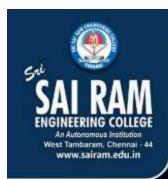
Expert Lecture on Recent Trends in Medical Instrumentation Resource Person:

Dr. A. Janani, Assistant Professor, Department of Biomedical Engineering, Anna University - Guindy Campus, Chennai 600 025, Phone No.: 99443 66149

- 1. Title of the event: Expert Lecture on 'Recent Trends in Medical Instrumentation'
- 2. Date of the event: 07.05.2025
- 3. Approval letter from the Trust office (if any): NA
- 4. Proof for funding (if any): NA
- 5. Name of the resource person with phone number: Dr. A. Janani, Assistant Professor, Department of Biomedical Engineering, Anna University Guindy Campus, Chennai 600 025, Phone No.: 99443 66149
- 6. Official address of the resource person: Department of Biomedical Engineering, Anna University Guindy Campus, Chennai 600 025
- 7. Objective of the event: Expert lecture for the Professional Elective II 20ECEl610 / Medical Electronics
- 8. Attendance sheet of the participants: Students who opted for Medical Electronics as Professional Elective II
- 9. Sample certificates filled (if certificates issued to the participants): NA
- 10. Details of the collaborating agency (if any): NA
- 11. Geo tagged photos of the event:















Expert lecture on

"RECENT TRENDS IN MEDICAL **INSTRUMENTATION"**

07.05.2025 , Wednesday | 6:30 to 7:30 PM | Google MEET



Scan to Join!

RESOURCE PERSON:

