

FUTURE SCOPE IN SCIENCE AND TECHNOLOGY

In pursuit of its mission to deliver quality education and promote futuristic learning, the **School of Natural and Applied Science**, Vikrant University, Gwalior, in association with the **Institution's Innovation Council (IIC)**, organized an **expert lecture** on the topic **"Future Scope in Science and Technology"** on **9th August 2024** through **online mode**. The program witnessed active participation from **65 students** across various academic disciplines.

Objective of the Event:

To enlighten students about the emerging trends and opportunities in science and technology, enabling them to align their academic and career paths with future global needs.

Key Areas Explored:

- **Digital Health and Telemedicine:** Explored the role of AI and wearable technologies in transforming remote healthcare delivery and patient engagement.
- **Precision and Personalized Medicine:** Discussed the application of genomic and proteomic data in customizing treatment plans for improved outcomes.
- **Regenerative Medicine and Biotechnology:** Highlighted innovations such as stem cell therapies and 3D bioprinting for tissue and organ regeneration.
- **AI and Machine Learning in Healthcare:** Covered the use of algorithms and analytics for diagnosis, treatment planning, and process automation in clinical settings.
- **Nanotechnology in Medicine:** Focused on the use of nanodevices and nanosensors for targeted drug delivery and early disease detection.
- **Robotics and Automation in Surgery:** Presented advancements in robotic-assisted surgeries that enhance precision and patient recovery.

This expert talk served as a pivotal learning opportunity, providing students with critical insights into future scientific directions and skillsets required to navigate them successfully. It further strengthened the university's vision to cultivate **innovation-driven, research-oriented, and industry-ready**

