COURSE INFORMATION

School/Faculty:	School of Computing	**Page:**	1 of 7
Program name:	Bachelor of Computer Science (Graphics and Multimedia Software)		
Course code:	SECV 1223	**Academic Session/Semester:**	20222023/2
Course name:	WEB PROGRAMMING	**Pre/co requisite (course name and code, if applicable):**	
Credit hours:	3		

Prepared by: Course Owner SCSV1223 Web Programming		Certified by:	
Name:	Nor Anita Fairos binti Ismail	Name:	
Signature:		Signature:	
Date:	25/1/2019	Date:	

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Course synopsis	This course is designed to introduce students the fundamental of knowledge, technologies and components for web application developments. The basic topics includes the standard HTML for content creation, CSS for content presentation, JavaScript for client-side logics, PHP for server-side logics and MySQL for data processing. At the end of the course, the students should be able to apply the web base technologies and then implement it all in the creating functional data-centric online system project.	
Course coordinator	Dr Hussein Salim Ali Bin Samma hussein.samma@utm.my	
Course lecturer(s)	**Name**	**E-mail**
	Assoc. Prof. Dr. Mohd Shahizan bin Othman	shahizan@utm.my

Mapping of the Course Learning Outcomes (CLO) to the Programme Learning Outcomes (PLO), Teaching & Learning (T&L) methods and Assessment methods:

No.	CLO	PLO (Code)	*Taxonomies and **generic skills	T&L methods	***Assessment methods
CLO 1	Apply web application requirement using existing World Wide Web technologies and solving web based application exercises	PLO1 (KW)	C3	Lecture, Active learning	L, F
CLO 2	Identify the differences between client & server side web application and design a client & server web based application.	PLO2 (AP)	C5, P3	Lecture, Active learning Lab Work Assignment	T, A, F
CLO 3	Develop a web based application development in a team using & combining the World Wide Web technologies such as HTML, CSS, JavaScript and PHP server-side	PLO3 (PS)	C6, A5	Project-based Learning	PR

	languages and MySQL database operations				
CLO 4	Ability to work effectively in a team throughout the project life cycle.	PLO7 (TW) PLO8 (AD)	TW 3	Project-based Learning	Pr / Team Working

*Refer *Taxonomies of Learning and **UTM's Graduate Attributes, where applicable for measurement of outcomes achievement*

***T – Test; Q – Quiz; L-Lab Tutorial, A – Assignment, PR – Project, Pr – Presentation, F – Final Exam etc.
PA-Peer Assessment , HW – Homework

Details on Innovative T&L practices:

No.	Type	Implementation
1.	Active learning	Conducted through in-class activities
2.	Project-based learning	Conducted through assignment and group projects. Tasks are given in sequential steps throughout the semester. Students in a group of 3-4 members are given a project title related to a functional data-centric online system.

Weekly Schedule:

20 Mac - 28 April 2021	**LECTURES FIRST HALF SEMESTER II (6 WEEKS)**
Week 1 20 Mac - 24 Mac 2022	**1.0 Introduction** Overview to the course, the internet and web programming
Week 2 27 Mac - 31 Mac 2022	**2.0 HTML** Introduction to the fundamentals of HTML and create your own Website. The topics covered HTML Basics, Displaying elements: Colour, Font, Text, Image, Table, Forms. **Lab 1 - 3%** **Assignment 1 - 5%**
Week 3 03 April - 07 April 2022	
Week 4 10 April - 14 April 2022	**3.0 CSS** Overview how to create state-of-the-art Web sites using modern CSS and HTML techniques. The topics covered CSS Basics, CSS Selectors, and CSS Properties: Font, Background, Colour, Box Model, and Grid. **Lab 2 - 3%** **Assignment 2 - 5%**
Week 5 17 April - 21 April 2022	

Week 6 24 April - 28 April 2022	**4.0 JavaScript Fundamentals** Introduction to JavaScript as the client-side scripting languages for the web. The topics covered JavaScript Basics: Keywords, Variables, Operators, Control Statements: Selections and Repetitions, Arrays, Functions, Objects. **Lab 3 - 3%**
Week 7 01 May – 05 May 2022	**MID-SEMESTER BREAK FOR SEMESTER II (1 Week)**
08 May – 30 June 2022	**LECTURES SECOND HALF SEMESTER II (8 WEEKS)**
Week 8 08 May - 12 May 2022	**4.0 JavaScript DOM** Introduction to the Document Object Model (DOM). The topic covers on how to get, change, add, or delete HTML elements using DOM. **Lab 4 - 3%** **Assignment 3 - 5%** ***Test 20% – 14 May 2021 (Saturday @ 10 am) (Topics: HTML & CSS)**
Week 9 15 May - 19 May 2022	**5.0 Examples of JavaScript Usage** Getting input from Form Elements, JS form Validation.
Week 10 22 May - 26 May 2022	**6.0 PHP Server side programming** Introduction to server-side scripting languages for the web. The topics covered Keywords, Variables, Operators, etc. and Control Statements: Selections and Repetitions. **Lab 5 - 3%**
Week 11 29 May - 02 June 2022	**6.0 PHP Server side programming (continue)** Functions, Arrays, Web Variables **(Group Project - 20%)**
Week 12 05 June - 09 June 2022	**7.0 Server Side Database Operation** Database Access: Connecting to a MySQL database, dealing with SQL Queries
Week 13 12 June - 16 June 2022	**8.0 Cookies and Session** Usage of cookies and session in web development
Week 14 19 June - 23 June 2022	**9.0 Data Manipulation** Authenticating Users and Pages, Data population (from MySQL to HTML table).
Week 15 26 June - 30 June 2022	**Project Presentation**
03 June - 07 July 2022	**Revision Period Semester II (9 Days)**
10 July - 28 July 2022	**Final Examination for Semester II (3 Weeks)**

