MULTIMEDIA UNIVERSITY®

SUMMARY OF INFORMATION ON EACH COURSE

1.	Name of Course	Web Application Development
2.	Course Code	TIS2151
3.	Status of Course [Applies to (cohort)]	Specialization Elective for B.CS (IS) and Elective for all other B.CS Specializations.
4.	MQF Level/Stage Note : *Certificate – MQF Level 3* *Diploma – MQF Level 4* *Bachelor – MQF Level 6* *Masters – MQF Level 7* *Doctoral – MQF Level 8*	*Bachelor – MQF Level 6*
5.	Version (State the date of the Senate approval – history of previous and current approval date)	Previous: June 2014 Current: September 2016
6.	Pre-Requisite	NIL
7.	Name(s) of academic/teaching staff	Aziah binti Ali Khairil Imran bin Ghauth
8.	Semester and Year offered	Trimester 2 (delta)
9.	Objective of the course in the programme : To equip students with fundamental knowledge of Web programming and scripting techniques for building web applications.	
10.	Justification for including the course in the programme : To provide students with general web programming knowledge and web building skills.	

11.

Course Learning Outcomes :	Domain	Level
LO1: Identify the principles for effective Web page design	Cognitive	1
LO2: Distinguish Web programming languages	Cognitive	2
LO3: Develop Web-based applications	Cognitive	6

12. Mapping of Learning Outcomes to Programme Outcomes :

Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1							X		
LO2							X		
LO3								X	X

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13. Assessment Methods and Types :

Method and Type	Description/Details	Percentage
Lab Test	Web Programming	20
Test	Written	20
Assignments	Web Programming Projects	20
Final Exam	Written Exam	40

14. Mapping of assessment components to learning outcomes (LOs)

Assessment Components	LO1	LO2	LO3	
Assignments	X	X	X	
Test	X	X		
Lab test			X	
Final Exam	X	X		

15. Details of Course

Topics	Mode of Delivery (eg : Lecture, Tutorial, Workshop, Seminar, etc.) Indicate allocation of SLT (lecture, tutorial, lab) for each subtopic	
	Lecture (Hrs)	Lab (Hrs)
1. Introduction to the World Wide Web Introduction, The evolution of The Internet and World Wide Web, Web basics, Multi-tier Application Architecture, Client-side Scripting vs Server-side Scripting, World Wide Web Consortium (W3C)	2	2
2. Introduction to HTML5 Introduction, Editing HTML5, W3C Validation service for HTML5, Headings, Linkings, Images, Lists, Tables, Forms, Meta Elements, HTML5 Form input Types, Datalist Elements and autocomplete Attribute, Page-Structure Elements	6	6

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	3. Introduction to Cascading Style Sheets (CSS) Introduction, Inline Styles, Embedded Style Sheets, External Style Sheets, Positioning Elements, Backgrounds, Element Dimensions, Box-model and Text-flow, Media Queries to customize Contents for Mobile Devices	4	4
	4. Client-side Scripting: Javascript Introduction, JavaScript Editing, Obtaining user inputs, Memory Concepts, Arithmetic, Equality and Relational Operator, Control statements I : if Statement, if..else Statement & while Statement, Assignment Operators, Increment and Decrement Operators, Control Statements II: for Statement, switch Statement & do..while Statement, Logical Operators, JavaScript Functions, JavaScript Arrays	4	4
	5. Mobile App Using HTML5 and Javascript Introduction, Mobile App Platforms, Creating Mobile App, Editing App, Packaging App	4	4
	6. Web Design Introduction, Web Application Design Steps, Wireframe	2	2
	7. Web servers and Databases: Server-side Scripting Introduction, Accessing Web Servers, Database and PHP Installation, Web Servers, Introduction to PHP, PHP Scripting, Form Processing, Database Access & Cookies, Website Maintenance	6	6
		28	28

Total Student Learning Time (SLT)	Face to Face / Guided Learning	Independent Learning
Lecture	28	28
Lab Test	1	3

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	Laboratory/Practical	28	28
	Presentation		
	Assignment	1	18
	Mid Term Test	1	4
	Final Exam	2	18
	Sub Total	61	99
	Total SLT	160	
16.	Credit Value	4 (160 / 40) = 4	
17.	Reading Materials :		
	Textbooks		
	Deitel, P., Deitel H., & Deitel A. (2012). Internet & World Wide Web: How to Program (5th Edition). England: Pearson		
	Reference Material (including 'Statutes' for Law)		
	Sebesta R.W. (2011). Programming the World Wide Web (6th Edition).US: Pearson		

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Appendix (to be compiled when submitting the complete syllabus for the programme) :

1. Mission and Vision of the University and Faculty
2. Programme Objectives or Programme Educational Objectives
3. Programme Outcomes (POs)
4. Mapping of POs to the 8 MQF domain
5. Summary of the Bloom's Taxonomy's Domain Coverage in all the Los in the format below :

Subject	Learning Outcomes (please state the learning 0utcomes)	Bloom's Taxonomy Domain		
		Affective	Cognitive	Psychomotor
ABC1234	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			
DEF5678	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			

6. Summary of LO to PO measurement
7. Measurement and Tabulation of result for LO achievement
8. Measurement Tabulation of result for PO achievement