



Department of Computer Science & Engineering

Date: 22/06/2026

Submitted,

Sub: Report on Guest Lecture on **Unlocking Smart Algorithms:From Basics to Beyond-Reg.**

The Department of CSE, in association with IEEE Computer Society of Sri Sairam College of Engineering, Bangalore, conducted an online Guest Lecture on "Unlocking Smart Algorithms:From Basics to Beyond" on 18.06.26 through Google Meet.

The workshop started with the welcome address by **Dr. Smitha J A, Head of CSE Department**, and the resource person's introduction by Prof. Saranya C,AP/CSE. The Event Co-ordinators are Prof.Saranya C & Prof.Amsa Lakshmi M.

The resource person for the session was:

Mrs Sunidhi Priyadarshini,

Assistant Professor/CSE,

Dumka Engineering College,Dumka,

Jharkhand.

Introduction

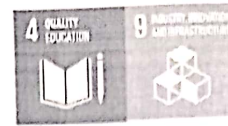
The guest lecture on **"Unlocking Smart Algorithms:From Basics to Beyond"** was organized to enhance students' understanding of algorithm design techniques, efficiency analysis, and problem-solving strategies used in computer science. The session provided valuable insights into designing optimal algorithms, analyzing their time and space complexity, and applying suitable algorithmic approaches to solve real-world computational problems.

Objectives of the Guest Lecture

The main objectives of the session were:

- To explain the importance of time complexity and space complexity in evaluating algorithm efficiency.
- To familiarize students with various algorithm design strategies such as divide and conquer, greedy method, dynamic programming, and backtracking.
- To help students understand asymptotic notations and performance comparison of algorithms and also to create awareness about the practical applications of algorithms in solving real-world problems.

Overview of the Session



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The resource person began the session by explaining the importance of algorithms in computer science and software development. The lecture covered the fundamentals of algorithm analysis, including complexity measures and asymptotic notations, along with important design strategies such as divide and conquer, greedy method, dynamic programming, and backtracking. Real-time examples were presented to help students understand the practical significance of efficient algorithm design and problem-solving approaches.

Outcome of the Guest Lecture

The guest lecture successfully enhanced the students' understanding of **Design & Analysis of Algorithms** and strengthened their knowledge of algorithmic problem-solving techniques. The session helped students understand the importance of selecting appropriate algorithms and analyzing their performance for efficient software development.

Conclusion

The guest lecture on "Design & Analysis of Algorithms" was highly informative and beneficial to the students. It provided valuable insights into algorithm design strategies, complexity analysis, and their applications in solving computational problems. The session motivated students to improve their analytical thinking and strengthen their programming and problem-solving skills.

The event concluded at around 4:00PM on 18.06.2026 with an interactive question-and-answer session, followed by a vote of thanks. The organizing team expressed their sincere gratitude to the resource person for sharing her valuable knowledge and expertise with the participants.



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IEEE Bangalore Society

organizes a Guest Lecture on

Unlocking Smart Algorithms: From Basics to Beyond

Resource Person

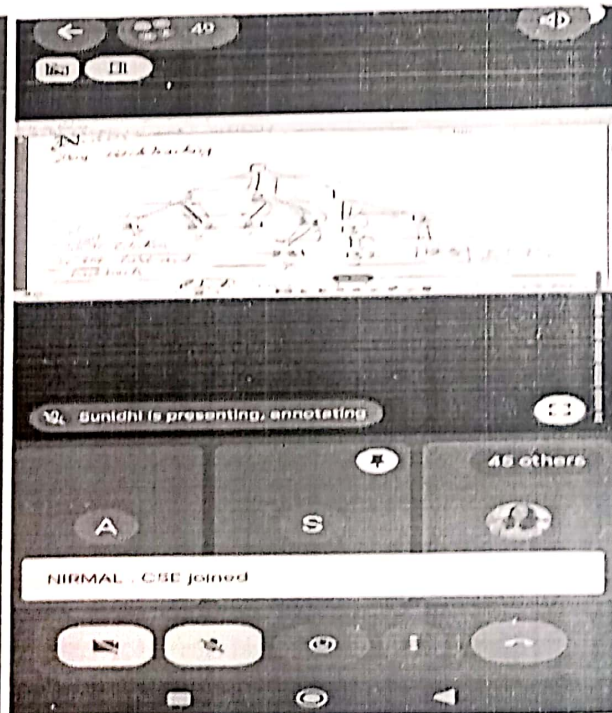
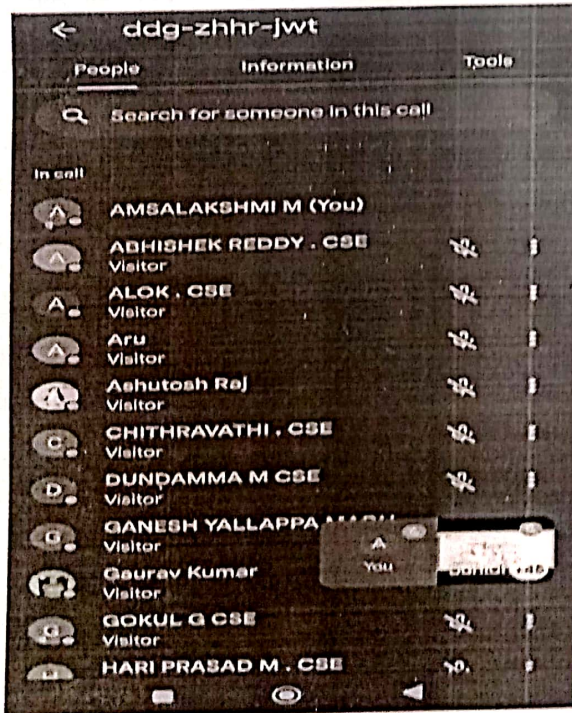
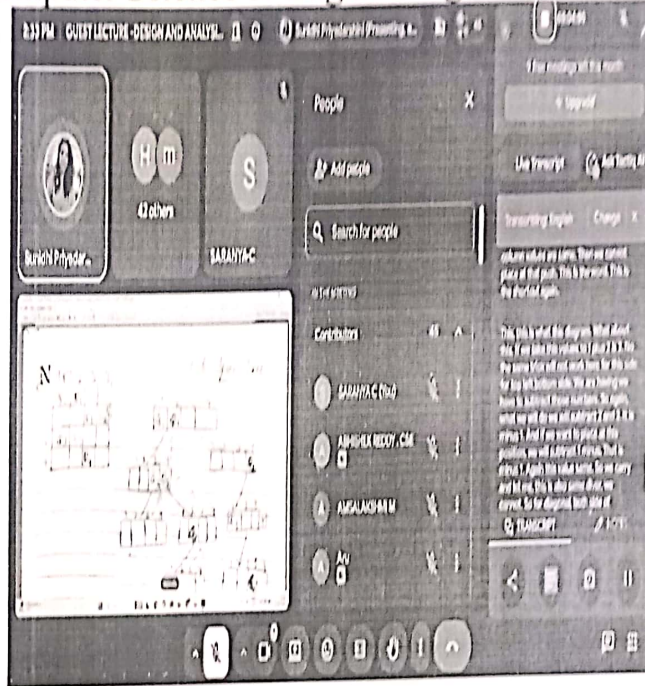


Tuesday, 20th onwards
Target Audience: Second Year Students
Date: 18.06.2026

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