



Date: 10th April 2022

Report on “Ethical Hacking”

Event Date: 10th April 2022

Time: **10:00 pm to 12:00 pm (2 Hrs)**

Venue: **Online (Google meet)**

No. of Registered Students: 62

Meet code: (Ethical Hacking)

Resource Person:**Dr.AK Sampath(Completed Ph.D.(AI/Machine Learning) from Vel TechUniversity, Chennai. He is an expert in the field of Machine Learning and has 13+ years of experience in teaching.)**

A. Details:

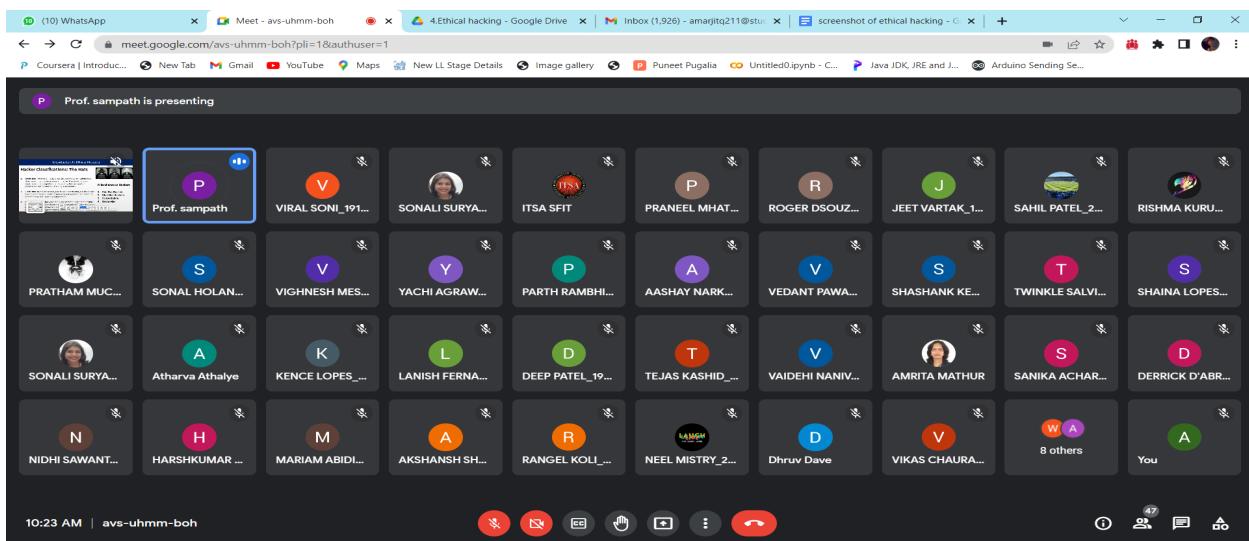
As a part of Academic Activity of “ITSA” of the INFT Department, the Machine Learning Workshop was arranged on 29th January 2022. The Workshop was a successful event with all due efforts from each ITSA members and also ITSA coordinators .An impactful session was delivered by our resource person Mr.Santosh Chapaneri. Introduction was given by Mr.Amarjit Gupta (Documentation Head of ITSA for the year 2021-22) and our resource person Dr.AK Sampath and all other participants were then welcomed for the workshop.

The following topics were covered during the session:

- 1.Important tools for Ethical Hacking
- 2.How to use kali linux.
- 3.How to do password cracking.

Our resource person Dr.AK Sampath is an expert in the field of Machine Learning has 13+ years of experience in teaching and been in this profession for the past 18 years. Currently he is working as Professor CSE department Presidency university Bangalore.The Resource Person delivered an excellent session giving insights about Ethical Hacking and how to maintain personal security against hacking.

