

5G Technology

Date: Feb. 03rd, 2020

Presenter: Er. Sanjeev Kumar (Sr. Manager, Ericsson Patna)

Introduction:

A technical talk on the topic of "5G Technology" was organized on February 3, 2020, by Er. Satyam Kumar, Senior Manager at Ericsson Patna. The event was held to provide students with insights into cutting-edge advancements in wireless communication technology and the potential impact of 5G on various industries. The talk was attended by a total of 80+ students, all eager to learn about the exciting developments in the field of telecommunications.

Event Highlights:

The technical talk commenced with an introduction to the basics of wireless communication, emphasizing the evolution from 1G to the current state of 4G. Er. Satyam Kumar then delved into the main subject matter of the event: 5G technology.

Key Points Covered:

1. What is 5G?

The audience was introduced to the fundamental concept of 5G as the fifth generation of wireless technology. It was explained that 5G aims to provide significantly higher data speeds, lower latency, and increased connectivity compared to its predecessors.

2. Applications: The presenter discussed the potential applications of 5G across various sectors such as healthcare, transportation, smart cities, manufacturing, and entertainment. The audience learned how 5G can enable innovations like remote surgery, autonomous vehicles, and real-time augmented reality experiences.

3. Challenges and Opportunities: The talk also addressed the challenges associated with deploying 5G infrastructure, including the need for a dense network of small cells and the complexities of spectrum allocation. However, these challenges are accompanied by numerous opportunities for technological advancements and economic growth.

4. Global Implementation: Er. Satyam Kumar shared insights into the global progress of 5G implementation, highlighting regions and countries at the forefront of adopting the technology. He also discussed India's plans for 5G deployment and the potential benefits it could bring to the nation's economy.

Conclusion:

The technical talk on 5G technology by Er. Satyam Kumar provided an informative and engaging overview of the advancements and applications of the fifth generation of wireless technology. The event was well-received by the 80+ students who attended, leaving them with a greater understanding of the potential impact of 5G on various industries and aspects of daily life.