Nova Academy
星光学院

Bachelor of

Information Technology
Software Engineering

软件工程学士

Certified By 波兰热舒夫信息技术与管理大学认证

UNIVERSITY of INFORMATION TECHNOLOGY and MANAGEMENT
in Rzeszow, POLAND

PROGRAM OVERVIEW

The Bachelor of Software Engineering is an undergraduate academic program that focuses on the principles, practices, and methodologies involved in the development and maintenance of software systems. Our curriculum is designed to provide students with a comprehensive understanding of both theoretical concepts and practical skills necessary for a career in software engineering.

CAREER OPPORTUNITIES

- **Software Developer/Engineer:** Design, code, test, and maintain software across domains like web, mobile app, or enterprise software development.
- **Web Developer:** Build and maintain websites with HTML, CSS, JavaScript and web development frameworks and technologies.
- **Mobile App Developer:** Develop mobile applications for platforms like iOS or Android.
- **Quality Assurance (QA) Engineer:** Ensure software quality by testing, debugging, and fixing software defects.
- **Database Administrator:** Manage and maintain databases.
- **System Analyst:** Analyze and design information systems of organisations.
- **Project Coordinator/Manager:** Oversee and manage software development projects.

CAREER OUTLOOK 职业前景

25%
Increase in jobs until 2032
就业机会增加率直至 2032 年

$105K
Average annual base salary in the US
平均年基本工资（美国）

41%
Software engineers work remotely
软件工程师皆远程工作

关于此课程

软件工程学士学位是一项本科学术项目，专注于软件系统的开发和维护涉及的原理、实践和方法论。课程设置旨在为学生提供对理论概念和实际技能的全面理解，使其具备在软件工程领域开展职业生涯所需的知识基础。

工作机会

- **软件开发者/工程师：** 负责软件应用的设计、编码、测试和维护，该角色涵盖网页开发、移动应用和企业软件等领域。
- **网页开发者：** 使用 HTML、CSS、JavaScript 与各种网页开发框架等技术构建和维护网站。
- **移动应用开发者：为**移动设备（如智能手机和平板电脑）开发应用程序，涉及使用苹果或安卓等平台。
- **质量保证（QA）工程师：** 通过测试、调试，确保软件质量，关键地识别并修复软件缺陷。
- **数据库管理员：** 管理和维护数据库，确保其安全、高效和合理组织。
- **系统分析师：** 分析和设计信息系统以满足组织需求，将业务流程转为技术需求。
- **项目协调员/经理：** 监督和管理软件开发项目，确保它们按时完成并在预算内。

Duration 学程

12 months

Assessment 评估

100% Coursework

100% 课程作业

Entry Requirement 入学标准

Any diploma and equivalent certification in IT.

拥有信息技术IT相关课程的文凭

Medium 教学语言

Curriculum is in English. Classes are conducted in English & Mandarin.

课程以英文为主，中英双语授课。

Programme Fee 课程费用

1st Semester:	RM 18,500
2nd Semester:	RM 12,000
3rd Semester:	RM 8,500
Grand Total:	**RM 39,000**

AREAS OF STUDY

- **Software Design and Architecture:** Understanding design and organisation of software systems, including software modelling, design patterns, and architectural principles.
- **Database Management Systems:** Studying database design, implementation, and management. Learning about SQL (Structured Query Language) and relational database concepts.
- **Software Testing and Quality Assurance:** Developing techniques for software testing to ensure reliability and quality, including manual and automated testing methods.
- **Software Development Methodologies:** Exploring development methodologies such as agile, waterfall, or iterative models. Learn how to plan, manage, and execute software development projects.
- **Project Management:** Acquiring skills in project planning, resource allocation, and team collaboration. This includes an understanding of project management tools and methodologies.
- **Programming Fundamentals:** Learning the basics of programming languages, algorithms, and data structures, including languages like Java, JavaScript, Python, and more.
- **Software Development Tools:** Familiarising with various software development tools, integrated development environments (IDEs), version control systems, and collaboration platforms.
- **Web Development:** Studying technologies and frameworks for building interactive websites, like HTML, CSS, JavaScript, and popular web development frameworks.
- **Mobile App Development:** Introduction to developing applications for mobile devices, covering platforms such as Android and iOS.

学习范围

- **软件设计与架构：** 了解如何设计和构建软件系统以满足特定要求。主题可能包括软件建模、设计模式和架构原理。
- **数据库管理系统：** 学习数据库设计、实施和管理。了解SQL（结构化查询语言）和关系数据库概念。
- **软件测试与质量保证：** 学习测试软件以确保其可靠性和质量的技术，包括手动和自动化测试方法。
- **软件开发方法论：** 探索不同的开发方法论，如敏捷、瀑布或迭代模型。了解如何规划、管理和执行软件开发项目。
- **项目管理：** 获得项目规划、资源分配和团队协作的技能。这包括对项目管理工具和方法论的了解。
- **编程基础：** 学习编程语言、算法和数据结构的基础知识。通常包括 Java、JavaScript、Python或其他语言。
- **软件开发工具：** 熟悉各种软件开发工具、集成开发环境（IDE）、版本控制系统和协作平台。
- **网页开发：** 探索用于构建动态和交互式网站的技术和框架，包括 HTML、CSS、JavaScript和流行的网页开发框架。
- **移动应用开发：** 介绍为移动设备开发应用程序的方法，涵盖 Android 和 iOS 等平台。

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