



ATAL ONLINE FDP REPORT

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices



Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, Accredited by NAAC with A Grade, Approved by AICTE and Affiliated to JNTUH)
Vinaynagar, IS Sadan Crossroads, Saidabad, Hyderabad – 500 059, Telangana.

Date: 16/12/2024 to 21/12/2024

ATAL Online FDP on

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ABOUT INSTITUTION

Bhoj Reddy Engineering College for Women is run by Sangam Laxmibai Vidyapeet, a registered voluntary social action group working since 1952 for empowerment of women and girls through education. The Vidyapeet has more than 60 years of experience in the field of education. The College was established in 1997. It is managed by an executive committee consisting of persons with a long experience in the field of education. Within a short period, it has emerged as one of the premier engineering colleges in the state. The College campus has the unique advantage of being located in the heart of the city and yet free from noise and dust pollution. With considerable open space and greenery spread over 6.5 acres of land, the campus provides an ideal ambience for the engineering education of girls.

Bhoj Reddy Engineering College for Women (BRECW) is affiliated to JNTUH, approved by the All India Council for Technical Education (AICTE), New Delhi and accredited by NAAC with “A” Grade. BRECW renowned for its excellence in engineering education across various streams, including Computer Science and Engineering (CSE), Electronics & Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Information Technology (IT), Artificial Intelligence & Machine Learning (AI&ML),

VISION

BRECW develops confident and articulative young women into dynamic Engineers equipped with skills, knowledge, values and an attitude to contribute to the society.

MISSION

- BRECW is committed to providing a challenging, enriching, safe and supportive technical learning environment through its core values of responsibility, respect and compassion.
- Fosters intellectual, spiritual and personal development of young women so that they develop the tools necessary to lead meaningful lives.
- Offers academic curriculum along with an extensive co-curricular program with the support of dedicated staff who ensure that students identify their strengths and develop their skills such as teamwork, leadership, creativity and entrepreneurship.
- Develops independent, adaptable thinkers with a passion for learning, courage to take risks and initiative to apply what is learned.

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ABOUT THE DEPARTMENT

The expanding role of Information Technology (IT) in business, science, government, social structures and the personal lives is an obvious fact in the current generation. As an academic discipline, IT focuses on meeting the needs of users within an organizational and societal context through the selection, creation, application, integration and administration of computing technologies. Upgradation of laboratories with latest software and equipment is a regular practice in the college. All the above mentioned labs have the facility of latest licensed software. All the labs are under LAN environment with appropriate peripherals.

The Department of Information Technology at BRECW was established in 2000, initially offering with an intake of 60 students. This intake was increased to 120 in 2006, equipped with advanced software laboratories, the department aims to become a center of excellence in Information Technology, fostering advanced developments and producing innovative, skilful, and socially responsible professionals who can make significant contributions to industry and research.

VISION

To emerge as a department of excellence in using cutting-edge technology by empowering women with sound technical knowledge to meet the future needs and challenges of the society.

MISSION

M1: Department is committed to provide an enriching & conducive environment to build tools through the values of compassion and respect.

M2: To provide a holistic learning environment which will help students improve their personal and professional skills.

M3: To create an ambience that will contribute in creating self-reliant, innovative and entrepreneurial professionals, who shall contribute to the growth of technology.

M4: To develop a passion for learning through practical approach.

About the FDP

The Faculty Development Program on " Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices" is aims to equip educators with up-to-date knowledge and practical skills in cyber security and digital forensics. The program will deepen understanding of current cyber threats, enhance awareness, and provide hands-on experience with modern tools and techniques. Topics in this FDP include advanced cyber security threats, forensic analysis, and integrating these concepts into education and research. Participants will gain skills to improve teaching, research, and student awareness of evolving digital security challenges.

Topics to be Covered as a Part of FDP:

- Basic concepts of Cyber Security and Digital Forensics
- Cyber Landscape: Key trends, threats and strategies for protection
- Advanced Cyber Security Tools
- Methods and Approaches in Cyber Security
- Forensic Investigation in Cyber Security
- Computer Forensics Tools and Techniques
- Analyze and Validating the Forensic Data
- Forensic Implications on Block chain Technology
- Best Practices and Standards in Cyber Security and Digital Forensics
- Privacy Issues and Data Protection
- Case Studies and Real World Applications
- Open Source Intelligence
- Innovations in Cyber Security and Digital Forensics

Outcome of the FDP

The outcome of this 6-Day FDP will be the development of a comprehensive skill set in Cyber Security and Digital Forensics for educators. Participants will gain practical knowledge of key trends, advanced tools, and methods for securing digital systems and investigating cybercrimes. They will learn to apply forensic techniques, analyze and validate data, address privacy issues, and understand best practices and standards. Additionally, insights into emerging technologies like block chain and innovations in both fields will be explored. Ultimately, participants will be equipped to integrate these concepts into teaching, research, and real-world applications, preparing students for the evolving digital landscape.

Level of Participants:

The faculty members, PG Scholars and Research Scholars from AICTE approved Engineering Colleges/universities, Polytechnics and Universities are eligible to attend this FDP.

