了解金融科技行业发展的驱动力。
Understand the drivers of the development of the FinTech industry.
- 熟练使用标准工具来处理大型财务数据集。
Be proficient in employing standard tools for manipulating large financial datasets.

为期两年的软件工程技职课程为学生提供有关电子商务、金融科技(FinTech)、电子商务网络编程和电子商务移动应用程序开发技能的实践知识，以提高他们的教育和就业机会。

The two-year Vocational Course in software engineering provides student with hands-on knowledge of technologies and applications of E-Commerce, Financial Technology (FinTech), E-Commerce Web programming and E-Commerce mobile application development skills to enhance their educational and employment opportunities.

学生将学习 / Students will learn and be able to:

- 依据用户的要求以及系统与技术规范，掌握软件及应用程式的设计、开发、测试、维护及记录文档程式代码。
Software and applications design, develop, test, maintain and document programme code according to user requirements and system and technical specifications.
- 如何创建、维护和优化电子商务平台、包括最重要的登录页面，用户友好的导航和购物车。
How to create, maintain, and optimize a successful e-commerce site, including the all-important landing page, user-friendly navigation, and the shopping cart.
- 用C#、安卓移动(Android mobile)、Java及 iPhone/iPad、Objective C，在Windows视窗移动开发移动程式。
Mobile application development for Windows mobile using C#, Android mobile using Java, RxJava, Kotlin and iPhone/iPad using XCode, Objective C, Swift and etc.
- 网络程式开发包含在三个关键方法中，即：PHP/MySQL, Java and C#.NET (ASP)。
Web application development is included in three key approaches PHP/MySQL, Java and C#.NET (ASP).
- 具有R和Hadoop的大数据技术。通过Python学习数据科学。
Big Data Technologies with R and Hadoop. Data Science with Python.
- 用MySQL、物件导向分析与设计，面向对象程序设计(Object Oriented Analysis and Design)，开发数据库技术，以及用Visual Basic.Net, Java, C++开发基于Window视窗的应用程式等技术。
Skills in database development with MySQL, NoSQL, etc. Object Oriented Analysis and Design, and Window-based application development with Visual Basic.Net, Java, C++ and etc.
- 标记语言、网络设计、脚本、客户端编程、服务器端编程及数据库集成等。
Markup languages, web design, scripting, client-side programming, server-side programming, database integration and etc.
- 实践技能，例如：
Practical skills such as :
 - 电子商务基础架构，软件和硬件
E-commerce infrastructure, software and hardware
 - 电子零售和在线支付系统
Electronic retailing, and online payment systems
 - 电子商务协议和标准
Protocols and standards for e-commerce
 - 电子商务网站的设计、维护和管理
Design, maintenance and administration of e-commerce sites
 - 电子商务网站的安全性和隐私
Security and privacy of e-commerce sites

课程内容 | COURSE OUTLINE

- 编程概论
Introduction to Programming
- ICT实务技能
Practical ICT Skills
- 操作系统(Linux)
Operating System (Linux)
- 软件工程概论
Introduction to Software Engineering
- 资讯科技与社会
IT and Society
- 管理资讯系统
Managing Information Systems
- 电脑网络
Computer Networking
- 数码影像
Digital Imaging
- 系统分析与设计
Systems Analysis and Design
- 以Java编写物件导向程式
Object-oriented Programming using Java
- 以C++进行物件导向程式设计
Object-oriented Programming using C++
- 网络安全
Cyber Security
- 人机互动(HCI)
Human Computer Interaction (HCI)
- 网站设计与开发(HTML5, JavaScript & XML)
Web Design and Development (HTML5, JavaScript & XML)
- 财务管理创新技术
Technological Innovations in Finance
- 与工作相关的软技能
Work-based Soft Skills
- 电子商务网络应用程式开发(PHP)
E-Commerce Web Application Development (PHP)
- 数据库管理系统(MySQL, NoSQL)
Database Management Systems (MySQL, NoSQL)
- 移动应用程式开发 - Android(安卓)
(RxJava & Kotlin)
Mobile Application Development - Android (RxJava & Kotlin)
- 软件开发方法论
Software Development Methodologies
- 电子商务应用程式
E-Commerce Applications
- 职场英语 (1)
Workplace English communication (1)
- 职场英语 (2)
Workplace English communication (2)
- 数据结构与算法
Data Structures and Algorithms
- 区块链安全与隐私
Blockchain Security and Privacy
- 以C#进行物件导向程式设计
Object-orientated Programming using C#
- 区块链技术：应用和挑战
Blockchain Technologies: Applications and Challenges
- Python编程
Python Programming
- 电子商务移动应用程式开发- iOS
(Objective-C和Swift)
E-Commerce Mobile Application Development - iOS (Objective-C and Swift)
- 大数据、云端和机器学习
Big Data, Cloud Computing and Machine Learning
- 多链动手实验
Hands-on Lab with Multichain
- 电子商务/金融科技软件开发(毕业制作)
E-Commerce / Financial Technology Software Development (Major Project)

** Please note that the modules listed are indicative and may be subject to change.*



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评估标准 | ASSESSMENT

100%作业及实践练习，本课程提供电子商务与金融科技的理论20%与实践80%，聚焦于工作场所的实际应用。鼓励团队合作，让学生学会分组合作或单独工作以完成专题作业。

100% Assignment and Practical Exercises. The course offers both the theory (20%) and practice (80%) of Software Engineering with specialization in E-Commerce and Financial Technology skills, with a focus on the practical application of these skills in the workplace. Teamwork is encouraged and students learn to work in groups or individual to complete their projects.



考取资格 | QUALIFICATIONS

英国国立西苏格兰学院专业文凭和高级专业文凭
Diploma and Advanced Diploma awarded by West College Scotland, UK

台湾文凭(由台湾各大学颁发)
Diploma Qualification from Universities in Taiwan

第五级专业文凭(资格获得OFQUAL英国政府学历及考试评审局承认)
Level 5 Diploma (Regulated by OFQUAL - Office of Qualification & Examination Regulation)



就业前景 | CAREER PATHWAYS

电子商务软件工程师、金融科技软件工程师、软件开发工程师、软件工程师、软件系统分析师、互联网应用程序工程师、软件设计开发工程师、数据软件开发工程师、软件测试师、移动应用程序工程师、系统架构师、主程式员、IT研发工程师、网页软件工程师、网页设计师、多媒体软件工程师、IT项目经理等等。

E-Commerce Software Developer, Financial Technology Software Developer, Software Engineer, Systems Analyst, Web Programmer, UI Software Developer, Database Developer, Software Testing Engineer, Mobile Application Engineer, Systems Architect, Team-Lead Programmer, IT Developer, Web Application Developer, Web Designer, Multimedia Software Engineer, IT Project Manager, etc.