MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
Approved by AICTE, New Delhi-Affiliated to JNTUA, Anantapur ; An ISO 9001-2008 Certified Institution
MADANAPALLE - 517 325, www.mits.ac.in ☎ : 08571-280255, Fax : 280433

Department of Computer Science & Technology
Report of
Five – Days Online Faculty Development Program
On
Emerging Trends and Technologies in Cyber Security

About the College

Madanapalle Institute of Technology & Science is established in 1998 in the picturesque and pleasant environs of Madanapalle and is ideally located on a sprawling 26.17 acre campus on Madanapalle - Anantapur Highway (NH-205) near Angallu, about 10km away from Madanapalle.

MITS, originated under the auspices of Ratakonda Ranga Reddy Educational Academy under the proactive leadership of President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary & Correspondent of the Academy.

MITS is governed by a progressive management that never rests on laurels and has been striving conscientiously to develop it as one of the best centers of Academic Excellence in India. The Institution's profile is firmly based on strategies and action plans that match changing demands of the nation and the students fraternity. MITS enjoys constant support and patronage of NRI's with distinguished academic traditions and vast experience in Engineering & Technology.

About the Department

The Department of Computer Science & Technology (CST) was established in the year 2018 and plays a vital role in producing value-based professionals to cater to the ever challenging needs of technical excellence in the emerging areas of CST. The department offers one UG program with an intake of 60 students and the intake was enhanced to 180 seats in the year 2019. Department has adequate infrastructural facilities required for imparting high quality education and the department is fully structured to meet the contemporary needs of the industry. Imparting high quality education is supported by well qualified and experienced faculty members with rich academic and industry exposure, who have pursued Masters/Ph.D degree from prestigious institutions like NITs, IITs, and Central Universities within India and abroad. Seminars, Workshops, and Technical Symposia are conducted in the department to keep faculty and students updated with latest developments in various technologies.

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Secretary & Correspondent

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Professor, HOD / CST & CSC

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Organizing Committee

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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)

Five – Days Online Faculty Development Programme
On
"Emerging Trends and Technologies in Cyber Security"
From
14-11-2022 to 18-11-2022

Department of Computer Science & Technology

Submitted By: Dr.N.Praveena, Assistant Professor, Dept of CST.

Coordinator: Mr.Magesh Kumar, Assistant Professor, Dept of CST.

Resource Person:

1. **Dr. N. Sreenath, Professor/CSE** Puducherry Technological University, **Puducherry.**

2. Dr. J.I. Sheeba, Asst. Professor / CSE Puducherry Technological University,

3. Dr.S.Geetha,Asst. Professor / Banking Technology Pondicherry University, Puducherry.

4. Mr.Dinesh Parathangal CEO, Hackup Technology Pvt. Ltd. Coimbatore

5. Mr.K.VijayKumar, Wing Commander, Indian Air Force, New Delhi.

Mode of Delivery: Online Mode through Microsoft Teams

A five-day virtual online faculty development programme on "Emerging Trends and Technologies in Cyber Security" was held from November 14 to November 18, 2022. The workshop was attended by more than 150 participants from different engineering colleges, universities, business professionals, and academics across the nation.

The program commenced on 14.11.2022 at 10.00 AM with a welcome address given by Dr.N.Praveena Assistant Professor, Dept of CST/MITS. A keynote about Faculty Development Program was given by Dr.M.Sreedevi, Professor &HoD/CST&CSC, and Dr. BasabiChakarborthy, Professor& Dean, shared the importance of cyber security. The presidential address followed by the Inaugural speech was given by Dr. C. Yuvaraj, Principal, Madanapalle Institute of Technology & Science. A brief introduction about the Resource Person for Day 1 Session was given by Dr.K.Rajakumar, Associate Professor/CST/MITS.

Day 1: 14-11-2022, Monday

Topic: "Introduction to cyber security and digital forensics"

The resource person for Day 1, is **Dr. N. Sreenath, Professor/CSE Puducherry Technological University**, Puducherry. He started the session by giving an introduction to cyber security. Malware is a cyber-attack that misplaces files, and personal information from the laptop while ransomware can be considered a data kidnapping that locks down the laptop and asks for a bribe in the form of bitcoins to recover all the data. The percentage of cyber-attacks is 36% which can be increased to 86% by 2022. The statistical analysis of cyber-crimes was explained by the resource person. The data covered was in the year 2018-2022. He discussed the latest cybercrime that happened in Andhra Pradesh. He stated that the highest cyber-crimes were registered in Maharashtra (1879) which is followed by UP (1737) and Karnataka (1020) in 2022. He explained the various pathways for Cyber-crimesas Cyber terrorism (48%), Disruption (53%), Financial gain (93%), Defamation (57%), Fun (32%) and Fraudulent activity (68%). He also explained the different modes of Cyber-crimessuch as ATM hacks (73%), Phishing (47%), Data theft (40%), Electronic forgery (33%), Malware/ spyware (33%), Ransomware (27%). The session was very much helpful as the resource person stated how we have to be aware of the cyber security and cyber-crimes. The participants' queries were answered by the resource person.

