



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (Deemed to be University)



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NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
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A Report on Technical Career Awareness Seminar titled “From Superposition to Entangled Futures: The Quantum Career Roadmap” Organized by Department of Electronics & Communication Engineering on 24.09.2026



Report Submitted by Dr. G. Reddy Hemantha, Assistant Professor and IEI Coordinator, Department of ECE, MITS, Madanapalle.

No. of Participants: 70

Resource Person: Dr. Sunku Sreedhar, Assistant Professor, Department of Physics, MITS, Madanapalle.

Mode of Conduct: Offline

Report Received on 08.10.2026

The IEI Students' Chapter of the Department of Electronics & Communication Engineering organized a Technical Career Awareness Seminar titled “From Superposition to Entangled Futures: The Quantum Career Roadmap” on 24 September 2026 from 3:00 PM to 5:00 PM.

Objectives of the seminar:

1. To create awareness among students about the emerging field of quantum technology and its applications.
2. To introduce students to the basic concepts associated with quantum computing, including superposition and entanglement.
3. To provide students with an understanding of the career opportunities and future scope in quantum technologies.
4. To motivate students to explore interdisciplinary areas connecting electronics, physics, computing and emerging technologies.
5. To guide students towards developing the knowledge and skills required for pursuing higher studies, research and careers in quantum technology.

The programme commenced with a warm welcome address delivered by Dr. G. Reddy Hemantha, Assistant Professor, Department of Electronics & Communication Engineering and IEI Coordinator, MITS, Madanapalle. She welcomed the resource person, faculty members and students to the Technical Career Awareness Seminar titled “From Superposition to Entangled Futures: The Quantum Career Roadmap.” She briefly highlighted the importance of understanding emerging technologies and encouraged the students to make use of the session to gain awareness about the exciting opportunities in the field of quantum technology.



The resource person explained the fundamental concepts of quantum technology in an accessible manner and discussed the significance of concepts such as superposition and quantum entanglement. The session further focused on the transition from fundamental quantum principles to emerging technological applications.

Dr. Sunku Sreedhar highlighted the growing importance of quantum technologies and discussed possible career pathways for engineering students. The interaction helped students understand how their existing technical background can be extended towards emerging areas such as quantum computing, quantum communication and related research domains.



The resource person also highlighted the career opportunities in quantum technology and related emerging domains for students from different engineering branches. He specifically explained how students from EEE, ECE, CSE and allied branches can explore opportunities in the evolving quantum technology ecosystem. He emphasized that quantum technology is an interdisciplinary field and that students from different branches can contribute through their respective areas of expertise, encouraging them to acquire relevant technical skills and explore higher studies, research and career opportunities in this emerging domain.

The seminar also provided an opportunity for students to interact with the resource person and clarify their doubts regarding the subject, career opportunities and the skills required to enter the emerging quantum technology ecosystem.

Outcomes:

The seminar resulted in the following outcomes:

1. Students gained awareness of quantum technology and its growing importance in the future technological landscape.
2. Students developed a basic understanding of important quantum concepts such as superposition and entanglement.
3. Students became aware of the career opportunities and future scope associated with quantum technologies.
4. The session motivated students to explore interdisciplinary learning involving Electronics, Physics, Computer Science and emerging technologies.
5. The seminar encouraged students to consider higher studies, research and career opportunities in emerging quantum technology domains.

The programme concluded with a Vote of Thanks delivered by Dr. G. Reddy Hemantha, expressed her sincere gratitude to the resource person, Dr. Sunku Sreedhar, Assistant Professor, Department of Physics, MITS, Madanapalle, for delivering an informative and insightful session on quantum technology and its career opportunities. She also expressed her gratitude to the Management, Vice Chancellor Sir, Principal Sir, Vice Principal Sir, and HoD Sir for their support and guidance in organizing the event. She further thanked the IEI Students' Chapter, faculty members, and students for their active participation and support in making the seminar a successful one.