

Course Outline

Title: WORLD WIDE WEB TECHNOLOGY 2

Code: ITECH6224

Formerly: CP892

Faculty / Portfolio: Faculty of Science and Technology

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate						
Advanced			✓			

Pre-requisites: (CP585 or CP872 or ITECH1004 or ITECH5004) and ITECH1000 and ITECH1006

Co-requisites: Nil

Exclusions: (CP688 and ITECH3224)

Credit Points: 15

ASCED Code: 029999

Learning Outcomes:

Knowledge:

- K1.** identify the technologies and protocols that enable the modern web
- K2.** contrast the capabilities and limitations of client-side and server-side programming
- K3.** detect opportunities for increasing security and privacy of web applications

Skills:

- S1.** develop client/server programs using client-side and server-side programming languages
- S2.** construct a server-side web interface to a database system that is accessible by web clients
- S3.** design and implement a server-side application programming interface (API) for client-server communication, using technologies such as AJAX, REST, Websockets, XML and JSON

Application of knowledge and skills:

- A1.** Design, develop, test, and debug client/server web applications to provided specifications

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Values and Graduate Attributes:

Values:

- V1. Develop problem-solving skills and self reliance
- V2. Respect the safety and privacy of the users of web applications

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	In a blended learning approach facilitated by the use of a contemporary industry based programming language and development environment requiring planning, development and implementation of client/server and enterprises software solutions, students will continue to develop their knowledge and skills.	High
Self Reliance	Students will participate in a self-directed and collaborative learning environment to develop their theoretical and technical expertise in the field of software development.	Medium
Engaged Citizenship	Students will produce programming solutions which meet industry standards.	Medium
Social Responsibility	Students will use industry standard development environments, programming languages and development techniques to deploy software solutions.	Medium

Content:

This course examines the protocols and technologies that enable the World Wide Web. Server-side web programming is introduced, which is used to build an online database application. Client-side scripting is given an in-depth treatment, building on earlier web courses. Finally, methods for communicating between the web client and server are studied in detail

Assessment:

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
K1, K2, K3, S1, S2	Completion of lab exercises	Completion of lab exercises	10%
K3, S1, S2, A1	Creation of an online web interface to a database system	Individual Practical Project	15-25%
K2, K3, S1, S2, S3, A1	Creation of a dynamic client-server web application	Individual Practical Project	15-25%
K1, K2, K3, A1	Attend lectures, read and summarise theoretical aspects of the course	Examination(s)	40-60%

Adopted Reference Style:

APA

Presentation of Academic Work:

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[FedUni General Guide to Referencing](#)