



课程设有实习
With Internship

网络安全与骇客技术

Cybersecurity & Ethical Hacking (ITCEH)

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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

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这课程读什么？ | What Is This Course About?

想象你能识破钓鱼网站、阻止恶意程式入侵、甚至模拟骇客攻击来找出系统的弱点 - 这门课就是教你成为这样的“网络守护者”。

本课程带你进入网络安全与合法骇客的世界，学习如何破解系统、分析漏洞、设置防火墙、进行渗透测试，并掌握攻击与防御两端的核心技巧。你将使用真实工具、模拟真实攻防情境，从实战中培养辨识威胁与建立防护的能力。

这是一门强调动手操作、实战导向的课程，适合对科技、破解、网络安全有兴趣的你。随着企业与社会越来越依赖数码系统，马来西亚对网络安全人才的需求也持续升温。现在，正是你加入这场“数码保卫战”的最好时机。

Imagine being able to detect phishing scams, stop malware from spreading, or simulate a hacker attack to uncover a system's weaknesses - this course trains you to become that kind of digital defender.

This programme introduces you to the world of cybersecurity and ethical hacking. You'll learn how to find vulnerabilities, conduct penetration tests, analyze system threats, and defend against real-world cyber attacks. You'll use professional tools, practice in hands-on scenarios, and develop both offensive and defensive skills.

This is a practical, action-based course designed for those who are curious about technology, security, and hacking from the legal, ethical side. As the world becomes increasingly digital, Malaysia's demand for skilled cybersecurity professionals continues to grow - and this course prepares you to step into that vital role.

谁适合读？ | Who Is This For?

如果你平常对电脑和网络特别感兴趣，遇到问题会自己查、也喜欢摸索系统设定，看别人解决电脑问题或讲骇客的影片时，会觉得很有趣，甚至想：“我也想学会那种技能”——那你可能就很适合这门课。

这门课特别适合喜欢动手尝试、好奇心强、对网络安全和破解技术感兴趣的学生。你不一定喜欢读很多书，但你可能很会研究设定、喜欢搞懂系统怎么运作，也常常会想：“这个东西能不能更安全？”

如果你对“别人怎么入侵系统，我要怎么防住”这类问题感到好奇，这门课就是你打开网络攻防世界的钥匙。

If you're someone who's really into computers and the internet, who looks things up when there's a tech problem, and likes playing around with system settings - and if you find it cool when people fix tech issues or explain how hacking works, maybe even thinking "I want to learn how to do that" - then this course might be for you.

This programme is perfect for students who are hands-on, curious, and interested in cybersecurity and hacking from the ethical side. You don't have to love reading tons of textbooks, but if you enjoy figuring out how systems work, exploring settings, and often find yourself thinking, "Could this be more secure?" - you're already on the right path.

If questions like "How do people break into systems - and how can I stop them?" excite you, then this course is your gateway into the world of cyber defense and ethical hacking.

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

- ▲ 掌握网络安全基本概念与信息防护思维。
Understand cybersecurity fundamentals and security mindset.
- ▲ 使用工具扫描系统漏洞与弱点。
Use tools to scan systems for vulnerabilities and weaknesses.
- ▲ 进行基础渗透测试与模拟攻击演练。
Perform basic penetration testing and simulated attacks.
- ▲ 设置防火墙、存取控制与入侵侦测机制。
Set up firewalls, access control, and intrusion detection systems.
- ▲ 分析网络流量、追踪攻击路径。
Analyze network traffic and trace attack paths.
- ▲ 探索合法骇客(白帽骇客)在企业中的角色与责任。
Explore the role and responsibilities of ethical hackers in real-world settings.
- ▲ 建立个人攻防实作项目作品集。
Build a personal portfolio with hands-on cybersecurity and defense projects.

