Graduate Certificate in Information Technology
(Component Software and Web Services) (IT99)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Ernest Foo
Campus: Gardens Point

Course Overview
Please note: From 2009, this course is discontinued - please refer to IT85.

The Graduate Certificate in Information Technology consists of four designated units (48 credit points) which highlight career specialisations. The GCert IT (Component Software and Web Services) provides a firm basis for a career in web applications technology across a variety of platforms.

Entry Requirements
An approved Bachelor's degree in Information Technology from a recognised tertiary institution with a grade point average of at least 4.5 (7-point scale); OR provide other evidence of such qualifications (for example Recognised Prior Learning) and significant full-time IT work experience, as will satisfy the Dean of Faculty, that the applicant possesses the capacity to pursue the course of study.

Assumed skills: Programming skills at non-elementary level, including OO concepts, basic computer security, analysis skills (eg software engineering, systems analysis or enterprise modelling), relational database.

International students cannot gain direct entry to Graduate Certificates in IT as they are only currently available as part of a Masters program or an exit point.

International Student Entry
International students cannot gain direct entry into this program as it is offered on a part-time basis only.

Course Structure
Students can directly enrol in the Master of IT (IT Graduates)(IT40) and gain credit for one or more graduate certificate awards while completing the program. They may also exit or graduate early from the course upon the successful completion of a graduate certificate (48 credit points) and/or a graduate diploma (96 credit points).

Further Information
For further information about this course, please contact:

Ernest Foo
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Email: enquiry.scitech@qut.edu.au

IT99 - Graduate Certificate in IT (Component Software and Web Services)

Four (4) units to be completed

INN370  Software Development
INN372  Agile Software Development
INN373  Web Application Development
INN374  Enterprise Software Architecture

UNIT SYNOPSISES

INN370 SOFTWARE DEVELOPMENT
Understanding software development is an integral part of the IT industry for software engineers. Software development relies on object technologies, programming techniques and numerous code libraries provided by language developers and third party vendors. Integrated Development Environments, unit testing frameworks, automated and continuous build tools and versioning systems are all becoming part of the tool set modern software developers must be familiar with. This unit is designed to introduce these technologies and techniques to show how software can be rapidly developed.

Antirequisites: INB370  Assumed knowledge: INN270 is assumed knowledge.  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 SEM-1

INN372 AGILE SOFTWARE DEVELOPMENT
This unit introduces you to the software development process. You will look at each of the major activities involved in developing a software system. You will also learn how to manage and control the software development process for a large project when a number of team members are involved.

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members are involved in the development. This unit develops the professional practice of working on large software systems.

**Prerequisites:** INN370  
**Antirequisites:** INB372, ITB712, ITN662, ITN712, ITB612  
**Assumed knowledge:** Good programming, debugging, testing and software development skills.  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**INN373 WEB APPLICATION DEVELOPMENT**

This unit will provide you with an understanding of the issues, structure and technologies used for developing web-based systems. The unit will provide you with the theoretical and practical skills needed to develop enterprise critical applications designed with an n-tier architecture using state of the art technologies. A comparative technology approach is taken, including an analysis of how web technologies have evolved to date, in order to identify common themes and to better enable you to comprehend and critically evaluate future web technology offerings.

**Antirequisites:** INB373  
**Assumed knowledge:** INN271 is assumed knowledge.  
**Equivalents:** ITB716, ITN716  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**INN374 ENTERPRISE SOFTWARE ARCHITECTURE**

This unit aims to introduce you to the field of enterprise architecture. It attempts to give you a grounding in the basic knowledge and skills required by an enterprise architect. This includes a solid understanding of the IT challenges currently facing medium to large size organizations, the theory and technologies currently used to address them and an appreciation of the business imperative for which they are utilized.

**Prerequisites:** INN270, INB270, ITN700, or ITB003  
**Antirequisites:** INB374 and ITB717  
**Equivalents:** ITN717  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2