**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)
Affiliated to JNTUA, Anantapuramu& Approved by AICTE, New Delhi
Recognised Research Center, Accredited by NBA for CE, CSE, ECE, EEE, ME, MBA &
MCA, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956

**A Report on**

**Guest Lecture titled**

**"Post Quantum Cryptography "**

Organized by

**Department of Computer Science & Engineering**

in association with

**Computer Society of India (CSI)**

**On**

**20.11.2023**



**Submitted by:** Mr. M.S.P. Durga Rao, Assistant Professor, Department of Computer Science & Engineering.

**Resource Person:** Dr. Dharminder Chaudhary, Assistant Professor (S.G), Department of Mathematics & Computer Science, Amrita Vishwa Vidyapeetham, Chennai**.**

**Mode of Conduct: Online**

**Participants:** 130 Students from II CSE

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)
Affiliated to JNTUA, Anantapuramu& Approved by AICTE, New Delhi
Recognised Research Center, Accredited by NBA for CE, CSE, ECE, EEE, ME, MBA &
MCA, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956

The Department of Computer Science & Engineering (CSE), in collaboration with the Computer Society of India (CSI), organized a guest lecture titled 'Post Quantum Cryptography' at the MITS campus on November 20, 2023. The objective was to educate students about the importance of cryptography and its opportunities. The event commenced with an inauguration in Seminar Hall B at 2:00 PM, with the participation of 130 attendees.

**Topics for the session:**

- Cryptography - Overview
- Various types of Cryptosystems
- Lattice based Key Exchange
- Importance of Authentication
- Future Scope & Research Plan in Cryptography.

**Inauguration:**

The inaugural session started at 2:00 PM in Online Microsoft Teams. The Convenor Dr. R. Kalpana, Professor & HoD of Computer Science & Engineering had given a warm welcome and invited our Chief Guest. Event Coordinator Mr. M.S.P. Durga Rao, Assistant Professor, gave the Welcome Address and briefed about this event, and handed over the session to our Chief Guest, Dr. Dharminder Chaudhary, Assistant Professor (S.G), Department of Mathematics & Computer Science, Amrita School of Computing, Amrita Vishwa Vidyapeetham, Chennai.

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)
Affiliated to JNTUA, Anantapuramu& Approved by AICTE, New Delhi
Recognised Research Center, Accredited by NBA for CE, CSE, ECE, EEE, ME, MBA &
MCA, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956

Dr. R. Kalpana, Professor & HOD was requested to address the gathering. She addressed the students, emphasizing the significance of current technologies and urging them to acquire a thorough understanding for employment opportunities and success. Dr. Kalpana expressed gratitude to the organizers for arranging the Guest Lecture.

**Chief Guest Lecture:**

Dr. Dharminder Chaudhary, Assistant Professor (S.G), Amrita Vishwa Vidyapeetham, Chennai, started the session by extending his hearty thanks to Our HoD, organizers, participants and Management of MITS Madanapalle, for giving him the opportunity to share his knowledge and experience in – Post Quantum Cryptography.

The resource person provided a concise introduction to cryptography, various types of cryptography techniques and ways of key exchange between sender and receiver. He also thrown limelight on lattice based key exchange and role of authentication in that process. Additionally, he briefed about the future scope of cryptography technology and real time applications of cryptography.



Angallu, Andhra Pradesh, India
JFHH+V89, Angallu, Andhra Pradesh 517325, India
Lat 13.629398°
Long 78.478841°
20/11/23 02:23 PM GMT +05:30

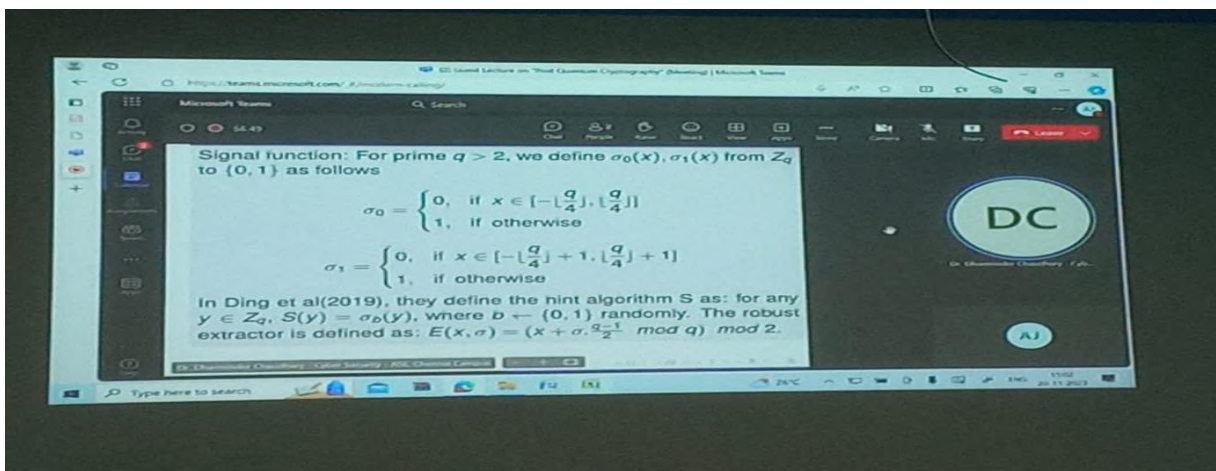**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)
Affiliated to JNTUA, Anantapuramu& Approved by AICTE, New Delhi
Recognised Research Center, Accredited by NBA for CE, CSE, ECE, EEE, ME, MBA &
MCA, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956

**Outcome:**

During this webinar, students delved into the realm of cryptography and acquired fundamental knowledge of diverse security principles. The session not only elucidated the theoretical foundations but also ensured a comprehensive understanding of algorithms employed in the realm of security. Beyond theoretical concepts, students were equipped with practical insights into utilizing online tools for project work, enhancing their capacity to apply knowledge in real-world scenarios.

Moreover, the webinar provided a valuable platform, suggesting to students the prospect of engaging in security-based projects. Clear guidelines were offered, steering students towards the successful execution of their projects, thereby fostering a practical and applied understanding of security principles. The webinar, therefore, served as a catalyst for students to not only grasp theoretical concepts but also actively engage in meaningful projects, promoting a holistic learning experience.



**Vote of Thanks:**

Mr. M.S.P. Durga Rao, Assistant Professor, Department of CSE, proposed a vote of thanks. He thanked the event's Chief Guest, Dr. Dharminder Chaudhary, Assistant Professor (S.G), Amrita Vishwa Vidyapeetham, Chennai, for delivering the talk. He expressed gratitude to the Management, Principal, HoD, the faculty members and the student participants for their support in conducting the guest lecture.

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)
Affiliated to JNTUA, Anantapuramu& Approved by AICTE, New Delhi
Recognised Research Center, Accredited by NBA for CE, CSE, ECE, EEE, ME, MBA &
MCA, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956