

Add on Lecture on "Wireless Intelligence for Healthcare: From Flexible Antennas to Smart Biomedical Systems"

The Department of Electronics and Communication Engineering organized an Add-on Lecture on "Wireless Intelligence for Healthcare: From Flexible Antennas to Smart Biomedical Systems" on 28 August 2026 at 10:30 a.m. in the Dr. M. V. Jayaraman Auditorium. The session was delivered by Dr. Swetha Amit, Research Scientist and Founder of Smart Beam Resonates, who shared her expertise in the rapidly evolving field of wireless technologies for healthcare applications. The lecture was attended by 7th-semester students from the ECE and ACT Departments, and around 220 students attended the session.

Figure 1: Dr. Shima Ramesh Maniyath, HOD of ECE, felicitating guest speaker Dr. Swetha Amit, an accomplished Research Scientist and Founder of Smart Beam Resonates at the event.

Objectives of the Event

The primary objectives of the event were:

- To introduce students to emerging wireless technologies used in healthcare and biomedical systems.
- To provide knowledge about flexible antennas and their applications in wearable and implantable medical devices.
- To familiarize students with smart biomedical systems and wireless monitoring solutions.

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- To bridge the gap between academic learning and real-world healthcare technology innovations.
- To motivate students to explore research and career opportunities in biomedical electronics and wireless communication domains.
- To encourage interdisciplinary thinking and innovation in healthcare-focused engineering solutions.



Figure 2: Students attentively listening to the Add-on Lecture on “Wireless Intelligence for Healthcare: From Flexible Antennas to Smart Biomedical Systems.”

Event Overview

The program commenced with a warm welcome to the resource person, faculty members, and students. As a mark of respect and appreciation, the Head of the Department of ECE Dr.Shima Ramesh presented a bouquet to Dr. Swetha Amit and welcomed her to the institution. The lecture provided valuable insights into flexible antenna technologies, wireless sensing systems, wearable healthcare devices, and smart biomedical applications that are transforming modern healthcare.

Throughout the session, students gained exposure to interdisciplinary applications combining electronics, communication systems, biomedical engineering, and intelligent wireless technologies. The interactive discussion enabled participants to understand current research trends and industry opportunities in healthcare technology.

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Figure 3: "Dr. Swetha Amit delivering an insightful presentation on advanced wire-less technologies and smart biomedical systems for healthcare applications."

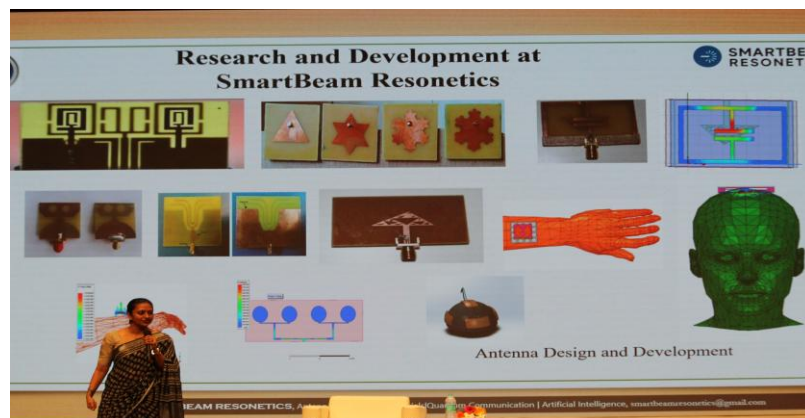


Figure 4: "Dr. Swetha Amit engaging with students during an interactive session, explaining emerging innovations in wireless healthcare technologies and addressing their queries."

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Outcomes and Impact

The add-on lecture provided participants with a comprehensive understanding of wireless intelligence and its transformative role in modern healthcare systems. Students gained valuable knowledge about the design, development, and applications of flexible antennas used in wearable health-monitoring devices and smart biomedical systems. The session enhanced their awareness of emerging healthcare technologies, including remote patient monitoring, wireless sensing, and intelligent medical devices. Participants were also introduced to current research challenges and recent advancements in biomedical communication systems, enabling them to appreciate the interdisciplinary nature of healthcare innovation. The expert insights shared by the resource person inspired students to explore research opportunities and develop innovative projects in the fields of



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healthcare electronics and wireless communication. Furthermore, both students and faculty members benefited from the practical, industry-oriented perspectives presented during the lecture, which highlighted the growing significance of integrating advanced communication technologies with healthcare solutions to improve patient care and healthcare delivery.

Conclusions

The Add-on Lecture on “Wireless Intelligence for Healthcare: From Flexible Antennas to Smart Biomedical Systems” provided students with valuable insights into the transformative role of wireless technologies in modern healthcare. Dr. Swetha Amit expertly highlighted the latest advancements in flexible antennas, wearable medical devices, and smart biomedical systems, demonstrating how interdisciplinary innovations are improving patient care and healthcare monitoring. The interactive session encouraged active student participation and fostered a deeper understanding of emerging research opportunities in this domain. Overall, the lecture was highly informative and inspiring, motivating students to explore the exciting intersection of electronics, communication technologies, and healthcare for future research and innovation.

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