

IT TRENDS

**IT TRENDS**

Volume-VII, Issue-IV

Department News Letter



DEPARTMENT OF INFORMATION  
TECHNOLOGY

**TRENDS**  
NEWS LETTER



**Volume-7, Issue- 4, April - June 2025**

### **VISION:**

To emerge as one of the most preferred departments for the budding engineers, aspiring to be successful IT professionals.

### **MISION:**

1. To impart quality education with a well designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.
2. To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.
3. To strengthen creativity and team spirit of the students by providing a conducive environment, preparing them to face the challenges posed by the IT industry.
4. To develop life-long learning, ethics, moral values and spirit of service so as to contribute to society through technology.

### **PROGRAM EDUCATIONAL OBJECTIVES:**

Graduates of Information Technology programme will be:

**PEO1:** Pursue a successful career in the area of Information Technology or its allied fields.

**PEO2:** Exhibit sound knowledge in the fundamentals of Information Technology and apply practical experience with programming techniques to solve real world problems.

**PEO3:** Demonstrate self-learning, life-long learning and work in teams on multidisciplinary projects.

**PEO4:** Understand the professional code of ethics and demonstrate ethical behaviour, effective communication, team work and leadership skills in their job.

# FACULTY DEVELOPMENT PROGRAM ORGANIZED FOR FACULTY:

## Brochure:

<p><b>Chief Patrons:</b> Sri Lakireddy Jaya Prakash Reddy, USA, Honorary Chairman Sri Lakireddy Prasad Reddy, USA, Chairman</p> <p><b>Patrons</b> Mr. G. Srinivasa Reddy, President Dr. K. Appa Rao, Principal Dr. M. Srinivasa Rao Dean Academics &amp; Professor of CSE</p> <p><b>Convener</b> Dr. B. Srinivasa Rao Professor &amp; HOD</p> <p><b>Co-Conveners</b> Dr. Satuluri Naganjaneyulu Professor Dr. D. Ratna Kishore Professor</p> <p><b>Coordinators</b> Dr. A.V.N. Reddy, Associate Professor Dr. K. Venu Gopal Associate Professor Dr. Phaneendra K Associate Professor</p> <p><b>Organizing committee:</b> Mrs. M. Hema Latha Sr Asst Prof Mr. Rajasekhar K Mr. V.V. Krishna Reddy Mr. Ch. Sambasiva Rao Mr. G. Rajendra Mrs. A. Sarvani Mr. Raviteja K Mr. B. Sarath Chandra Mr. Rajesh Reddy Muley Mr. M. Vijay Kumar</p> <p><b>FDP objectives</b> Generate AI Enables users to quickly generate new content based on a variety of inputs. The main goal of data visualization is to make it easier to identify patterns, trends and outliers in large data sets.</p> <p><b>Topics to be covered</b> • Core Concepts in Generative AI • Advanced Research application and Opportunities in Generative Artificial Intelligence • Role of AI in digital forensic • Advanced Generative AI techniques • Ethical consideration and best practice.</p> <p><b>Schedule:</b> Dates: 24 th _29 june 2024 Timings: 2-4 pm every day</p>	<p><b>Resources Persons</b></p> <p><b>Prof. Ajoy Kumar Khan</b> Professor, Department Of Computer Engineering, Muzum University, Alawal-794004, India</p> <p><b>Dr. Asadi Srinivasulu</b> Professor of IT &amp; Head of Research Data Science Research Lab BlueCrest University, Monrovia, Liberia-1000.</p> <p><b>Dr. Kalidas Yeturu</b> Associate Professor IIT Tirupathi</p> <p><b>Sridhar Achuta</b> Full stack Engineer Consultant at Fidelity Investments California, USA.</p> <p><b>Bapi Saha</b> Cyber Forensic Digital Analyst CHFI PGDDP head Cyber Forensics Division at SFSI, Tripura</p> <p><b>Dr. Arindam Sarkar</b> Head of the Department &amp; Assistant Professor, Department of Computer science and Electronics The University of Burdwan, Vivek Bharati, University of Kalyani</p> <p><b>Dr. Viswanath Pulabagari</b> Professor, IIT Sri City, Sayavedu Mandal, Chittoor-517588</p>	 <p><b>LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING</b> (Autonomous) Accredited by NAAC &amp; NBA (ASE, CE, CSE, IT, ECE, EEE, MECH) ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada L.B.Reddy Nagar, Mylavaram, NTR(Dr), AP,INDIA. 521230. www.lbrce.ac.in</p> <p><b>One Week National Level Faculty Development Program on</b> <b>"Generative AI for Data visualization"</b> 24-29 June 2024</p>  <p><b>GENERATIVE AI</b></p> <p>Organized by <b>Department of Information Technology</b> <a href="https://www.lbrce.ac.in/iti/index.php">https://www.lbrce.ac.in/iti/index.php</a> in Association with</p>
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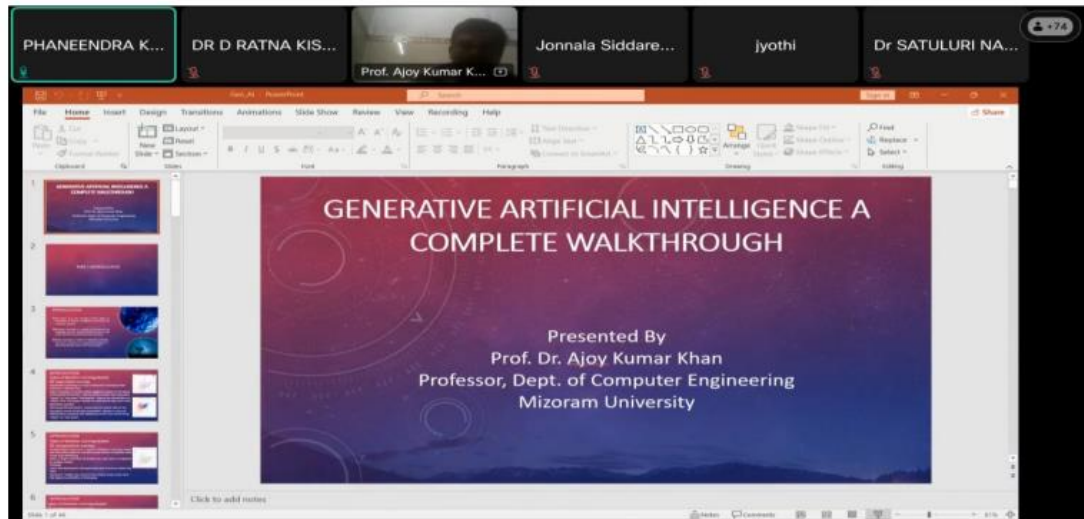
# IT TRENDS

