



**VIGNAN'S INSTITUTE OF MANAGEMENT AND
TECHNOLOGY FOR WOMEN**
(An Autonomous Institution)

[Sponsored by Lavu Educational Society, Affiliated to JNTUH & Approved by AICTE, New Delhi]
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301. Phone: 96529 10002/3



Guest Lecture On the Ethical Hacking

Date: 7th December-2024

Time: 07:30 PM to 09:30 PM

Mode: Online (via Google Meet)

Google meet Link: <https://meet.google.com/jnb-rise-usg>

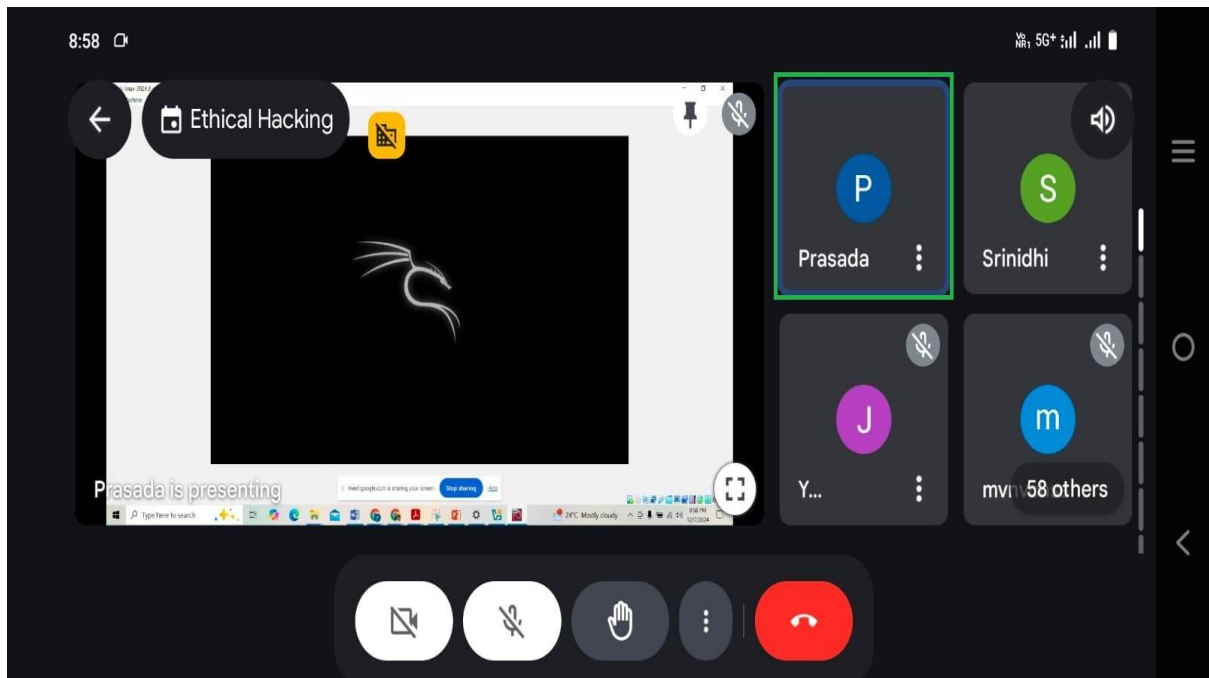
Organized by: IT Department, VMTW

Speaker: Dr. Karu Prasada Rao, GITAM University

Coordinator: Mr. S. Chandra Shekar

Overview:

On December 7th-2024, the AI & ML department of VMTW organized a highly informative online session on Ethical Hacking for the 3rd-year students. The session was conducted by **Dr. Karu Prasada Rao**, from GITAM University, a renowned expert in the field. The session ran from 07:30 PM to 09:30 PM and was hosted on the Google Meet platform, allowing students to join from the comfort of their homes.





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Password Management

Risks to weak passwords

- Brute-force attacks
- Educated guesses

Biometric (fingerprint or retinal scan-based) or two-factor authentication to mitigate these risks.

Password reuse is something to bear in mind while performing password attacks

Prasada is presenting

Prasada is presenting

Prasada

Srinidhi

You

mvnchss60 others



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The slide is titled "Understanding Ethical Hacking". It is divided into two main sections: "The Ethical Hacker's Role" and "The Significance".

The Ethical Hacker's Role

Ethical hackers are cybersecurity professionals who use their skills to identify and exploit vulnerabilities in systems and networks. They play a vital role in strengthening security by discovering weaknesses before attackers exploit them.

The Significance

Ethical hacking plays a critical role in protecting organizations from data breaches, ransomware attacks, and other cyber threats. By identifying vulnerabilities proactively, ethical hackers help businesses maintain compliance with security standards and safeguard sensitive information.

Prasada is presenting

The slide is titled "Types of Hackers: A Spectrum of Intent". It features an illustration of three hackers at the top. Below the illustration, the slide is divided into three columns: "White Hats", "Black Hats", and "Grey Hats".

White Hats

White hat hackers are cybersecurity professionals who are legally authorized to test and improve security. They are hired by organizations to conduct penetration testing and vulnerability assessments.

Black Hats

Black hat hackers are malicious actors who exploit vulnerabilities for personal gain or to cause harm. They engage in illegal activities such as stealing data, installing malware, and disrupting networks.

Grey Hats

Grey hat hackers fall somewhere in between. They may hack without authorization but often report the findings responsibly to the affected organizations.

Prasada is presenting

Topics Covered:

The session focused on crucial aspects of Ethical Hacking, providing an in-depth understanding of the following topics:

- 1. Understanding Ethical hacking**
- 2. The Ethical Hacker's Role :**
 - Ethical hackers are cyber security professional who use their sills to identify and exploit vulnerabilities in systems and networks.
 - The play a vital role in strengthening security by discovering weaknesses before attackers exploit them.
- 3. The significance:**



- Ethical hacking plays a critical role in protecting organizations from data breaches, ransomware attacks, and other cyber threats.
- By identifying vulnerabilities proactively, ethical hackers.

4. Types of hackers:

- **White Hats:** white hat hackers are cyber security professional who are legally authorized to test and improve security.
- **Black Hats:** Black hat hackers are malicious actors who exploit vulnerabilities for personal gain or to cause harm.
- **Grey Hats:** grey hat hacker's fall somewhere in between. They may hack without authorization

5. Phases of ethical hacking: A systematic Approach:

- Reconnaissance
- Scanning and Enumeration
- Gaining Access
- Maintaining Access
- Covering Tracks

6. Penetration Testing: Putting skills to the Test

- Black Box
- White Box
- Gray Box

7. Real world Examples: Ethical Hacking in Action

- **Tesla Bug Bounty:** Tesla invited ethical hackers to test the security of their vehicles and systems.
- **Facebook Breach:** facebook faced a major security breach when vulnerabilities were discovered in third-party apps.

Participation:

The session saw active participation from the 3rd-year AI & ML students. They engaged with the speaker through Q&A sessions, asking insightful questions and clarifying their doubts on the topics discussed.



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Conclusion:

The session on Ethical Hacking was a great success, enriching students with fundamental and advanced knowledge crucial for their academic and professional growth. The department extends its gratitude to **Dr. Karu Prasada Rao** for his expertise and valuable time. Special thanks to the coordinator, Mr. S. Chandra shekar, Asst Professor, and Dr. D.Shanthi, HOD Of IT for organizing and ensuring the smooth conduct of the session.

The students found the session immensely beneficial, gaining deeper insights into key networking concepts that will aid them in their studies and future careers in IT.

Co-Ordinator

HOD