



FAKULTI INFORMATIK & KOMPUTERAN

1.	Name of Course :	Web Application Development													
	Course Code :	CSD23503													
2.	Synopsis :	This course covers the fundamental of web technologies in association with web application development. Students will learn related aspects such as information architectures and how to build secure web applications by taking into account common security vulnerabilities. Students will be required to build multiple webpages and implement website design that interacts with a database, which will include server-side applications. At the end of the course, students are expected to be able to develop web based systems for real applications.													
3.	Name(s) of academic staff :	DR. WAN MOHD AMIR FAZAMIN BIN WAN HAMZAH FATIMAH BINTI GHAZALI DR. MOHD KAMIR BIN YUSOF PROF. MADYA DR. SUHAILAN BIN SAFEI													
4.	Semester and Year offered :	Semester	2	Year	2										
5.	Credit Value :	3													
6.	Prerequisite/co-requisite: (if any)														
7.	Course Learning Outcomes (CLO) : At the end of the course the students will be able to:														
	CLO1	Solve web-based application problems by incorporating client-server programming and database. (C4,MQF2)													
	CLO2	Build web-based applications using client-server programming and database. (P4,MQF3a)													
	CLO3	Demonstrate entrepreneur values in the web-based application design . (A3,MQF4b)													
8.	Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment :														
	Course Learning Outcomes (CLO)	MQF											Teaching Methods	Assessment	
		MQF1	MQF2	MQF3a	MQF3b	MQF3c	MQF3d	MQF3e	MQF3f	MQF4a	MQF4b				PLO12
	CLO 1		/											Lecture, Case Study, e-Learning	Test 1; Test 2;
	CLO 2			/										Lecture, Lab activities, e-Learning	Web Development Project
	CLO 3										/			Lecture, Discussion, Demonstration, e-Learning	Web Development Project
	Indicate the relevancy between the CLO and PLO by ticking “/” the appropriate relevant box. (This description must be read together with Standards 2.1.2 , 2.2.1 and 2.2.2 in Area 2 - pages 16 & 18)														
	9.	Transferable Skills (if applicable) (Skills learned in the course of study which can be useful and utilized in other settings)		1	Cognitive Skills/ Higher Order Thinking (MQF2)										
				2	Practical Skills (MQF3a)										
3				Enterpreneurial Skills (MQF4b)											
4															
5															
10.	Distribution of Student Learning Time (SLT)														
				Teaching and Learning Activities											
				Guided Learning (F2F)				Guided							



13	Other additional information :	<div>1. Manelli, L. (2017). Developing a Java Web Application in a Day: Step by Step Explanations with Eclipse, Tomcat, MySQL - A complete Java Project with Source Code (Java Web Programming) (Volume 2) (2nd ed.). CreateSpace Independent Publishing Platform.</div> <div>2. Murach, J., &amp; Urban, M. (2014). Murach's Java Servlets and JSP (3rd ed.). Mike Murach &amp; Associates.</div>
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Week	Date	Topic
1	10 Mac - 14 Mac 2024 Ahad 4 - 5pm Rabu 11 - 1pm	1.0 Introduction to Web Application Development 1.1. The world-wide-web and web application 1.2. Growth and changes in web applications over time. 1.3 Entrepreneur mind for web application development in industry environments
2	17 Mac - 21 Mac 2024 Ahad 4 - 5pm Rabu 11 - 1pm	2.0 Web Technologies 2.1. The role of HTTP and HTTPS in the context of web applications. 2.2. Constraints involved in state management 2.3. Develop a web application
3	24 Mac - 28 Mac 2024 Ahad 4 - 5pm Rabu 11 - 1pm	3.0 Digital media 3.1. Compare characteristics of digital media (colour depth, compression, codec, and server requirements) 3.2. A graphic file type for a given set of image characteristics 3.3. Metaphors issues in deploying and serving media content
4	31 Mac - 4 April 2024 Ahad 4 - 5pm Rabu 11 - 1pm	4.0 Information architecture 4.1. Contrast web programming and general-purpose programming. 4.2. Principles of UXD to enhance the user experience of a web application. 4.3. Design and architecture of a web system.
5	7 April - 11 April 2024 Ahad 4 - 5pm Rabu 11 - 1pm	5.0 Web development 5.1. Industry-standard tools and technologies for web development. 5.2. Advantages and disadvantages of development frameworks for web development. 5.3. Collaboration tools.
<b>14 April - 18 April 2024</b>		
6	21 April - 25 April 2024 Ahad 4 - 5pm Rabu 11 - 1pm	6.0 Vulnerabilities 6.1. Browser security models including same-origin policy and thread models in web security. 6.2. Authentication, secure certificates, and secure communication can be used in web sessions. 6.3. Types of vulnerabilities and attacks in web applications. 6.4. Method to secure a web application and defend against common attacks
7	28 April - 2 Mei 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
8	5 Mei - 9 Mei 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
9	12 Mei - 16 Mei 2024 Ahad 4 - 5pm Rabu 11 - 1pm	

10	19 Mei - 23 Mei 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
11	26 Mei - 30 Mei 2024 Ahad 4 - 5pm Rabu 11 - 1pm	7.0 Deployment to the webserver 7.1 Commercial Application / Web Hosting 7.2 Webserver configuration 7.3 Virtual hosts
12	2 Jun - 6 Jun 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
13	9 Jun - 13 Jun 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
	<b>16 Jun - 20 Jun 2024</b>	
14	23 Jun - 27 Jun 2024 Ahad 4 - 5pm Rabu 11 - 1pm	
	<b>30 Jun - 30 Jun 2024</b>	
	<b>1 Julai - 22 Julai 2024</b>	

CLO		Assessment
CLO1, CLO3	INSTALLATION APACHE NETBEAN 19, REGISTER WEB HOSTING	CLO1 - TEST 1 CLO3 - PRESENTATION PROJECT REGARDING TO ENTREPRENEUR (FINAL)
CLO1, CLO2	HTML	CLO1 - TEST 1, TEST2 CLO2 - PROJECT (FINAL)
CLO1, CLO2	BOOTSTRAP	CLO1 - TEST 1 CLO2 - PROJECT (FINAL)
CLO1, CLO2	JAVASCRIPT	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
CLO1, CLO2		CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
Midterm Break		
CLO1, CLO2	JAVASCRIPT - VALIDATION	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
	JSP	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
	JSP	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
	JSP	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)

	JSP	CLO1 - TEST 1, TEST 2 CLO2 - PROJECT (FINAL)
CLO2, CLO3	JSP	CLO2 - PROJECT (FINAL) CLO3 - PRESENTATION PROJECT REGARDING TO ENTREPRENEUR (FINAL)
	JSP	
	JSP	
<b>16 - 18 Jun 2024 (Ahad - Selasa) Raya Aidil Adha</b> <b>19 - 20 Jun 2024 (Rabu - Khamis) Cuti Khas PdP</b>		
	SUBMIT PROJECT AND PRESENTATION VIDEO	
<b>Ulangkaji</b>		
<b>PEPERIKSAAN AKHIR</b>		

Notes
28 Mac 2024 (Khamis) Nuzul Quran
10 - 11 April 2024 (Rabu - Khamis) Raya Aidil Fitri
1 Mei 2024 (Rabu) Hari Pekerja



22 Mei 2024 (Rabu) Wesak
3 Jun 2024 (Isnin) Hari Keputeraan YDP Agong
7 Julai 2024 (Ahad) Awal Muharram