



课程设有实习
With Internship

网站与APP全端开发

Web and App Full Stack Development (SEWAD)

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28个月课程 Months Course

▲ 80% 实践训练
80% Practical Skills

▲ 20% 理论
20% Theory

▲ 教学媒介语以中文为主，
英文为辅
Medium of Instruction:
Chinese & Simple English

▲ 16岁以上即可报读，
无需入学资格
Entry Requirement:
16 Years Old & Above

▲ 课程设有实习
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这课程读什么？ | What Is This Course About?

想象你从头开始打造一个网站或App：画出界面、写出功能、接上资料库，再把它上线给全世界使用 – 这就是本课程的重点。

课程结合前端与后端开发技术，让你动手学习从界面设计、服务器逻辑、数据库整合，到系统上线的完整流程。你将实作多个项目，从零开始建立自己的数码作品集，也会接触如何将AI功能（像ChatGPT的API）整合进网站或App中，让你的作品更聪明、更好用。

随着越来越多企业、品牌与服务走向线上，马来西亚市场对“全端开发者”的需求持续增长。尤其是那种能一人包办界面与系统、还能将AI功能整合进商业应用的技术型新血，最受中小企业、初创公司与数码转型团队的青睐。

Imagine building a website or app from scratch - designing the interface, coding the features, connecting the database, and finally launching it for the world to use. That's the heart of this course.

This programme combines both frontend and backend development, guiding you through the full process of creating real digital products - from interface design and server logic to database integration and deployment. You'll complete multiple hands-on projects to build your own digital portfolio, and you'll also explore how to integrate AI features (such as ChatGPT's API) into your websites and apps to make them smarter and more useful.

As more businesses, brands, and services move online, the demand for full stack developers in Malaysia continues to grow. Especially valuable are those who can handle both the user interface and the system backend - and even bring AI features into commercial use. These are the tech talents most sought after by SMEs, startups, and digital transformation companies.

谁适合读？ | Who Is This For?

如果你做事讲顺序、喜欢把事情想清楚才动手，习惯自己一个人慢慢摸索、专注完成一件作品，而且对系统、逻辑或App背后的运作方式感兴趣，那这门课可能就是你要找的。

本课程特别适合逻辑思考能力强、喜欢静静坐着钻研问题，享受写代码与测试成果的学生。不需要你很会背书或考试，只要愿意一步步尝试，就能把自己的想法做成一个真实上线的网站或App。

这门课更适合喜欢思考流程、想办法解决问题，并享受看到自己成果的你。

If you're someone who likes to work in a structured way, prefers to think things through before taking action, enjoys exploring and figuring things out on your own, and is curious about how systems, logic, or apps work behind the scenes - this might be the course you've been looking for.

This programme is especially suitable for students who are logical thinkers, enjoy sitting down to solve problems quietly, and find satisfaction in writing code and testing how things run. You don't need to be great at memorizing or exams - as long as you're willing to try step by step, you can turn your ideas into fully working websites or apps.

This course is ideal for those who enjoy thinking through processes, finding ways to solve problems, and feeling that sense of achievement when something you built finally works.

学生将学会 | Students will learn and be able to:

- ▲ 使用 HTML5、CSS、JavaScript 进行网页界面开发
Build responsive web interfaces using HTML5, CSS, and JavaScript.
- ▲ 运用前端框架（如 React 或 Vue）开发动态网页与应用界面
Develop dynamic front-end interfaces using frameworks such as React or Vue.
- ▲ 使用后端语言（如 Node.js 或 PHP）处理服务器逻辑与数据通信
Implement backend logic and APIs using languages such as Node.js or PHP.
- ▲ 设计与管理数据库（如 MySQL、MongoDB），实现资料存取功能
Design and manage databases (e.g., MySQL, MongoDB) for data handling.
- ▲ 开发可在 Android 和 iOS 运行的跨平台手机应用程序
Develop cross-platform mobile applications for both Android and iOS.
- ▲ 完成系统部署、上线流程，并接触常用的云端平台服务
Deploy and launch systems, and work with common cloud service platforms.
- ▲ 运用 AI 接口（如 ChatGPT API）将智能功能嵌入网站与App中
Integrate AI features using APIs such as ChatGPT into web and app projects.
- ▲ 完成实战项目，建立个人网站与App开发作品集
Work on practical projects and build a portfolio of websites and apps.

