



# Victoria University of Bangladesh

58/11/A, Panthapath, Dhaka-1205

## Course Profile- Summer, 2017

Faculty	Business Administration		
Program	BBA		
Course Code	CSE 211		
Course Title	Structured Programming Language		
Course Instructor	MD. EDRICH MOLLA JEWEL Coordinator & Lecturer Department of Business Administration E-Mail: jewelmolla77@gmail.com Victoria University of Bangladesh		
Status	Compulsory		
Credit Hours	3 Credit hours		
Teaching Methodology	Class Attendance Class Test Assignment Viva Mid-Term Final-Term		
Evaluation Method	Class Attendance.....15% Class Test.....5% Assignment.....5% Viva.....5% Presentation.....5% Mid-Term.....25% Final-Term.....40%		
Grading System	<b>Numerical Grade</b>	<b>Letter Grade</b>	<b>Grade Point</b>
	80% and above	A+ (A Plus)	4.00
	75% to less than 80%	A (A Regular)	3.75
	70% to less than 75%	A- (A Minus)	3.50
	65% to less than 70%	B+ (B Plus)	3.25
	60% to less than 65%	B (B Regular)	3.00
	55% to less than 60%	B- (B Minus)	2.75
	50% to less than 55%	C+ (C Plus)	2.50
	45% to less than 50%	C (Regular)	2.25
	40% to less than 45%	D (Regular)	2.00
Less than 40%	F (Fail)	0.00	
Course Objective	To help students better understand some of the more difficult topics about the methods of obtaining and analyzing on computer programming and languages.		
Book(s)	Basic Texts: 1. Data Structure by Seymour Lipschutz Reference Books: 1. Computer Fundamental by Lutfur Rahman.		



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## Lecture Plan

Lecture No.	Main Topic	Sub-topics
1 <sup>st</sup>	<b>Chapter 01</b> : Introduction & Overview	Introduction, Basic Terminology, Data Structure, Data Structure Operations.
2 <sup>nd</sup>	<b>Chapter 02:</b> Preliminaries	Introduction, Introduction, Mathematical Notation and Function, Algorithm Notation, and Function, Complexity of Algorithm, Variables.
3 <sup>rd</sup> & 4 <sup>th</sup>	<b>Chapter 03:</b> String Processing	Introduction, Basic Terminology, Storing Strings, Character Data Type, String Operation, Word Processing, Pattern Matching.
5 <sup>th</sup>	<b>Chapter 04:</b> Arrays, Records & Pointers	Introduction, Linear Arrays, Representation of Linear Arrays, Traversing Linear Arrays, Searching of Linear Arrays, Inserting, Pointer Arrays, Record Structure.
		Class Test & Assignment
6 <sup>th</sup>	<b>Chapter 05:</b> Linked List	Introduction, Linked List, Lined Representation of Linked List, Traversing of Linked List, Searching of Linked List, Memory allocation & Garbage Allocation, Insertion & Deletion of Linked List.
<b><u>Mid-Term Exam</u></b>		
7 <sup>th</sup>	<b>Chapter 06:</b> Stacks, Queues, Recursion	Introduction, Stacks, Array Representation of Stacks, Lined Representation of Stack, Queues, Lined Representation of Queues.
8 <sup>th</sup>	<b>Chapter 07:</b> Trees	Introduction, Binary Trees, Representing Trees, Traversing Binary Trees, Header Nodes, Searching & Inserting, AVL search Trees.
9 <sup>th</sup> & 10 <sup>th</sup>	<b>Chapter 08:</b> Graphs & Their Application	Introduction, Graph Theory Terminology, Representation of Graph, Operations on Graph
11 <sup>th</sup>	<b>Chapter 09:</b> Sorting & Searching	Introduction, Sorting, Insertion Sort, Selection Sort, Merging, Searching and Data Modification.
		Class Test & Assignment
12 <sup>th</sup>	Presentation & Viva	
<b><u>Final Exam</u></b>		

### **Instructions for Assignments & Term Paper:**

To be announced in the class

### **Examination Rules:**

According to the existing Examination Policy of VUB

### **Others:**

Any other issues & queries related to the course will be discussed and explained as and when required.