COURSE OUTLINE

Course Code: CSE 102

Course Title: Structured Programming Language Sessional

Level/Term: 1/II **Section: B**

Academic Session: January 2019

Course Teacher(s):

Section: B1

Name:	Office/Room:	E-mail and Telephone: (optional)
Md. Ishat - E – Rabban (IER) (Assistant Professor)	ECE/CSE/216	ieranikg@gmail.com
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Section: B2

Name:	Office/Room:	E-mail and Telephone: (optional)
Mohammad Saifur Rahman (MDSR) (Assistant Professor)	ECE/CSE/218	saifur80@gmail.com
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Shadman Saqib Eusuf (SSE) (Lecturer)	ECE/CSE/415	s.saqibeusuf@gmail.com

Course Outline: (To be filled from the course handbook)

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:

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

Attendance and Practice Performance:	10 - 15%
Lab. and Home Assignments:	40 - 45 %
Term Assignment:	20%
Quiz:	25 - 30%

Text and Reference books:

a. Teach yourself C, Herbert Shildt (3rd Edition)

b. The C Programming Language (2nd edition), Kernighan and Ritchie

Weekly schedule:

Week of	Topics
27/04/2019	**Evaluation Type:** Attendance and Practice **Subtopics:** Introduction, rules and regulations overview, tools demonstration
04/05/2019	**Evaluation Type:** Attendance and Practice **Subtopics:** Data types, constants and variables; operators and expressions; type conversion; printf, scanf;
11/05/2019	**Evaluation Type:** Home assignment explained **Subtopics:** Branching and Loop
	Eid-ul-Fitr BREAK (3 week 5 days)
15/06/2019	**<No classes took place due to student protests>**
22/06/2019	**Evaluation Type:** Lab and Home Assignment **Subtopics:** Branching and Loop
29/06/2019	**Evaluation Type:** Lab Assignment **Subtopics:** Loop, 1-D array and Function,
06/07/2019	**Evaluation Type:** Attendance and Practice **Subtopics:** Pointers: Concept, pointer arithmetic, multi-dimensional pointers, function pointers **Publish Term Assignment topics.**
13/07/2019	**Evaluation Type:** Attendance and Practice **Subtopics:** Graphics Library (iGraphics) : Animation, timer, pixel, mouse

	handler, keyboard handler **Finalize Term Assignment allocations.** **Take home assignment on iGraphics**
20/07/2019	**Evaluation Type:** Home Assignment **Subtopics:** iGraphics
27/07/2019	**Evaluation Type:** Lab Assignment **Subtopics:** Pointers, Multidimensional array, strings
	Eid-ul-Adha BREAK (3 weeks)
24/08/2019	**Evaluation Type:** Lab Assignment **Subtopics:** Bitwise operators, Recursions, Dynamic Memory Allocation.
31/08/2019	**Evaluation Type:** Attendance and Practice **Subtopics:** structures, unions, bit fields, enumerations **Term assignment progress check.**
07/09/2019	**Quiz**
14/09/2019	**Evaluation Type:** Lab Assignment Subtopics: structures, unions, file
???	**Term Assignment Evaluation**

Prepared by :	
Name: Mohammad Saifur Rahman Signature: Date:	