University of Computer Studies (Thaton) 2024-2025 Academic Year First Year (B.C.Sc. / B.C.Tech.) Lecture Plan

CST(SS)-1123 Basic Data Processing

First Semester

Text /Reference Books : Programming Logic and Design Comprehensive, 6th Edition by Joyce Farrell, 2011

: NIL Prerequisite : 2 ACUs

Credit Unit

: 48 periods for 16 weeks (3 periods * 16 weeks) (1 period – 1 hr) Periods

1. Chapter 1 An Overview of Computers and Programming 5 1.1 Understanding Computer Systems 1.2 1.2 Understanding the Program Logic 1.3 1.3 Understanding the Program Development Cycle 1.4 Using Sentinel value to End a Program Review Questions Exercises 1 1 2. Understanding with Data, Creating Modules and 6 Designing High-Quality Programs 6 6 2.1 Declaring and Using Variables and Constants 2.2 Assigning Values to Variables 2.3 Modularizing a Program 6 6 2.4 Understanding the Most Common Configuration for Mainline Logic 2.5 Creating Hierarchy Chart 2.6 Feature of Good Program Design 6 3 Review Questions Exercises 6 3 3.1 Understanding the Three Basic Structures 6 3 3.1 Understanding the Reesons for Structures 6 3 3.1 Understanding the Reasons for Structure 3.4 4 3.4 Understanding the Reasons for Structure 3.5 5 5	No.	Description	Periods	Note
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No.	Description	Periods	Note
5.	Chapter 5 Looping	6	
	5.1 Understanding the Advantages of Looping		
	5.2 Using Loop Control Variables		
	5.3 Nested Loops		
	5.4 Avoiding Common Loop Mistakes		
	5.5 Using for loop		
	5.6 Common Loop		
	Applications Review		
	Questions		
	Exercises	1	
6	Chanter 6 Arrays	6	
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	6.1 Understanding Arrays and How They Occupy Computer Memory		
	6.2 Manipulating And Array To Replace Nested Decisions		
	6.3 Using Constants With Arrays		
	6.4 Searching an Array		
	6.5 Using Parallel Arrays		
	6.6 Searching In Array For Range Match		
	6.7 Remaining Within Array Bound		
	6.8 Using A For Loop To Process Arrays		
	6.9 Appendix D Solving Difficult Structuring Problems		
	6.10 Appendix F Two Variations on the Basic Structures—case and do-while		
	The case Structure		
	The do-while Loop		
	Recognizing the Characteristics Shared by All Structured		
	Review Questions		
	Evercises		
	Tutorial - 6	1	
	Test – 2 for chapter 5+6	1	
7.	Chapter 7 File Handling and Applications	3	
	7.1 Understanding Computer Files		
	7.2 Understanding the Data Hierarchy		
	7.3 Performing File Operations		
	Review Questions		
	Exercises		
	Tutorial - 7	1	
	Test – 3 Final Test for all Chapters 1+2+3+4+5+6+7	1	
	Total	48	

Assessment plan for the Course

Assignment	- 10%
Quiz	- 10%
Tutorial	- 25%
Tests	- 25%
Final Test	- 30%