B. Images of the Machine Learning Workshop:
i) Introduction of the session by Mr.Santosh Chapaneri-



ii. -Mr..AK Sampath explaining about Ethical hacking

Introduction to Ethical Hacking

Hacker Classifications: The Hats

- White hats:** White Hat hackers are also known as **Ethical Hackers**. They never intent to harm a system, rather they try to find out weaknesses in a computer or a network system as a part of penetration testing and vulnerability assessments.
- Black Hats** Black Hat hackers, also known as **crackers**, are those who hack in order to gain unauthorized access to a system and harm its operations or steal sensitive information.
- Grey Hats** Grey hat hackers are a blend of both black hat and white hat hackers. They act without malicious intent but for their fun, they exploit a security weakness in a **c0r3** without the owner's permission or knowledge.

10:22 AM | avs-uhmm-boh

Prof. sampath is presenting

VIRAL SONI_191118 SONALI SURYAW... AMARJIT GUPTA... ITSA SFIT PRANEEL MHATR... ROGER DSOUZA... 36 others You

Disclaimer

This tutorial is meant for education purpose only, Neither Institution nor instructor is responsible for implementation of any hack learnt in this tutorial, this course is made with a vision to jump start career in ethical hacking.

I use my own devices during explanation of the methods.

Don't use these methods for any kind of illegal or malicious activities because hacking is crime.

10:37 AM | avs-uhmm-boh

Prof. sampath is presenting

AMARJIT GUPTA... VIRAL SONI_191118 SONALI SURYAW... ITSA SFIT ADITI PEDNEKAR... PRANEEL MHATR... 48 others You

System Hacking

- System hacking is one of the most important and sometimes, the ultimate goal of an attacker.
- The attacker acquires information through techniques such as Footprinting, scanning and enumeration, and use to hack the target system

Hacking-Stage	Goal	Technique/Exploit Used
Gaining Access	To bypass access controls to gain access to the system	Password Cracking, Social Engineering
Escalating Privileges	To acquire the rights of another user or an admin	Exploiting known system vulnerabilities
Executing Applications	To create and maintain remote access to the system	Trojans, spywares, backdoors, keyloggers
Hiding Files	To hide attackers malicious activities and data theft	Rootkits, Steganography
Covering Tracks	To prevent detection and compromise	Clearing logs

10:38 AM | avs-uhmm-boh

Prof. sampath is presenting

AMARJIT GUPTA... VIRAL SONI_191118 SONALI SURYAW... ITSA SFIT ADITI PEDNEKAR... PRANEEL MHATR... 48 others You

iii.Explanation of phases of ethical hacking-

The screenshot shows a Google Meet interface. The title bar says 'Introduction to Ethical Hacking'. The main content area displays a slide titled 'Phases of Hacking' with five steps: 1. Reconnaissance, 2. Scanning, 3. Gaining Access, 4. Maintaining Access, and 5. Clearing Tracks. Below the slide, there is a message from 'meet.google.com' sharing a screen. On the right side, there is a 'Participants' grid showing several students and the professor. A sidebar on the right is titled 'In-call messages' with a list of recent messages.

The screenshot shows a Google Meet interface. The title bar says 'Phase 1: Reconnaissance'. The main content area displays a slide with text about the first step of hacking being footprinting and information gathering. It also includes a photograph of a person using binoculars to observe from a distance. Below the slide, there is a message from 'meet.google.com' sharing a screen. On the right side, there is a 'Participants' grid showing several students and the professor. A sidebar on the right is titled 'In-call messages' with a list of recent messages.

The screenshot shows a Google Meet interface. The title bar says 'Phase 3: Gaining Access'. The main content area displays a slide with text about the third phase of hacking where an attacker breaks into a system. It includes a screenshot of a terminal window showing exploit code for gaining access. Below the slide, there is a message from 'meet.google.com' sharing a screen. On the right side, there is a 'Participants' grid showing several students and the professor. A sidebar on the right is titled 'In-call messages' with a list of recent messages.

iv.Explanation about System hacking-

10:37 AM | avs-uhmm-boh

System Hacking

meet.google.com/avs-uhmm-boh?pli=1&authuser=1

Prof. sampath is presenting

meet.google.com is sharing your screen Stop sharing Hide

Participants:

- Prof. sampath
- VIRAL SONI_191118
- SONALI SURYAW...
- ITSA SFIT
- PRANEEL MHATR...
- ADITI PEDNEKAR...
- VAISHALI JADHAV
- ROGER DSOUZA_...
- SAHIL PATEL_201...
- PRATHAMESH UP...
- C 45 others
- You

Controls: Mute, Camera, Share, Chat, More

10:39 AM | avs-uhmm-boh

System Hacking

- System hacking is one of the most important and sometimes, the ultimate goal of an attacker.
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Hacking-Stage	Goal	Technique/Exploit Used
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Hiding Files	To hide attackers malicious activities and data theft	Rootkits, Steganography
Covering Tracks	meet.google.com is sharing your screen Stop sharing Hide	Clearing logs

Participants:

- Prof. sampath
- VIRAL SONI_191118
- SONALI SURYAW...
- ITSA SFIT
- PRANEEL MHATR...
- ADITI PEDNEKAR...
- VAISHALI JADHAV
- ROGER DSOUZA_...
- VEDANT PAWAR_1...
- JUAN NORONHA...
- 47 others
- You

Controls: Mute, Camera, Share, Chat, More

10:41 AM | avs-uhmm-boh

Password Cracking

- Password cracking techniques are used to recover passwords from computer systems
- Attackers use password cracking techniques to gain unauthorized access to the vulnerable system
- Most of the password cracking techniques are successful due to weak or easily guessable passwords

Participants:

- Prof. sampath
- VIRAL SONI_191118
- SONALI SURYAW...
- ITSA SFIT
- PRANEEL MHATR...
- ADITI PEDNEKAR...
- VAISHALI JADHAV
- ROGER DSOUZA_...
- VEDANT PAWAR_1...
- SAHIL PATEL_201...
- 46 others
- You

Controls: Mute, Camera, Share, Chat, More

v.Explanation about Password Crackingt-

meet.google.com/avs-uhmm-boh?pli=1&authuser=1

Coursera | Introdu... New Tab Gmail YouTube Maps New LL Stage Details Image gallery Puneet Pugalia Untitled0.ipynb Java JDK, JRE and J... Arduino Sending Se...

Prof. sampath is presenting

Types of Password Cracking

Non-Electronic Attacks
Attackers need not possess technical knowledge to crack password, hence known as non-technical attack.
Shoulder Surfing, Social Engineering, Dumpster Diving

Active Online Attacks
Attackers performs password cracking by directly communicating with the victim machine
Dictionary and Brute force attack, Hash injection and phishing, Trojans/Spyware/Loggers, Password Guessing

Passive Online Attacks
Attackers performs password cracking without communicating with the authorizing party
Wire Sniffing, Man-in-the-Middle, Replay

Dictionary and Brute force attack, Hash injection and phishing, Trojans/Spyware/Loggers, Password Guessing

Offline Attacks
Attackers copies target's password file and then tries to crack passwords in his own system at different location
Pre-Computed Hashes (Rainbow Table), Distributed Systems

In-call messages

Messages can only be seen by people in the call and are deleted when the call ends.

Sir is it- name of user

SANIA DMELLO 10:44 AM Maybe its name of user1234 ..

WAHID SHAIKH_201263 10:44 AM password

VIGHNEESH MESTRY_211071 10:44 AM "password"

ASHLY JOHN_191051 10:44 AM Name

SANIA DMELLO 10:45 AM "Nopassword"

Send a message to everyone

10:45 AM | avs-uhmm-boh

meet.google.com/avs-uhmm-boh?pli=1&authuser=1

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Prof. sampath is presenting

Non-Electronic Attacks

Shoulder Surfing

Dumpster Diving

Social Engineering

In-call messages

Prof. sampath

VIRAL SONI_191118

SONALI SURYAW...

ITSA SFIT

PRANEEL MHATR...

VEDANT PAWAR_...

JERIO SOARES_21...

SAHIL PATEL_201...

C A 46 others

You

10:46 AM | avs-uhmm-boh

meet.google.com/avs-uhmm-boh?pli=1&authuser=1

Coursera | Introdu... New Tab Gmail YouTube Maps New LL Stage Details Image gallery Puneet Pugalia Untitled0.ipynb Java JDK, JRE and J... Arduino Sending Se...

Prof. sampath is presenting

Active Online Attack: Dictionary Attack

- A dictionary file is loaded into the cracking application that runs against user accounts.
- This dictionary is the text file that contains a number of dictionary words that are commonly used as passwords
- This attack is applicable under two situations:
 - In cryptanalysis, to discover the decryption key for obtaining the plaintext from ciphertext
 - In computer security, to bypass authentication and access control mechanism of the computer by guessing passwords

PASSWORD
123456
123456789

In-call messages

Prof. sampath

VIRAL SONI_191118

SONALI SURYAW...

ITSA SFIT

PRANEEL MHATR...

ROGER DSOUZA_...

SAHIL PATEL_201...

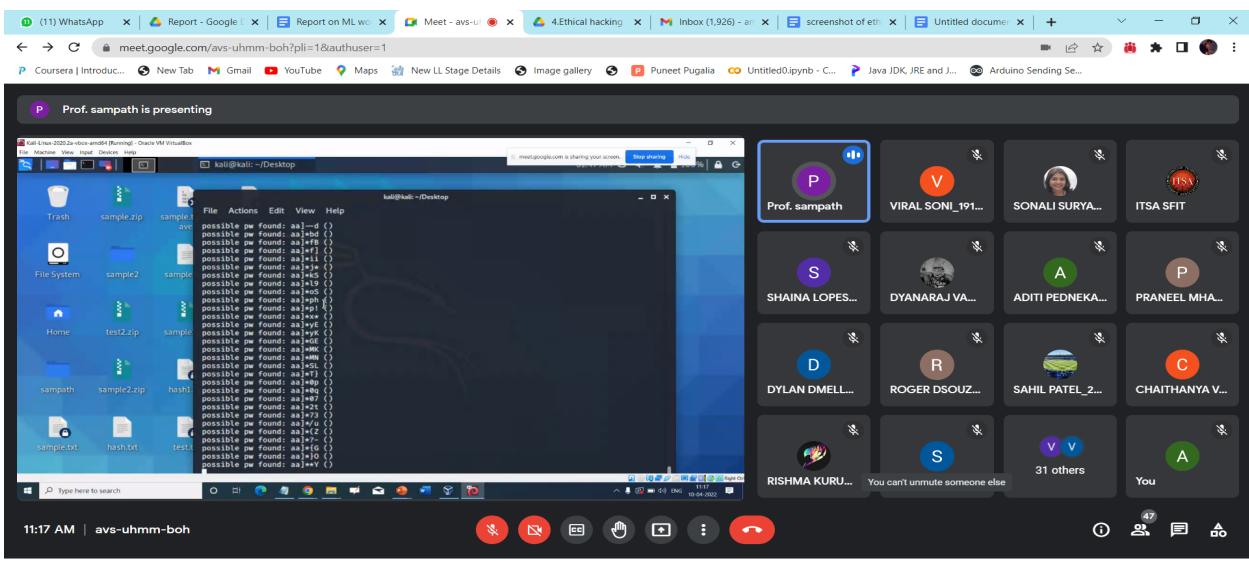
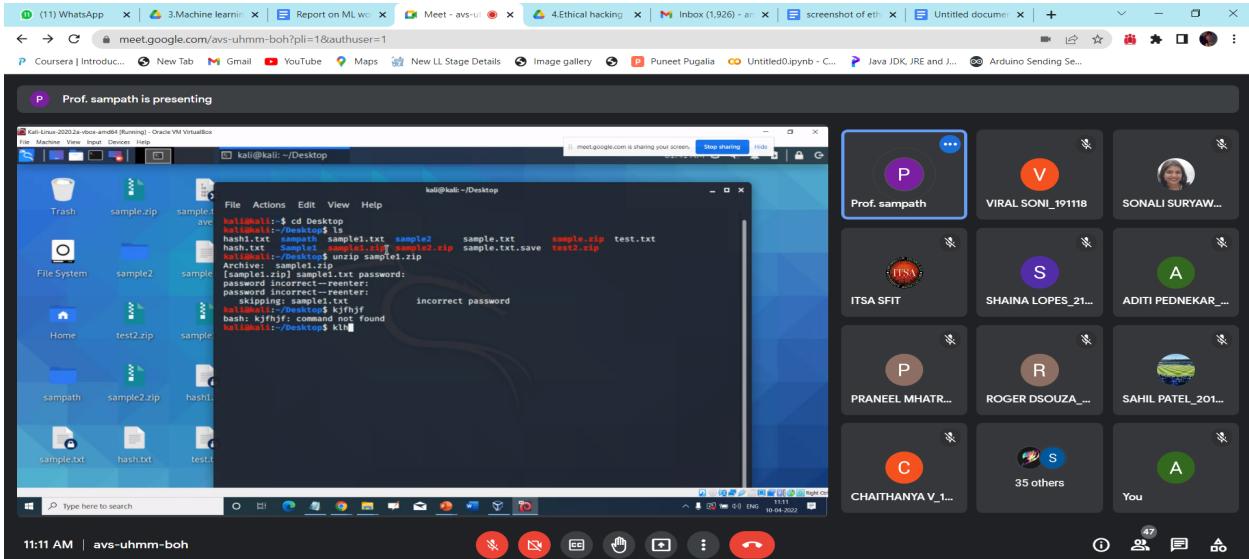
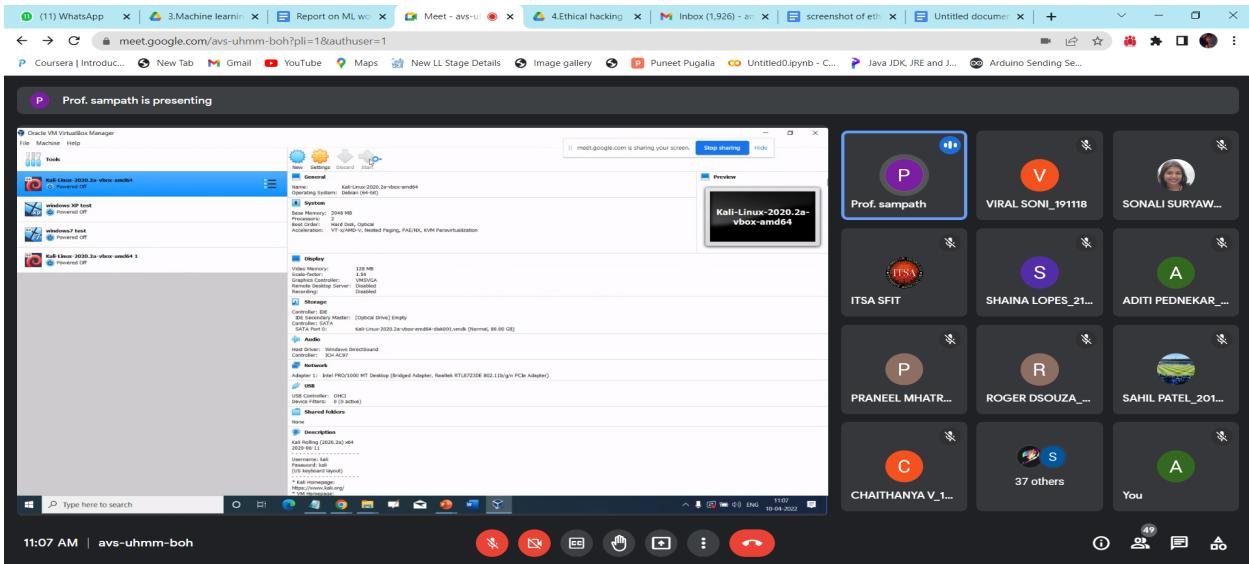
ADITYA GHADGE...

44 others

You

10:48 AM | avs-uhmm-boh

Vi.Doing password attack using virtual with the help of kali linux



Vii. Vote of thanks-

Prof. sampath is presenting

We Ship Worldwide!

Send Message to us

11:53 AM | avs-uhamm-boh

You're presenting to everyone

Stop presenting

11:58 AM | avs-uhamm-boh

11:58 AM | avs-uhamm-boh

11:58 AM | avs-uhamm-boh

11:58 AM | avs-uhamm-boh

C. Google Meet Attendance of Students:**i.Meet attendance-**

Participants	Joined	Left	Duration
NIDHI SAWANT_201101	4/10/2022 10:03:22	4/10/2022 12:02:01	01:58:39
AASHAY NARKAR_191076	4/10/2022 10:03:22	4/11/2022 12:02:01	01:58:39
AKSHANSH SHARMA_201002	4/10/2022 10:03:22	4/12/2022 12:02:01	01:58:39
AMARJIT GUPTA_191044	4/10/2022 10:03:22	4/13/2022 12:02:01	01:58:39
AMRITA MATHUR	4/10/2022 10:03:22	4/14/2022 12:02:01	01:58:39
ANUDNYA PATIL_191089	4/10/2022 10:03:22	4/15/2022 12:02:01	01:58:39
ARIF SHAIKH_203064	4/10/2022 10:03:22	4/16/2022 12:02:01	01:58:39
ASHNA KABSURI_191053	4/10/2022 10:03:22	4/17/2022 12:02:01	01:58:39
DEEP PATEL_191087	4/10/2022 10:03:22	4/18/2022 12:02:01	01:58:39
Dhruv Dave	4/10/2022 10:03:22	4/19/2022 12:02:01	01:58:39
HARSHKUMAR BHIKADIYA_191018	4/10/2022 10:03:22	4/20/2022 12:02:01	01:58:39
ITSA SFIT	4/10/2022 10:03:22	4/21/2022 12:02:01	01:58:39
KENCE LOPES_181062	4/10/2022 10:03:22	4/22/2022 12:02:01	01:58:39
PRANEEL MHATRE_201257	4/10/2022 10:03:22	4/23/2022 12:02:01	01:58:39
Prof. sampath	4/10/2022 10:03:22	4/24/2022 12:02:01	01:58:39
RANGEL KOLI_191057	4/10/2022 10:03:22	4/25/2022 12:02:01	01:58:39
RISHMA KURUMBOOR_201051	4/10/2022 10:03:22	4/26/2022 12:02:01	01:58:39
ROGER DSOUZA_191037	4/10/2022 10:03:22	4/27/2022 12:02:01	01:58:39
SONALI SURYAWANSHI	4/10/2022 10:03:22	4/28/2022 12:02:01	01:58:39
VEDANT PAWAR_191092	4/10/2022 10:03:22	4/29/2022 12:02:01	01:58:39
VIKAS CHAURASIYA_191023	4/10/2022 10:03:22	4/30/2022 12:02:01	01:58:39
VIRAL SONI_191118	4/10/2022 10:03:22	5/1/2022 12:02:01	01:58:39
WAHID SHAIKH_201263	4/10/2022 10:03:22	5/2/2022 12:02:01	01:58:39
ARYA DOSHI_191036	4/10/2022 10:20:53	5/3/2022 12:02:01	01:41:08

ASHLY JOHN_191051	4/10/2022 10:20:53	5/4/2022 12:02:01	01:41:08
Atharva Athalye	4/10/2022 10:20:53	5/5/2022 12:02:01	01:41:08
CHRISTINA NORONHA_191081	4/10/2022 10:20:53	5/6/2022 12:02:01	01:41:08
DERRICK D'ABREO_201251	4/10/2022 10:20:53	5/7/2022 12:02:01	01:41:08
DYLAN DMELLO_191032	4/10/2022 10:20:53	5/8/2022 12:02:01	01:41:08
JEET VARTAK_191122	4/10/2022 10:20:53	5/9/2022 12:02:01	01:41:08
JERIO SOARES_212110	4/10/2022 10:20:53	5/10/2022 12:02:01	01:41:08
LANISH FERNANDES_211034	4/10/2022 10:20:53	5/11/2022 12:02:01	01:41:08
Lian Dabre	4/10/2022 10:20:53	5/12/2022 12:02:01	01:41:08
MARIAM ABIDI_191127	4/10/2022 10:20:53	5/13/2022 12:02:01	01:41:08
NEEL MISTRY_201077	4/10/2022 10:20:53	5/14/2022 12:02:01	01:41:08
PARTH RAMBHIA_201094	4/10/2022 10:20:53	5/15/2022 12:02:01	01:41:08
PRATHAM MUCHHALA_201074	4/10/2022 10:20:53	5/16/2022 12:02:01	01:41:08
SAHIL PATEL_201086	4/10/2022 10:20:53	5/17/2022 12:02:01	01:41:08
SANIKA ACHARYA_191013	4/10/2022 10:20:53	5/18/2022 12:02:01	01:41:08
SHAINA LOPES_211061	4/10/2022 10:20:53	5/19/2022 12:02:01	01:41:08
SHASHANK KENY_201049	4/10/2022 10:20:53	5/20/2022 12:02:01	01:41:08
SONAL HOLANKAR_191251	4/10/2022 10:20:53	5/21/2022 12:02:01	01:41:08
VAIDEEHI NANIVADEKAR_211082	4/10/2022 10:20:53	5/22/2022 12:02:01	01:41:08
VIGHNESH MESTRY_211071	4/10/2022 10:20:53	5/23/2022 12:02:01	01:41:08
YACHI AGRAWAL_191015	4/10/2022 10:20:53	5/24/2022 12:02:01	01:41:08
ADITI PEDNEKAR_191093	4/10/2022 10:34:44	5/25/2022 12:02:01	01:27:17
CHAITHANYA V_191121	4/10/2022 10:34:44	5/26/2022 12:02:01	01:27:17
CHINMAY KATDARE_211054	4/10/2022 10:34:44	5/27/2022 12:02:01	01:27:17
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MEDHASHAKTI KHATRI_192057	4/10/2022 10:34:44	5/28/2022 12:02:01	01:27:17
PARTH MHATRE_201068	4/10/2022 10:34:44	5/29/2022 12:02:01	01:27:17
PRANAV DALVI_191028	4/10/2022 10:34:44	5/30/2022 12:02:01	01:27:17
PRATHAMESH UPADHYE_201090	4/10/2022 10:34:44	5/31/2022 12:02:01	01:27:17
PRIYA JAIN_211047	4/10/2022 10:34:44	6/1/2022 12:02:01	01:27:17
RAHUL BIYA_201012	4/10/2022 10:34:44	6/2/2022 12:02:01	01:27:17
SANIA DMELLO	4/10/2022 10:34:44	6/3/2022 12:02:01	01:27:17
TEJAS KASHID_201254	4/10/2022 10:34:44	6/4/2022 12:02:01	01:27:17
TWINKLE SALVIYA_201262	4/10/2022 10:34:44	6/5/2022 12:02:01	01:27:17
VAISHALI JADHAV	4/10/2022 10:34:44	6/6/2022 12:02:01	01:27:17
VIKAS RAI_211099	4/10/2022 10:34:44	6/7/2022 12:02:01	01:27:17
VINAY GURAV_211044	4/10/2022 10:34:44	6/8/2022 12:02:01	01:27:17
Jay Gupta	4/11/2022 10:34:44	6/9/2022 12:02:01	01:27:17

D. Workshop Feedback:

The response and feedback from the participants about the Ethical Hacking Workshop was very good and as per the feedback, this workshop proved to be very interactive and highly beneficial to develop to the students.

Student Feedback: [Not uploaded on drive till now]

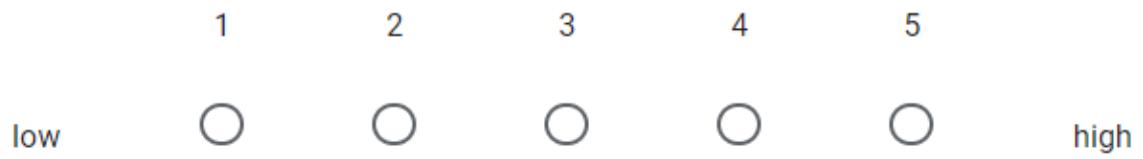
Resource Person Feedback:

[We have not yet received the feedback from the resource authority]

E. Results/ Impact Analysis:

Quiz Question paper:

Clarity on the impact of explanation provided along with experiences shared: *



How well were the concepts and examples covered? *



How well did the workshop reach up to your expectations? *



How interactive was the workshop? *



How helpful was the workshop for you? *

- Extremely helpful
- Very helpful
- Somewhat helpful
- Not so helpful

Would you recommend this workshop to others? *

- Yes
- No

Do you have any suggestions for future topics? *

Your answer

We would love to hear a one line response from you. :) *

Your answer

Result Analysis:

F. Certificate:



ST. FRANCIS INSTITUTE OF TECHNOLOGY

Mt. Poinsur, S.V.P Road, Borivli(West), Mumbai - 400103

Department of Information Technology

NBA Accredited upto 30/06/2022 DTE-3204

(Approved by AICTE & Govt. of Maharashtra with permanent Affiliation to University of Mumbai, ISO 9001:2015 Certified)



**INFORMATION TECHNOLOGY STUDENTS' ASSOCIATION
(ITSA)**

10th April, 2022

Certificate of Appreciation

The Information Technology Students' Association
would like to thank **Dr. Sampath A. K.** for his
valuable contribution in conducting the **Ethical Hacking Workshop**.

Mrs. Shree Jaswal
(ITSA Co-ordinator)

Mrs. Grinal Tuscano
(ITSA Co-ordinator)

Dr. Joanne Gomes
(HOD-INFT)

E.PR Messages and posters made:

Take notes 

Because ITSA brings you

ETHICAL HACKING

with **Dr. Sampath A.K**

Presidency University Bangalore 

Get ready to Learn all about the

Important tools of Ethical Hacking 

from an **Industry Expert** with an

Experience of 18 years and a **PhD in Machine Learning** 

 This Workshop is Compulsory for all IT Students from the *Ethical Hacking Elective*

When  10th April, Sunday. 10 am to 12 pm.

Where  Google Meet

Registration link: <https://bit.ly/EthicalHackingWS>

ITSA introduces you to its hands-on workshop on...



ETHICAL HACKING

BY Dr. Sampath A.K

**Professor CSE Department,
Presidency University Bangalore**

AGENDA OF THE WORKSHOP

- Important tools for Ethical Hacking



**SUNDAY
APRIL 10**



**TIME
10:00AM - 12:00PM**



GOOGLE MEET

Compulsory for TE Students with Ethical Hacking as their Elective Subject.



Mrs. Shree Jaswal	Mrs. Grinal Tuscano	Dr.Joanne Gomes
(ITSA Coordinator)	(ITSA Coordinator)	(HOD-IT)

Report made by: Mr.Amarjit Gupta, Ms.Nidhi Sawant