

Semester:		Semester From date: _____ To _____	No. of Weeks: _____
DS	No of Days/Week Class Allotted: _____	date _____	
Class Day	Theory Topics		
1st	Introduction to tree & its Terminology.		
2nd	Discuss Types of tree.		
3rd	Binary Tree representation & Algo for BST.		
4th	B Tree Traversing & Its Algo.		
5th	" and AVL Tree.		
1st	Introduction to Graphs & Terminology		
2nd	Discuss with Graph Type.		
3rd	Explain Adjacency matrix, Path matrix.		
4th	BFS (Breadth First Search)		
5th	DFS (Depth First Search).		
1st	Discuss Bubble sort & with Also & example.		
2nd	Discuss Quick sort, Merge sort.		
3rd	Introduction to File organization		
4th	Introduction to Hashing		
5th	Hash Fun ⁿ & Hash table		

DS

No of Days/Week
Class Allotted: 5Semester From date: 3/12/19
date: 3/12/19

Theory Topics

Class Day	Theory Topics
1st	Introduction Data Structure, Implementation tree & heap.
2nd	Data structure Terminology. (Data) int, Data types)
3rd	Basic Data structure (Linear, Nonlinear)
4th	Data operations.
5th	Algorithms. (Time complexity)
1st	Algorithms (Space complexity)
2nd	Asymptotic Notation.
3rd	//
4th	Analysis of Algo
5th	Example and previous case study
1st	Introduction to Linear data structure Introduction to string.
2nd	Array def ⁿ . String oper ⁿ .
3rd	Array def ⁿ & Presentation Traversal algo for Arr.
4th	Traversal Search algo for Arr
5th	

Binary Search of an array

1st

Sorts in an array

2nd

Merges in an array.

3rd

Complexities arise in an array.

4th

Discussion class.

5th

Introduction to linked list & D

1st

Array presentation in linked list.

2nd

Types of linked list.

3rd

□ "

4th

Linked List operation?

5th

Linked list operation?

1st

Implementation of delete linked list in array.

2nd

"

3rd

Complexities arise in linked list

4th

Discussion with previous class.

5th

ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY, BHUBANESWAR
 LESSON PROGRESS (DIPLOMA-ODD SEM.2019-20)

SUBJECT NAME:-
 FACULTY NAME:-

Data Structure
 SM

SUBJECT CODE: TH2

SEMESTER:- 3rd
 REGD. NO.

BRANCH:- CS

LESSON NO.	UNIT	DATE OF CLASS CONDUCTED	TOPIC COVERED	IS IT AS PER SYLLABUS	IS IT LEADING/LAGGING	REASON	SIGN OF FACULTY	SIGN OF HOD	SIGN OF DEAN/PRINCIPAL
10	,	27/7/19	Introduced to complexity Time complexity	Yes	Leading				
	1	28/7/19	Space complexity.	Yes	Leading				
	,	29/7/19	Analysis of algo.	Yes	Leading				
	,	30/7/19	Discussion of previous class.	Yes	Leading				
	,	1/8/19	Big O Notation	Yes	Leading				
	,	2/8/19	Big theta & Big Ω	Yes	Leading				
		3/8/19	Objective type question discussion	No	Lagging	For student benefit			
		6/8/19	Introduced to string string operation?	No	Lagging	for practice			
		7/8/19	Word processing	No	Lagging	"			