

# 7018INT

## Internet Programming II

### Semester 1 - 2006

Academic Organisation:	School of Information and Communication Technology
Faculty:	Faculty of Engineering and Information Technology
Credit point value:	10
Student Contribution Band:	Band 2
Course level:	Postgraduate
Campus/Location/Learning Mode:	Gold Coast / On Campus / In Person
Convenor/s:	Dr Phillipe Martin (Gold Coast)
Enrolment Restrictions:	Restricted: Approval from Head of School
This document was last updated:	1 March 2006

#### **BRIEF COURSE DESCRIPTION**

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This course establishes a foundation for advanced internet programming skills by examining tools, techniques and interactive web design and programming methodologies with an emphasis on internet server applications. Assessment is by assignments and final examination.

Prerequisite or corequisite: 7017INT Internet Programming I

## SECTION A – TEACHING, LEARNING AND ASSESSMENT

### COURSE AIMS

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Expertise and skills in Web technologies are very much sought after in the current Information Technology industry. This course is intended to present the students with the advanced knowledge needed for professional Internet publishing and Internet application development.

### LEARNING OUTCOMES

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Upon successful completion of the course students will:

- have an understanding of web servers and active server pages;
- be able to use the Common Gateway Interface (CGI), PHP, Perl and VBScript;
- be able to use XML to create web pages.

### CONTENT, ORGANISATION AND TEACHING STRATEGIES

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Problem solving skills are a basic requirement for students, both within the BInfoTech program and also in the Information Technology industry. This course develops these skills, initially from a heuristic point of view and then more formally.

<u>Type</u>	<u>Hours per Wk</u>	<u>Weeks</u>
Lecture	two	1 – 13 (inclusive)
Lab	One	1 – 13 (inclusive)
Tutorial	One	1 – 13 (inclusive)

The course will follow the chapters of the textbook as indicated in the following section. The students are expected to thoroughly read the textbook chapters and the extra materials provided. They are expected to ask for clarification whenever there are points that they have not understood.

This course will be taught in Mode B – Web Dependent in that all lectures and tutorials will be available on the Internet.

All relevant concepts will be introduced in lectures by first providing rationale / explanation and then followed up by a number of examples. Attendance and active participation at tutorials is strongly recommended and expected. The tutorials and assignments will permit not only to guide and but also assess students in their programming skills and uses of the softwares. The final examination allows students to demonstrate their ability under examination conditions.

## CONTENT SUMMARY

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The references of the followed textbook are given in a later section.

<b>Week</b>	<b>Topic</b>	<b>Reading</b>	<b>Lab Sessions</b>
1	Reminder on IP1 (XHTML, CSS)	Chapter 4, 5, 6	Exercises with XHTML, CSS and Javascript
2	Web Servers, Web Databases	Chapter 21,22	Exercises with Microsoft Access
3	PHP + CGI	Chapter 26	Exercises with PHP + CGI
4	PHP and Databases	Chapter 26	Exercises with PHP and databases
5	PHP (misc.)	Chapter 26	Exercises with PHP, CGI, and databases
6	Electronic Commerce; 1st class test	Chapter 38	Last review of progress on Assignment 1
7	Introduction to VBScript and ASP	Chapter 32, 33	Exercises with VBScript and ASP
8	Perl	Additional material	Exercises with Perl
9	CGI Perl	Chapter 25	Exercises with CGI Perl
10	CGI Perl (con't)	Chapter 25	Exercises with CGI Perl
11	Java Servlets	Chapter 36	Last review of progress on Assignment 2
12	XML	Chapter 20	Exercises with XML
13	2 <sup>nd</sup> class test		Various exercises; answers to 2nd class test
14	Examination Preparation		Study period
15/16	Examination Period		Final Exam 40%

## ASSESSMENT

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Item	Assessment Task	Length	Weighting	Total Marks	Relevant Learning Outcomes	Due Day and Time
1.	<i>1<sup>st</sup> class test</i>		5%	10	1, 2, 3	Lecture of Week 6
2.	<i>Tutorial exercises until Assignment 1</i>		10%	10	1, 2, 3	Next tutorial
3.	<i>Assignment 1</i>		15%	10	1, 2, 3	Tutorial of Week 7
4.	<i>2<sup>nd</sup> class test</i>		5%	10	1, 2, 3	Lecture of Week 13
5.	<i>Tutorial exercises until Assignment 2</i>		10%	10	1, 2, 3	Next tutorial
6.	<i>Assignment 2</i>		15%	10	1, 2, 3	Tutorial of Week 13
7.	<i>Final examination</i>	3 hours	40%	10	1, 2, 3, 4	Week 15 or 16

The assignments and tutorials encourage students to develop an in-depth understanding of the use of PHP, Perl and DHTML. They practice and assess the ability to apply the tools and techniques of web programming to real-world (case study) situations.

The final exam assesses the individual student's mastery of the course's underlying theory under restricted conditions. To gain a grade of pass or better students must obtain at least 40% in each of the four assessment items and gain a pass mark overall.

