

UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE) Course Syllabus

1	Course Title	Introduction to Computer Systems				
2	Course Code	CSE 111	CSE 1110			
3	Trimester and Year	Fall 202	2			
4	Pre-requisites					
5	Credit Hours	1.0				
6	Section	F, U, V				
7	Class Hours					
8	Class Room					
9	Instructor's Name	Shoib Al	hmed Sho	urav		
10	Email	shoib@	cse.uiu.ac.	bd		
11	Office	536/B				
12	Counselling Hours					
13	Reference	Teach y	Teach yourself C – Herbert Schildt			
14	Course Contents (approved by UGC)					
15	Course Outcomes (COs)	COs		Description		
		CO1	Identify the components of a computer and demonstrate its internal mechanisms.			
		CO2 Derive the solution steps and flowchart of basic decision and repetition problems.				
		CO3 Use a programming language to write error-free programs using conditional statements and loops.				
		CO4 Work in a team and communicate effectively to present a topic about CSE.				
16	Teaching Methods	Lecture,	Laborato	ry exercise and reports, Project Developments.		
17	CO with Assessment					
	Methods	-	СО	Assessment Method	(%)	
		-		Accignment (code org)	10%	
		CO2 Assignment (code.org) 5%				

CO3	Assignment (BeeCrowd)	5%
CO2	Class performance (problem solving &	10%
	Flowchart)	
CO3	Class performance (programming)	20%
CO4	Presentation	10%
	On CSE related topics (tech companies, products, personalities etc.)	
CO1, CO2	Mid-term examination	15%
CO3	Final examination	25%

18 Mapping of COs and Program outcomes

СО	Statement	Bloom's
		Domain
CO1	Identify the components of a computer and demonstrate its internal mechanisms.	С
CO2	Derive the solution steps and flowchart of basic decision and repetition problems.	С
CO3	Use a programming language to write error-free programs using conditional statements and loops.	С
CO4	Work in a team and communicate effectively to present a topic about CSE.	Р, А

19 Lab Outline

Class	Lectures/Activities	Evaluation method	COs
1	Introduction to software	-	-
	Using basic softwares (Word, PowerPoint) and		
	websites (Google, Wikipedia), how softwares		
	are stored in computer		
	Introduction to code.org		
	Enroll students to "Accelerated Intro to CS"		
	course and begin coding by blocks		
2	Introduction to hardware	-	-
	Parts of a computer and their basic		
	functionalities, how computer works, memory		
	vs. storage,		
	Introduction to problem solving		
	Writing problem solving steps formally, solving		
	decision problems		
3	Introduction to number systems	Class test and	CO2
	Introduction to binary numbers, bits, bytes	assignment on	
	(kB, MB, GB), words, interchanging decimal	problem solving	
	and binary numbers, representing data in a		
	computer (positive and negative integers,		
	complements, ASCII code)		
	Problem solving		

	Solving repetition problems		
4	Introduction to C programming	URI submissions	CO3
	Standard input/output functions, variables and		
	arithmetic operators	Class test and	CO2
		assignment on	
	Problem solving	problem solving	
	Solving more repetition problems		
5	Group presentation	Presentation	CO4
	On CSE related topics (tech companies,		
	products, personalities etc.)		
6	Mid-term examination	Written quiz	CO1, CO2
	Syllabus: Software, Hardware, Number		
	systems, Problem solving		
7	C programming	URI submissions	CO3
	Solving decision problems (if else and switch		
	case)		
8	C programming	URI submissions and	CO3
	Solving more decision problems	coding test (with	
		viva)	
			CO3
		Website submission	
		in github.io	
9	C programming	URI submissions and	CO3
	Introduction to loops	coding test (with	
		viva)	
10	C programming	URI submissions and	CO3
	Solving more loop problems	coding test (with	
		viva)	
11	C programming	URI submissions and	CO3
	Solving more loop problems	coding test (with	
		viva)	
12	Final examination	Coding test (with	CO3
	Syllabus: C programming	viva)	

Appendix 1: Assessment Methods

Appendix 2: Grading Policy

Letter Grade	Marks %	Grade Point	Letter Grade	Marks%	Grade Point
A (Plain)	90-100	4.00	C+ (Plus)	70-73	2.33
A- (Minus)	86-89	3.67	C (Plain)	66-69	2.00
B+ (Plus)	82-85	3.33	C- (Minus)	62-65	1.67
B (Plain)	78-81	3.00	D+ (Plus)	58-61	1.33
B- (Minus)	74-77	2.67	D (Plain)	55-57	1.00
			F (Fail)	<55	0.00

Appendix-3: Program outcomes

POs	Program Outcomes
PO1	An ability to apply knowledge of mathematics, science, and engineering
PO2	An ability to identify, formulate, and solve complex engineering problems
PO3	An ability to design solutions for complex engineering problems and design systems,
	components or processes that meet specified needs with appropriate consideration for
	public health and safety, cultural, societal, and environmental considerations
PO4	An ability to investigate complex problems using research-based knowledge and research
	methods design and conduct experiments, as well as to analyze and interpret data
PO5	An ability to use the techniques, skills, and modern engineering tools necessary for
	engineering practice
PO6	The broad education necessary to understand the impact of engineering solutions in a
	global, economic, environmental, and societal context
PO7	Understand and evaluate the sustainability and impact of professional engineering work
	in the solution of complex engineering problems in societal and environmental contexts
PO8	An understanding of professional and ethical responsibility
PO9	An ability function effectively as an individual, and as a member or leader in diverse
	teams and in multi-disciplinary settings
PO10	An ability to communicate effectively
PO11	Project management and finance
PO12	A recognition of the need for, and an ability to engage in life-long learning