



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' Grade University ♦ Approved by AICTE ♦ ISO 9001-2015 Certified

Campus: Green Fields, Vaddeswaram - 522 502, Guntur District, Andhra Pradesh, INDIA.

Phone No. 0863 - 2399999; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

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DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS KLEF – VADEESWARAM

Ref: KLEF/CSA-BCA/IQAC-ACAD/2026-27/Student-Orientation/AQ. 9

Guest Lecture Report

Department of Computer Applications (BCA)

Organized under the Internal Quality Assurance Cell (IQAC)

1. Event Details

Particulars	Details
Title of the Guest Lecture	Quantum-Resistant Authentication for IoT Devices
Date	09-09-2026
Time	02:00 PM to 03:30 PM
Venue / Mode	S509 B
Organized by	Department of BCA
Resource Person	Dr.Krishnakumar, SIMATS, Chennai
Target Audience	Faculty and Students of III Year, BCA Programme
Number of Participants	Total: 40 Students

2. Objectives of the Guest Lecture

- To expose students to current industry and research trends in post-quantum cryptography and IoT security architectures.
- To bridge the gap between classroom cryptographic theory and real-world embedded security practice.
- To encourage students to pursue higher studies, research, or specialized skill development in IoT protocols and cybersecurity.
- To provide an opportunity for interactive discussion with an academic expert specializing in computer science and system security.

3. Profile of the Resource Person

Dr.Krishnakumar.K is an Assistant Professor in the Department of Computer Science and Engineering at SIMATS chennai. He holds a Master of Technology (M.Tech) degree in Computer Science and Engineering and possesses 10 years of combined experience across teaching and industry. His academic and research focus spans Linux systems programming, IoT security protocols, Big Data analytics, and neural network architectures. He has authored several research publications in indexed journals and presented at international conferences in computational intelligence and smart computing.

4. Brief Overview of the Lecture

The programme began with a welcome address by the Department Event Coordinator, followed by a formal introduction of the resource person. **Dr.Krishnakumar.K** then delivered a technical lecture titled "**Quantum-Resistant Authentication for IoT Devices**".

The key points covered in the session were:

1. **Quantum Threats to Modern Cryptography:** Overview of how upcoming quantum computing algorithms (e.g., Shor's Algorithm) challenge existing public-key cryptography and authentication standards like RSA and ECC.
2. **Post-Quantum Cryptographic Schemes:** Analysis of lattice-based and hash-based signature primitives suited for low-power, resource-constrained hardware environments.
3. **IoT Device Authentication Protocols:** Explanation of lightweight, quantum-resistant mutual authentication mechanisms designed to secure sensor nodes and gateway communications.
4. **Case Demonstration:** Demonstration of lightweight signature verification overhead on resource-limited embedded hardware prototypes.

The session ended with an interactive question and answer round, during which students actively asked about practical deployment constraints, real-time latency trade-offs, and career pathways in cybersecurity and quantum-safe computing. The vote of thanks was proposed by the Student Representative.

5. Outcomes of the Guest Lecture

- Participants gained awareness of post-quantum cryptographic challenges facing modern IoT ecosystems.
- Students understood the practical application of lightweight authentication protocols on embedded devices.
- Participants became aware of career pathways, certification routes, and academic research directions in advanced cybersecurity and IoT network protection.

- Students obtained foundational clarity on how industry standards are adapting to post-quantum security requirements.

6. Feedback Summary

Feedback was collected from all 40 student participants through paper feedback forms. Of these, **98%** rated the session as *Excellent* or *Very Good*. Suggestions received included requests for follow-up hands-on workshop sessions on hardware security modeling and IoT encryption toolkits.



Prepared by 


Dr. K. BHAGAVAN
 HOD-Computer Science and Applications
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Department of BCA

Student attendance List

Date 09-09-2026

sl no	University ID	Student Name	Signature
1	2400520002	DARLA DHAWAN	D. Darla
2	2400520003	NARU GANESH REDDY	M. Ganesh Reddy
3	2400520008	NANDURI AJAY KRISHNAM RAJU	N. Ajay
4	2400520009	MOGAL NAZAR VALI	M. Nazari
5	2400520010	KODURU KARTHIKEYA	K. Karthikeya
6	2400520011	TAVVA SHANMUKH	Shanmukh T
7	2400520013	TENNETI JASWANTH	T. Jaswanth
8	2400520014	AKKALA BHARGAV	A. Bhargava
9	2400520016	ADI ANDHRA KATTELA DEEKSHITHA	A. Kattela
10	2400520018	BURRA SRI VENKATA VIJAYLAKSHMI	B. Venkata
11	2400520020	KOTA TONEY NAG	K. Toney
12	2400520022	PADAMATA PREM SRI SAGAR	P. Padamata
13	2400520027	GANGULA SITARA	G. Sitara
14	2400520028	MALLIDI KRISHNA PRATHAP REDDY	M. Krishna
15	2400520029	KATTA BALA VENKATA BHANU SRI	K. Bala
16	2400520031	RUDRARAJU PRAGNYA JABILI	R. Pragnya
17	2400520032	KOLIPARTHI AKASH	K. Akash
18	2400520035	SYED MOHAMMED KHALIQ	Syed Mohammed Khalique
19	2400520038	RACHAKONDA SAI VYSHNAVI	Sai Vyshnavi
20	2400520039	LUCCABA MOIRANGTHEM	Luccaba Moirangthem
21	2400520043	MADDULA KEERTHI PRIYANKA	M. Keerthi
22	2400520044	KOTNI KIRAN	K. Kiran
23	2400520047	AYAMGIRI LOHITH	A. Lohith
24	2400520048	VEERA SRI RAKESH	V. Rakesh
25	2400520049	PRUDHVI HEMAMALINI	P. Hemamalini
26	2400520051	SHAIK IMRAN	S. Imran

27	2400520052	PERURI LAKSHMI SURYA TEJA	P. Surjan Tes
28	2400520053	GOLLAPUDI RAMYA SRI	Sk. Tasleem
29	2400520054	KOTAKONDA CHANDANA	K. Chandana
30	2400520057	DAMERLA KOUSHIK	D. Koushik
31	2400520059	PENUGONDA JANAKI SATYA DEVI	P. Satya devi
32	2400520065	DONDAPATI NAGA HIMAJA	D. Naga Himaja
33	2400520066	MAHADASA VEERA BHADRA HARIPRIYA	M. Bhadrachari
34	2400520068	VELAGALA JYOTHI SRI	V. Jyothi Sri
35	2400520069	PIPPARA SAI DURGA SOWMYA	P. Sairam Sangeeta
36	2400520070	GUDURU ALEKYA	G. Alekya
37	2400520071	MOHAMMED TANVEER HUSSAIN	M. Tanveer Hussain
38	2400520072	BOYALLA LALITHA SRI	B. Lalitha Sri
39	2400520073	AYINABATTINA SARANYA	A. Saranya
40	2400520077	DATLA SUJI	D. Suji



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07-09-2026

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS KLEF - VADEESWARAM

CIRCULAR

Sub: Guest lecturer -IQAC Reg.

* * *

Dear Students

Greeting to all,

This is here by requested all faculty members to attend the guest lecturer on Quantum-Resistant Authentication for IoT Devices on **09-09-2026, 2PM to 3.30PM at S509B** given by Dr.K.Krishnakumar, Asso. Professor, SIMATS , Chennai.

Venue Detail : 509B

*Mail to : All students and Faculty members of CSA through group mail
Hardcopy to: IQAC file*


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