MULTIMEDIA UNIVERSITY®

COURSE INFORMATION

1 .	**Name of Course**	Programming for Business Applications
2 .	**Course Code**	DPA5018
3 .	**Type of Course** **(e.g. : Core, major, elective etc.)**	Elective
4 .	**Synopsis**	This subject is designed to introduce the concepts and theory of Visual Basic programming language that able student to apply theory into practice.
5 .	**Version** **(State the date of theSenate's approval - previous and the current approval date)**	Current: September 2017 Previous: June 2017
6 .	**Name(s) of Academic Staff**	Suhaimi bin Sarip, Usha a/p Vellappan, Chandrika binti Mohd Jayothisa, Mardhiyah binti Ahmad , Nurul Aqma binti Salleh, Nun Shwu Huey
7 .	**Semester and Year Offered**	Semester 2, Year 2
8 .	**Credit Value**	3
9 .	**Pre-Requisite**	DCS5038 Program Design
10 .	**Objective of the course in the programme:**	
	To introduce students to Visual Basic programming using Visual Basic controls and procedures.	
11 .	**Justification for including the course in the programme:**	
	This subject enables students to develop simple business applications using Visual Basic.	
14 .	**Transferable Skills:**	
	Teamwork, Problem solving and Technical 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			
Topic 1: Visual Basic, Controls, and Events This chapter provides an introduction to Visual Basic, Visual Basic controls and control properties, Visual Basic events and event procedures.	**2,3,4**	2		2			2	6
Topic 2: Variables, Input, and Output This chapter introduces variables, declaring and using variables, constants, numbers, and strings. This chapter also covers the use of text box for input and output, input dialog box, and message dialog box.	**1,3,4**	2		2			2	6
Topic 3: Decision Structures This chapter explains about relational and logical operators and how to control the flow of a program with the If…Then, If…Then…Else, and If…Then…ElseIf statements. This chapter also covers the use of list box, radio button, check box for input. This chapter shows how to set input validation and events raised by user selection.	**1,3,4**	1		2	1	1	1	6
Topic 4: Loop Structures This chapter covers repetition control structures: the Do While, Do Until, and For…Next loops, which cause blocks, or sequences of programming statements to repeat. Counters and accumulators topics are discussed.	**1,3,4**	1		2	1	1	1	6
Topic 5: Procedures This chapter discusses how to write function procedures and user-defined functions. Built-in functions, sub procedures, passing by value, and passing by reference are introduced and discussed.	**1,3,4**	3		2	1	1	2	9
Topic 6: Arrays This chapter discusses how to declare array variables, initialize arrays, access arrays, copy array, array methods, and passing array to procedures. This chapter also introduces basic two-dimensional array concepts.	**1,3,4**	3		2	1	1	2	9

	Topic 7: Additional Controls and Objects This chapter introduces combo boxes and timer controls. This chapter also shows how to create multiple-form programs and add graphics in Visual Basic.	**2,3,4**	2		2			2	6
	Topic 8: Database Management This chapter introduces basic database concepts. In this chapter, the student learns how to create and design databases, primary keys, and foreign keys.	**3,4**	2		4			3	9
	Topic 9: Text Files This chapter shows how to read data from text files, write data to text files, add items to text files, delete data from text files, and text file modes.	**3,4**	2		2			2	6
								Total SLT	**63**

SUMMATIVE ASSESSMENT

1. Continuous Assessment	**Percentage %**	**Total SLT**
Online / Written Quiz	10%	5
Lab Submission	10%	6
Project	15%	15
Written Test	15%	9
Total SLT for Continuous Assessment		**35**

2. Final Assessment	**Percentage %**	**Total SLT**	
		F2F	**ILT**
Final Exam	50%	2	20
Total SLT for Final Assessment (F2F + NF2F)		**22**	
Grand Total	**100%**	**120**	

****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 by using Visual Studio software
Computer Lab, Visual Studio, Microsoft Access

17 . **Main References:**
Schneider, D., Introduction to Programming Using Visual Basic, 9th Edition, Prentice Hall, 2014

18 . **Additional References:**
Paul Deitel, Harvey Deitel, and Abbey Deitel, Visual Basic 2012 How to Program, 6th Edition, Prentice Hall, 2014.