

The Legal House – International Business College School of Electrical and Computer Engineering

7 Greenfield Parade
Bankstown 2200 NSW Australia

Computer Systems

Qualification: Master of Engineering in Computer Systems

National Code:

Course Number: SECE600

Nominal Hours: 576

Credit Points: 80

Vocational Area: Business and Information Technology

Program Area: Computer Systems and Technology

Overview

This course is for people who want to work in professional engineering jobs in the computer systems field of the computer technology industry. You will learn about the design, installation, commissioning, maintenance of computer systems and equipment. You will be trained how to analyse and define problems and provide strategies for their solution. You will be taught about new technologies in Computer Systems Engineering. You will be deepened the knowledge and skills in Computer Engineering. You will be expanded your managerial and policy knowledge.

Career Opportunities

Senior Computer Engineer, Senior Computer System Engineer, Senior Design Engineer, Senior Technical Engineer, Field Service Engineer, Computer Support Engineer, Computer Design Drafter, College Lecturer, Researcher in Universities.

Entry Requirements

Possess a Bachelor degree in Computer Systems of Engineering or equivalent qualification or possess academic, professional or other qualifications that will satisfy the Academic Board of the College that they have the capacity to undertake this postgraduate coursework course.

Course Contents

Student can select eight core units or seven core units and one elective unit.

| Core Units | Unit Names | Hours | Credit Points |
|-------------------|------------------------------------|--------------|----------------------|
| SECE105 | Computer Communications | 6 | 10 |
| SECE104 | Communication Protocol | 6 | 10 |
| SECE106 | Digital Communications Engineering | 6 | 10 |
| SECE101 | Advanced Data Networks | 6 | 10 |
| SECE111 | Wireless Communication | 6 | 10 |
| SECE107 | Digital Image Processing Systems | 6 | 10 |
| SECE108 | Error Control Coding | 6 | 10 |
| SECE109 | Satellite Communications Systems | 6 | 10 |
| SECE102 | Adv. Optical Communication Systems | 6 | 10 |

| Elective Units | Unit Names | Hours | Credit Points |
|-----------------------|------------------------------------|--------------|----------------------|
| SECE110 | Wavelets and Subband Coding | 6 | 10 |
| SECE112 | Applications in Telecommunications | 6 | 10 |