

UNIVERSITI TEKNOLOGI MARA CSC128: FUNDAMENTALS OF COMPUTER PROBLEM SOLVING

Course Name (English)	FUNDAMENTALS OF COMPUTER PROBLEM SOLVING APPROVED			
Course Code	CSC128			
MQF Credit	3			
Course Description	This course is an introduction to problem solving using computers. It emphasizes various aspects of problem solving, mainly consisting of the problem domain, phases of problem solving and basic techniques in designing a solution. The approach to problem solving is via top-down design, structured and modular programming. The emphasis is on solving problems using computer rather than the syntactical aspects of the chosen programming language.			
Transferable Skills	Demonstrate analytical skills using technology.			
Teaching Methodologies	Lectures, Lab Work, Tutorial, Problem Based Learning (PBL)			
CLO	 CLO1 Identify the steps and requirements of given problems using systematic problem solving approach. CLO2 Write complete programs using structural and modular approach. CLO3 Demonstrate basic program to solve daily problem using designated programming control structures (selection, repetition and/or function). 			
Pre-Requisite Courses				
Topics				
1. INTRODUCTION 1.1) Introduction to P 1.2) Program Develo	rogramming pment Life Cycle			
2. BASIC ELEMENT 2.1) Identifier, variabl 2.2) Basic data types	S OF A COMPUTER PROGRAM e, constant, reserved word tors, precedence and expression ement ement error handling			
3. SELECTION CON 3.1) Boolean values a 3.2) Relational and lo 3.3) Types of selection	TROL STRUCTURE and expression			
4.1) Requirements ar	NTROL STRUCTURE nd operation in repetition control structure on control structures (for, while and dowhile)			
5. FUNCTIONS 5.1) Introduction to fu 5.2) Function call 5.3) Library functions 5.4) User-defined fun 5.5) Parameter passi				

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Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of						
Continuous Assessment	Assessment Type	Assessment Description	on % of Total Mark	CLO		
	Assignment	Assignment 1 CLO2	6%	CLO2		
	Assignment	Assignment 2 CLO2	7%	CLO2		
	Group Project	Project CLO3	10%	CLO3		
	Quiz	Quiz 1 CLO1	6%	CLO1		
	Quiz	Quiz 2 CLO2	6%	CLO2		
	Test	Test CLO2	15%	CLO2		
	P	D. Malik 2013, C++ Program Program Design, Cengage Le				
Reading List). Malik 2013, C++ Programm				
	DOOK 3	ok Y. Daniel Llang 2014, Introduction to Programming with C++,				
	J	Jamal Othman 2010, Fundamentals of Programming : With				
	E	Examples in C, C++ and Java, 1st edition Ed., UPENA				
		Bjarne Stroustrup 2013, <i>The</i> Pearson Education [ISBN: 03		guage,		
		am Key 2015, C++ Program	ming Professional Mad	e Fasv		

	Sam Key 2015, C++ Programming Professional Made Easy [ISBN: 1508429081]		
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		