Higher Diploma in Computer Network and Systems Administration

HDCNSA

FACULTY OF
SCIENCE AND TECHNOLOGY

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83%*

Faculty Further Studies Rate

* Local / overseas institutions,
including non-government-funded programmes

Apply Now

Programme Features

The Higher Diploma in Computer Network and Systems Administration (HDCNSA) caters to students interested in the innovation and technology industry, focusing on computer infrastructure and computer networks in Hong Kong. Its comprehensive academic curriculum, practical training, and hands-on experience enable students to gain a solid grounding in computer science concepts and specialized knowledge in areas such as telecommunications, network administration, and system administration. Valuable industrial internship experiences, overseas summer exchange and study tour programmes prepare students for in-demand careers as Junior Network Specialists, Network Consultants, and Server and Network Administrators.

Graduate Outcome

The HDCNSA programme produces graduates who are well-equipped with the necessary skills and knowledge in computer network and systems administration, enabling them to excel in various roles such as network administrators, systems administrators, network consultants, and other related positions.

Competency Achieved

Students will achieve competencies in computer networking, system administration, network administration, programming, and ethical considerations in technology.

Main Subject Areas

Foundational Concepts and Mathematics
- Introduction to Programming
- Basic Calculus and Linear Algebra
- Discrete Mathematics
- Calculus
- Digital Electronics

Computer Organization and Networking
- Computer Organization
- Introduction to Computer Network
- Data Communication Theory
- Router Technology

Systems and Database Management
- System Administration
- Network Administration
- Database Systems and Design

Advanced Programming and Security
- Object-Oriented Programming and Design
- Data Structures and Algorithms
- Ethics in Technology
- Internet Security

Career Prospects

Graduates can pursue roles such as network administrators, systems administrators, IT consultants, network engineers, and database administrators.

Further Studies Pathways

(below is not exhaustive but only aims to show some examples)

University of Wollongong, Australia
- Bachelor of Computer Science

City University of Hong Kong
- Bachelor of Engineering in Computer and Data Engineering
- Bachelor of Science in Computer Science

Hong Kong Baptist University
- Bachelor of Science (Honours) in Computer Science

The Hong Kong Polytechnic University
- Bachelor of Science (Honours) Scheme in Computing and AI

The Hong Kong University of Science and Technology
- Bachelor of Science in Data Science and Technology
- Bachelor of Engineering / Bachelor of Science in Computer Science