Dr. A. Janani,

Assistant professor at Anna University, Guindy Campus, Chennai





EVENT ID: SEC202505DEC09

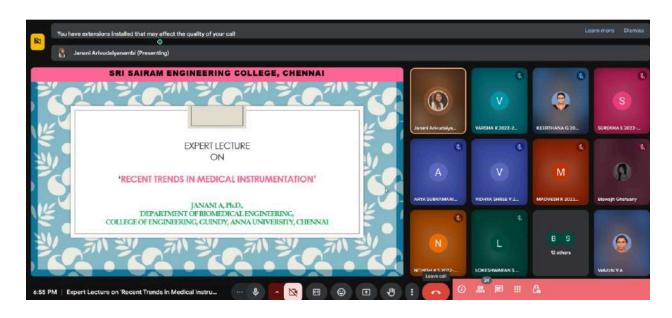




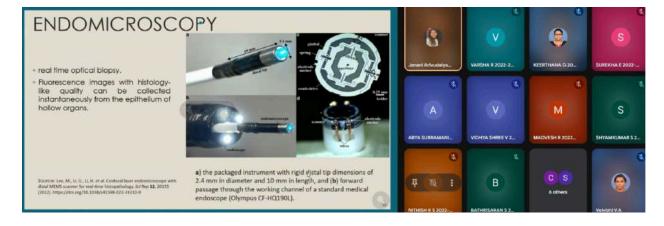


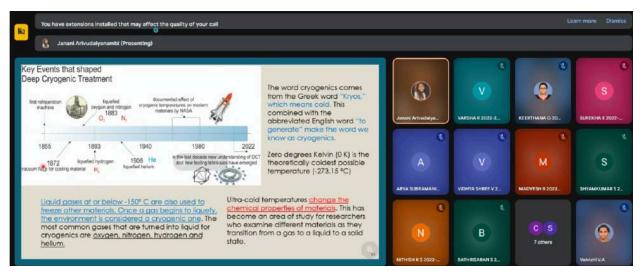


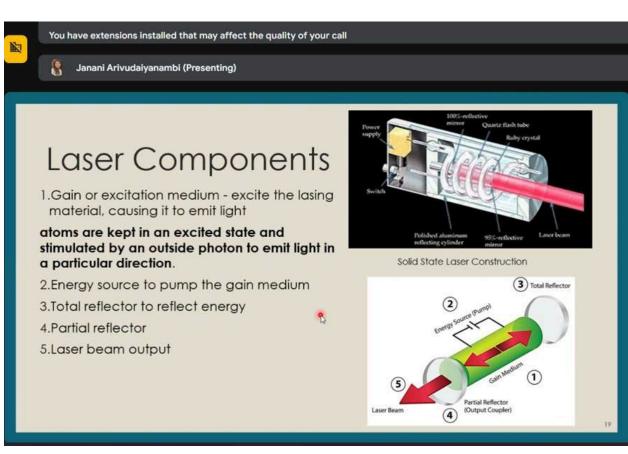


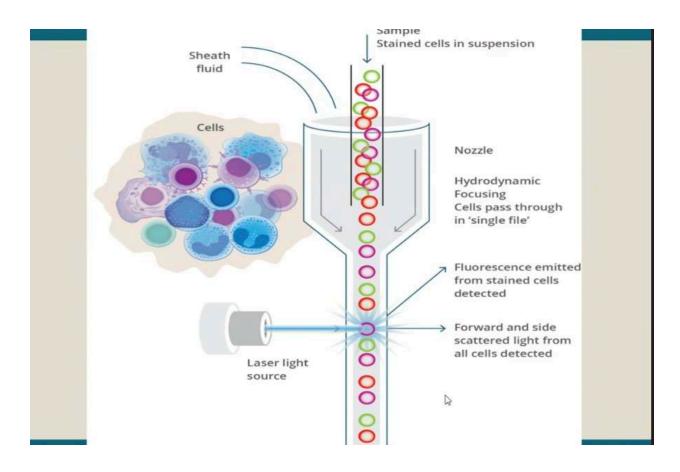












- 12. Website link of the event: NA
- 13. About the event with outcome of the event (in one page)

Report

Event Name: Expert Lecture on 'Recent Trends in Medical Instrumentation'

Date: 07.05.2025

Time: 6.30 PM to 8.00 PM

Venue: Online Mode

1. Objective of the Lecture

The expert lecture aimed to provide students and faculty with insights into recent advancements and practical applications in the field of medical instrumentation, with a specific focus on lasers in medicine, endodiathermy, and cryogenic applications.

2. Highlights of the Session

Lasers and Applications in Medicine

- The speaker elaborated on the principles of medical lasers, including their types (CO₂, Nd:YAG, Excimer, etc.).
- Clinical applications were discussed, such as:
 - Laser-assisted surgeries
 - Ophthalmic procedures (e.g., LASIK)
 - Dermatological treatments (e.g., tattoo and scar removal)
 - Oncology (tumor ablation and photodynamic therapy)

← Endodiathermy

- Introduction to diathermy and endodiathermy techniques used in minimally invasive surgeries.
- Explanation of how high-frequency currents are employed to coagulate or cut tissue.

• Applications in laparoscopy, ENT surgeries, and urology were presented with real-world case examples.

* Cryogenic Applications in Medicine

- Overview of cryogenic technology and its role in medicine.
- Detailed discussion on:
 - Cryosurgery for tumor destruction
 - o Cryopreservation of cells, tissues, and reproductive cells
 - Use of liquid nitrogen and safety protocols

3. Key Takeaways

- Students gained exposure to cutting-edge tools and techniques used in modern clinical practice.
- The session helped bridge the gap between theoretical knowledge and real-time medical applications.
- Emphasis was laid on interdisciplinary innovation in biomedical engineering.

4 Feedback & Interaction

- The session was well-received, with active participation from students and faculty.
- Attendees appreciated the speaker's in-depth knowledge and illustrative examples.
- A Q&A session at the end allowed participants to clarify doubts and explore career opportunities in biomedical research.

5. Conclusion

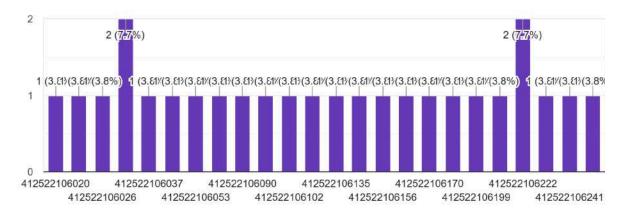
The expert lecture significantly contributed to enhancing awareness about the technological advancements in medical instrumentation. It served as a valuable learning experience for budding engineers and researchers in the biomedical field.