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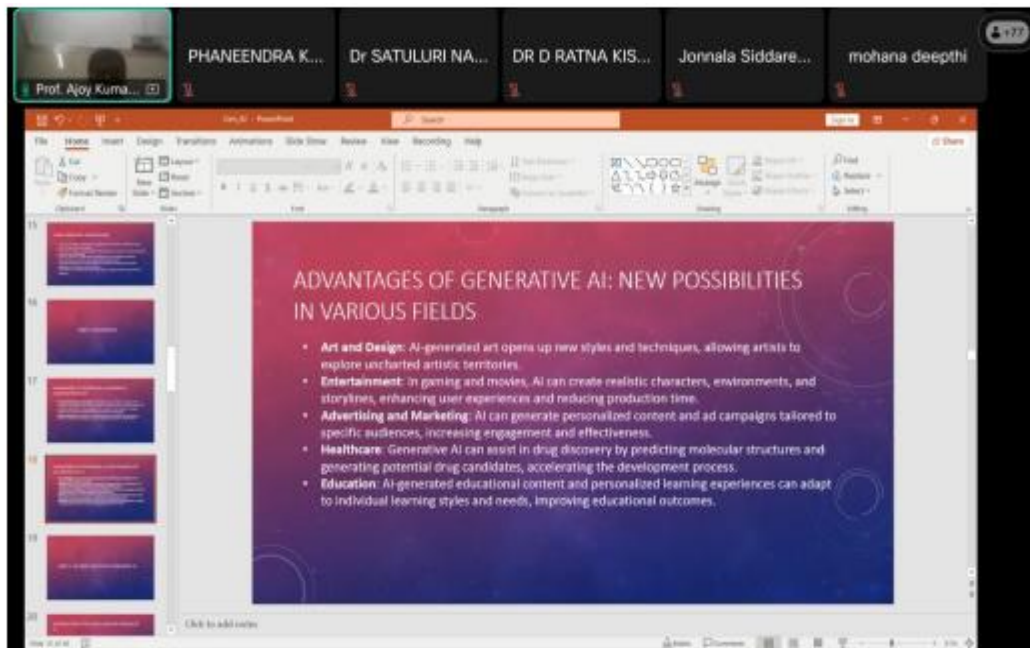
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Department News Letter

