



**ACS** College of Engineering  
Approved by AICTE New Delhi, Affiliated to VTU, Belagavi  
(A Unit of RajaRajeswari Group of Institutions)  
CET Code : E186 COMED-K : E003 PG CET : T918



## Department of Biomedical Engineering

### Distinguished Guest Lecture

on

### “Algorithm Engineering $\neq$ Algorithm Development”

**Topic:** Algorithm Engineering  $\neq$  Algorithm Development (Online Platform – Google Meet)

**Date:** 04.03.2025 (Tuesday)

**Time:** 2.00 P.M. to 3.00 P.M.

**Resource Person : Mr.Nabin Tewari**

**Software Architect at Siemens Healthineers**

Mr.Nabin Tewari specializes in medical image processing applications, with a focus on algorithm engineering within the computed tomography (CT) domain.

### Programme Objective

This distinguished lecture explores the critical distinction between algorithm development and algorithm engineering within the realm of medical imaging and post-processing applications (commonly referred to as medical devices). It emphasizes how algorithm engineering forms a unique discipline essential for the successful integration of robust, scalable algorithms into these applications. The presentation highlights the specialized skills and approaches required to bridge the gap between algorithm creation and practical implementation in clinical settings.

### Program Outcome

- **Understanding Algorithm Engineering in Medical Imaging:** Attendees will gain a clear understanding of how algorithm engineering differs from algorithm development, particularly in the context of medical imaging applications.

- **Real-World Application Insight:** Participants will learn how algorithm engineering is applied to create efficient, scalable, and robust algorithms for processing and analyzing medical images.
- **Complexity and Optimization Techniques:** The lecture will enable attendees to grasp the importance of algorithmic complexity and the optimization strategies necessary for real-time medical imaging systems.
- **Practical Tools and Methodologies:** Participants will be introduced to the tools and methods used in evaluating and fine-tuning algorithms specifically for medical imaging.
- **Enhancing Image Processing Efficiency:** The session will demonstrate how algorithm engineering principles can be applied to enhance the accuracy, efficiency, and performance of medical image analysis tools.
- **Critical Decision-Making Skills:** Attendees will develop the skills to make informed decisions regarding trade-offs between algorithmic performance, speed, and resource usage, tailored to the unique demands of medical imaging applications.

**Participants:** 4<sup>th</sup> & 6<sup>th</sup> semester students of BME Department + 4 faculties

**Event Co-ordinator:**

Mrs.Nagashree Pavan , Assistant Professor – BME

### Event Poster

**ACS COLLEGE OF ENGINEERING**  
 Affiliated to VTU, Belagavi Approved by AICTE, New Delhi & GoK  
 No. 207 Kambipura, Mysore Road, Bangalore – 560 074

ISO 9001:2015  
 NAAC A Grade  
 IEEE  
 IEEE  
 EMB

IEEE student Branch & EMBS chapter in association with  
**Department of Biomedical Engineering**  
 Organizing WEBINAR ON  
 "Algorithm Engineering & Algorithm Development"