## GRADUATE SKILLS

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Graduate Skills	Taught	Practised	Assessed
Effective communication (written)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Effective communication (oral)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effective communication (interpersonal)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Information literacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem solving	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Critical evaluation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Work autonomously	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Work in teams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creativity and innovation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ethical behaviour in social / professional / work environments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Responsible, effective citizenship	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Skill Attributes	Level taught / practiced
Teamwork	Low
Problem solving & decision making	High
Analysis & critical evaluation	High
Written communication	Medium
Self-management skills	Medium
Inter-personal skills	Low
Oral communication	Low
Information skills	High
Adaptability & learning skills	High

## TEACHING TEAM

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Convenor Details	Gold Coast
Campus Convenor	Dr Philippe MARTIN
Email	p.martin@griffith.edu.au
Office Location	G09_1.15
Phone	(07) 5552 8252
Fax	(07) 5552 8066
Consultation times	Friday afternoon

## COURSE COMMUNICATIONS

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All the important announcements will be listed on the course web site. Questions should preferably be asked during the lectures or tutorials. If the nature or urgency of the question makes the previous communication mode inconvenient, the question should preferably be asked during consultation time, in the convenor's office or over the phone. E-mailing is also an option when, given the nature of the question, it is clearly as efficient as the previous forms of communications. At the end of each day, the students should also check messages posted on the course site on [Learning@Griffith](mailto:Learning@Griffith) but the students should avoid asking questions on this site.

## TEXTS AND SUPPORTING MATERIALS

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Textbook: H.M. Deitel, P.J.Deitel, T.R.Nieto, Internet and World Wide Web How to Program, 2003, ISBN#: 013030897-8

Support Material Required - (Supplied in Lab):

Microsoft Internet Explorer 5.0

Microsoft Internet Information Server

Recommended Readings: (additional to textbook):

Additional material will be made available on the Internet.

## **SECTION B – ADDITIONAL COURSE INFORMATION**

To be eligible to pass the course, students are required to complete ALL forms of assessment and must demonstrate a reasonable degree of competence in the required course objectives as examined in each form of assessment.

Students must obtain at least 40% in the each piece of assessment and 50% overall to gain a passing grade.

Non-submission of a piece of assessment will incur a fail grade for the course.

Students may work together in researching their assignments but final submission must reflect the work and original contribution of each individual student.

Any dishonest assignments will be dealt with under the rules applying in the University's Assessment Policy and the University's Policy on Academic Misconduct. Dishonest assignment includes:

- deliberate copying or attempting to copy the work of other students;
- use of or attempting to use information prohibited from use in that form of assessment;
- submitting the work or another as your own; or
- plagiarism (i.e. taking and using as your own the thoughts and writings of another with the intent to claim the work as your own).

Full and detailed acknowledgment (e.g. notation, and/or bibliography) must be provided if contributions are drawn from the literature in preparation or reports and assignments.

Documents for assessments must be created with a text editor, NOT with a Word processor.

Students must be able to produce a copy of all work submitted if so requested. Copies should be retained until after the release of final results for the course.

Assignment submissions must contain only files relating to that assignment. Submissions containing irrelevant files and / or viruses may NOT be assessed. Files must be named as advised by the course convenor. Files must have accurate date and time labels attached to them.

Assignment MUST be submitted by the due date and time. Extensions may be granted in exceptional circumstances by "Application for Extension" and MUST be made BEFORE the due date. Extension Application Forms are available from the Administration Office of the Faculty. Before an extension will be granted, a review of the work completed to date MUST be undertaken with the course convenor.

An assessment item submitted after the due date, without an approved extension, will be penalized. The standard penalty is the reduction of the mark allocated to the assessment item by 10% of the maximum mark applicable for the assessment item, for each day or part day that the item is late. Weekends count as one day in determining the penalty. Assessment items submitted more than five days after the due date are awarded zero marks awarded zero marks.

## SECTION C – KEY UNIVERSITY INFORMATION

### ACADEMIC MISCONDUCT

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Students must conduct their studies at the University honestly, ethically and in accordance with accepted standards of academic conduct. Any form of academic conduct that is contrary to these standards is academic misconduct, for which the University may penalise a student. Specifically it is academic misconduct for a student to:

present copied, falsified or improperly obtained data as if it were the result of laboratory work, field trips or other investigatory work;

include in the student's individual work material that is the result of significant assistance from another person if that assistance was unacceptable according to the instructions or guidelines for that work;

assist another student in the presentation of that student's individual work in a way that is unacceptable according to the instructions or guidelines for that work;

cheat; (Cheating is dishonest conduct in assessment);

plagiarise (Plagiarism is knowingly presenting the work or property of another person as if it were one's own.)

Visit the University's [Policy on Academic Misconduct](#) for further details.

### KEY STUDENT-RELATED POLICIES

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All University policy documents are accessible to students via the University's Policy Library website at: [www.griffith.edu.au/policylibrary](http://www.griffith.edu.au/policylibrary). Links to key policy documents are included below for easy reference:

[Student Charter](#)

[Academic Standing, Progression and Exclusion Policy](#)

[Student Administration Policy](#)

[Policy on Student Grievances and Appeals](#)

[Assessment Policy](#)

[Examinations Timetabling Policy and Procedures](#)

[Academic Calendar](#)

[Guideline on Student E-Mail](#)

[Health and Safety Policy](#)

### UNIVERSITY SUPPORT RESOURCES

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The University provides many facilities and support services to assist students in their studies. Links to information about University support resources available to students are included below for easy reference:

[Learning Centres](#) - the University provides access to common use computing facilities for educational purposes. For details visit [www.griffith.edu.au/cuse](http://www.griffith.edu.au/cuse)

[Learning@Griffith](#) - there is a dedicated website for this course via the Learning@Griffith student portal.

[Student Services](#) facilitate student access to and success at their academic studies. Student Services includes: Careers and Employment Service; Chaplaincy; Counselling Service; Health Service; Student Equity Services (incorporating the Disabilities Service); and the Welfare Office.

[Learning Services](#) within the Division of Information Services provides learning support in three skill areas: computing skills; library skills; and academic skills. The study skills resources on the website include self-help tasks focusing on critical thinking, exam skills, note taking, preparing presentations, referencing, writing, proof reading, and time management.