Day 1 -Prof AJOY KUMAR KHAN, Professor & Dept of CSE, Mizoram central university



PHANEENDRA KANAK...	Adinarayana	DR D RATNA KISHORE	Dr SATULURI NAGANJ...	B.Ravindra chanti babu
K. Lakshmi Devi	rehana begum	Dr. V. Srilakshmi	MULE RAMAKRISHNA ...	B.Prasanna Kumar- KITS
Eluri Narmada	varnika	T.pujitha	Chunchu..Jayavenkatasai	pallavi
chetana	Rajesh Reddy Muley	Dr.S.Nagendram	Jonnala Siddareddy	K.NAGABABU
SARATH CHANDRA BA...	afroz	bhavani	B.Suneetha	Hemalatha



**DAY 2-** Prof ASADI SRINIVASULU, Professor of IT & Head of research, Blue Crest University College, Monrovia, Liberia.



# IT TRENDS

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Department News Letter

Dr. Asad Sriniva... (5)

PHANEENDRA K... DR D RATNA KIS... Nirmala Dr KLL Srinu Sivala

**50 STEPS TO LEARN AI**  
FROM BASIC TO ADVANCED

**GENERATIVE AI**

**GENERATIVE AI**

652

Dr. B. SRINIVASA RAO,...	PHANEENDRA KANAK,...	DR D RATNA KISHORE	P V V S D Nagendrudu	B.Prasanna Kumar
Pavitra Ramachandrap...	pavani	Dr. V. SriLakshmi	chetana	VIDYA SAGAR VENDRA...
K Kavya Ramya Sree	Nirmala	Dr.A.Suneetha	Rame Swetha	N.MURALIKRISHNA
Amulya Kodumuri	Dr KLL	Srinu Sivala	Dr M S S Sai	vijaya kumar nalluri
harika divya ch	Ashok Nagasai	K.NAGABABU	B Ravindra chanti babu	B RAVI SHANKAR

## List of Participants:

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### Brochure:

#### Chief Patrons:

Sri Lakireddy Jaya Prakash Reddy, USA, Honorary Chairman  
Sri Lakireddy Prasad Reddy, USA, Chairman

#### Patrons:

Mr. G. Srinivasa Reddy, President  
Dr. K. Appa Rao, Principal  
Dr. B. Ramesh Reddy, Vice-Principal  
Dr. M. Srinivasa Rao, Dean of Academics & Professor of CSE

#### Convener:

Dr. D. Ratna Kishore, Professor & HOD

#### Co-Convener:

Dr. B. Srinivasa Rao, Professor  
Dr. Satluri Naganjaneyulu, Professor  
Dr. K. Venu Gopal, Professor

#### Coordinators:

Dr. Phaneendra K, Associate Professor  
Dr. Ch. Malathi, Sr. Assistant Professor

#### Organizing Committee:

Mrs. M. HemaLatha, Sr. Assistant Professor  
Mr. Rajasekhhar K, Sr. Assistant Professor  
Mr. V.V. Krishna Reddy, Sr. Assistant Professor  
Mr. G. Rajendra, Sr. Assistant Professor  
Mr. B. Sarath Chandra, Sr. Assistant Professor  
Mr. Rajesh Reddy Muley, Sr. Assistant Professor  
Mr. M. Vijay Kumar, Sr. Assistant Professor  
Mr. Ch.Poorna Venkata Srinivasa Rao, Sr. Assistant Professor  
Mrs. D. Vijaya Sri, Sr. Assistant Professor

#### FDP Objective:

"To equip participants with a comprehensive understanding of the fundamental principles, essential building blocks, and applications of quantum computing, enabling them to explain, identify, and explore the concepts, techniques, and potential research areas in quantum computing."

#### Topics to be covered:

- Foundation of quantum computing
- Quantum bits, Gates & Circuits
- Quantum speed up Algorithms & Applications
- Performance security & Scalability
- Quantum models, error correction & noise
- Quantum, classical & probabilistic computing
- Quantum cryptography & Quantum key Distribution

#### Schedule:

Dates: 23<sup>rd</sup> June - 27<sup>th</sup> June  
Timings: 2:00 to 4:00 PM (Every Day)

#### Resource Persons



Prof. Ajay Kumar Khan  
Professor  
Department of Computer Engineering, Mizoram University  
(A Central University)  
Aizawl-796004