INAUGURAL SESSION:

The Department of Information Technology, Bhoj Reddy Engineering College for Women, Hyderabad, in collaboration with AICTE Training and Learning (ATAL) Academy, organized an online Faculty Development Program (FDP) titled **“Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices”** from **16.12.2024 to 21.12.2024**. The FDP aimed at enhancing the knowledge and skills of faculty members, researchers, and professionals in the rapidly evolving field of Cyber Security and Digital Forensics.

Dr M Sandhya Rani, Coordinator of the FDP, extended a warm welcome to the dignitaries, participants, and resource persons. In her welcome address, she acknowledged the importance of collaboration between institutions and academicians to address the challenges of security in digital world. She expressed gratitude to AICTE Training and Learning (ATAL) Academy for their support in organizing the event and highlighted the unique opportunity for participants to gain insights into the latest developments in Cyber Security and Digital Forensics.

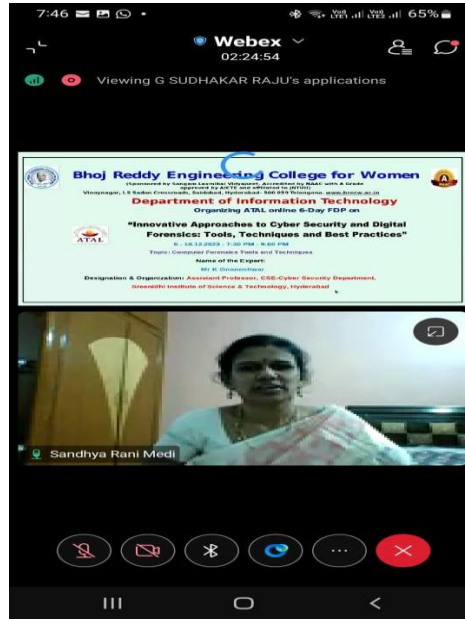
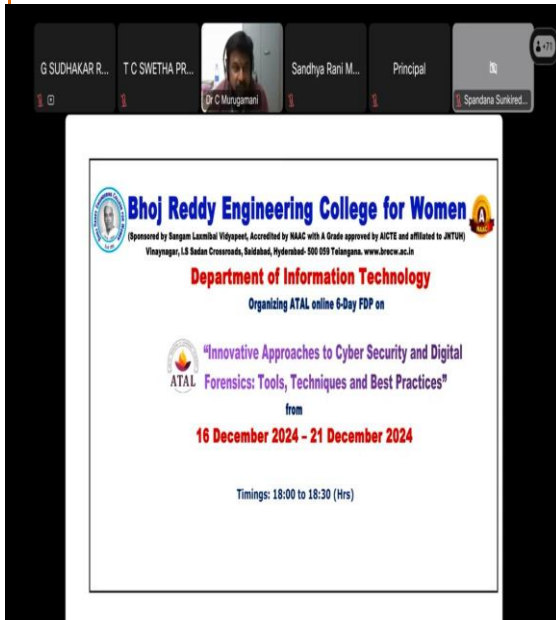
The program was formally inaugurated by by Director HR & Academics Dr. K. Gracy Saila Sree, Professor & Principal Dr. J. Madhavan, Vice Principal Mr. G. Dayakar Reddy, Professor & HoD-IT Dr. C. Murugamani. They enlightened the participants with their insightful knowledge on Cyber Security and Digital Forensics.



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SNAPSHOTS OF INAUGURAL SESSION



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ATAL Online 6Day Faculty Development Program Schedule

FDP Thrust Area: Advanced Computing

FDP Title: Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Start Date : 16-12-2024

End Date : 21-12-2024

Day1 (16-12-2024)	Day2 (17-12-2024)	Day3 (18-12-2024)	Day4 (19-12-2024)	Day5 (20-12-2024)	Day6 (21-12-2024)
6:00PM-6:30PM Inaugural Session	6:00PM-7:30PM Session 3 Topic: Advanced Cyber Security Tools Name of the Expert: Mr Srinivas Lakkapragada Designation & Organization: Solution Architect, NCS, Cyber Security Company Singapore Years of Exp: 26 years	6:00PM-7:30PM Session 5 Topic: Forensic Investigation in Cyber Security Name of the Expert: Dr Sridevi R Designation & Organization: Professor & Director, Directorate of Entrepreneurship, Innovations and Startups, JNTUH, Hyderabad, Telangana, India Years of Exp: 24 years	6:00PM-7:30PM Session 7 Topic: Analyze and Validating the Forensic Data Name of the Expert: Mr Sai Sateesh Designation & Organization: CEO, Indian Servers, Vijayawada, Andhra Pradesh, India Years of Exp: 14 years	6:00PM-7:30PM Session 9 Topic: Forensic Implications on Block chain Technology Name of the Expert: Dr Rukma Rekha N Designation & Organization: Professor, SCIS, University of Hyderabad, Central University Years of Exp: 20 years	2:00PM-3:30PM Session 11 Topic: Case Studies and Real World Applications Name of the Expert: Mr Anirudh Pucha Designation & Organization: Program Manager- Principal Consultant, Infosys, Hyderabad, Telangana, India Years of Exp: 19 years
6:30PM-8:00PM Session 1 Topic: Key note Address on Cyber Security and Digital Forensics Name of the Expert: Mr Sandeep Mudalkar Designation & Organization: CEO, Sytech Labs Pvt. Ltd., Moosarambagh, Hyderabad, Telangana, India Years of Exp: 18 years	7:30PM-9:00PM Session 4 Topic: Methods and Approaches in Cyber Security Name of the Expert: Mr K Sivaram Prasad Designation & Organization: Senior Security Analyst, Oracle, Hyderabad, Telangana India Years of Exp: 18 years	7:30PM-9:00PM Session 6 Topic: Computer Forensics Tools and Techniques Name of the Expert: Mr K Gnaneshwar Designation & Organization: Assistant Professor ,CSE-Cyber Security Department, Sreenidhi Institute of Science & Technology, Hyderabad, Telangana, India Years of Exp: 11 years	7:30PM-9:00PM Session 8 Topic: Best Practices and Standards in Cyber Security and Digital Forensics Name of the Expert: Dr Sri Nagesh Ogirala Designation & Organization: Assoc. Professor, CSE Department, Anurag University, Hyderabad, Telangana, India Years of Exp: 18 years	7:30PM-9:00PM Session 10 Topic: Privacy Issues and Data Protection Name of the Expert: Mr Konadal Thummeti Designation & Organization: Data Protection and Privacy Specialist, 3i-infotech Pvt. Ltd., UAE, Abu Dhabi Years of Exp: 14 years	3:30PM-5:00PM Session 12 Topic: Open Source Intelligence Name of the Expert: Mr Sai Sateesh Designation & Organization: CEO, Indian Servers ,Vijayawada, Andhra Pradesh, India Years of Exp: 14 years