课程内容 | COURSE OUTLINE

编程专业课 | Programming Core Courses

- 编程概论
Introduction to Programming
- 物件导向程序设计
Object-oriented Programming
- Python编程
Python Programming

专业主修课 | Specialization Major Courses

- 网站设计
Website Design
- 互动网页编程
Interactive Web Programming
- 网络应用开发 (1)
Web Application Development (1)
- 网络应用开发 (2)
Web Application Development (2)
- 手机应用开发 (1)
Mobile Application Development (1)
- 手机应用开发 (2)
Mobile Application Development (2)
- 全端开发
Full Stack Development
- 全端开发中的DevOps实践
DevOps Practices in Full Stack Development
- 人机互动界面设计
Human Computer Interaction (HCI)
- 生成式AI整合
Generative AI Integration
- AI应用
AI Applications

核心辅助课 | Supporting Core Courses

- 生成式AI工具
Generative AI Tools
- 作业系统
Operating System
- 网络基础
Networking Fundamentals
- 云端运算
Cloud Computing
- 信息安全管理
Information Security Management
- 网络架构与网页部署
Internet Infrastructure and Web Deployment
- 软体工程
Software Engineering
- 管理信息系统
Management Information System
- 电子商务与数码行销
E-Commerce & Digital Marketing

职场技能课 | Workplace Skills Courses

- ICT实务技能
Practical ICT Skills
- 简报技巧
Presentation Skills
- 职场软技能
Work-based Soft Skills
- 职场英文沟通 (1)
Workplace English Communication (1)
- 职场英文沟通 (2)
Workplace English Communication (2)

实习与专案课 | Industry Experience & Capstone

- 专案 (1)
Project (1)
- 专案 (2)
Project (2)
- 职场学习
Workplace Learning

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



评估标准 | ASSESSMENT

100%作业及实践练习，本课程网站与App全端开发的理论20%，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 Web and App Full Stack Development 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

Diploma awarded by West College Scotland, UK

英国国立西苏格兰学院高级专业文凭

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



就业前景 | CAREER PATHWAYS

在马来西亚，许多中小企业和新创公司在数码转型过程中，往往没有完整的技术团队，因此特别需要一个人或少数人就能搞定整套系统的全栈型人才。从公司官网、电商平台、内部系统，到客户后台、移动App，这些项目通常都需要开发者具备前端设计、后端逻辑、数据库整合与部署的能力。

尤其对中小企业来说，“越全能越吃香”。刚毕业时，你不一定要在某个领域做到很深，但如果你能掌握完整开发流程、懂得独立处理问题，就会更容易找到工作、建立履历、累积实战经验。等到经验更丰富后，你可以选择专注某个方向，或成为自由开发者、拥有更多发展选择。

常见就业岗位

毕业生可从事软件工程师、全栈开发工程师、前端开发员、后端开发员、Web应用开发员、移动应用开发员、软件工程师、IT支援员、系统整合助理、技术执行员及AI应用开发员等相关职位。

In Malaysia, many SMEs and startups do not have large tech teams. Instead, they need developers who can handle multiple parts of the system - someone who can manage both frontend and backend, or work with just a small team to get everything done.

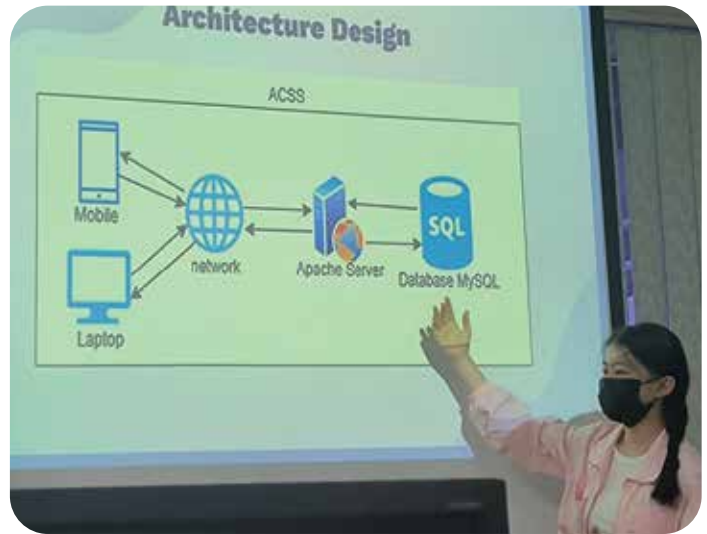
This makes full stack developers highly valuable, especially in smaller companies where versatility matters more than deep specialization. As a fresh graduate, you may not need to be an expert in every area, but if you can build a complete system from interface to database, troubleshoot problems, and deliver working results - you'll be far more employable and better positioned to gain real-world experience quickly.

With time and experience, you can then choose to specialize in a specific area, or continue freelancing and building complete systems independently.

Common Job Roles

Graduates may pursue careers as Software Engineer, Full Stack Developer, Front-End Developer, Back-End Developer, Web App Developer, Mobile App Developer, Software Engineer, IT Support, System Integration Assistant, Technical Executive, and AI Applications Developer.

全栈开发，从基础到实战，助你直通职场。
Full stack skills, real projects, career ready."



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