Dr. Pili Emmanuel Shubbakar  
Associate Professor  
Department of Computer science and Engineering,  
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Dr. Sudarshan Chakravarthy  
Assistant Professor  
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Dr. A. Vamshi  
Assistant Professor  
Department of Information Technology,  
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-575025



Prof. Piliipati Radha Krishna  
Professor  
Department of Computer Science and Engineering,  
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Dr. Venkatesh K.  
Assistant Professor  
Department of Information Technology,  
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LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING  
(AUTONOMOUS)  
Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada  
L.B. Reddy Nagar, Hyderabad, N.T.S. District, Andhra Pradesh-521028

A Five-Day National Level Faculty Development Program  
on  
"Anatomy of Quantum Computing"  
23<sup>rd</sup> June - 27<sup>th</sup> June

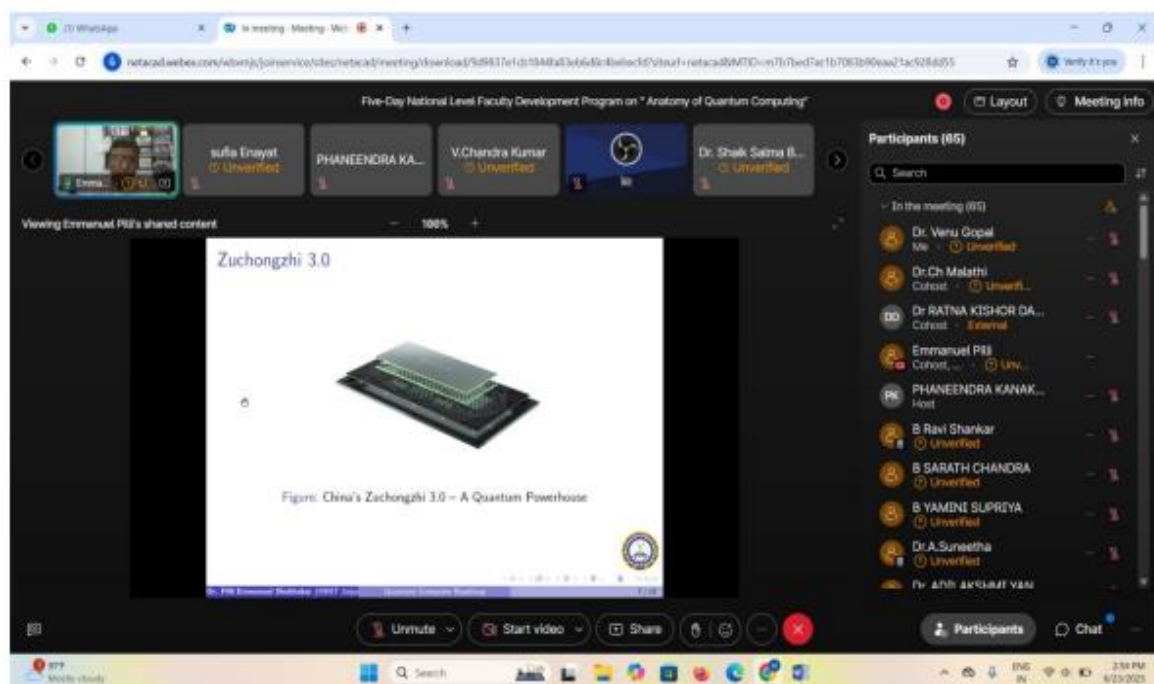
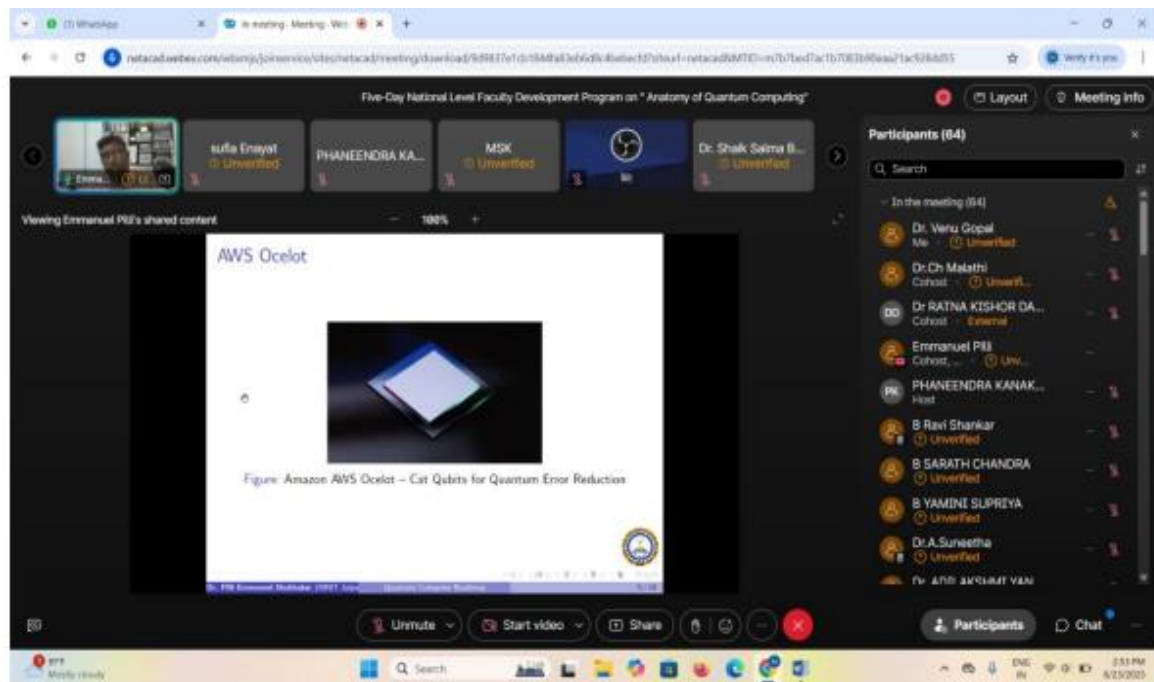
Organized by  
Department of  
Information  
Technology

