



KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES

Affiliated to Osmania University, NAAC Accredited

Narayanaguda, Hyd

A Unit of Keshav Memorial Educational Society

Report on

Guest Lecture

Session Details

Title of the session: Sorting Techniques in Data Structures Using C++

Date: 04/08/2025

Duration: 1 hour

Activity Category: IIC Calendar/MIC Driven/Self Driven/Celebration

Theme: To gain the knowledge sorting techniques

Venue: MBA Seminar Hall

Organised by: Keshav Memorial Institute of Commerce and Sciences, Department of Computer Science

Budget: 2000

Expert/Speaker Details:

Name: Mr. Addagatla Govardhan

Designation: Assistant Professor of Computer Science

Organization: Bankatlal Badruka College for Information Technology (BBCIT)

Brief about Expert/Speaker: Mr. Addagatla Govardhan, Assistant professor at BBCIT, Hyderabad. He is a dedicated academician currently pursuing a Ph.D in AI-based sustainable groundwater recharge. He is also a passionate natural farmer, motivational speaker, and active Rotarian engaged in various community service initiatives.

Outcome/Report of the activity:

The guest lecture by Mr. Addagatla Govardhan on "Sorting Techniques in Data Structures" focused on enhancing students' foundational understanding of sorting algorithms. The session provided a detailed explanation of Bubble Sort, covering its logic, implementation, step-by-step execution, and time complexity. Mr. Govardhan used simple examples to clearly demonstrate how Bubble Sort works, helping students understand its inner workings effectively. In addition to Bubble Sort, he gave a brief introduction to other sorting techniques such as Selection Sort, Insertion Sort, Merge Sort, and Quick Sort, highlighting their basic ideas and comparative efficiencies. The session helped students gain conceptual clarity, particularly on how sorting plays a critical role in organizing and processing data. Students found the lecture informative and beginner-friendly, especially those new to algorithm analysis. The lecture successfully laid the groundwork for deeper exploration of advanced sorting techniques in future sessions.

Key Highlights:

Introduction to Sorting

- Importance of sorting in computer science
- Real-world applications

Classification of Sorting Algorithms

- Internal vs. External sorting

Overview of Major Sorting Techniques

- **Simple algorithms:** Bubble Sort, Selection Sort, Insertion Sort
- **Efficient algorithms:** Merge Sort, Quick Sort, Heap Sort

Participant details:

Total no. of Student participation: **162** (BSc II Year (MPCs & MSCs))

Total no. of Staff (Teaching/Non-teaching) participation: 6



- Attendance details /Participants List (photo)(Word format provided)

Class	Year	No. of Students
BSC(MPCs)	II Year	73
BSC(MSCs)	II Year	89

- Circular (Paste the Picture here & submit the hard copy to us) (Word format provided)
(Circular should include principal's sign and stamp)




KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES

CIRCULAR
GUEST LECTURE
On
"DATA STRUCTURES USING C++ (Sorting Techniques)"
Date: 4th August 2025

Date: 1-08-2025

Subject: To encourage the students to gain knowledge in Sorting Techniques with Data Structures Using C++ theoretically.

Dear Students,

The Department of Computer Science is organizing a Guest Lecture on "Sorting Techniques" with Data Structures Using C++. To enhance students' understanding of Different Types of Sorting Techniques in Data Structures Using C++. This session will offer both theoretical demonstrations to help students strengthen their programming skills.

Event Details:

- **Date:** 4th August 2025
- **Time:** 12:30 PM to 1:30 PM
- **Venue:** MBA Seminar Hall, 4th Floor, KMICS

All interested students are encouraged to attend this session and make the most of this learning opportunity. This lecture will serve as a foundation for better understanding of different types of Sorting Techniques in data structures using C++.

We look forward to your enthusiastic participation!