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Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

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139	Dr. P Deepthi	deepthiputnala@gmail.com	8897523600	Bhoj Reddy Engineering College for Women
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144	Mrs. SambuAnitha	anitha.ai@anurag.edu.in	6304357066	Anurag University
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152	Mr. Mohammed Arshad Hussain	mohd.sawaar@gmail.com	9590024100	Bhoj Reddy Engineering College for Women
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155	Dr. T K ShaikShavali	shavali786@gmail.com	9849133973	Lords Institute of Engineering and Technology
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157	Miss Gomathi S	mail2mathi86@gmail.com	9688097260	Dr.N.G.P. Institute of Technology
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160	Mr. AVULA LAKSHMAIAH	avulalaxman944@gmail.com	9963717229	Sri Indu College of Engineering and Technology
161	Mrs. K SwayamPrabha	swayamprabha58@gmail.com	9966496129	SreeDatha Institute of Engineering and Science

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170	Mr. Karthikeyan	technokarthi@gmail.com	9952152011	ARUNAI ENGINEERING COLLEGE
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172	Mr. M Vinod	vinodmoka94@gmail.com	9440403560	Bhoj Reddy Engineering College for Women
173	Dr. S VIMAL	vimalitplacement@gmail.com	9444537092	SRM Institute of Science and Technology

SESSION DETAILS

Day1 (16.12.2024) - Session1 (6.30PM to 8.00 PM)

Speaker Name:	Mr Sandeep Mudalkar, CEO Sytech Labs
Topic Name:	Keynote Address on Cyber Security and Digital Forensics

Resource Person

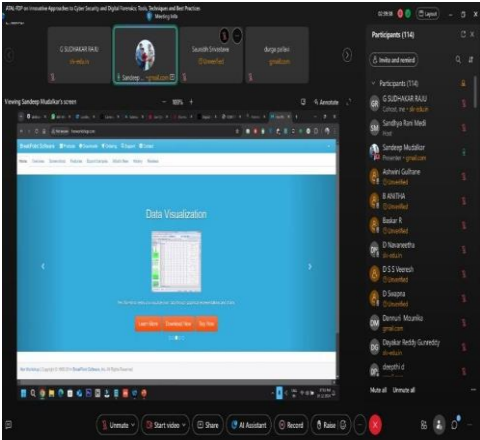


Mr Sandeep Mudalkar
CEO Sytech Labs, Hyderabad

Topics covered in this session are:

- Introduction to Cyber Security
- Digital Forensics in real time
- Concepts of Threats and real world Cyber Crime cases
- Basics of Forensic Investigations

DAY1 SESSION1 PHOTOS



ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day1 (16.12.2024) - Session2 (8PM to 9.30PM)

Speaker Name:	Mr Pavan Kumar Bandaru, Vice President, Wissen Infotech
Topic Name:	Navigating the Cyber Landscape: Key trends, threats and strategies for protection

Resource Person

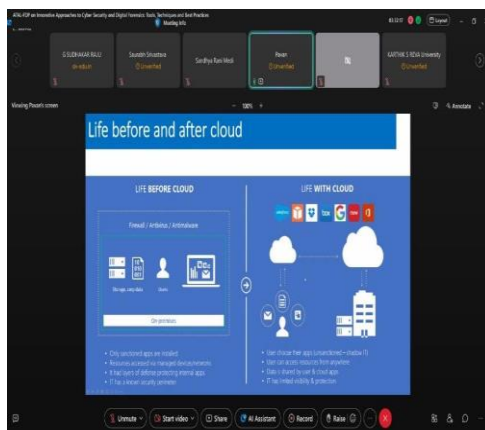
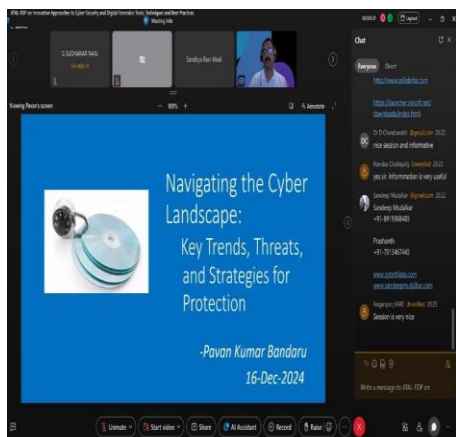


Mr Pavan Kumar Bandaru
Vice President, Wissen Infotech, Hyderabad

Topics covered in this session are:

- Cyber Security Threats
- Key Trends and real world examples
- Cloud Security
- Data Protection Policies

DAY1 SESSION2 PHOTOS



ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day2 (17.12.2024) - Session 3 (6.00PM to 7.30 PM)

Speaker Name:	Mr Srinivas Lakkapragada, Solution Architect, NCS,Singapore
Topic Name:	Advanced Cyber Security Tools

Resource Person

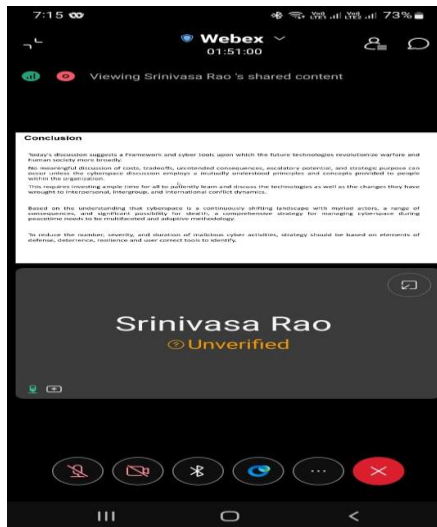


Mr Srinivas Lakkapragada
Solution Architect,NCS,Singapore

Topics covered in this session are:

- Cyber Security Standards
- Intrusion Detection Systems (IDS) & Intrusion Prevention Systems (IPS)
- Endpoint Detection and Response
- Cyber Security Procedures and Laws in India and International.

DAY2 SESSION 3 PHOTOS



Day2 (17.12.2024) - Session4 (7.30PM to 9.00PM)

Speaker Name:	Mr Sivaram Prasad, Senior Security Analyst, Oracle
Topic Name:	Methods and Approaches in Cyber Security

Resource Person

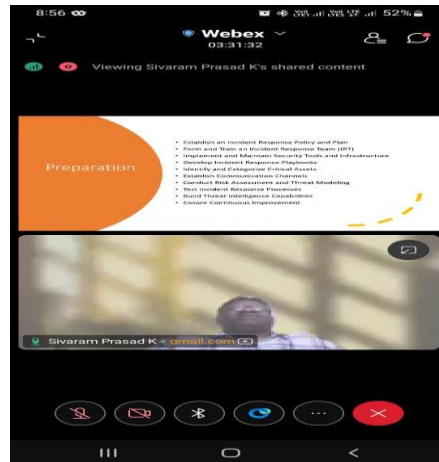


Mr Sivaram Prasad
Senior Security Analyst,
Oracle, Hyderabad

Topics covered in this session are:

- Advanced Threat Detection and Response Advanced Persistent
- Threats (APT) Endpoint Detection and Response
- Security Information and Event Management (SIEM)
- Penetration Testing and Vulnerability Management.

DAY2 SESSION4 PHOTOS



Day3 (18.12.2024) - Session5 (6.00PM to 7.30 PM)

Speaker Name:	Dr Sridevi R, Professor, JNTUH
Topic Name:	Forensic Investigations in Cyber Security

Resource Person



Dr Sridevi R, Professor,
Director, Directorate of Entrepreneurship
Innovations & Startups, JNTUH

Topics covered in this session are:

- Cyber Forensics Principles
- Forensic Investigation Life cycle phases
- Chain of Custody
- Forensic Imaging Types
- Benefits and Applications of Digital Forensics

DAY3 SESSION5 PHOTOS



ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day3 (18.12.2024) – Session6 (7.30PM to 9.00 PM)

Speaker Name:	Mr K Gnaneshwar, Asst. Professor, CSE-Cyber Security, SNIST
Topic Name:	Computer Forensic Tools and Techniques

Resource Person

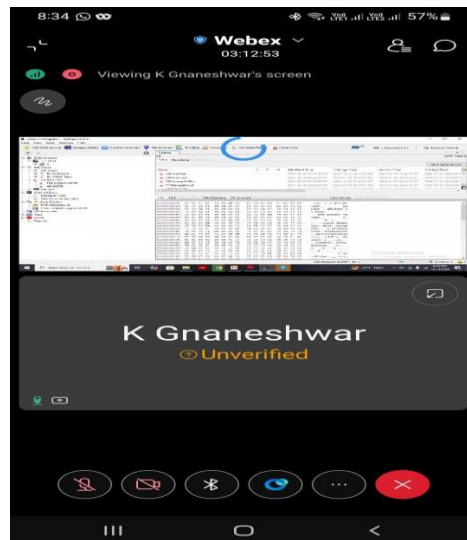
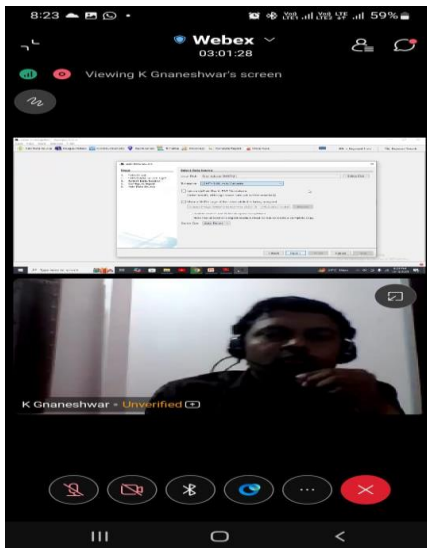


Mr K Gnaneshwar
Asst. Professor, CSE-Cyber
Security, SNIST, Hyderabad

Topics covered in this session are:

- Installation steps of FTK Imager tool
- Live demonstration of Copying the Image
- Installation steps of Autopsy
- Demonstration of Autopsy tool
- Disk Imaging Techniques

DAY3 SESSION6 PHOTOS



ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day4 (19.12.2024) - Session7 (6.00PM to 7.30PM)

Speaker Name:	Mr Sai Sateesh
Topic Name:	Analyze and Validating the Forensic Data

Resource Person



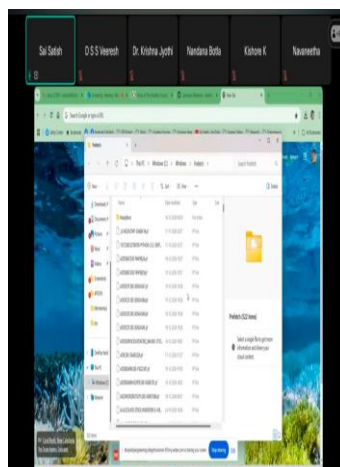
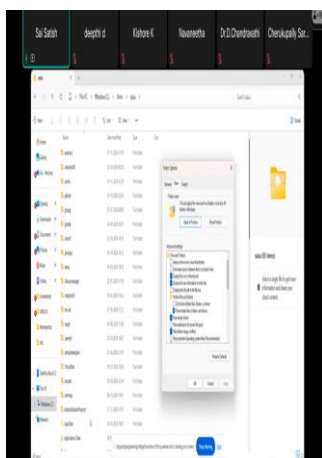
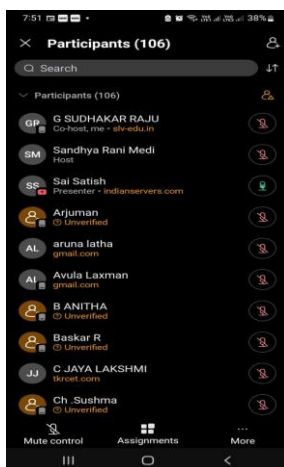
Mr Sai Sateesh
CEO, Indian Servers, Andhra Pradesh

Topics covered in this session are:

- Analyzing Forensic Data
- Demonstration of Wireshark Tool to trace the data Packets
- Hands on session for retrieving deleted data
- Command line Tools to know Protection of Data

DAY4 SESSION7 PHOTOS

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ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day4 (19.12.2024)-Session8 (7.30PM to 9.00PM)

Speaker Name:	Dr Sri Nagesh Origala
Topic Name:	Best Practices and Standards in Cyber Security and Digital Forensics

Resource Person

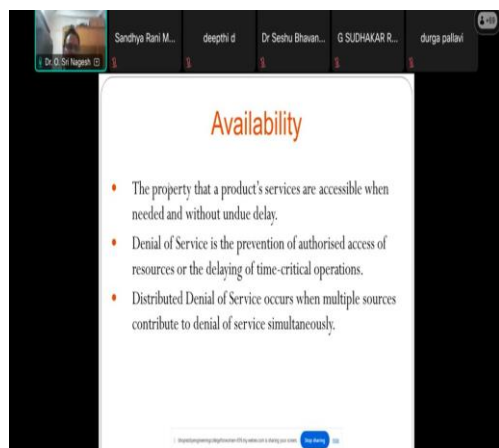


Dr Sri Nagesh Origala
Assoc.Professor,CSE Department,Anurag
University,Hyderabad

Topics covered in this session are:

- Cyber Security Goals
- Cyber Security attacks and security mechanisms
- Digital Forensics steps
- Encase tool
- Demonstration of Forensic tools to copy the images.

DAY4 SESSION8 PHOTOS



ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day5 (20.12.2024) Session 9 (6.00PM to 7.30PM)

Speaker Name:	Dr Rukma Rekha N
Topic Name:	Forensic Implications on Block Chain Technology

Resource Person

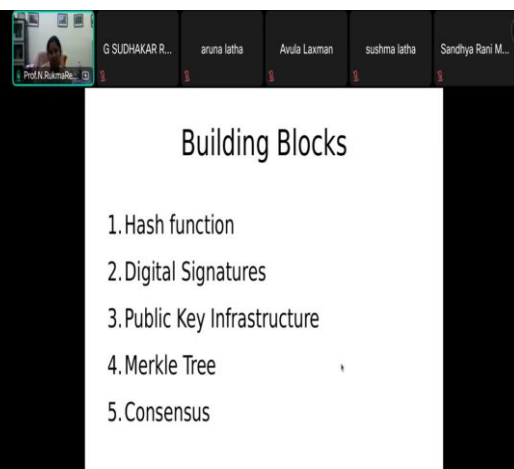


Professor, SCIS, University of Hyderabad,
Central University, Hyderabad

Topics covered in this session are:

- Fundamentals of Block Chain Technology
- Building Blocks of Block Chain
- DNS name servers
- Role of Block Chain in Cyber Security
- Challenges in Block Chain Technology

DAYS SESSION9 PHOTOS



ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day5 (20.12.2024) Session10 (7.30PM to 9.00PM)

Speaker Name:	Mr Kondal Thummeti, Data Protection and Privacy Specialist
Topic Name:	Privacy Issues and Data Protection

Resource Person

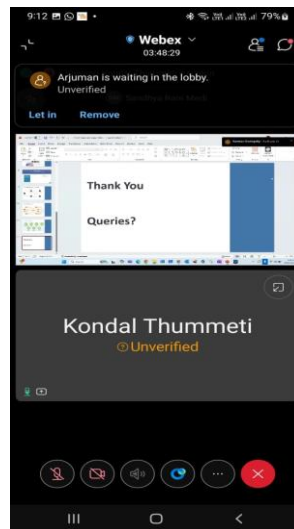
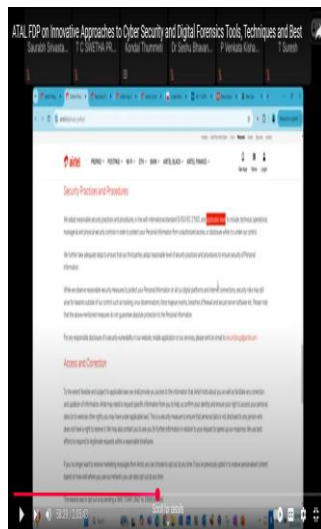


Mr Kondal Thummeti,
Data Protection and Privacy Specialist,
3i-Infotech Pvt. Ltd.UAE

Topics covered in this session are:

- Personal Data
- Data Protection Standards
- Data Privacy Regulations and Compliance
- Consumer Privacy Rights and Protection
- Privacy risks in Emerging Technologies

DAY5 SESSION 10 PHOTOS



**ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices**

Day6 (21.12.2024) Session 11 (2.00 PM to 3.30PM)

Speaker Name:	Mr Anirudh Pucha
Topic Name:	Case Studies and Real World Applications

Resource Person

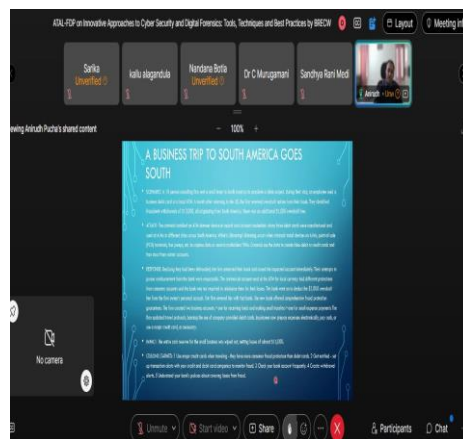
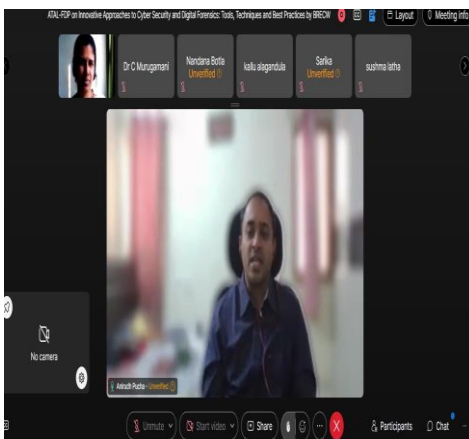


Mr Anirudh Pucha
Program Manager-Principal Consultant,
Infosys, Hyderabad

Topics covered in this session are:

- Cyber Attacks types
- Cyber Security case studies
- Crime Investigations
- Real World Forensic Applications
- Challenges in Cyber Security and Digital Forensics

DAY6 SESSION 11 PHOTOS



ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day6 (21.12.2024) Session12 (3.30PM to 5.00PM)