6. Acknowledgement

We extend our heartfelt thanks to Dr. A. Janani for their valuable time and enlightening session. Gratitude is also due to the organizing team, faculty members, and students for their enthusiastic support.

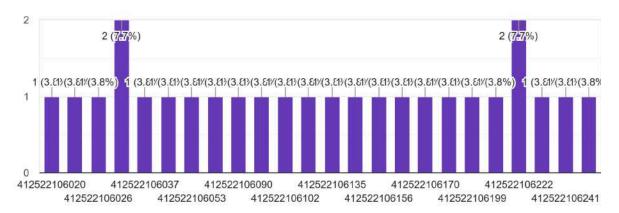
REGISTRATION NUMBER

26 responses



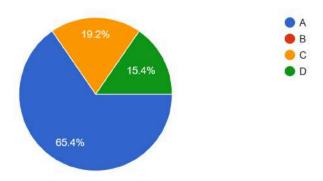
REGISTRATION NUMBER

26 responses



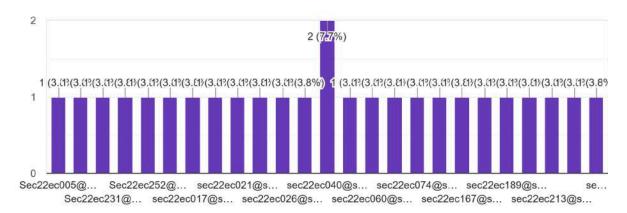
ECE DEPARTMENT SECTION

26 responses

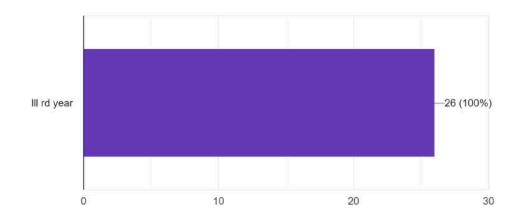


COLLEGE MAIL ID

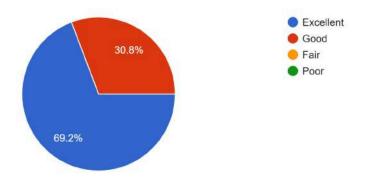
26 responses



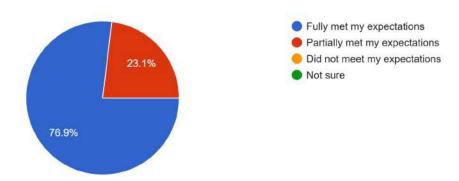
YEAR 26 responses



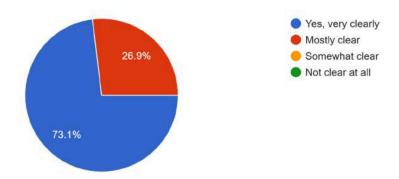
How would you rate the overall session on recent trends in medical instrumentation? ²⁶ responses



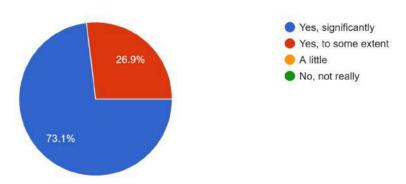
Did the session meet your expectations in terms of content and delivery? ²⁶ responses



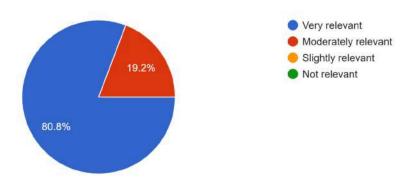
Were the topics explained clearly by the experts? ^{26 responses}



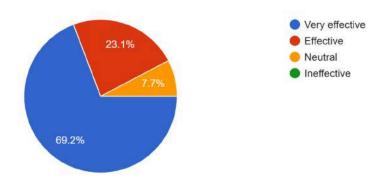
Did you gain a better understanding of the major concepts in the field of medical instrumentation? ²⁶ responses



How relevant were the topics discussed to current advancements in the medical field? ²⁶ responses



Was the virtual mode of the event effective in delivering the session content? ²⁶ responses



Do you feel more confident in your knowledge of recent trends in medical instrumentation after attending this session?

26 responses