Swapna K
Best Regards, 1/8/2025
K. Swapna
Coordinator, Dept. of Computer Science

V. Santhi
Mrs. V. Santhi
Principal

- Feedback of participants

Feedback of participants

KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES
Feedback Form of Guest lecture event on Sorting Algorithms in Data Structures

Name: S. Pratiksha
Class: B.Sc. (MCS) II B
College/Institution Name, City: Keshav Memorial Institute of Commerce & Sciences
Roll Number: 110-24-468-078
WhatsApp Number: 9309420536

I found the event useful
☒ Strongly agree
☐ Agree
☐ Disagree

Content covered was relevant to my area
☒ Strongly agree
☐ Agree
☐ Disagree

Presenter delivered the material well
☒ Strongly agree
☐ Agree
☐ Disagree

The venue was appropriate
☒ Strongly agree
☐ Agree
☐ Disagree

What were the strengths of the event? What did you find most useful & why?
Bubble sort with detailed example

Which parts were least useful & why?
difference between various types of sorting techniques

What you learned from this event?
Bubble sort technique with real time example

Do you have any further questions that need answers? Is there any topic you would like to be covered in future?
No

Feedback of participants

KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES
Feedback Form of Guest lecture event on Sorting Algorithms in Data Structures

Name: Mr. Bhanu
Class: BSc (MCS) II B
College/Institution Name, City: Keshav Memorial Institute of Commerce & Sciences
Roll Number: 110-24-468-081
WhatsApp Number: 995115705

I found the event useful
☒ Strongly agree
☐ Agree
☐ Disagree

Content covered was relevant to my area
☒ Strongly agree
☐ Agree
☐ Disagree

Presenter delivered the material well
☒ Strongly agree
☐ Agree
☐ Disagree

The venue was appropriate
☒ Strongly agree
☐ Agree
☐ Disagree

What were the strengths of the event? What did you find most useful & why?
Real time examples on Bubble sort

Which parts were least useful & why?
The way of arrangement of elements in various sorting techniques

What you learned from this event?
The lecture conveyed the differences between various sorting techniques

Do you have any further questions that need answers? Is there any topic you would like to be covered in future?
No

Feedback of participants

KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES
Feedback Form of Guest lecture event on Sorting Algorithms in Data Structures

Name: A. Manisha
Class: B.Sc (MCS) 2A
College/Institution Name, City: Keshav Memorial Institute of Commerce & Sciences
Roll Number: 110-24-468-006
WhatsApp Number: 9396051633

I found the event useful
☒ Strongly agree
☐ Agree
☐ Disagree

Content covered was relevant to my area
☒ Strongly agree
☐ Agree
☐ Disagree

Presenter delivered the material well
☒ Strongly agree
☐ Agree
☐ Disagree

The venue was appropriate
☒ Strongly agree
☐ Agree
☐ Disagree

What were the strengths of the event? What did you find most useful & why?
Improves searching efficiency, Data Organization, Real-life Application

Which parts were least useful & why?
Insertion sort, Manual Day Runs for Big Data

What you learned from this event?
about how sorting technique is used in Data structure

Do you have any further questions that need answers? Is there any topic you would like to be covered in future?
No

Feedback of participants

KESHAV MEMORIAL INSTITUTE OF COMMERCE & SCIENCES
Feedback Form of Guest lecture event on Sorting Algorithms in Data Structures

Name: G. Saikeerthi
Class: BSc (MCS) - 3A
College/Institution Name, City: Keshav Memorial Institute of Commerce & Sciences
Roll Number: 110-24-468-048
WhatsApp Number: 905847680

I found the event useful
☒ Strongly agree
☐ Agree
☐ Disagree

Content covered was relevant to my area
☒ Strongly agree
☐ Agree
☐ Disagree

Presenter delivered the material well
☒ Strongly agree
☐ Agree
☐ Disagree

The venue was appropriate
☒ Strongly agree
☐ Agree
☐ Disagree

What were the strengths of the event? What did you find most useful & why?
The interactive sessions were most useful as they gave clear understanding

Which parts were least useful & why?
All parts of session were useful

What you learned from this event?
I learned Bubble sort technique in this session

Do you have any further questions that need answers? Is there any topic you would like to be covered in future?
Not only bubble sort, if more sorting techniques are explained it would be better