Day 2:15-11-2022 Tuesday

Topic: "Security issues is Social Networks (Cyber Bully).

The day 2 session started at 10.00 AM by giving a welcome speech to Resource person **Dr. J.I. Sheeba, Assistant Professor / CSE** Puducherry Technological University Puducherry by Dr. N. Praveena Assistant Professor/ CST/MITS. The Introduction about the Resource person was given by Dr. K. Dinesh Associate Professor/CST/MITS. Dr. J.I. Sheeba started the session by giving a brief introduction to Social Networks and discussed the various security issues facing today, especially cyberbullying. Mainly she discussed the recent crimes that occurred in social media such as Facebook, Twitter and Instagram. She explained clearly the research topics in cyberbullying, their limitations, and research challenges. The participants' queries were answered by the resource person and all participants gave good feedback, especially the research scholars who felt very useful for their research.

Day 3:16-11-2022 Wednesday

Topic: "Trends & Application in Cyber Security (Banking)"

The day 3 session started at 10.00 AM with a welcome address to Resource person **Dr. S. Geetha, Asst. Professor, Banking Technology, School of Management Studies, Pondicherry University,** Puducherry by Dr. N. Praveena, Assistant Professor/ CST/MITS. The Introduction about Resource person given by Dr.S.Shanthi Senior Assistant Professor/CST/MITS. Dr. Geetha started the session by introducing cyber security in banking technology. She discussed digital banking related cybersecurity incidents in India. She also discussed the threats, challenges and possible solutions for cyber security in digital banking. She gave border idea about recent trends in cyber security attacks related to digital banking. The resource person answered the participants' queries and all participants gave good feedback.

Day 4:17-11-2022 Thursday.

Topic: "Cyber Crime and digital forensics."

The day 4 session started at 10.00 AM by giving a welcome speech to Resource Person **Mr.Dinesh Parathangal CEO**, of **Hackup Technology Pvt. Ltd.** Coimbatore. by Dr. N. Praveena Assistant Professor/ CST/MITS. The Introduction about the Resource person was given by Dr. S. Padma Assistant Professor/CST/MITS. He started the session by giving an introduction to Ethical Hacking. He discussed the importance of ransomware with a live demo. He explained

the types of cyber-crimes like email crime, Malware, phishing, and social Engineering and their mitigation steps with hands-on examples. He also discussed the VOIP and investigated the VOIP with a demo session with the participant. Finally, he gave a broader idea about different types of Google Hacking. The resource person answered the participants' queries and all participants gave good feedback.

Day 5:18-11-2022 Friday

Topic: "Challenges and Cyber Risks in Aviation"

The day 5 session started at 10.00 AM by giving a welcome speech to Resource **Mr. K. Vijay Kumar Wing Commander, Indian Air Force**, New Delhi by Dr.N. Praveena Assistant Professor/ CST/MITS. The Introduction about the Resource person given by Dr. R.Manikandan Assistant Professor/CST/MITS. He started the session by giving an introduction about the history of Aviation followed by the scope and its growth. Later he explained the cyber risks and challenges with some real time scenarios. He clearly explained about the various cyber issues that have been facing in the Aviation. The role and necessity of system and softwares in aviation and the various issues that were faced by the softwareshas been clearly explained He also explained about the career opportunities in Indian Air Force with the motivational speech about how to crack them. He also explained about the importance of MSME, and benefits of the Atmanirbhar Bharat scheme to the faculty and students' perspectives.

The Feedback session started at the end of 5^{th} day session and many participants have given their valuable feedback about the FDP. Most of the participants have given positive feedback and thanked the resource persons and requested more hands-on practice sessions in future.

Dr. N. Praveena, summarized all the five days session by stating the importance about each and every session to achieve the objective the FDP. The FDP was concluded by Dr.M.Sreedevi, Professor &HoD/CST&CSC by thanking the Resource Persons and participants. Finally, the Vote of Thanks was delivered by the FDP Coordinator Mr. Magesh Kumar, Assistant Professor/CST/MITS by thanking the Resource Persons and participants.