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Transferable skills (generic skills learned in course of study which can be useful and utilised in other settings):

Team working ; Communication skills

Student learning time (SLT) details:

Distribution of student Learning Time (SLT) Course content outline	Guided Learning (Face to Face)				Teaching and Learning Activities		TOTAL SLT
					Guided Learning Non-Face to Face	Independent Learning Non-Face to face	
CLO	**L**	**T**	**P**	**O**			
CLO 1	10h	3h				3h	**16h**
CLO 2	18h		6h			16h	**40h**
CLO 3	1h			2h	10h	35h	**48h**
CLO 4				3h	2h	5h	**10h**
Total SLT	**29h**	**3h**	**6h**	**5h**	**12h**	**59h**	**114h**

	Continuous Assessment	PLO	Percentage	Total SLT
1	Mid Term Test (1)	AP	20	**3h**
2	Lab (5)	KW	15	**16h** **As in CL01**
3	Assignment (3)	AP	15	**40h** **As in CLO2**
4	Group Project (1)	PS	14	**48h** **As in CLO3**
5	Team working Adaptability	TW AD	3 3	**10h** **As in CLO4**
Final Assessment			**Percentage**	**Total SLT**
1	Final Examination	KW AP	20 10	**2h** **1h**
Grand Total			**100**	**120h**

L: Lecture, T: Tutorial, P: Practical, O: Others

Special requirement to deliver the course (e.g.: software, computer lab, simulation room):

Computer lab with:
Server (real web hosting)
Server (Free Web Hosting) e.g 000webhost (https://www.000webhost.com/)

Text Editor: Visual Studio Code
Web server: Xampp Server etc.

Learning resources:

Text book (if applicable)

Main references

Sebesta, R. W., Programming the World Wide Web, Pearson.
Deitel P. J, Deitel H. M., Internet & World Wide Web: How to Program, Prentice Hall.
Anderson-Freed S., Weaving A Website: Programming in HTML, JavaScript, PHP and Java. Prentice Hall

Additional references

http://www.w3schools.com/

Online

http://elearning.utm.my

Academic honesty and plagiarism: *(Below is just a sample)*

Assignments are individual tasks and NOT group activities (UNLESS EXPLICITLY INDICATED AS GROUP ACTIVITIES). Copying of work (texts, simulation results etc.) from other students/groups or from other sources is not allowed. Brief quotations are allowed and then only if indicated as such. Existing texts should be reformulated with your own words used to explain what you have read. It is not acceptable to retype existing texts and just acknowledge the source as a reference. Be warned: students who submit copied work will obtain a mark of **zero** for the assignment and disciplinary steps may be taken by the Faculty. It is also unacceptable to do somebody else's work, to lend your work to them or to make your work available to them to copy.

Other additional information (Course policy, any specific instruction etc.):

1. Attendance is compulsory and will be taken in every lecture session. Students with less than 80% of total attendance are not allowed to sit for the final exam.
2. Students are required to behave and follow the University's dressing regulation and etiquette all the time.
3. Exercises and tutorials will be given in class and some may be taken for assessment. Students who do not do the exercise will lose the coursework marks for the exercise.
4. Assignments must be submitted on the due dates. Some points will be deducted for late submissions. Assignments submitted three days after the due date will not be accepted.
5. Make up exam will not be given, except to students who are sick and submit medical certificates which are confirmed by UTM panel doctors. Make up exam can only be given within one week of the initial date of the exam.

No	Assessment	PLO1	PLO2	PLO3	PLO7	PLO8	TOTAL
		CLO1	CLO2	CLO3	CLO4	CLO4	
1	Mid Term Test		20				20
2	Lab (5)	15					15
3	Assignment (3)		15				15
4	Final Exam	20	10				30
5	Group Project			14	3	3	20
TOTAL PLO		35	45	14	3	3	100

Disclaimer: