



VENDORS NAME: 3 Edge Pvt Ltd

CLASS: II BME (3<sup>rd</sup> SEM)

**SUBJECT: PROGRAMMING IN C and DATA STRUCTURES-LEVEL-1**

S.no	Module	Week	Topics to be Covered
1	<b>Programming in C and DS LEVEL-1</b>	1st Week	Introduction of C, Variables , Operators and expressions, Variable declarations, more operators & precedence
2		2nd Week	Storage Classes specifier, Input and Output Statements, Control Statement - Conditionals
3		3rd Week	Control Statement - Loops, Functions and Introduction to Data Structure
4		4th Week	Arrays and Multidimensional arrays, Searching & Sorting Algorithms using Array
5		5th Week	Online & Programming Assessment-1, Pointers
6		6th Week	Pointers: Array of pointers, Pointer arithmetic, Stack and Queue implementation
7		7th Week	Dynamic Memory Allocation, List - Linked List
8		8th Week	Structures and Abstract Data Type, Structures and User-defined data types
9		9th Week	String Handling and Union
10		10th Week	File Handling: Read and write operation
11		11th Week	GUI Basics
12		12th Week	Recap, Online & Programming Assessment-2



VENDORS NAME: 3 Edge Pvt Ltd

CLASS: III BME (4<sup>th</sup> SEM)

**SUBJECT: PROGRAMMING IN C and DATA STRUCTURES-LEVEL-2**

S.no	Module	Week	Topics to be Covered
1	<b>Programming in C and DS LEVEL-2</b>	1st Week	C-programming -I, C- programming-II, C-PROGRAMMING-III
2		2nd Week	Data structuring case studies
3		3rd Week	Problem Decomposition by Recursion-I, II, III
4		4th Week	Merge sort and quick sort
5		5th Week	characters and strings
6		6th Week	array: addresses and contents
7		7th Week	structures -I, II
8		8th Week	Linked list-I
9		9th Week	Complexity of algorithm
10		10th Week	Asymptotic growth functions
11		11th Week	Asymptotic analysis of algorithm
12		12th week	sreach trees I, II, III
13		13th week	Algorithm design -I, II, III
14		14th week	Graphs-I, II, III
15		15th Week	Conclusion