课程内容 | COURSE OUTLINE

编程专业课 | Programming Core Courses

- 编程概论
Introduction to Programming
- 网站设计
Website Design
- 网络应用开发 (1)
Web Application Development (1)

专业主修课 | Specialization Major Courses

- 网络安全
Cyber Security
- 主机安全
Local Host Security
- 内部网络安全
Local Network Security
- 基础架构安全
Infrastructure Security
- 企业与工业网络安全
Enterprise & Industrial Cyber Security
- 渗透测试与漏洞评估
Penetration Testing & Vulnerability Assessment
- 网络黑客实战(骇入、破解与网络劫持)
Cyber Wars (Hacking, Cracking & Internet Jacking)
- 网络安全运维与自动化
Security Operations & Automation
- 数码与网络法律
Digital and Cyber Laws

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
- 系统管理
System Administration
- 网络路由与切换
Network Routing and Switching
- 广域网访问技术
Accessing the WAN
- 高阶网络技术
Advanced Networking
- 网络架构与网页部署
Internet Infrastructure and Web Deployment

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，本课程网络安全与骇客技术的理论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 Cybersecurity & Ethical Hacking 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

随着马来西亚企业、学校、零售商、工厂、医院等各行各业持续数字化，网络攻击、资料外泄、系统瘫痪等问题也越来越常见。

尤其在中小企业中，他们更需要“会设定、懂防护、能查问题”的实作型网络安全人才。因为企业内部系统只要出问题，就需要有人能第一时间处理。

刚毕业时，你可以从 IT 支援、系统设置、网络维护等岗位做起，逐步进入企业安全团队、IT部门或专职的网络安全公司。如果你够主动、喜欢挑战，也可以参与企业提供的“渗透测试”服务项目，帮企业找出安全漏洞，成为真正的“白帽骇客”。

常见就业岗位

毕业生可从事网络安全技术员、渗透测试助理、IT支援员、系统管理员、主机与网络安全设置员、入侵监测专员、企业安全支援员、技术执行员、SOC运维助理、网络管理员、网络支持工程师、信息安全助理等相关职位。

As Malaysian businesses, schools, retailers, factories, and hospitals continue to digitize, cyber threats - like system hacks, data leaks, and service disruptions - are becoming increasingly common.

SMEs in particular need practical cybersecurity professionals - those who can configure networks, secure endpoints, monitor activity, and troubleshoot real-world problems. When something goes wrong within the company's internal systems, they need someone who can respond immediately.

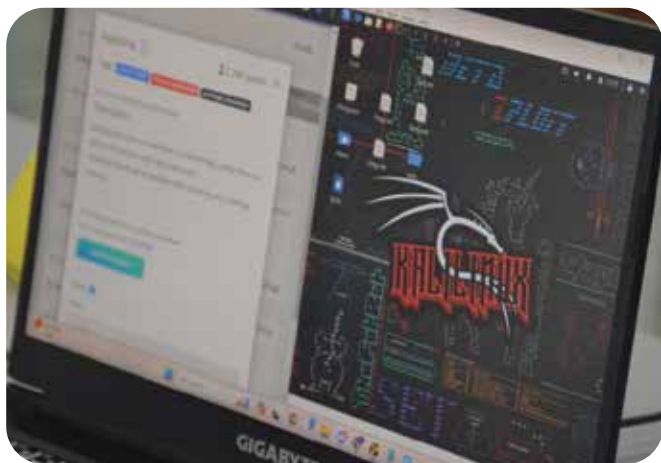
As a graduate, you can start in roles like IT support, system setup, or network administration, then move into security-focused positions in company IT teams or dedicated cybersecurity firms. If you're proactive and love solving problems, you may also find opportunities in penetration testing or freelance security consulting - helping companies identify and fix system vulnerabilities like a true "white hat hacker."

Common Job Roles

Graduates may pursue careers as Cybersecurity Technician, Penetration Testing Assistant, IT Support Staff, System Administrator, Host and Network Security Assistant, Intrusion Detection Specialist, Enterprise Security Support, Technical Executive, Security Operations Center (SOC) Operations Assistant, Network Administrator, Network Support Engineer, and Information Security Assistant.

世界越数码，你就越重要。

The more digital the world becomes, the more we need people like you.



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