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 PGCET : T918

Department of Biomedical Engineering

Distinguished Guest Lecture

on

"Algorithm Engineering ≠ Algorithm Development"

Topic: **Algorithm Engineering ≠ 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: **4th & 6th semester students of BME Department + 4 faculties**

Event Co-ordinator:

Mrs.Nagashree Pavan , Assistant Professor – BME

Event Poster

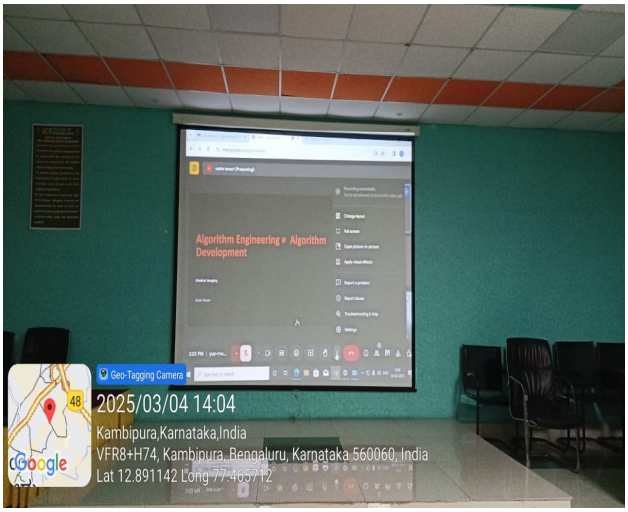


Event Photos

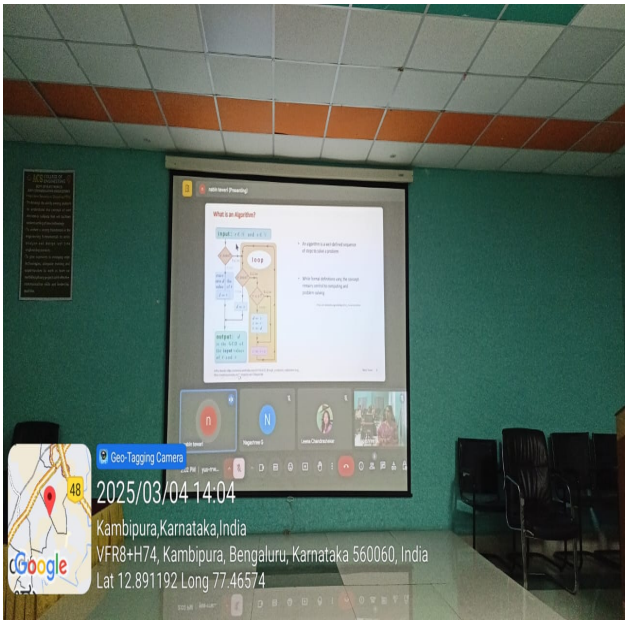




Student Participation



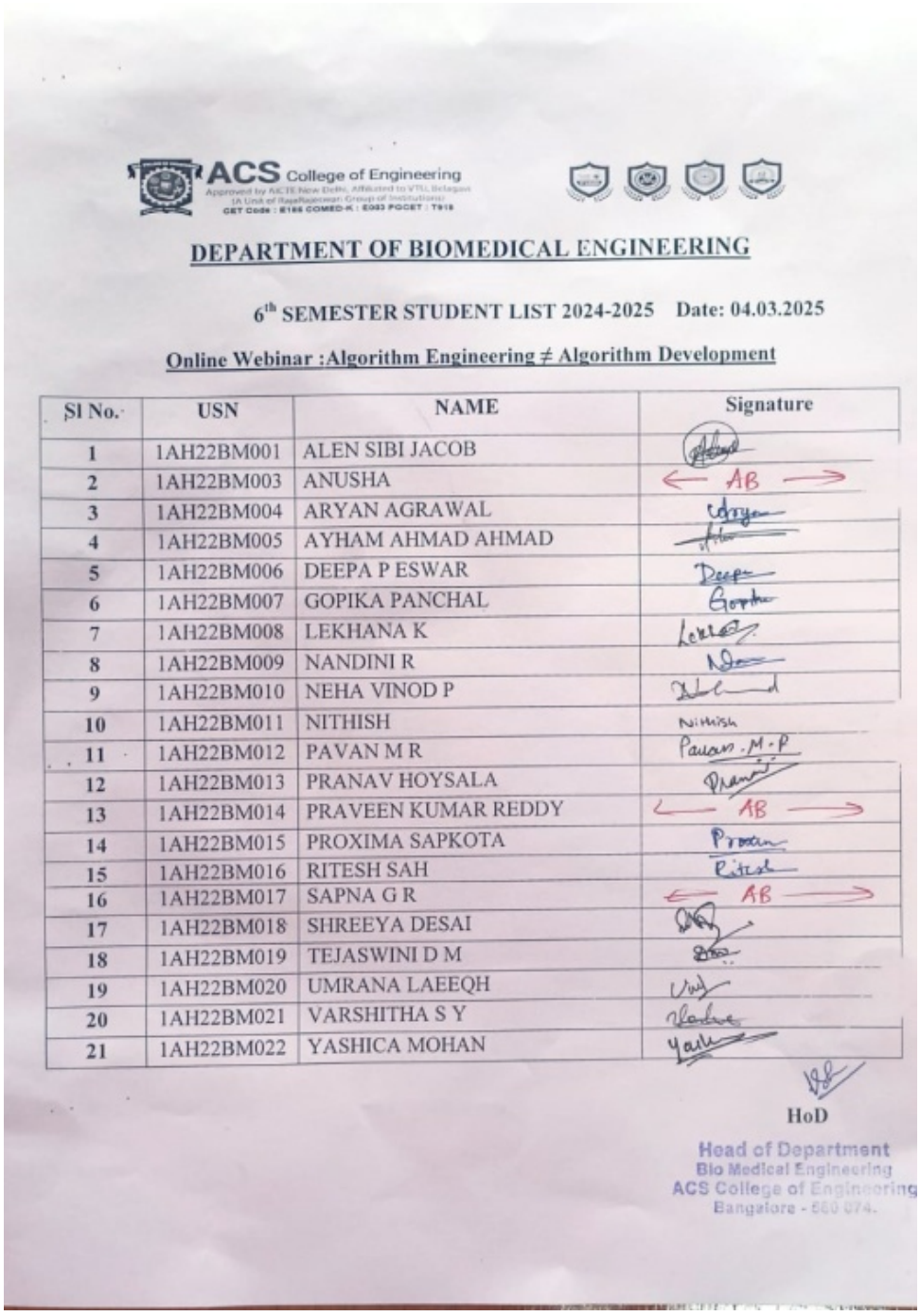






Online Webinar

Student Attendance



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DEPARTMENT OF BIOMEDICAL ENGINEERING

6th 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
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CET Code : E186 COMED-K : E003 PGCET : T918

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	
3	1AH23BM003	ANUSHA N	AB
4	1AH23BM004	BHOOMIKA	
5	1AH23BM005	CHAITRA GUBBI	AB
6	1AH23BM006	CHANDANA P	
7	1AH23BM007	CHANDANA R	Chandana.R
8	1AH23BM009	JEEVAN R	
9	1AH23BM010	KEVIN RUFUS KUMAR	
10	1AH23BM011	KUSUMA C V	
11	1AH23BM012	LISHA S	
12	1AH23BM013	M L TARUN RAJ	
13	1AH23BM014	MEGHNA	
14	1AH23BM015	MIDHUN KRISHNAN U	AB
15	1AH23BM016	MOHAMMED ABDUL HASEEB	
16	1AH23BM017	NAIOMI BENJAMIN	
17	1AH23BM018	NANDIKA B U	
18	1AH23BM019	PRANATHI K M	
19	1AH23BM020	SANJANA H S	
20	1AH23BM023	TANUSHA S	
21	1AH23BM024	VADDI MEGHANA	
22	1AH23BM025	VAISNAVI B	
23	1AH23BM027	VIDYA HEGDE	

HoD 4/3/25

Event Coordinator

HoD

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