MITS - FDP - Day - 1 _ Feedback

7. Speaker's Level of Knowledge

More Details

Excellent	65
Good	20
Moderate	0
Fair	0
Poor	0

8. What is your level of satisfaction with this Event

More Details Insights

Excellent	51
Good	34
Moderate	0
Fair	0
Poor	0

MITS - FDP - Day - 2 _ Feedback

7. Speaker's Level of Knowledge

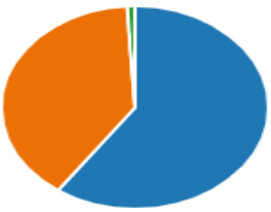
More Details

Excellent	70
Good	37
Moderate	0
Fair	0
Poor	0

8. What is your level of satisfaction with this Event

More Details Insights

Excellent	64
Good	42
Moderate	1
Fair	0
Poor	0



MITS - FDP - Day - 3 _ Feedback

7. Speaker's Level of Knowledge

More Details

Excellent	78
Good	32
Moderate	0
Fair	0
Poor	0

8. What is your level of satisfaction with this Event

More Details Insights

Excellent	72
Good	38
Moderate	0
Fair	0
Poor	0

MITS - FDP - Day - 4 _ Feedback

7. Speaker's Level of Knowledge

More Details

Excellent	82
Good	31
Moderate	1
Fair	0
Poor	0

8. What is your level of satisfaction with this Event

More Details Insights

Excellent	76
Good	38
Moderate	0
Fair	0
Poor	0

MITS - FDP - Day - 5 _ Feedback

7. Speaker's Level of Knowledge

More Details

Excellent	85
Good	32
Moderate	0
Fair	0
Poor	0

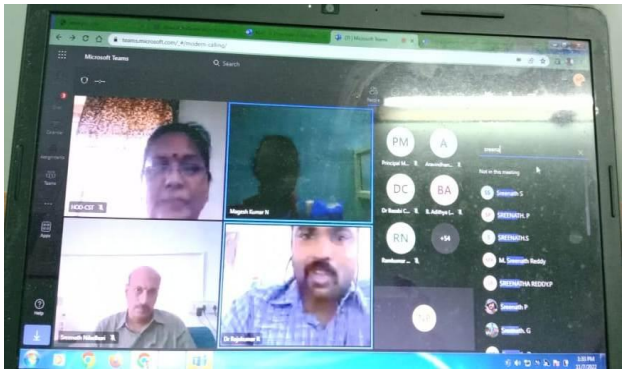
8. What is your level of satisfaction with this Event

More Details Insights

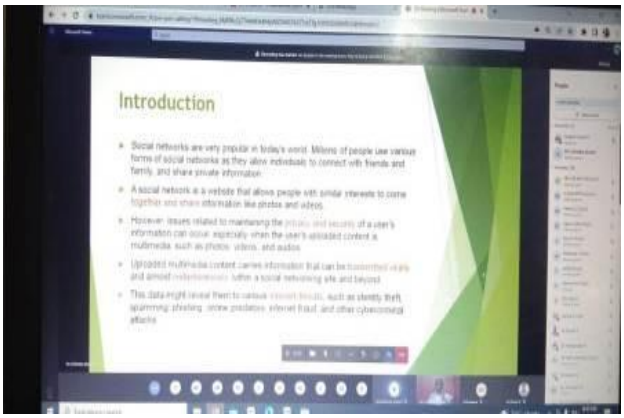
Excellent	83
Good	34
Moderate	0
Fair	0
Poor	0

Event Gallery

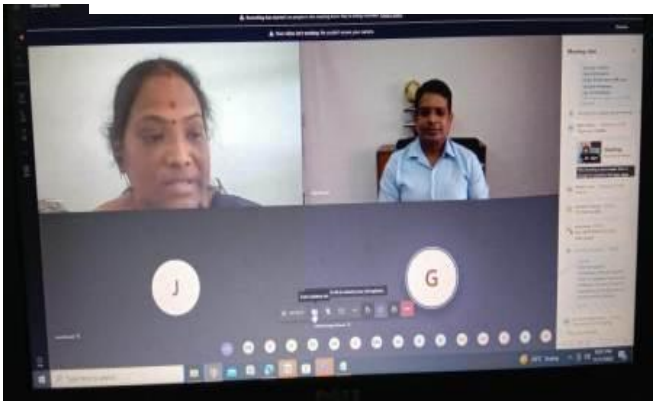
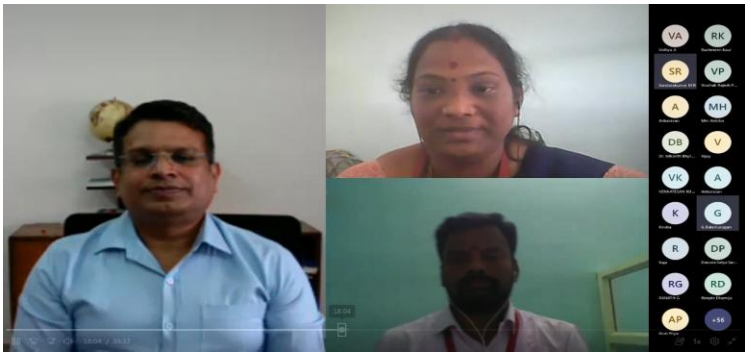
MITS - FDP - Day - 1 _ Session



MITS - FDP - Day - 2 _ Session



MITS - FDP - Day - 3 _ Session

MITS - FDP - Day - 4 _ Session

MITS - FDP - Day - 5 _ Session