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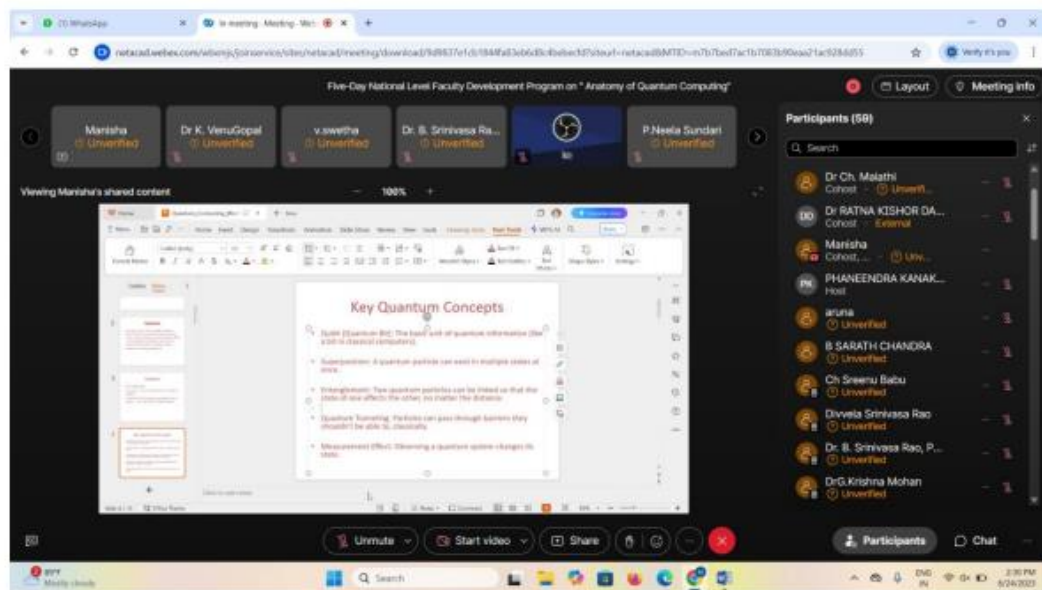
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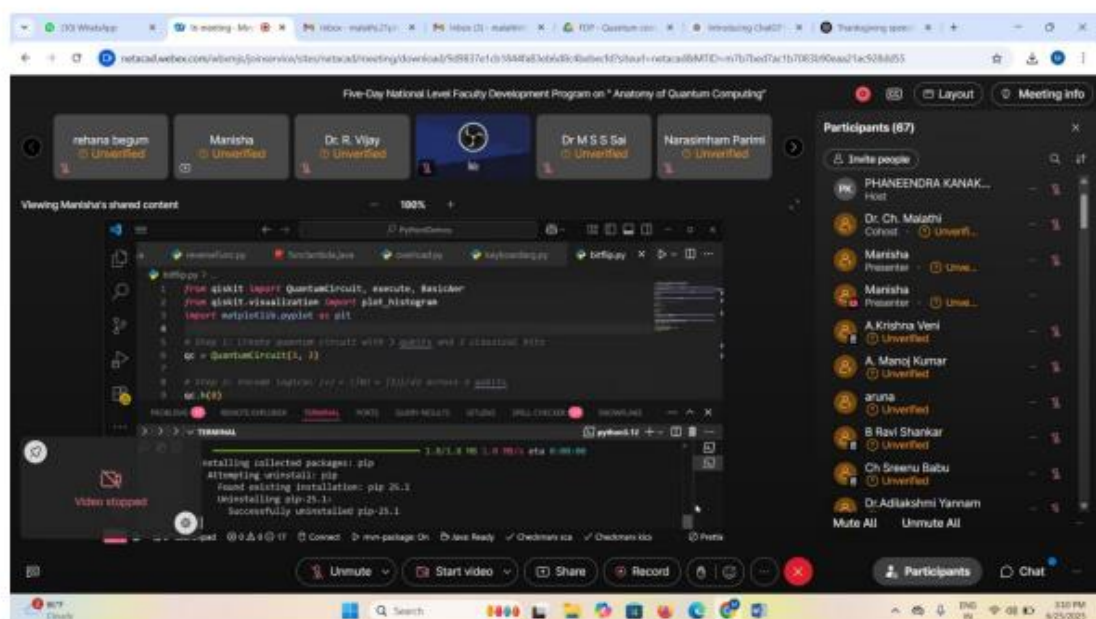
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### DAY 2-. MANISHA SHAH, Senior Java Developer, Production Support Specialist, Corporate Trainer