**RESOURCE PERSON**  
**Mr. Nabin Tewari**  
 Software Architect  
 Siemens Healthineers, Bangalore

**4th March, 2025**  
 Time : 2:00 PM

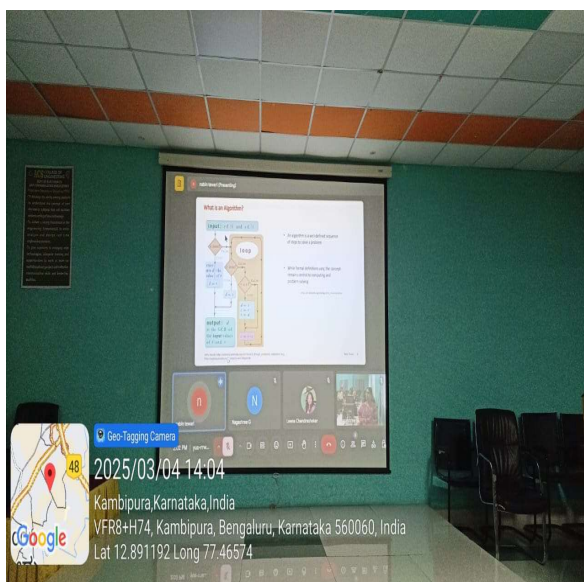
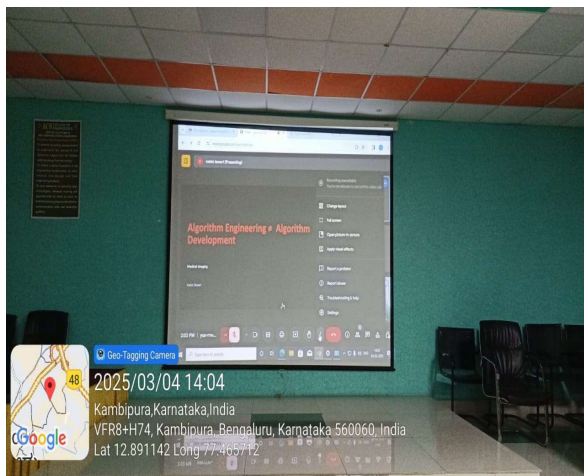
**Google Meet**  
 Coordinator  
 Mrs. Nagashree, Asst. Professor,  
 Dept. of BME

9008545678 www.acsce.edu.in

## Event Photos



## Student Participation



## Online Webinar

## Student Attendance



**ACS College of Engineering**  
Approved by AICTE New Delhi, Affiliated to VTU, Belagavi  
In Unit of Basavanagudi, Channarayana Nagar, Bangalore  
SET-008 / 8188 COMED-K / 8002 PGCE / 1918



### DEPARTMENT OF BIOMEDICAL ENGINEERING

6<sup>th</sup> SEMESTER STUDENT LIST 2024-2025 Date: 04.03.2025

Online Webinar :Algorithm Engineering ≠ Algorithm Development

Sl No.	USN	NAME	Signature
1	1AH22BM001	ALEN SIBI JACOB	
2	1AH22BM003	ANUSHA	← AB →
3	1AH22BM004	ARYAN AGRAWAL	
4	1AH22BM005	AYHAM AHMAD AHMAD	
5	1AH22BM006	DEEPA P ESWAR	
6	1AH22BM007	GOPIKA PANCHAL	
7	1AH22BM008	LEKHANA K	
8	1AH22BM009	NANDINI R	
9	1AH22BM010	NEHA VINOD P	
10	1AH22BM011	NITHISH	
11	1AH22BM012	PAVAN M R	
12	1AH22BM013	PRANAV HOYSALA	
13	1AH22BM014	PRAVEEN KUMAR REDDY	← AB →
14	1AH22BM015	PROXIMA SAPKOTA	
15	1AH22BM016	RITESH SAH	
16	1AH22BM017	SAPNA G R	← AB →
17	1AH22BM018	SHREEYA DESAI	
18	1AH22BM019	TEJASWINI D M	
19	1AH22BM020	UMRANA LAEEQH	
20	1AH22BM021	VARSHITHA S Y	
21	1AH22BM022	YASHICA MOHAN	

HoD

Head of Department  
Bio Medical Engineering  
ACS College of Engineering  
Bangalore +91 82 274





**ACS College of Engineering**  
 Approved By AICTE, New Delhi, Affiliated to VTU, Belagavi  
 (A Unit of Rajarajwade Group of Institutions)  
 CET Code : E185 COMED-K : 2202 PGGET : T318



