

MASTER OF TECHNOLOGY (SOFTWARE ENGINEERING)

Program offered: Sydney & Adelaide

CRICOS Code	Course Duration
080497G	2 Years

Program Structure

	COURSE NAME	CREDIT POINTS
	YEAR 1	
SEMESTER 1	ITECH1400 FOUNDATIONS OF PROGRAMMING	15
	ITECH3215 - INFORMATION SECURITY	15
	ITECH1006 - DATABASE MANAGEMENT SYSTEMS	15
SEMESTER 2	ITECH5500 - PROFESSIONAL RESEARCH AND COMMUNICATION	15
	ITECH7000 IT PROFESSIONAL ENGAGEMENT	15
	ITECH7201 - SOFTWARE ENGINEERING: ANALYSIS AND DESIGN	15
	ITECH5403 - COMPARATIVE PROGRAMMING LANGUAGES	15
	ITECH6401 - ENTERPRISE PROGRAMMING	15
	ITECH7401 - LEADERSHIP IN IT PROJECT MANAGEMENT	15
	YEAR 2	
SEMESTER 1	ITECH7409 - SOFTWARE TESTING	15
	ITECH5402 - ENTERPRISE SYSTEMS	15
	ITECH7403 - PROJECT 1	30
SEMESTER 2	ITECH7404 - PROJECT 2 (SOFTWARE DEVELOPMENT)	30
	ITECH7402 PROFESSIONAL IT CULTURE	15
	ITECH7410 - SOFTWARE ENGINEERING METHODOLOGIES	15

Program Overview & Objectives

Acquire specialist knowledge required to understand and implement advanced software engineering techniques.

Graduates of this program will have the specialist knowledge required to understand and implement advanced software engineering techniques - design, implement and maintain IT systems using a well-informed software engineering approach and create high quality software in a systematic and efficient manner. Graduates may find employment in a wide range of industries including security and defence, education, aerospace, health, business and finance.

As a software engineer you will create, maintain and modify computer software as well as analyse current software products. You will also evaluate new programming tools and techniques.

Graduates will:

- Understand the entire life cycle of software development
- Understand software engineering standards and why they are needed
- Appreciate the need for software engineering methodologies
- Understand the methods and techniques involved in designing, implementing and maintaining an information system, in particular using an object-oriented approach
- Analyse the causes of failure in information systems

Professional Recognition

Master of Technology (Software Engineering) is recognised by the Australian Computer Society.

Career Opportunities

As a software engineer you will create, maintain and modify computer software as well as analyse current software products. You will also evaluate new programming tools and techniques.

Graduates may find employment in a variety of industries with the production of medium to large scale software. Career opportunities include: Software Engineer, Systems Administrator, Systems Designer and Tester, Software Analysis, and Programmer.

Admission requirements

Completion of (at least) an undergraduate three year degree program, or equivalent from a recognised university

Required proficiency in English: IELTS overall band score of 6.0 with no band less than 6.0 TOEFL Paper 550 (TWE 4.0), TOEFL Computer 213 TOEFL iBT 60-79 with minimum of 13-Reading, 12-Listening, 18-Speaking, 21-Writing. Pearson 50 (no band score less than 50) and Cambridge 52 with no less than borderline in each skill.