Speaker Name:	Mr Sai Sateesh D
Topic Name:	Open Source Intelligence

Resource Person

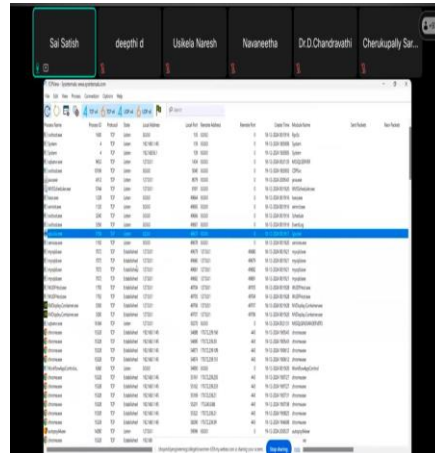
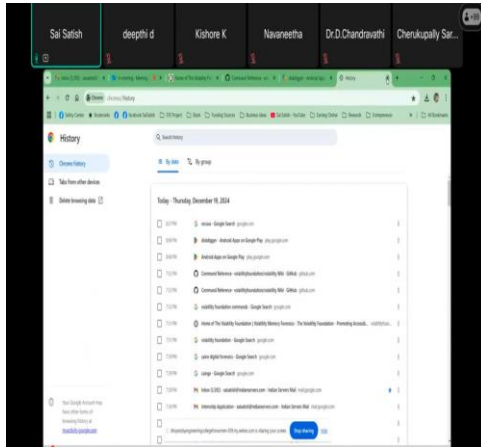


Mr Sai Sateesh D
CEO, Indian Servers, Andhra Pradesh

Topics covered in this session are:

- Adaptive Threat Detection and Response
- Resilience and Recovery in Open Systems
- Collaboration and Threat Sharing
- Predictive and Proactive Security

DAY6 SESSION 12 PHOTOS



ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

Day6 (21.12.2024) Session13 (5.00PM to 6.30PM)

Speaker Name:	Dr Pilli Emmanuel Shubhakar
TopicName:	Innovations in cyber Security and Digital Forensics

Resource Person

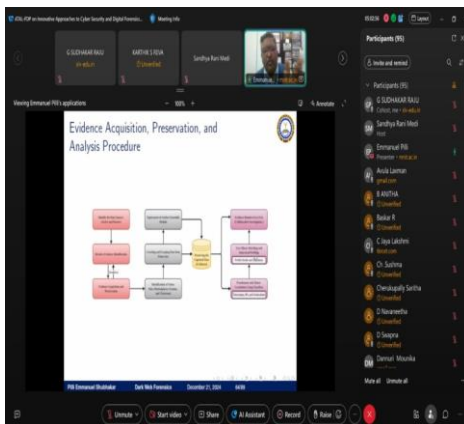
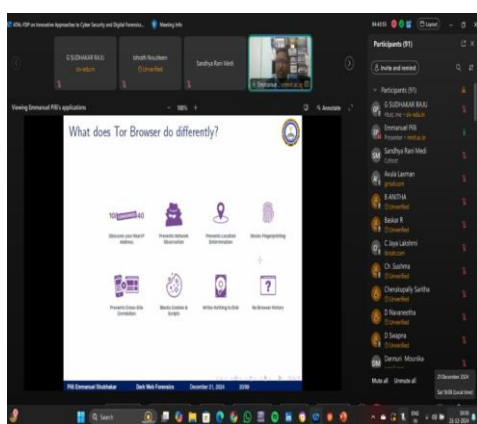


Dr Pilli Emmanuel Shubhakar
Assoc.Professor,CSE Department,
MNIT, Jaipur, Rajasthan,India

Topics covered in this session are:

- Digital Forensic Applications
- Trends in Cyber Security and Digital Forensics
- Evidence Acquisition Procedure
- Tor Browser
- Dark Web Forensic Procedure

DAY6 SESSION 13 PHOTOS



ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

VALEDICTORY SESSION

The valedictory session of the Faculty Development Programme (FDP) titled " Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices ", organized by the Department of Information Technology, Bhoj Reddy Engineering College for Women, Hyderabad, in collaboration with AICTE Training and Learning (ATAL) Academy, was held on 21.12.2024.

The session commenced with a warm welcome by **Mr. G. Sudhakar Raju, Co-coordinator** of the FDP. He greeted the dignitaries, participants, and resource persons, thanking them for the active participation and contribution throughout the six-day programme. He emphasized the importance of the FDP in bridging the knowledge gap between the academics and industry in the area of Cyber Security.

Dr. M Sandhya Rani, Coordinator of the FDP, provided a detailed report of the programme. She highlighted the key topics and sessions covered during the six days, such as Cyber Security fundamentals, Forensic Investigation Life Cycle, Emerging trends in the applications of Digital Forensics, and their practical implications. She acknowledged the dedication of the resource persons and the enthusiasm of the participants, which made the event a grand success.

Dr. C Murugamani, HoD of Information Technology, emphasized the transformative potential of Cyber Security and Forensics in the real world scenarios and encouraged participants to apply the knowledge gained during the FDP in their research and professional endeavors.

Mr G Dayakar Reddy, Vice Principal of BRECW addressed the gathering and congratulated the organizing team of IT Department for their efforts in hosting a well- structured and insightful FDP.

Dr Ch Sujatha Gangadhar, Chief Operating Officer, SLV, appreciated the organizing committee members for their hardwork and congratulated the participants who enthusiastically attended the FDP.

