

B Sc. (H) Electronics, 3rd Semester
Subject: C Programming and Data Structures

<i>No. of Lecture</i>	<i>Date</i>	<i>Content</i>
4	26.07.2016- 30.07.2016	<ul style="list-style-type: none"> ➤ Unit 1: Introduction ➤ Importance of C ➤ Character set ➤ Basic data types ➤ Variables: declaration and assigning values ➤ Structure of c program
4	01.07.2016- 06.07.2016	<ul style="list-style-type: none"> ➤ Arithmetic operators ➤ Relational operators ➤ Logical operators ➤ Assignment operators ➤ Increment and decrement operators ➤ Conditional operators ➤ Bit wise operators ➤ Expressions and evaluation of expressions ➤ Type cast operator ➤ Implicit conversions ➤ Precedence of operators
4	08.08.2016- 13.08.2016	<ul style="list-style-type: none"> ➤ Arrays- concepts ➤ Declaration, accessing elements, storing elements in an array ➤ Two-dimensional and multi-dimensional arrays ➤ Input output statement and library functions ➤ Unit 2: Decision making statement ➤ If ➤ If-else ➤ Else-if
4	15.08.2016- 20.08.2016	<ul style="list-style-type: none"> ➤ Branching and looping ➤ For loop ➤ While loop ➤ Do loop ➤ Switch statement ➤ Break statement ➤ Continue statement ➤ Test 1: Syllabus-Unit1 (15.09.2016)
2	22.08.2016- 27.08.2016	<ul style="list-style-type: none"> ➤ Defining functions ➤ Function arguments ➤ Passing, returning values from functions
4	29.08.2016-	<ul style="list-style-type: none"> ➤ Defining and declaring a structure variables

	03.09.2016	<ul style="list-style-type: none"> ➤ Accessing structure members ➤ Initializing a structure ➤ Copying and comparing structure variables
4	05.09.2016-10.09.2016	<ul style="list-style-type: none"> ➤ Arrays within structures ➤ Structures within structures ➤ Structures and functions ➤ Pointers
4	12.09.2016-17.09.2016	<ul style="list-style-type: none"> ➤ Object oriented programming ➤ Characteristics of an object-oriented language ➤ Unit 3: Definition of stack ➤ Array implementation of stack
4	19.09.2016-24.09.2016	<ul style="list-style-type: none"> ➤ Conversion of infix expression to prefix, postfix expressions ➤ Evaluation of postfix expression ➤ Test 2: Syllabus-Unit 2 (20.10.2016)
4	26.09.2016-01.10.2016	<ul style="list-style-type: none"> ➤ Definition of queue ➤ Array implementation of queues ➤ Definition of queue ➤ Array implementation of queues
4	03.10.2016-08.10.2016	<ul style="list-style-type: none"> ➤ Link list implementation of stack and queue ➤ Circular and doubly linked list
	10.10.2016-15.10.2016	Semester Break
4	17.10.2016-22.10.2016	<ul style="list-style-type: none"> ➤ Unit 4: nsertion sort ➤ Selection sort ➤ Bubble sort ➤ Merge sort
4	24.10.2016-29.10.2016	<ul style="list-style-type: none"> ➤ Linear search ➤ Binary search ➤ Introduction to trees
4	31.10.2016-5.11.2016	<ul style="list-style-type: none"> ➤ Binary search tree (BST) ➤ Insertion and searching in a BST ➤ Test 3: Syllabus-Unit 3 (05.11.2016)
2	07.09.2016-10.11.2016	<ul style="list-style-type: none"> ➤ Preorder, postorder and inorder traversal (recursive)