Anand B Gudi

Principal
PRINCIPAL
ACS COLLEGE OF ENGINEERING
Kambipura, Mysore Road, Kengeri Hobli
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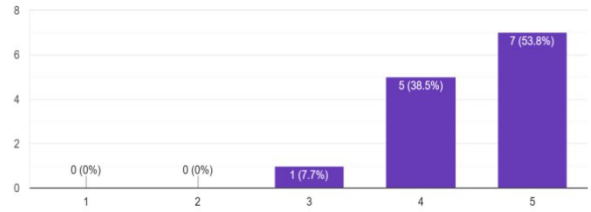
Feedback Details

How would you rate your overall experience of the webinar?

13 responses



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

13 responses



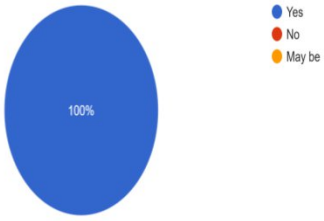
What was the most insightful or useful takeaway from the session?

8 responses

Gain more knowledge about algorithm
About algorithm engineers
It was good session
Now i can inderstand the Algorithm engineering
Everything way pretty good
Learnt about the different between algorithm development and algorithm engineering
Future trends
Algorithm

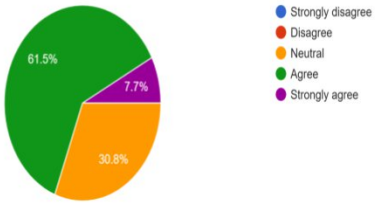
Did the webinar enhance your understanding of the difference between algorithm engineering and algorithm development?

13 responses



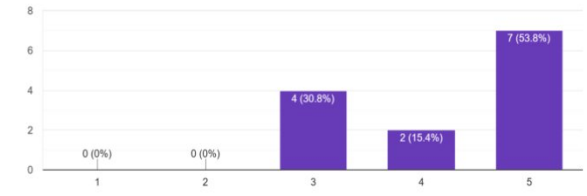
Were the examples or case studies presented helpful in understanding the topic?

13 responses



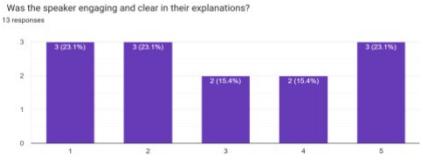
How would you rate the technical depth of the content?

13 responses



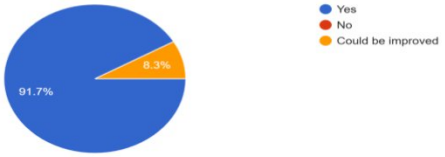
Was the speaker engaging and clear in their explanations?

13 responses



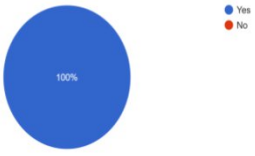
Were your questions and doubts addressed effectively during the session?

12 responses



Would you like to attend more webinars on similar topics?

13 responses



Any additional suggestions or feedback to improve future webinars?

7 responses

