MULTIMEDIA UNIVERSITY®

COURSE INFORMATION

1.	**Name of Course**	Internet and Web Publishing
2.	**Course Code**	DCS5288
3.	**Type of Course** (e.g. : Core, major, elective etc.)	Core/Major
4.	**Synopsis**	This course introduces student to enabling technologies behind the internet and the world wide web. Students will also learn to develop a dynamic website by using HTML, CSS, JavaScript and PHP.
5.	**Version** (State the date of theSenate's approval - previous and the current approval date)	Current: Oct 2017 Previous: ADC 0915 Senate 181 Nov 2015
6.	**Name(s) of Academic Staff**	**Usha Vellappan**, Nurasma' Shamsuddin, **Suhaimi Sarip**
7.	**Semester and Year Offered**	Year 2 Trimester 2
8.	**Credit Value**	4
9.	**Pre-Requisite**	DCS5038 Program Design
10.	**Objective of the course in the programme:**	
	To introduce the concepts of the Internet and the technologies behind the design of a full-fledged website. Students will also be exposed to the tools and development of dynamic and interactive client and server side applications.	
11.	**Justification for including the course in the programme:**	
	This subject will provide a theoretical concept as well as practical training on web design and web application development.	
14.	**Transferable Skills:**	
	Teamwork, Problem solving skills	
15.	**Distribution of Student Learning Time (SLT)**	

Course Content Outline	**CLO	Teaching and Learning Activities Guided Learning (F2F)*				Guided Learning (NF2F)*	Independent Learning (NF2F)*	Total SLT
		*L	*T	*P	*O			
1 **Topic 1 : Internet** This chapter reviews introduction to networking, history of the Internet and advantages of the Internet. This chapter also discusses on Client Server architecture, TCP/IP basics, IP addresses, types of URLs and protocols and the important terms in the World Wide Web.	1	3					3	6
2 **Topic 2 : Web Page design** This chapter introduces on developing and planning a Web Site. Introduction to the different HTML tags (formatting tags, hyperlinks, lists, tables, forms). The chapter also covers multimedia concepts such as including video and audio into webpages.	1,2,3,4	8		6	1	3	7	25
3 **Topic 3 : Cascading Style Sheets (CSS)** Introduces the concept of External, Internal and Inline Cascading Style Sheets. Usage of selectors for CSS style rules. Selecting elements by name, class and id. Incorporating parent elements in styling.	1,2,3,4	7		6	1	3	7	24
4 **Topic 4 : Client side scripting using JavaScript** An introduction to JavaScript scripting will be covered in this chapter. This chapter includes creating variables, selection structures, looping structures and functions. This chapter also covers techniques of combining form elements with JavaScript to create interactive webpages. Introduction to jQuery and its applications.	1,2,3	7		6	1	3	7	24
5 **Topic 5 : PHP and MySQL** This chapter covers the concept of server side programming. Setting up local server to run PHP applications. Creating MySQL databases to store data and incorporate with PHP. Introduction to PHP syntax. Database connectivity, basic SQL queries to access and manipulate database. Apply session variables and user authentication to create simple dynamic web application.	1,2,3	9		6	1	3	10	29
							Total SLT	**108**

SUMMATIVE ASSESSMENT

1. Continuous Assessment	Percentage %	Total SLT
Online/Written quizzes	10%	6
Lab submissions	10%	6
Assignments	10%	10
Project	10%	6
Written test	10%	10

		Total SLT for Continuous Assessment	38	

2. Final Assessment	Percentage %	Total SLT	
		F2F	ILT
Final Exam	50%	2	12
Total SLT for Final Assessment (F2F + NF2F)		14	

Grand Total	100%	160

**Indicate the CLO based on the CLO's numbering in Item 12.
*L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Face to Face, NF2F*= Non Face to Face

16 .	**Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room):**
	Computer Lab, Xampp (Open source).
17 .	**Main References:**
	Connolly, R., and Hoar, R. (2015). Fundamentals of Web Development.: Pearson.
18 .	**Additional References:**
	1. Sebesta, R. W. (2014). Programming the World Wide Web, (8th Edition).: Addison Wesley.
	2. MacDonald, M. (2013). HTML 5: The Missing Manual, (2nd Edition).: O'Reilly Media.
	3. Gilmore, W.J., and Kromann, F. (2015). Beginning PHP and MySQL: from Novice to Professional, (Fifth Edition).: Apress.