

## **Report on Expert Lecture on “Next Generation Wireless Communication”**

**Organized by:** Department of Electronics & Electrical Engineering MMIT Anaugi Polytechnic, Kannauj

**Date:** 20/03/2025

**Venue:** Smart Classroom, MMIT Anaugi Polytechnic, Kannauj

The Department of Electronics & Communication Engineering at Anaugi Polytechnic, Kannauj organized an expert lecture on the topic "**Next Generation Wireless Communication**" on 20/03/2025. The session was delivered by **Mr. Rajeev Kumar**, a distinguished academician and expert in the field of wireless communication.

The event commenced with a warm welcome and introduction of the guest speaker by faculty members. Mr. Rajeev Kumar captivated the audience with his insightful presentation, discussing the evolution of wireless technologies, the architecture of 5G and upcoming 6G systems, and their applications in various domains such as IoT, autonomous systems, and smart infrastructure.

During the session, Mr. Kumar emphasized the challenges and opportunities in next-generation networks, covering key aspects like spectral efficiency, latency, and energy efficiency. The students were highly engaged and participated actively during the interactive Q&A session that followed.

The lecture proved to be highly beneficial for diploma-level students in understanding cutting-edge advancements and motivating them to explore research and career opportunities in this domain.

At the end of the session, a token of appreciation and a certificate were presented to Mr. Rajeev Kumar by Mr. Abhishek Verma, acknowledging his valuable contribution.

**Report on Expert Lecture**  
**Topic: “Application of VLSI and Communication System”**

Resource Person: **Mr. Rajeev Kumar**

Date: 11/03/2025

**Venue:** Seminar Hall, Manyawar Kanshiram Government Polytechnic, Kannauj

The Department of Electronics Engineering at **Manyawar Kanshiram Government Polytechnic, Kannauj** organized an expert lecture on “**Application of VLSI and Communication System**” on 11/03/2025. The session was conducted by **Mr. Rajeev Kumar**, an experienced professional with vast expertise in VLSI design and modern communication technologies.

The program began with a warm welcome of the guest speaker, followed by a brief introduction of his achievements and contributions in the field. Mr. Rajeev Kumar delivered an informative and engaging session that covered fundamental and advanced topics in **Very Large Scale Integration (VLSI)** and its role in **modern communication systems**.

He explained how VLSI technology plays a critical role in the development of high-speed and compact communication devices. The lecture highlighted real-world applications, such as in **mobile communication, satellite systems, and IoT-based smart devices**. Students were introduced to concepts like **ASICs, FPGAs, SoCs**, and how these components are designed and optimized for communication systems.

The session also included a brief overview of industry tools and platforms used in VLSI design, motivating students to pursue practical exposure and skill development. Mr. Rajeev Kumar emphasized the increasing demand for VLSI professionals and the exciting career opportunities available in this field.

The session concluded with an interactive Q&A segment, where students clarified their doubts and shared their curiosity about ongoing innovations in electronics and communication.

**Outcome:**

The lecture was a great success, providing valuable insight to the students about the interdisciplinary importance of VLSI in modern communication. It enhanced their technical knowledge and encouraged them to explore advanced areas of electronics engineering.

**Vote of Thanks:**

The event concluded with a heartfelt vote of thanks delivered by Arpit Srivastava, expressing gratitude to Mr. Rajeev Kumar for his enlightening talk and valuable time.

