



SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN (WINTER 2022)

Discipline- Computer Science & Engineering	Semester- 3rd	Faculty Name- Bharati nayak/Monalisa Swain
Subject- Data Structure	No of days/ per week class allotted-5	Semester from date- 06.09.2022 to 21.01.2023 No of weeks-21
Week	Class day	Theory Topics
SEP 2ND	06-09-22	Explain Data, Information, data types
	07-09-22	Define data structure & Explain different operations
	08-09-22	Define data structure & Explain different operations
	09-09-22	Discuss Algorithm & its complexity
	10-09-22	Discuss Algorithm & its complexity
SEP 3RD	12-09-22	Explain Time, space tradeoff
	13-09-22	Explain Time, space tradeoff
	14-09-22	CLASS TEST
	15-09-22	Doubt Clearing Class
SEP 4TH	19-09-22	Explain Basic Terminology, Storing Strings
	20-09-22	Explain Basic Terminology, Storing Strings
	21-09-22	State Character Data Type
	22-09-22	Discuss String Operations
	23-09-22	Give Introduction about array,
SEP 5TH	26-09-22	Discuss Linear arrays, representation of linear array In memory
	27-09-22	Discuss Linear arrays, representation of linear array In memory
	28-09-22	Explain traversing linear arrays, inserting & deleting elements
	29-09-22	Explain traversing linear arrays, inserting & deleting elements
	30-09-22	Discuss multidimensional arrays, representation of two dimensional arrays in
OCT 1ST	01-10-22	Discuss multidimensional arrays, representation of two dimensional arrays in
OCT 2ND	06-10-22	Explain sparse matrices.
	07-10-22	Give fundamental idea about Stacks and queues
	08-10-22	Explain array representation of Stack
OCT 3RD	11-10-22	Explain array representation of Stack
	12-10-22	Explain arithmetic expression ,polish notation & Conversion
	14-10-22	Discuss application of stack, recursion
	15-10-22	Discuss queues, circular queue, priority queues
	17-10-22	Discuss queues, circular queue, priority queues
OCT 3RD	18-10-22	Discuss application of stack, recursion
	19-10-22	Give Introduction about linked list
	20-10-22	Discuss queues, circular queue, priority queues
	21-10-22	Discuss searching a linked list
	22-10-22	Discuss garbage collection
	24-10-22	Explain Header linked list
OCT 4TH	26-10-22	Doubt Clearing Class
	27-10-22	Discuss traversing a linked list
	28-10-22	Explain Basic terminology of Tree
	01-11-22	Explain Basic terminology of Tree
NOV 1ST	02-11-22	Discuss searching a linked list
	03-11-22	Explain Basic terminology of Tree
	04-11-22	Explain Insertion into a linked list

NOV 2ND	07-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
	08-11-22	Explain Deletion from a linked list
	09-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
	11-11-22	Explain insertion & deletion in a binary search trees
NOV 3RD	12-11-22	Explain insertion & deletion in a binary search trees
	14-11-22	Doubt Clearing Class
	15-11-22	Explain graph terminology & its representation
	16-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
	17-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
	18-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
NOV 4TH	21-11-22	Discuss Binary tree, its representation and traversal, binary search tree, searching
	22-11-22	Explain graph terminology & its representation
	23-11-22	Explain graph terminology & its representation
	24-11-22	Explain graph terminology & its representation
	26-11-22	Explain Adjacency Matrix, Path Matrix
NOV 5TH	29-11-22	Explain Adjacency Matrix, Path Matrix
	30-11-22	Doubt Clearing Class
DEC 1ST	01-12-22	Introduction to Sorting, Searching and Merging
	03-12-22	Introduction to Sorting, Searching and Merging
DEC 2ND	05-12-22	Discuss Algorithms for Bubble sort, Quick sort
	07-12-22	Discuss Algorithms for Bubble sort, Quick sort
	08-12-22	Explain Adjacency Matrix, Path Matrix
	09-12-22	Explain Adjacency Matrix, Path Matrix
DEC 3RD	12-12-22	Merging
	13-12-22	Merging
	14-12-22	Doubt Clearing Class
	16-12-22	CLASS TEST
	17-12-22	Linear searching, Binary searching
DEC 4TH	20-12-22	Linear searching, Binary searching
	21-12-22	Discuss Algorithms for Bubble sort, Quick sort
	22-12-22	Discuss Algorithms for Bubble sort, Quick sort
JAN 1ST	02-01-23	Discuss Algorithms for Bubble sort, Quick sort
	03-01-23	Doubt Clearing Class
	06-01-23	Discuss Different types of files organization and their access method
	07-01-23	Discuss Different types of files organization and their access method
JAN 2ND	09-01-23	Discuss Different types of files organization and their access method
	10-01-23	Introduction to Hashing, Hash function, collision resolution, open addressing
	13-01-23	Introduction to Hashing, Hash function, collision resolution, open addressing
JAN 3RD	16-01-23	Introduction to Hashing, Hash function, collision resolution, open addressing
	21-01-23	ASSIGNMENT

Total no. of Classes: 81
 No. of Theory Classes: 64
 No. of Tutorial Classes: 5
 No. of Digital Classes: 5
 No. of PPT Classes: 7


 H.O.D.

H.O.D.

Computer Science & Engineering
 S.V.S.E.T., Madanpur


 DEAN ACADEMICS
 SVSET, MADANPUR


 PRINCIPAL
 PRINCIPAL

Swami Vivekananda School of Engg. & Tech.
 Madanpur, BBSR