Department of Electrical and Computer Engineering (ECE)
School of Engineering and Physical Sciences
North South University, Bashundhara, Dhaka-1229, Bangladesh

CSE 115L Programming Language I(Lab)
Fall 2019

Number of Credits	**3+1**
Type	Core, Engineering, Lecture + Lab
Prerequisites	N/A
Section	12
Faculty Member	Dr. Shazzad Hosain (Szz)
Lab Officer	Asif Ahmed Neloy
Office Room	TBA
Email	asif.neloy@northsouth.edu
Website	https://aaneloy.netlify.com/

Office Hours:	Sunday (S)	11:00 pm – 2:30pm
	Tuesday (T)	11:00 pm – 2:30pm
	Saturday (A)	11:00 pm – 2:30pm
Class Hours:	Sunday, Tuesday (ST)	2:40 pm - 4:20 pm
Class Room:	LIB 610	

Course Description:

This is the first course in the computer science programming and is required for all computer science and engineering majors. This course introduces the fundamental concepts of structured programming. Topics include fundamentals of computers and number systems, algorithms & flowcharts, fundamental programming constructs: syntax and semantics of a higher-level language, variables, expressions, operators, simple I/O to console and files, conditional and iterative control structures, functions and parameter passing, dynamic memory allocation; fundamental data structures: arrays, structures, strings and string processing; and testing and debugging strategies.

Course Objectives: The objectives of this course are to

a. learn fundamental knowledge on basics of computers, hardware, software, and number systems,
b. familiarize about the basic terminologies used in computer programming,
c. proficiently transform designs of problem solutions into a standard programming language,
d. use an integrated development environment (IDE) to write, compile, and execute programs involving a small number of source files,
e. proficiently use fundamental programming elements including: variable declaration, data types and simple data structures (arrays, strings, and structures), decision structures, loop structures, functions/methods, input and output for console and text files,
f. apply debugging and testing techniques to locate and resolve errors and to determine the effectiveness of a program, and
g. have understanding of professionalism, codes of ethics and responsible conduct.

Resources:

Text Book:

No	Name of Author(s)	Year of Publication	Title of Book	Edition	Publisher's Name	ISBN
1	J Hanly and E Koffman	2012	Problem Solving and Program Design in C	7th	Pearson	ISBN-13: 978-0132936491

Reference Books:

No	Name of Author(s)	Year of Publication	Title of Book	Edition	Publisher's Name	ISBN
1	H. Schildt	2000	C: The Complete Reference	4th	Osborne / McGraw-Hill	ISBN-13: 978-0070411838
2	Y. P. Kanetkar	2008	Let us C	8th	Jones & Bartlett Learning	ISBN-13: 978-1934015254
3	B. S. Gottfried	1996	Schaum's Outline of Programming with C	2nd	Mcgraw Hill	ISBN-13: 978-0070240353
4	Deitel & Deitel	2012	C: How to Program	7th	Prentice Hall	ISBN-13: 978-0132990448

Mark Distribution:

Criteria	***Marks (%)***
Lab Assessment	30%
Project	15%
Assignment	15%
Midterm Exam	20%
Final	20%
Total	***100%***

The marks distribution may change according to the discretion of the instructor.

Tentative Class Schedule:

Week 1	**Lab 1**	**Introduction**
Week 2	Lab 2	Conditional Statements : if, else, switch
Week 3	Lab 3	Loops
Week 4	Lab 4	Functions
Week 5	Lab 5	Arrays
Week 6	**Lab 6**	**Midterm Exam**
Week 7	Lab 7	Strings
Week 8	Lab 8	Structure
Week 9	Lab 9	Pointers
Week 10	Lab10	Files
Week 11	Lab11	Dynamic-memory-Recursion
Week 10	**Lab10**	**Final**

Exams and Quizzes: Exams and quizzes will be closed book and closed notes. No electronic devices except non-programmable calculators will be allowed during exams. Calculators cannot be shared with friends. Nobody will be allowed to go outside the exam hall. There will be no makeup quizzes.

Class Etiquette: Distracting others in lab class is violating others rights to be attentive. So, laptop or cell phones cannot be turned on during class time. Group discussion is encouraged and personal discussion is discouraged during class time.

Academic Honesty: Any means of unauthorized assistance in preparing materials which a student submits as original work is deemed to be cheating. Any kind of cheating or plagiarism will make your obtained marks zero for that report, assignment, quiz or exam. Both who copied and who let others copy will be treated as same, meaning both will get zero for that report, assignment, quiz or exam.

Grading policy: As per NSU grading policy

Letter grades indicating the quality of course work completed is interpreted as follows

Numerical Scores	Letter Grade	Grade Points (Per Credit)
93 and above	A Excellent	4.0
90 - 92	A-	3.7
87 - 89	B+	3.3
83 - 86	B Good	3.0
80 - 82	B-	2.7
77 - 79	C+	2.3
73 - 76	C Average	2.0
70 - 72	C-	1.7
67 - 69	D+	1.3
60 - 66	D Poor	1.0
Below 60	F* Failure	0.0
	I** Incomplete	0.0
	W** Withdrawal	0.0
	R** Retaken	0.0

** Credits for courses with this grade do not apply towards graduation.*
*** Credits for courses with this grade do not apply towards graduation and they are not accepted in the calculation of the grade point average.*