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Guest Lecture on "RF Energy Harvesting and Wireless Power Transfer"

The department of **Electronics and Communication (Advanced Communication Technology)** organised a **Guest Lecture** titled **RF Energy Harvesting and Wireless Power Transfer** on **13-11-2025** at **9:15 AM**, in **Seminar Hall -1**.

Objectives of the Event

The primary objectives of the event were:

- Introduce the concept of RF Energy Harvesting
- Discuss Wireless Power Transfer (WPT) technologies
- Highlight practical applications and emerging trends
- Explain design challenges and efficiency considerations

Event Overview

The session commenced at 9:15 AM with a welcome address by Prof. Farha Kowser, followed by an engaging session by **Dr. K J Vinoy, Professor at the Electrical Communication Engineering Department, Indian Institute of Science, Bangalore**. Dr Vinoy delivered an insightful lecture on RF energy harvesting and wireless power transfer, explaining the principles, applications, and recent advancements in the domain. The lecture was attended by faculty members and students, who actively engaged in discussions during the session.

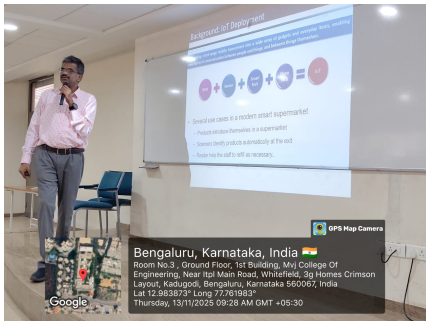

Figure 1: Lecture delivered by Dr K J Vinoy

(a)

(b)

Figure 2: Students attentively participating in the guest lecture

Outcomes and Impact

- Students gained a clear understanding of RF energy harvesting principles and wireless power transfer technologies.
- Inspired students to explore projects and higher studies in RF and wireless technologies.
- Provided practical insights complementing theoretical knowledge in communication engineering.
- Highlighted applications in IoT, smart devices, and sustainable energy solutions, aligning with current industry trends.

Conclusions

The guest lecture on "RF Energy Harvesting and Wireless Power Transfer" by Dr K. J. Vinoy provided an enriching experience for students and faculty alike. The session offered deep insights into the principles, design challenges, and practical applications of RF energy harvesting and wireless power technologies. The lecture not only enhanced technical knowledge but also inspired students to explore innovative solutions for sustainable energy and IoT applications. Overall, the event successfully achieved its objectives and contributed significantly to academic and professional growth.

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