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# Workshop on 5G Communication by CAPGEMINI

**9th Feb., 2024**

A one-day workshop on 5G communication was organized by Department of Electronics and Communication in association with Capgemini to provide faculty members with an in-depth understanding of emerging trends, technologies, and applications in the field of 5G. The event aimed to bridge the gap between academia and industry, fostering innovation and research in next-generation communication systems.

Objectives of the Workshop

1. To familiarize participants with the fundamentals of 5G communication.
2. To discuss the latest developments and challenges in 5G technology.
3. To explore opportunities for collaboration between academia and industry in the field of 5G.
4. To encourage the integration of 5G concepts into academic curricula.

Workshop Highlights

The workshop featured a combination of technical sessions, hands-on activities, and interactive discussions. Key highlights included:

- Inaugural Session:

  The event began with a welcome address by Dr. Satyendra Sharma, HOD ECE, highlighting the importance of 5G technology and its potential impact on various industries. Representatives from Capgemini, Mr. Praveen Kumar, (Deputy Director 5G) Mr. Sundar J (Engineer) shared their vision for the future of connectivity.

- Technical Sessions:

  Experts from Capgemini delivered presentations on:

  - Fundamentals of 5G architecture.
  - Key enabling technologies like Massive MIMO, mmWave communication, and network slicing.
  - Applications of 5G in areas such as IoT, smart cities, and autonomous vehicles.
  - Challenges and opportunities in implementing 5G networks.

- Hands-On Activities:

Participants engaged in practical demonstrations and simulations, gaining insights into the deployment and troubleshooting of 5G networks.

Outcomes of the Workshop

1. Enhanced understanding of 5G technologies among faculty members.

2. Identification of research areas for academic projects and collaborations.

3. Increased awareness of industry expectations and skill requirements in 5G.

4. Strengthened ties between Capgemini and participating academic institutions.

Conclusion

The workshop was a significant step in equipping faculty members with the knowledge and skills required to teach and research 5G communication. The collaboration between Capgemini and academia is expected to drive innovation and prepare the next generation of engineers for the evolving technological landscape.