UNIVERSITI TEKNOLOGI MARA
ASM454: INTERNET TECHNOLOGY AND WEB DESIGNING

Course Name (English)	INTERNET TECHNOLOGY AND WEB DESIGNING APPROVED
Course Code	ASM454

MQF Credit	4

Course Description	The course is designed to prepare students to work and live in a high-tech environment by introducing them to the necessary resources, tools and skills. Students will learn Internet tools to access and, retrieve information, evaluate information found on Web pages, develop netiquette skills, and discuss current issues and trends in telecommunications. In addition, the course will also focus on designing and developing a web site.

Transferable Skills	Students should be able to learn Internet tools to access and, retrieve information, evaluate information found on Web pages, develop netiquette skills, and discuss current issues and designing and developing a web site.

Teaching Methodologies	Lectures, Blended Learning, Lab Work, Demonstrations

CLO	CLO1 Describe the evolution of the Internet and World Wide Web. CLO2 Use Internet tools to obtain information CLO3 Apply theoretical concept of Web design CLO4 Produce and publish an effective Web site

Pre-Requisite Courses	No course recommendations

Topics
1. 1.0 Introduction to the Internet and the World Wide Web 1.1) 1.1 Internet and World Wide Web 1.2) 1.2 Uses for the Internet 1.3) 1.3 Computer Networks 1.4) 1.4 Origins of the Internet 1.5) 1.5 Growth of the Internet 1.6) 1.6 World Wide Web 1.7) 1.7 Business of Providing Internet Access
2. 2.0 Web Browser 2.1) 2.1 Understanding the Internet and the World Wide Web 2.2) 2.2 Website Organization 2.3) 2.3 Addresses on the Web 2.4) 2.4 Main elements of Web Browser 2.5) 2.5 Returning to Web Pages Previously Visited 2.6) 2.6 Cookies 2.7) 2.7 Printing and Saving Web Pages 2.8) 2.8 Other Web Browser Choices
3. 3.0 Basic Communication on the Internet: E-mail 3.1) 3.1 What is E-mail and How Does It Work? 3.2) 3.2 Common Features of an E-mail Message 3.3) 3.3 Common Features of an E-mail Programs 3.4) 3.4 Maintaining and Address Book 3.5) 3.5 E-mail Programs and a Web-based E-mail service

4. 4.0 Searching the Web
4.1) 4.1 Types of Search Questions
4.2) 4.2 Web Search Strategy
4.3) 4.3 Using Search Engines and Directories
4.4) 4.4 Complex Searches with Boolean Logic
4.5) and Filtering Techniques
4.6) 4.5 Evaluating Web Research Resources

5. 5.0 User-Generated Content on the Internet
5.1) 5.1 Push and Pull Communications
5.2) 5.2 Email-Based Communication on the Internet
5.3) 5.3 Getting Information from Newsfeeds
5.4) 5.4 Podcasting
5.5) 5.5 Mashups
5.6) 5.6 Social Bookmarking Sites
5.7) 5.7 Chat
5.8) 5.8 Using Social Networks to Share Information
5.9) 5.9 Online Networks
5.10) 5.10 Blogs
5.11) 5.11 Protecting Privacy and Identity on Online Networks

6. 6.0 Developing a Basic Web Page Using HTML
6.1) 6.1 Understanding HTML
6.2) 6.2 Understanding Markup Language
6.3) 6.3 Creating HTML Documents
6.4) 6.4 Using Images in HTML Document
6.5) 6.5 Using Anchors
6.6) 6.6 Adding Links to a Web Page

7. 7.0 Using Web Site Development Tools
7.1) 7.1 Evaluating Web Site Content
7.2) 7.2 Using Web Site Management Tool
7.3) 7.3 Choosing Other Development Tools
7.4) 7.4 Choosing a Web Hosting Service
7.5) 7.5 Publishing a Web Site

8. 8.0 Variables in the Web Design Environment
8.1) 8.1 Browser Compatibility Issues
8.2) 8.2 Connection Speed Differences
8.3) 8.3 Coding for Multiple Screen Resolution
8.4) 8.4 Operating System Issues

9. 9.0 Web Site Design Principles
9.1) 9.1 Design for the Medium
9.2) 9.2 Design for the Whole Site
9.3) 9.3 Design for the User
9.4) 9.4 Design for the Screen

10. 10.0 Planning the Site
10.1) 10.1 Create a Site Specification
10.2) 10.2 Identify the Content Goal
10.3) 10.3 Analyze your audience
10.4) 10.4 Building a Web Site Development Teams
10.5) 10.5 Filenames and URLs
10.6) 10.6 Directory Structure
10.7) 10.7 Diagram the Site

11. 11.0 Planning Site Navigation
11.1) 11.1 Creating Usable Navigation
11.2) 11.2 Using Text-based Navigation
11.3) 11.3 Using Graphic-based Navigation

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment 1	10%	CLO1
	Assignment	Assignment 2	20%	CLO2
	Group Project	Group Project	30%	CLO4
	Test	Test	40%	CLO3

Reading List	Recommended Text	• Schneider, G.P. and Evans, J. 2013, *The Internet*, 9 Ed., Thomson Learning. Inc Boston • Sklar, Joel 2012, *Web Design Principles*, 9 Ed., Thomson Learning Inc Boston
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	