Date: 07-02-2023

To
The Principal,
RIT, Hassan

Dear Sir,

Subject: Requesting permission to conduct FDP on "Cyber Security"

With respect to above subject, we would like to request your permission to conduct Faculty Development Program on "Cyber Security" from 15-2-2023 to 28-3-2023. The program is conducted by CDAC, Hyderabad. The targeted participants are faculty members of our college from the department of CSE, ISE and ECE. Kindly do needful.

Thanking you,

Yours faithfully

Dr Arjun B C   7/2/23

Head of the Department
Dept. of Information Science & Engg.
Rajeev Institute of Techno
HASSAN-573201, Karnataka, India.

Permitted to conduct the FDP. Provide the requirements and Budget required.

Only
7/2/2023

RAJEEV INSTITUTE OF TECHNOLOGY

HASSAN- 573 201, KARNATAKA
(Affiliated to VTU, Belagavi., Approved by AICTE, New Delhi.)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

ACTIVITY DETAILS

Cyber Security Essentials				
Session - ToT Workshop				
All Session Timings: 2:00 PM - 5:00 PM				
Date	**Session**	**Topics Covered**	**Speaker**	**Email Address**
Day 1 Feb 15, 2023 Wednesday	Session 1	**Linux Environment** a. Basic Commands b. Linux Installation c. Shell Scripting	Mr. Venkatesh	venkateshc@cdac.in
Day 2 Feb 16, 2023 Thursday	Session 2	**TCP/IP Cyber Security Perspective** a. Understanding TCP/IP towards Cyber Security b. Cyber Security: Background and Current Trends	Mr. Ch A S Murty	chasmurty@cdac.in
Day 3 Feb 17, 2023 Friday	Session 3	**Cryptography and Network Security** a. Cryptography & its Applications	Ms. Jyostna G	gjyostna@cdac.in
		b. Network Security & Protocols for Secure Communication	Mr. Sai Gopal T	saigopalt@cdac.in
Day 4 Feb 20, 2023 Monday	Session 4	**Security Threats and Vulnerabilities** a. Common Network Attacks b. Security Threats & Vulnerabilities c. Cyber Security Current Trends	Mr. Nandeeshwar B	nandeeshwarb@cdac.in
Day 5 Feb 21, 2023 Tuesday	Session 5	**Overview of End System Security** a. OS Security and Hardening	Mr. Tyeb Naushad	tyebn@cdac.in
		b. Authentication, Authorization and Accountability c. Event Log Analysis d. Endpoint Security Solutions	Mr. Nandeeshwar B	nandeeshwarb@cdac.in
Day 6 Feb 22, 2023 Wednesday	Session 6	**Overview of Network Defence** a. Network Components (Firewall, IDS, Router) b. Defensible Network Architecture	Mr. Tyeb Naushad	tyebn@cdac.in
Day 7 Feb 23, 2023 Thursday	Session 7	**Web Application Security** a. Web Application Security b. OWASP Top 10	Ms. Indraveni K	indravenik@cdac.in
Day 8 Feb 24, 2023 Friday	Session 8	**Common Applications Vulnerabilities (Buffer, Heap Overflows)**	Mr. PRK Sastry	pudipeddirs@cdac.in
Day 9 Feb 27, 2023 Monday	Session 9	**Threat Modelling**	Ms. Jyostna G	gjyostna@cdac.in
Day 10 Feb 28, 2023 Tuesday	Session 10	**Overview of Malware Analysis**	Mr. Sandeep Romana	sandeepr@cdac.in

Attendees

Faculties of VTU Affiliated College from Rajeev Institute of Technology, Hassan.

The below-listed faculties participated in Cyber Security Program.

1. Dr Aravind B N   ECE
2. Shashikala M K   CSE
3. Sanjay M   CSE
4. Megha H C   CSE
5. Sindhu Jain   ISE
6. Hajeera Khanam   ISE
7. Ambika K   ECE
8. Vishwanath B R   ECE
9. Rohit P   ECE
10. Manasa A   ECE

REPORT ON

10 DAYS Online FDP ON "CYBER SECURITY ESSENTIALS"

From 15-Feb-2023 to 28-Feb-2023

Organized by

Department of Information Science and Engineering
Rajeev Institute of Technology, Hassan

In association with

CDAC – Hyderabad

Meeting Name: Cyber Security Essentials-ToT Batch 5
Meeting Dates and Time: Feb 15, 2023 to Feb 28, 2023 from 2:00 pm to 5:00 pm
Meeting number: 2514 280 5073
Password: Abc@123
Meeting link: https://fspcs.webex.com/fspcs/j.php?MTID=m4b5c0bbd27cfc69389694c43bed43d8a
The recurrent meeting link used for attending the online sessions from Feb 15 to Feb 28, 2023.

Resource Person & Training Coordinator

FutureSkills PRIME-Cyber Security listed below session wise

csfs@cdac.in or call us at 9100682644

Course Objectives

• Covers the aspects of Network Security, End System Security, identification of threats and vulnerabilities in an application and their deployments, monitoring the event logs and alarms for possible threats and troubleshooting.

• Offers virtual labs through which participants gains hands-on training on various security tools with an aim to detect and mitigate Cyber Security threats.

• Well-structured courses delivered by R&D Experts with support for Virtual Labs.

• Provide comprehensive exposure to End system, Network and application Security.

Course benefits

The bridge course is to equip staff with IT professionals experience with strong fundamentals in the Cyber Security domain. This course builds core competencies in the area of Network, End System and Application Security that acts as a bridge for advanced deep skilling courses which are aligned to National Occupational Standards (NOS) defined under the National Skill Qualification Framework (NSQF).

Report on formal function

Rajeev Institute of Technology, Hassan, organized 10 days workshop on "CYBER SECURITY" in association with CDAC-Hyderabad, for faculties of VTU affiliated colleges from Rajeev Institute of Technology, Hassan, from 15-02-23 to 28-02-23.

The **Training of Trainers (TOT)** workshop started at 02:00 PM on 15-02-2023 with greetings and inviting the dignitaries and trainers presented by Dr Arjun B C, Associate professor and Head, Department of ISE, RIT, Hassan.

The TOT workshop sessions started at 2.00 PM as per schedule.

Session wise Summary

Day 1- Session 1 (2.00 pm to 4.00 pm): Linux Environment
The resource person introduced the Linux Environment. He started the session by briefing the history of Linux Fundamentals, Basic Linux file system, and file ownership and explained the basic Linux commands. The Basic commands were explained with examples in the virtual lab. Also, the resource person introduced the Linux Installation and Shell scripting language. The session was closed by explaining the basic Linux commands and Execution.

Day 2- Session 2 (2.00 pm to 5.00 pm): TCP/IP Cyber Security Perspective

The resource person introduced the TCP/IP Cyber Security Perspective. He started the session with a briefing on Understanding TCP/IP towards Cyber Security, Network architecture, OSI Model, and TCP/IP model. He explains the concepts of Data link protocols, switched networks, Vulnerabilities, and Address Resolution Protocols. Also, resource persons introduced the Internet Protocol. The session was closed by explaining the Internet Control Message Protocol.

Day 3- Session 3 (2.00 pm to 05.00 pm): Cryptography and Network Security

In continuation with the previous session, In this session, he started explaining with understanding the basic concepts of Cryptography and Network Security. He covered:

a. Cryptography & its Applications

b. Network Security & Protocols for Secure Communication.

Day 4- Session 4 (2.00 pm to 5.00 pm): Security Threats & Vulnerabilities

This session covered the topics in the syllabus of Security Threats and Vulnerabilities, common to all engineering disciplines. Which covered:

a. Common Network Attacks

b. Security Threats & Vulnerabilities

c. Cyber Security Current Trends and online software.

Day 5- Session 5(2.00 pm to 5.00pm): Overview of End System Security

The resource person introduced the Overview of End System Security. He started the session by briefing the history of End System Security, and covered below topics.

a. OS Security and Hardening

b. Authentication, Authorization and Accountability

c. Event Log Analysis d. Endpoint Security Solutions.

Day 6- Session 6 (2.00 pm to 5.00 pm): Overview of Network Defense

In this session topics listed below of Overview of Network Defense were covered

a. Network Components (Firewall, IDS, Router)

b. Defensible Network Architecture.

Day 7- Session 7 (2.00 pm to 05.00 pm): Web Application Security

In this session understanding the basic concepts of Web application Security was explained. The resource person covered HTTP, HTTP header types, javascript, the Importance of Web Application Security, Proxy Server, SQL Injection, session life cycle and its illustration

Day 8- Session 8 (2.00 pm to 5.00 pm): Common Applications Vulnerabilities (Buffer, Heap Overflows)

They handled this session which was about topics in the syllabus of Overview of Common Applications Vulnerabilities. They explained the concept of Buffer Overflow Vulnerability. Heap, Overflow, process memory layout, registers.

Day 9- Session 9 (2.00 pm to 5.00 pm): Threat Modeling

They handled this session which was about topics in the syllabus of SDLC, They explained the concept of Why S-SDLC, Methodologies for security in SDLC, and Microsoft Secure Development Life Cycle.

Day 10- Session 10 (2.00 pm to 5.00 pm): Overview of Malware Analysis

They handled this session which was about topics in the syllabus of an overview of malware analysis. They explained the concept of Malware Analysis Lab setup using VMware.

Summary of valedictory function

As the valedictory function began, the attendees shared their feedback on stage. Organizers shared the online feedback link with attendees.

Dr Arjun B C, HOD & Associate Professor, Department of Information Science & Engineering, RIT, Hassan, concluded the workshop by delivering a vote of thanks and thanked all the faculties and management of Rajeev Institute of Technology, Hassan for organizing this workshop. He also thanked all the resource persons for sharing their valuable insights and all the faculties for attending this workshop.

Outcome of the workshop

This workshop was very informative, and also a hands-on virtual lab session and software implementation related to cyber security were practised and executed in the Linux virtual laboratory. At the end of this training, all faculties are confident in cyber-security concepts.

CDAC-Hyderabad conducted a TOT- certification exam for all the participants, and all the faculties successfully cleared the exam and were certified as trainers.

Overall CDAC –Hyderabad team provided valuable knowledge regarding the Cyber Security Essentials TOT program and upgraded faculty skills in Technology.

This 10-day TOT workshop on "CYBER SECURITY- CDAC HYDERABAD" was a grand success and provided the attendees with great insight into cyber security and using the virtual lab, and also congratulations to all the faculties who were certified as Trainers for Cyber Security.
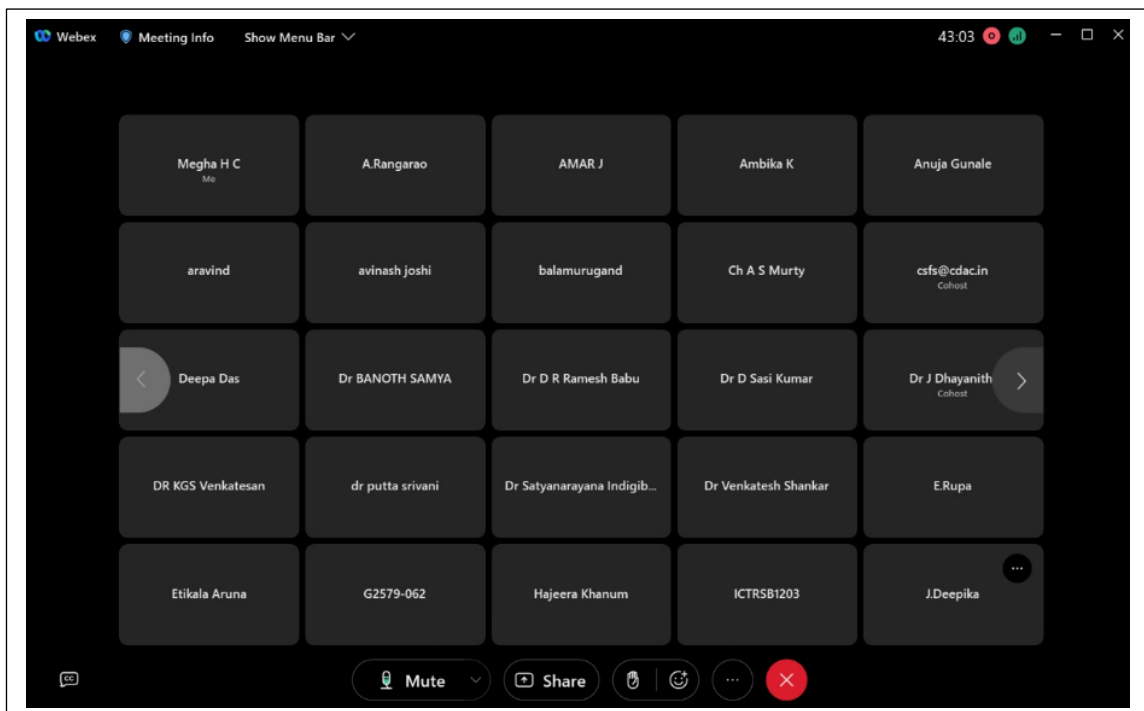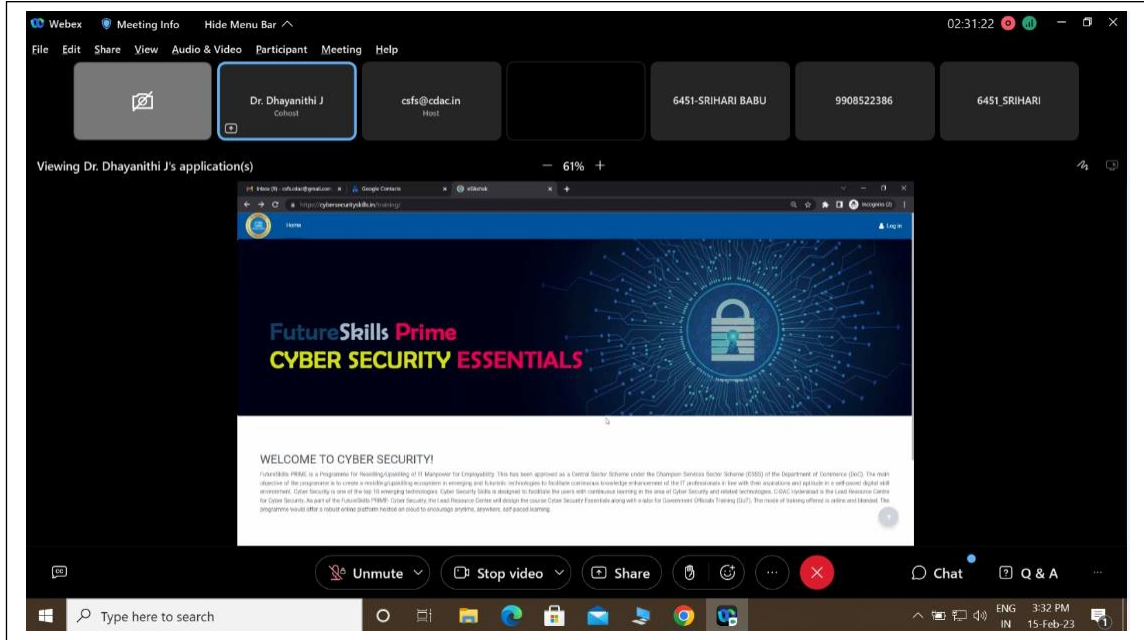
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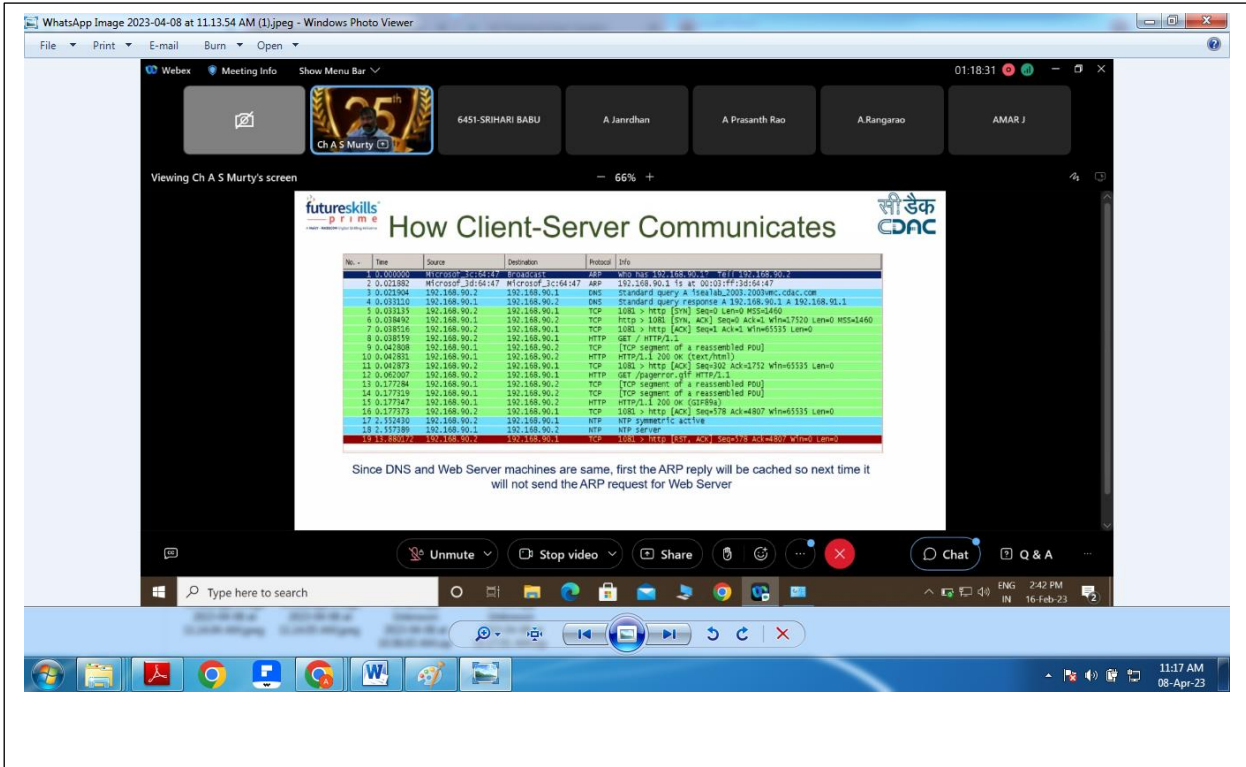
Feedback of the Participants for FDP on "Cyber Security"

Full Name	Department	The FDP was valuable & added to my understanding of knowledge about the topic	The content of the FDP met the expectations of the participants	Rate the speaker presentation skill	How would you rate overall experience of this FDP?	How likely are you to recommend this FDP?
Dr Aravind B N	ECE	4	5	3	4	3
Shashikala M K	CSE	5	4	4	4	5
Sanjay M	CSE	4	5	3	4	3
Megha H C	CSE	5	4	4	4	5
Sindhu Jain	ISE	4	5	3	4	4
Hajeera Khanam	ISE	5	5	3	4	3
Ambika K	ECE	4	4	4	4	4
Vishwanth B R	ECE	5	4	4	4	5
Rohit P	ECE	5	5	5	4	3
Manasa A	ECE	4	4	4	4	4