||Jai Sri Gurudev|| BGS INSTITUTE OF TECHNOLOGY, B G NAGAR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING COURSE OUTCOMES AND CO-PO-PSO MAPPING

Course Coordinator: M J Prasanna Kumar Sem & Sec: III & 'B'

COURSE CODE: 17CSL38 COURSE NAME: Data Structure Laboratory

CO1	Analyse and compare various linear and non-linear data structure
CO2	Code, debug and demonstrate the working of different types of data structure and their applications
CO3	Implement, analyse and evaluate the searching and sorting algorithms
CO4	Apply the appropriate data structure for solving real world problems

PSO1	Ability to apply Mathematical Methodologies, Management Principles and Ethics, Electronics
	and Embedded Systems and Programming Technologies to solve real time problems.
	Ability to apply software design and development practices to develop software in emerging
PSO2	areas such as Internet of Things, Data Management, Social Networking and Security, Cloud
	and High-Performance Computing.

CO/PO'	РО	PO	PO	PO	PO	PO	P0	PO	PO	P0	PO	PO	PSO	PSO
S	1	2	3	4	5	6	7	8	9	10	11	12	1	2
CO1	3	2	2	1	-	-	-	-	-	-	-	-	2	-
CO2	3	2	2	2	1	-	-	-	-	-	-	-	2	-
CO3	3	2	2	2	I	-	-	-	-	-	-	-	2	-
CO4	3	2	2	-	-	-	-	-	-	-	-	-	2	-
AVG	3	2	2	1.5	1	-	-	-	-	-	-	-	2	-

COs	Level	Justification
CO1.PO1	3	gains knowledge on linear and non-linear data structures
CO1.PO2	2	able to decide on which type of data structure to use for given problem
CO1.PO3	2	can find the solution for the problem given using data structure
CO1.PO4	1	able to validate the solution found
CO1.PSO1	2	able to use different data structure to solve the problem
CO2.PO1	3	gain the knowledge on data structures
CO2.PO2	2	able to analyse the performance of different types of data structure
CO2.PO3	2	can design solution using different type of data structure

CO2.PO4	2	can able to evaluate the result of solution found
CO2.PO5	1	can able to use tools like c compilers and editors to develop program
CO2.PSO1	2	can design program which involves data structure
CO3.PO1	3	gain the knowledge on searching and sorting algorithms
CO3.PO2	2	can analyse searching and sorting algorithms
CO3.PO3	2	able to design searching and sorting algorithms
CO3.PO4	2	able to evaluate searching and sorting algorithms
CO3.PSO1	2	able to develop searching and sorting algorithms
CO4.PO1	3	gain the knowledge on how to apply different of data structure depending on problem given
CO4.PO2	2	able to decide on data structure that suits for solving problem.
CO4.PO3	2	able to use appropriate data structure for designing solution that solves problems
CO4.PSO1	2	able to design data structure for solving problems

Signature of Course Coordinator Signature of Module Coordinator Signature of HoD