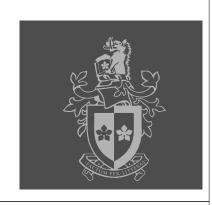


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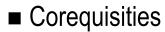
#### COS10011/60004

**Creating Web Applications** 

**Unit Overview** 



# **Corequisities**



☐ We assume you have done or are currently doing a basic programming level unit, *or* have equivalent experience.





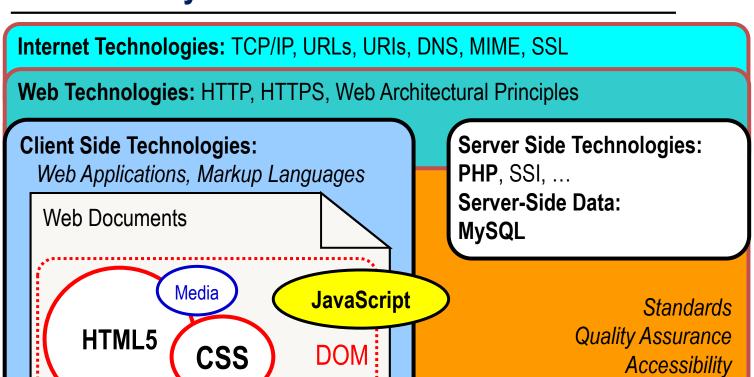
### This Lecture ...

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- **■**Unit overview
- ■Introduction to the Web



# **Unit of Study Outline**



XML

**Usability** 

Security

# Concepts we will cover

- Internet protocol stack
- TCP/IP, DNS
- HTTP, URL/URIs
- HTML, DOM
- **Client-Server architectures**
- **Programming Clients and Servers**

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# Web Languages you will learn

□HTML5 (XML)

□ CSS rules

□JavaScript (DOM)

**□PHP** 

**□ MySQL** 

□...

Mark Up languages

Programming languages

Database query language

# **Using tools**

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UU	WE	WI	l use

- □ Validators
- □ Editors (Notepad ++)
- ☐ Browser plugins e.g. DOM inspectors, validators

#### ■ Tools we won't use

- ☐ Web development frameworks e.g., Dreamweaver
- □ Mobile app development frameworks
- □ Content management systems
- ☐ Server-side Web application frameworks e.g. ASP.NET, JSP, Ruby on Rails...
- ☐ JavaScript Frameworks / Libraries e.g. jQuery, AngularJS, MooTools, ...

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#### **Tutorials**

- You will be given lab exercises to complete in tutorials.
- 10 labs in total (worth 10% of the final assessment)
- Lab exercises to be marked off before the next lab. Work will not be assessed after that.
- It is a good idea to do the lab exercises *prior* to your tutorial.

For example, for lab 2, it is suggested that you do the lab 2 exercises prior to your Week 2 tutorial. During the Week 2 tutorial you can discuss any questions with your tutor and get your work marked off. Your lab 2 can also be marked off before your lab in Week 3.

## **Online Quizzes**

- Aim: refresh the concepts covered in the previous lectures.
- Five Quizzes in total in Weeks 3, 5, 8, 10, 12
- To be completed online at your convenience from Monday to Friday.
- Largely multiple-choice.
- Open book.
- Worth 10% of your final assessment.

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### **Discussions on Canvas**

- Please post your questions on the Discussions board on Canvas.
- You can also answer other students' questions on Discussions board.
- Discussions board will be monitored by tutors.
- In regard to other issues, your tutors will be the first contact point.



#### Assignment – developing a web site

There is a single assignment with 3 assessable incremental instalments.

- ■Part 1 (20%) demonstrate your ability to develop and deploy on a web-server, well-structured, linked HTML5 web pages with text, graphics, forms and tables, styled with CSS.
- ■Part 2 (30%) further extends the use of HTML elements and makes use of client-side JavaScript to validate forms and add dynamic behaviour to the web pages.
- ■Part 3 (30%) further extends the web pages, making use of serverside PHP to submit and retrieve data through MySQL from a serverside database.

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