

Department of Computer Science and Engineering, BUET



COURSE OUTLINE

Course Code: CSE 102

Course Title: Structured Programming Language Sessional

Level/Term: 1/1 Section: A1 & A2

Academic Session: 2018-2019

Course Teachers:

Section A1

Name	Office(Room)	Telephone/Email (Optional)
Dr. A.K.M. Ashikur Rahman	ECE/CSE/115	ashikur @cse.buet.ac.bd
(Professor)		2/4
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(Assistant Professor)		
Md. Toufikuzzaman	ECE/CSE/209	md.toufikzaman@gmail.com
(Lecturer)		

Section A2

Name	Office(Room)	Telephone/Email (Optional)
Mahjabin Nahar	ECE/CSE/316	mahjabinproma@gmail.com
(Lecturer)		
Nafis Irtiza Tripto	ECE/CSE/320	nafisit03@gmail.com
(Lecturer)		-
Shadman Saqib Eusuf	ECE/CSE/415	s.saqibeusuf@gmail.com
(Lecturer)		

Course Outline:

Laboratory works covering C, a structured programming language: Data types, operators, expressions, control structures; Functions and program structure: parameter passing conventions, scope rules and storage classes, recursion; Header files; Preprocessor; Pointers and arrays; Strings; Multidimensional array; User defined data types: structures, unions, enumerations; Input and Output: standard input and output, formatted input and output, file access; Variable length argument list; Command line parameters; Error Handling; Graphics; Linking; Library functions.

Learning Outcomes/Objectives:

After undergoing this course, students should be able to:





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- i Analyze real-life interesting problems and formulate logic to solve them
- ii. Transform the logical constructs to structured code using C programming language
- iii. Apply good programming principles to the design and implement code written in C programming language
- iv. Analyze and understand code written in C programming language
- v. Develop a sizable project in C in a team-work environment

Assessment

- 1. Participation in lab classes and practice class performance 10 %
- 2. Home Assignments 10%
- 2. Lab Assignments 35%
- 3. Term Project 20%
- 4. Final Quiz 25%

Text and Reference books:

- a. Teach yourself C, Herbert Shildt (3rd Edition) [Reference]
- b. The C Programming Language (2nd edition), Kernighan and Ritchie [Reference]





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Weekly Schedule:

Week	Outline			
Week 1	Evaluation Type: Attendance and Practice			
	Subtopics:Introduction, rules and reg	gulations overview, tools		
	demonstration			
Week 2	Evaluation Type: Attendance and Practice			
	Subtopics: Data types, constants and	d variables; operators and expressions;		
	type conversion; printf, scanf;			
Week 3	Evaluation Type: Practice & Home assignment explained			
	Subtopics: Branching and Loop			
Week 4	Evaluation Type: Lab and Home Assignment evaluation			
	Subtopics : Data types, constants and variables; operators and expressions;			
	type conversion; printf, scanf; Branching			
Week 5	Evaluation Type: Lab Assignment			
	Subtopics: Loop and Function,			
Week 6	Evaluation Type: Attendance and Practice			
	Subtopics: 1-D array, string			
	Publish Term Assignment topics	100		
Week 7	Evaluation Type: Lab Assignment	Extra class		
	Subtopics: 1-D array and string	Subtopics: Graphics Library		
		(iGraphics): Animation, timer, pixel,		
		mouse handler, keyboard handler		
		Finalize Term Assignment		
		allocations.		
		Take home assignment on		
		iGraphics		
	Mid Term Vacation			
Week 8	Evaluation Type: : Home Assignment			
	Subtopics: iGraphics			
Week 9	Evaluation Type: Attendance and Practice			
	Subtopics: Pointers, dynamic memor	ry allocation, Multidimensional array		
Week 10	Evaluation Type: Lab Assignment			
	Subtopics: Pointers, dynamic memor	ry allocation, Multidimensional array		
Week 11	Evaluation Type: Attendance and Pra	Evaluation Type: Attendance and Practice		
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(10)	Subtopics: structures, unions, bit fiel	lds, enumerations		
1/6/	Subtopics: structures, unions, bit fiel Eid Ul Fitr Break (3 weeks			
Week 12	· ·			
1/6	Eid Ul Fitr Break (3 weeks			
1/6	Eid Ul Fitr Break (3 weeks Evaluation Type: Lab Assignment			
Week 12	Eid Ul Fitr Break (3 weeks Evaluation Type: Lab Assignment Subtopics: structures, unions, file	5)		
Week 12	Eid Ul Fitr Break (3 weeks Evaluation Type: Lab Assignment Subtopics: structures, unions, file Evaluation Type: Attendance and	Extra class		
Week 12	Eid Ul Fitr Break (3 weeks Evaluation Type: Lab Assignment Subtopics: structures, unions, file Evaluation Type: Attendance and Practice	Extra class		