FAKULTI TEKNOLOGI DAN KEJURUTERAAN

PROGRAM	Diploma in Information Technology (System Support)
COURSE NAME	VISUAL BASIC PROGRAMMING
COURSE CODE	DTC 2123
CREDIT HOUR	3
SYNOPSIS	This course provides an introduction to programming using Visual Basic programming. The emphasis of this course is based on problem solving and program development. It covers the basics of problem solving, basic programming, control statements, procedures, arrays and file processing

COURSE STRUCTURE

CHAPTER	TOPICS

1	**Topic 1: Introduction**
	
	1.1 Computer Definition
	1.2 Computer Components
	1.2.1 Hardware
	1.2.2 Software
	1.3 Introduction To Programming
	1.4 Introduction To Visual Basic
	       1.4.1 Introduction
	       1.4.2 Visual Basic Environment

2	**Topic 2: Problem Solving** 2.1 Problem Solving 2.1.1 Programming Development Life Cycle 2.1.2 Problem Solving Method 2.1.3 Hierarchy Chart Flow chart Pseudocode
3	**Topic 3: Visual Basic Programming Basics** 3.1 Describe the Object 3.2 Identify the Event Procedures 3.2.1 Calling event 3.3 Variable and Constant Variable 3.4 Arithmetic Operation & Logic 3.5 Data Formatting 3.6 Input Validation 3.7 Function - Function Of 'Val' 3.8 Function of String 3.9 Programming that involve calculating

4	**Topic 4: Control Statement**
	
	4.1 Identify Result Statement and Condition
	4.1.1 If Statement
	4.1.2 Nested if Statement Condition
	    4.1.3 Select Case statement
	4.2 Repeated statement
	       4.2.1 Do / Loop
	       4.2.2 For / Next Loop
	       4.2.3 Nested For / Next Loop
	       4.2.4 For Each / Next

5	**Topic 5: Sub Procedures** 5.1 Create Sub procedures 5.2 Explain sending the variables to procedures 5.3 Explain sendingthe argument By Val or By Ref 5.4 Differentiate Function Procedures vs Sub Procedures 5.5 Create Sub Procedures 5.6 Create Function Procedures with some argument 5.7 Re-use Procedures

6	**Topic 6: Array** 6.1 Array 1-Dimension 6.2 Array 2-Dimension
7	**Topic 7: Database** 7.1 Describe Visual Basic and database file 7.2 Identify to update Database
8	**Topic 8: File Processing** 8.1 Explain Reference File 8.2 Define Random File

References:	1. Philip Conrod, Lou Tylee. 2017. Visual Basic and Databases : A Step-By-Step Database Programming Tutorial. 15th Edition. 2. Corinne Hoisington, 2017. Microsoft Visual Basic 2017 for Windows, Web, Windows' Store and Database Applications. Shelly Cashman Series