Te Hoe Rorohiko

Department of Computing

Bachelor of Information and Communication Technologies Graduate
Diploma in Information and Communication Technologies

Course outline for

Server Side Web Programming

BCPR294

Semester One, 2019

Introduction - Kōrero whakatuwhera

This outline contains important information about the delivery and assessment of this course. Read it carefully and if there is anything you do not understand please ensure you ask a staff member listed below for clarification.

Please refer to your **programme handbook** for all programme related information, for example programme structure and regulations, grade scale and assessment regulations.

Academic staff - Kā pouako

The following staff are directly involved with the delivery of this course:

Name	Role	Phone	Office	Office hours	Email address
Amit Sarkar	Tutor	940 8595	N213	Email for appointment	Amit.Sarkar@ara.ac.nz

Timetable - Wātaka

For timetable information for this course please refer to:

- Tribal – through the student portal; or
- Moodle – look in Department of Computing Student Info > Topic 6 Timetables; or
- Noticeboards – level 2 of N-block or C-block

Course descriptor - Whakamāramataka

Course Code	BCPR294	*Level*	6
Credits	15	*Notional Learning Hours*	150
Unit Standard	-		
Pre-requisites	BCIT141, BCPR280 and BCPR203		

Aim

To design and implement programmatically controlled web based interfaces for electronic commerce; to programme the main sub-components of electronic commerce; and to apply and analyse functionality design issues in online commerce.

Learning Outcomes

On completion the student will be able to:

1. Use a server side scripting language to program data base connection solutions and web to database interconnections; programme dynamic page generation for applications such as product displays, shopping carts, client management, order management and other online applications; and program a user-friendly client interface for a web service.
2. Analyse issues in server side programming with respect to best practice, and issues that exist in a server-side programming environment.
3. Design and implement and test small systems that require server side scripting
4. Use supplied classes for functionality such as PDF creation, database connection and query etc.

Assessment

No	Assessment Type	Pass Criteria	Weighting	Outcomes Assessed
1	Foundation Test		25%	1
2	Weekly Status Reports		10%	1-4
3	Project Mid-Course		15%	1-4
4	Project Final	50%	50%	1-4
To pass this course, students must gain an average of at least 50% across all assessments, and gain at least 50% in the Project Final.				

Learning and Teaching Strategies

Lectures, Practical Demonstrations, Discovery Learning, Active Experimentation, Research

NZQA Level Descriptors

The following descriptors outline what is expected of students studying a course at the specified level.

	Level 4	**Level 5**	**Level 6**	**Level 7**
Knowledge	Broad operational and theoretical knowledge in a field of work or study	Broad operational or technical and theoretical knowledge within a specific field of work or study	Specialised technical or theoretical knowledge with depth in a field of work or study	Specialised technical or theoretical knowledge with depth in one or more fields of work or study
Skills	Select and apply solutions to familiar and sometimes unfamiliar problems Select and apply a range of standard and non-standard processes relevant to the field of work or study	Select and apply a range of solutions to familiar and sometimes unfamiliar problems Select and apply a range of standard and non-standard processes relevant to the field of work or study	Analyse and generate solutions to familiar and unfamiliar problems Select and apply a range of standard and non-standard processes relevant to the field of work or study	Analyse, generate solutions to unfamiliar and sometimes complex problems Select, adapt and apply a range of processes relevant to the field of work or study
Application [of knowledge and skills]	Self-management of learning and performance under broad guidance Some responsibility for performance of others	Complete self-management of learning and performance within defined contexts Some responsibility for the management of learning and performance of others	Complete self-management of learning and performance within dynamic contexts Responsibility for leadership within dynamic contexts	Advanced generic skills and/or specialist knowledge and skills in a professional context or field of study

Assessments - Kā Aromatawai

Assessment	Brief	Date	Weighting
Foundation Test	Based on Syntax Exercises	**Friday 3 May 9:00am** in normal class time	25%
Weekly Status Reports	2% tests in class based on the 5 syntax exercises “homework” per week.	In class test in the first hour of class on Friday 8 March Friday 15 March Friday 22 March Friday 29 March Friday 5 April	10%
Project Mid-Course	Individual portfolios of work showing requirements as Behat Features and Scenarios, hard-coded html for a site, an ER diagram and SQL for a database and a class diagram of a <<Model>> and <Controller>>s.	**Friday 12 April 9:00am**	15%
Project Final	Individual portfolios of work showing that the dynamic web site has been implemented and explaining why it is SOLID and not DRY.	**Friday 5th July 9:00am**	50%

Assessment tasks - Kā tūmahi aromatawai

Teaching staff will provide you with specific details of what is required for each assessment in advance of the due date. This information may be uploaded to the appropriate course area in Moodle or be given to you in the form of a handout. Staff may also provide additional information, advice and tips regarding assessments during timetabled class sessions, so you are encouraged to attend class regularly.

Assessment criteria / Marking schedule - Kā paearu

Nearer the time of each assessment, teaching staff will provide you with information on the assessment criteria that will be applied and/or how marks will be awarded.

This will be in the BCPR294 course area on Moodle.

Course schedule - Maramataka

Week	Commencing	Topic
1	25 February	LESSON Introduction to PHP, MySQL and Apache. Overview of course and on-line resources.
2	4 March	Lesson and 2% TEST #1 **Portfolio Assignment released**
3	11 March	Lesson and 2% TEST #2
4	18 March	Lesson and 2% TEST #3
5	25 March	Lesson and 2% TEST #4
6	01 April	Lesson and 2% TEST #5 ASSIGNMENT SUPPORT
7	8 April	Lesson **15% Portfolio due Friday 12 April 9:00am**
Term break – Monday 15 April – Friday 26 April (Includes Easter Holiday 19 - 22 April and Anzac Day Thursday 25 April)		
8	29 April	**25% FOUNDATION TEST** **Friday 3 May 9:00am**
9	06 May	LESSON
10	13 May	LESSON
11	20 May	LESSON
12	27 May	LESSON
No Classes Monday 3 June – Queen's Birthday Holiday		
13	03 June	ASSIGNMENT SUPPORT
14	10 June	ASSIGNMENT SUPPORT
15	17 June	**STUDY WEEK**
16	24 June	EXAMINATION WEEK
17	01 July	EXAMINATION WEEK **50% PRESENTATION DUE Friday 5th July 9:00am**

Note: Students will be notified in advance if there are any changes to the course schedule.