



MALLA REDDY UNIVERSITY

(Telangana State Private Universities Act No. 13 of 2020 & G.O.Ms.
No. 14, Higher Education (UE) Department)

Maisammaguda, Kompally,
Medchal - Malkajgiri District
Hyderabad - 500100, Telangana State.
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DEPARTMENT OF CYBER SECURITY & IoT

DATA STRUCTURES THROUGH JAVA LAB

OBJECTIVE:

The core objective of DATA STRUCTURES THROUGH JAVA is to build a strong foundation in Java programming by implementing key data structures and algorithms. Focusing mainly to learn and to solve problems efficiently, by understanding algorithm complexities, and applying object-oriented programming principles. These tasks enhance problem-solving skills, algorithmic thinking, and proficiency in fundamental computer science concepts. Ultimately, the aim is to prepare students for advanced topics and real-world software development challenges.

Photos:





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OUTCOME:

- **Understanding Core Data Structures:** Learn and differentiate between arrays, linked lists, stacks, queues, trees and graphs.
- **Java Implementation:** Develop skills to implement and manipulate these data structures in Java.
- **Algorithm Analysis:** Analyze time and space complexities of data structure operations.
- **Application and Problem-Solving:** Apply data structures to solve problems like sorting, searching, and expression evaluation.
- **Java Libraries:** Utilize Java's Collection Framework (e.g., ArrayList) for efficient data handling.



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EQUIPMENT DETAILS:

DATA STRUCTURES THROUGH JAVA LAB	
Room No.: 2-303	No of systems:90
	Processor : intel i5 12th gen 12400 2.50Ghz
	Installed RAM : 16gb DDR4 3200MHZ
	SSD :- 256 GB x-64based pc
	System Type : 64-bit operating system, x64- based processor, cpu@2.50g
	Operating Systems: Windows 10,11 pro
	OS Version : 21H2, Edition-Windows
	Mouse : Lenovo,90
	Keyboard :Lenovo,90
	Monitor : Lenovo Thinkvision
	MAXHUB -Smart Board with Internet Connection Audio System with cordless mic

COORDINATORS:

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