### DAY 3- MANISHA SHAH, Senior Java Developer, Production Support Specialist, Corporate Trainer.



**DAY 4- MANISHA SHAH, Senior Java Developer, Production Support Specialist, Corporate Trainer.**

The screenshot shows a Zoom meeting window titled "Five-Day National Level Faculty Development Program on 'Anatomy of Quantum Computing'". The main content area displays a slide titled "BB84 Protocol (Most Popular QKD Protocol)". The slide text includes:

- Proposed by Charles Bennett and Gilles Brassard in 1984.
- Steps:
  - Bit Encoding:** Alice sends a bit to Bob using two bases:
    - Bit 0:  $|0\rangle = |0\rangle, |1\rangle = |1\rangle$
    - Bit 1:  $|0\rangle = |0\rangle, |1\rangle = |1\rangle$
  - Transmission:** Alice sends a string of qubits using randomly chosen bases.
  - Measurement:** Bob measures each qubit in a randomly chosen basis.

The right sidebar shows a list of participants (49) including Dr. Ch. Malathi, PHANEENDRA KANAK, Dr. K. Venugopal, Manisha Shah, S YAMINI SUPREYA, Dr. B. Srinivasa Rao, P., Dr.G. Krishna Mohan, Dr.K. Lakshmi Sarada, and Dr. K. Venugopal. The bottom status bar shows the time as 2:37 PM on 9/26/2023.

**DAY 5- DR. AJOY KUMAR KHAN, Professor & Dept of CSE, Mizoram Central University**

The screenshot shows a Zoom meeting window titled "Five-Day National Level Faculty Development Program on 'Anatomy of Quantum Computing'". The main content area displays a slide titled "Overview of Cryptography Evolution". The slide text includes:

- Classical Cryptography:**
  - Examples: Caesar Cipher, Vigenere Cipher
  - Based on substitution and transposition techniques
  - Vulnerable to frequency analysis
- Modern Cryptography:**
  - Based on computational hardness assumptions (e.g., RSA, AES, ECC)
  - Used in digital communication, banking, e-commerce
  - Public-key cryptography introduced in the 1970s (Diffie-Hellman, RSA)
- Quantum Cryptography:**
  - Based on quantum mechanics (e.g., QKD, ECC)
  - Used for cryptographic systems resistant to quantum attacks
  - Emergence of Quantum Cryptography (e.g., QKD and ECC)

The right sidebar shows a list of participants (32) including Dr. Ch. Malathi, Dr. K. Venugopal, PHANEENDRA KANAK, Prof. Dr. Ajoy Kumar K., S Ravi Shankar, Dr.K. Lakshmi Sarada, Dr. K. Venugopal, Dr. M S S Sai, and Dr. R. Vijay. The bottom status bar shows the time as 2:37 PM on 9/27/2023.

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