## DEPARTMENT OF BIOMEDICAL ENGINEERING

4th SEMESTER STUDENT LIST 2024-25 Date: 04.03.2025

Online Webinar : Algorithm Engineering ≠ Algorithm Development

Sl.No	USN	Name	Signature
1	1AH23BM001	ALWIN RAJU	← AB →
2	1AH23BM002	ANILET ENITA M	Anilet
3	1AH23BM003	ANUSHA N	← AB →
4	1AH23BM004	BHOOMIKA	Bhoomika
5	1AH23BM005	CHAITRA GUBBI	← AB →
6	1AH23BM006	CHANDANA P	Chandana
7	1AH23BM007	CHANDANA R	Chandana R
8	1AH23BM009	JEEVAN R	Jeevan
9	1AH23BM010	KEVIN RUFUS KUMAR	Kevin
10	1AH23BM011	KUSUMA C V	Kusuma C V
11	1AH23BM012	LISHA S	Lisha
12	1AH23BM013	M L TARUN RAJ	Tarun
13	1AH23BM014	MEGHNA	Meghna
14	1AH23BM015	MIDHUN KRISHNAN U	← AB →
15	1AH23BM016	MOHAMMED ABDUL HASEEB	Mohammed
16	1AH23BM017	NAIOMI BENJAMIN	Naiomi
17	1AH23BM018	NANDIKA B U	Nandika
18	1AH23BM019	PRANATHI K M	Pranathi
19	1AH23BM020	SANJANA H S	Sanjana
20	1AH23BM023	TANUSHA S	Tanusha
21	1AH23BM024	VADDI MEGHANA	Vaddi Meghana
22	1AH23BM025	VAISNAVI B	Vaisnavi B
23	1AH23BM027	VIDYA HEGDE	Vidya

HoD

Event Coordinator

HoD

Head of Department  
 Bio Medical Engineering  
 ACS College of Engineering  
 Bangalore - 560 074.

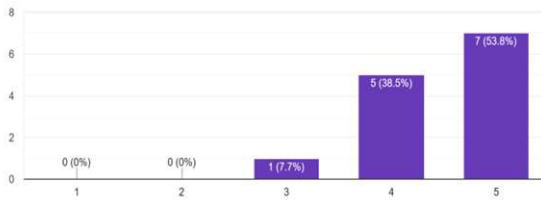
Anand B Gudli

Principal  
 PRINCIPAL  
 ACS COLLEGE OF ENGINEERING  
 Kambipura, Mysore Road, Kengeri Hobli  
 Bangalore-560074

## Feedback Details

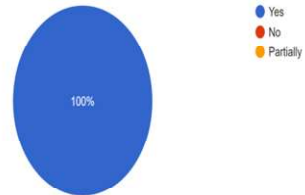
How would you rate your overall experience of the webinar?

13 responses



Was the topic "Algorithm Engineering ≠ Algorithm Development" clearly explained?

13 responses



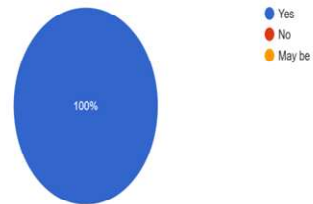
What was the most insightful or useful takeaway from the session?

8 responses



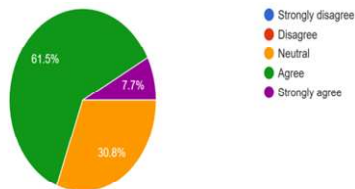
Did the webinar enhance your understanding of the difference between algorithm engineering and algorithm development?

13 responses



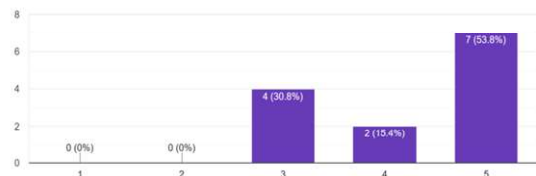
Were the examples or case studies presented helpful in understanding the topic?

13 responses



How would you rate the technical depth of the content?

13 responses

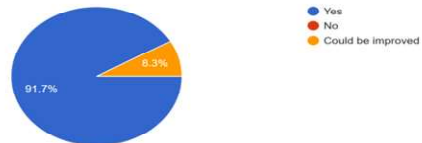
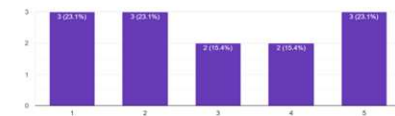


Were your questions and doubts addressed effectively during the session?

12 responses

Was the speaker engaging and clear in their explanations?

13 responses



Any additional suggestions or feedback to improve future webinars?

7 responses

Would you like to attend more webinars on similar topics?

13 responses

