APPROVED

DBMS C8023: Databases and Web Integration

Module Details				
Module Code:	DBMS C8023			
Full Title:	Databases and Web Integration APPROVED			
Valid From::	Semester 1 - 2019/20 (June 2019)			
Language of Instruction:	English			
Duration:	1 Semester			
Credits::	5			
Module Owner::	Peter Gosling			
Departments:	Unknown			
Module Description:	The aim of this module is to give students an insight into developing data driven websites			

Module Learning Outcome			
On successful completion of this module the learner will be able to:			
#	Module Learning Outcome Description		
MLO1	Design and build multi-table databases.		
MLO2	Develop SQL queries to carry out secure and high performance database operations.		
MLO3	Query and update a multi-table database by connecting to it through a website.		
Pre-requisite learning			

Module Recommendations This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named DkIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).

No recommendations listed

Module Indicative Content

Database Development: Applied Multi-table design and implementation; entity-relationship modelling; normalization; table constraints; DDL;

SQL Query Development Develop multi-table DML statements; basic database administration; views and indexing for security and performance;

Client-Server Scripting: Server-Side Scripting - PHP (GET and POST ; working with MySQL; looping through arrays; testing and debugging; control statements; working with strings, dates and numbers, server-side validation); importing data from Excel.

Module Assessment					
Assessment Breakdown	%				
Course Work	100.00%				
Module Special Regulation					

Assessments

Full Time On Campus								
Course Work								
Assessment Type	Class Test	% of Total Mark	40					
Marks Out Of	0	Pass Mark	0					
Timing	S1 Week 9	Learning Outcome	1,2					
Duration in minutes	0							
Assessment Description Assess students ability to design and build a database for a problem area and develop queries against the database.								
Assessment Type	Project	% of Total Mark	60					
Marks Out Of	0	Pass Mark	0					
Timing	S1 Week 13	Learning Outcome	1,2,3					
Duration in minutes	0							
Assessment Description Students will be required to build a website that integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development linking to a back-end multi-table database. Students will be marked on both their code and their performance in an interview.								
No Project								
No Practical								
No Final Examination								
Part Time On Campus								
Course Work								
Assessment Type	Class Test	% of Total Mark	40					
Marks Out Of	0	Pass Mark	0					
Timing	S1 Week 9	Learning Outcome	1,2					
Duration in minutes	0							
Assessment Description Assess students ability to design and build a database for a problem area and develop queries against the database.								
Assessment Type	Project	% of Total Mark	60					
Marks Out Of	0	Pass Mark	0					
Timing	End-of-Semester	Learning Outcome	1,2,3					
Duration in minutes	0							
Assessment Description Students will be required to build a website that integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development linking to a back-end multi-table database. Students will be marked on both their code and their performance in an interview.								
No Project								
No Practical								
No Final Examination								

Reassessment Requirement

No repeat examination Reassessment of this module will be offered solely on the basis of coursework and a repeat examination will not be offered.

Reassessment Description
Students will be required to build a website that integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development. The project will focus on how well the student integrates their knowledge of client- and server-side web development integrates their knowledge.

Module Workload									
Workload: Full Time On Campus									
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours				
Practical	Contact	Two two-hour labwork sessions	Every Week	3.00	3				
Directed Reading	Non Contact	Student exercises and reading	Every Week	3.00	3				
Independent Study	Non Contact	Student research on various topics in the indicative content	Every Week	2.00	2				
	8.00								
				Total Weekly Contact Hours	3.00				
Workload: Part Time On	Campus								
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours				
Practical	Contact	One three-hour labwork session	Every Week	3.00	3				
Directed Reading	Non Contact	Student exercises and reading	Every Week	3.00	3				
Independent Study	Non Contact	Student research on various topics in the indicative content	Every Week	2.00	2				
	8.00								
				Total Weekly Contact Hours	3.00				

Module Resources

Recommended Book Resources

Joel Murach, Ray Harris. (2017), Murach's PHP and MySQL, 3rd. Mike Murach and Associates, Inc., USA, [ISBN: 9781943872381].

Anne Boehm, Zak Ruvalcaba. (2018), HTML5 & CSS3, 4th. Murach, USA, [ISBN: 978-1-943872].

Carlos Coronel, Peter Rob, Keeley Crockett. (2013), Database Systems, Fundamentals of Design, Implementation and Management, 2nd. Cengage Learning, EMEA, Hampshire, UK, [ISBN: 9781404048634].

This module does not have any article/paper resources

Other Resources

Website, W3Schools. Ttutorial webpages on HTML5, CSS3, JavaScript, jQuery, AJAX, PHP and MySQL,

http://w3schools.com

Website, The PHP Group, http://www.php.net/

Website, MySQL Tutorial, http://dev.mysql.com/doc/refman/5.0/en/t utorial.html