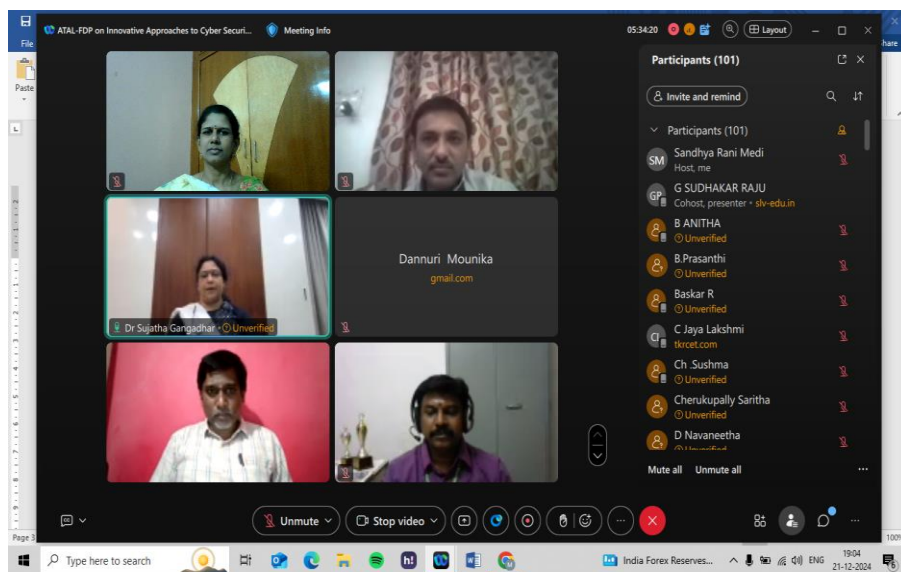
Several participants shared their feedback during the session, expressing their gratitude to the organizers and resource persons. They highlighted the comprehensive nature of the FDP, which included theoretical discussions, practical insights, and interactive sessions. Participants appreciated the platform for fostering collaborative learning and expressed their enthusiasm to explore further advancements in Cyber Security and Digital Forensics.

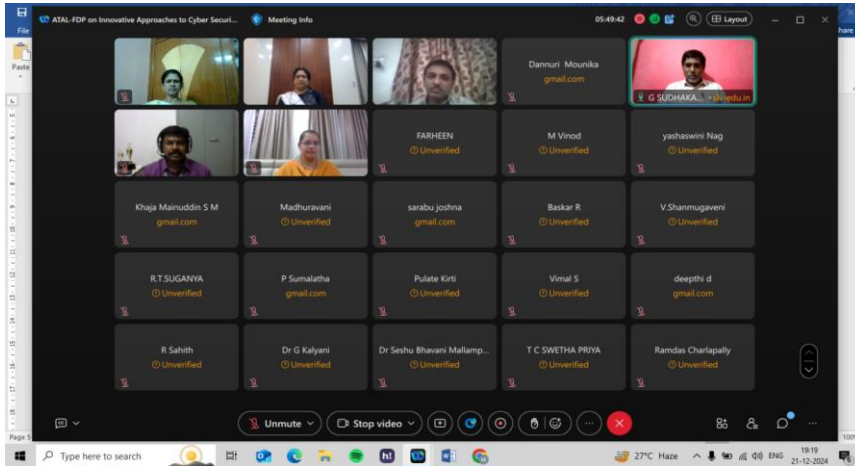
ATAL Online FDP on

Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices

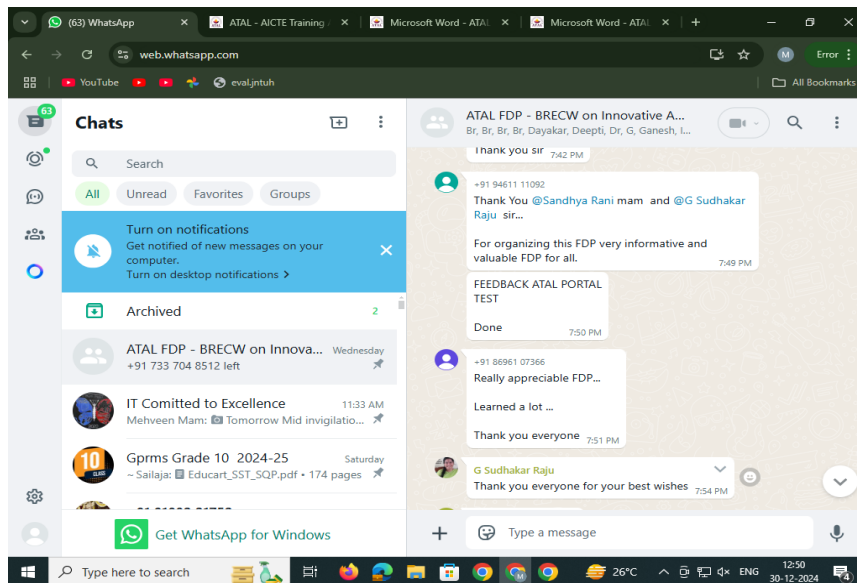
The session concluded with a vote of thanks by Ms G Jyothi, organizing committee member, who expressed heartfelt gratitude to the management, Principal, Vice Principal of BRECW for their continuous support, AICTE Training and Learning (ATAL) Academy for their collaboration, and the resource persons for sharing their expertise. She also extended her thanks to the participants for their active involvement, making the program a grand success.

VALEDICTORY SESSION PHOTOS





PARTICIPANTS FEEDBACK



ATAL Online FDP on
Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices