

ATS Network Security and Ethical Hacking

[1.]Hacking Psychology

The next section will explain the purpose of ethical hacking and exactly what ethical hackers do. As mentioned earlier, ethical hackers must always act in a professional manner to differentiate themselves from malicious hackers. Gaining the trust of the client and taking all precautions to do no harm to their systems during a pen test are critical to being a professional.

- (1.)Concept of Ethical Hacking: Legal or illegal??
- (2.)Categories of Hackers(As per Knowledge)
- (3.)Categories of Hackers(As per Working)
- (4.)How to secure yourself from Attackers
- (5.)How to Stop Attackers
- (6.)Indian Cyber Law

[2.]E-Mails: Exploitation and Security

Forging an e-mailheader to make it appear as if it came from somewhere or someone other than the actual source. The main protocol that is used when sending e-mail -- SMTP -- does not include a way to authenticate. There is an SMTP service extension (RFC 2554) that allows an SMTP client to negotiate a security level with a mail server. But if this precaution is not taken anyone with the know-how can connect to the server and use it to send spoofed messages by altering the header information.

- (1.)What is an E-mail
- (2.)Working of E-mail
- (3.)Traveling of an E-Mail
- (4.)Email Servers
- (5.)E-mail Forgery and Spamming
- (6.)Security to Anonymous Mailing
- (7.)Attacks on E-Mail Password
- (8.) Securing the E-Mail Passwords
- (9.)Email Forensics

Typical email security products didn't. Phishing emails that link to infected websites cause many of today's information security breaches. Yet typical email security products use outdated methods from phishing's early days, when hackers attached viruses to emails. They can't catch blended email/web threats that can lead to malware infection. And they can't detect employee activities that can lead to data loss.

[3.] *Operating System Hacking & Security*

Hacking systems and planting and or sending malicious content are the two most performed actions by hackers. As an ethical hacker, it will be your responsibility to test systems against hacking and to be prepared for the different types of malicious content that hackers will try to get into your network environment. This course examines password cracking methodologies and tools, privilege escalation, rootkits, steganography and backdoor types and tools, and different types of viruses and worms and their countermeasures.

- 1. Introduction to System Software's**
- 2. Windows Security Components and Working**
- 3. Introduction to Virtual Machines**
- 4. Implementation of Virtualization**
- 5. Windows**
- 6. Linux**
- 7. Attacks on Windows Login Password**
- 8. Other Security Measure**
- 9. Windows Inbuilt Flaws and Security Loopholes**
- 10. Invading into Computer System**
- 11. Optimizing Windows Computer System**
- 12. Restrict Hackers into box**

A technical background with a solid understanding of networks and networking concepts, such as IP, IP Routing, and LAN Switching, as well as Windows and/or UNIX/LINUX operating systems.

[4.] *Malwares: Trojan, Viruses & Worms*

Malware, short for **malicious software**, is software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of code, scripts, active content, and other software. Malware' is a general term used to refer to a variety of forms of hostile or intrusive software.

Named after the Trojan Horse of ancient Greek history, a **Trojan** is a network software application designed to remain hidden on an installed computer. Trojans generally serve malicious purposes and are therefore a form of **Malware**, like viruses.

- 1. What are malwares?**
- 2. Trojan**
- 3. Trojan Attack Methods**

- 4. Some Well Known Trojans**
- 5. Detection of Trojan**
- 6. Viruses**
- 7. Working and Functionality of Viruses**
- 8. Development**
- 9. Development of Folder lockers**
- 10. Registry tweaks and Tricks**
- 11. Developing Professional Security too**
- 12. Detection and Manual Removal**

A **computer virus** is a type of malware that, when executed, replicates by inserting copies of itself (possibly modified) into other computer programs, data files, or the boot sector of the hard drive; when this replication succeeds, the affected areas are then said to be "infected".

A **computer worm** is a standalone malware computer program that replicates itself in order to spread to other computers. Often, it uses a computer network to spread itself, relying on security failures on the target computer to access it. Unlike a computer virus, it does not need to attach itself to an existing program. Worms almost always cause at least some harm to the network, even if only by consuming bandwidth, whereas viruses almost always corrupt or modify files on a targeted computer.

[5.] Attacks Related to Network & Security(LAN/WLAN)

Network security consists of the provisions and policies adopted by a network administrator to prevent and monitor unauthorized access, misuse, modification, or denial of a computer network and network-accessible resources. Network security involves the authorization of access to data in a network, which is controlled by the network administrator. Users choose or are assigned an ID and password or other authenticating information that allows them access to information and programs within their authority.

- 1. Introduction to the LAN(Local Area Networks)**
- 2. Back-Track: Penetration Tool**
- 3. Secure Network Configuration**

Security management for networks is different for all kinds of situations. A home or small office may only require basic security while large businesses may require high-maintenance and advanced software and hardware to prevent malicious attacks from hacking and spamming.

[6.] Web Server Attacks & Security

The HTTP (or HTTPS) protocol is the standard that makes it possible to transfer web pages via a request and response system. Mainly used to transfer static web pages, the web has quickly become an interactive tool making it possible to provide on-line services. The term "web application" refers to any application whose interface can be accessed on the web from a simple browser. Now the basis for a certain number of technologies (SOAP, Javascript, XML-RPC, etc.), the HTTP protocol plays an undeniable strategic role in information system security.

- 1. Introduction to Web Application Security**
- 2. Understanding Attack Vectors**
- 3. Web Application Attacks**
- 4. SQL Injection**
- 5. Google Dorks – Using Google as an Expert**
- 6. Cross Site Scripting: XSS**
- 7. Directory Traversal Attacks**
- 8. Putting breaks on Web Application attacks**

- 9. Mozilla Firefox as a Hacking tool**
- 10. Bypassing Proxy – Intermediate**
- 11. Using Google as Proxy**
- 12. Remote File Inclusion for Opening Blocked Websites**
- 13. Creating your Own Proxy Server**

Attacks on web applications are always harmful since they give the company a bad image. A successful attack can have any of the following consequences:

- Website defacement;
- Stolen information;
- Modification of data, and particularly modification of users' personal data
- Web server intrusion.

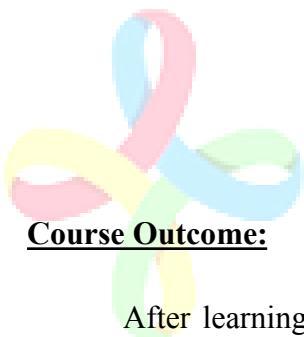
[7.]Software Reverse Engineering and Attacks on Demand

Software Reverse Engineering (SRE) is the practice of analyzing a software system, either in whole or in part, to extract design and implementation information. A typical SRE scenario would involve a software module that has worked for years and carries several rules of a business in its lines of code. Unfortunately the source code of the application has been lost; what remains is "native" or "binary" code. Reverse engineering skills are also used to detect and neutralize viruses and malware, as well as to protect intellectual property. It became frighteningly apparent during the Y2K crisis that reverse engineering skills were not commonly held amongst programmers.

- 1. What is Reverse Engineering**
- 2. Software – Definition**
- 3. Disassembling the Software's**
- 4. Software Cracking & Serial Key Phishing**

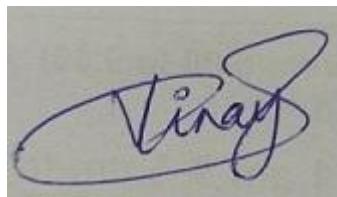
- 5. Software Patching**
- 6. Applying Application Security**
- 7. Attacks on Demand**

Since that time, much research has been undertaken to formalize just what types of activities fall into the category of reverse engineering so that these skills could be taught to computer programmers and testers. To help address the lack of software reverse engineering education, several peer-reviewed articles on software reverse engineering, re-engineering, reuse, maintenance, evolution, and security were gathered with the objective of developing relevant, practical exercises for instructional purposes. The research revealed that SRE is fairly well described and most of the related activities fall into one of two categories: software development-related and security-related.



After learning this course students will be aware with the term Hacking with its real perspective ie Ethical and Non-Ethical and this course would help them in making career in Cyber Security and Hacking which is the need of the time.

ATS—Learning Solutions



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| 2019/07/29 10:22:51 AM GMT+5:30 | Afsana mehkere | SYBScIT | 97 | Data Science with Python | 7710920929 | afsaname | 7738665237 choudhar |
| 2019/07/29 10:23:06 AM GMT+5:30 | Biswajit das | FYBScIT | 12 | Mobile Programming | 7045760719 | yoyobisu | 8169355372 |
| 2019/07/29 11:42:59 AM GMT+5:30 | Tejas Asadekar | SYBScIT | 2 | Data Science with Python | 8433793414 | tejas12as | 7738834492 |
| 2019/07/29 1:18:41 PM GMT+5:30 | Junaid Malik | FYBScIT | 37 | Network Security | 9137533633 | Jd.malik2 | 9867373795 ayesham: |
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| 2019/07/29 3:39:17 PM GMT+5:30 | Mohd Atik Shaikh | SYBScIT | 40 | Data Science with Python | 9619093223 | atiks209€ | 9920267412 laiks1502 |
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| 2019/07/29 7:34:52 PM GMT+5:30 | Omkar More | FYBScIT | 41 | Data Science with Python | 9930004203 | omkarmc | 9892476447 yashwant |
| 2019/07/29 8:09:42 PM GMT+5:30 | Rakshit Kotian | SYBScIT | 24 | Data Science with Python | 8169092032 | kotianrak | 9821907695 |
| 2019/07/29 9:39:13 PM GMT+5:30 | Satish Diwakar | SYBScIT | 10 | Data Science with Python | 9769839408 | sattudiw: | 9372036124 diwakars |
| 2019/07/29 10:36:12 PM GMT+5:30 | Jay Balwant Saharkar | FYBScIT | 144 | Data Science with Python | 8850517641 | gauravsal | 9619637062 |
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| 2019/07/30 8:24:43 AM GMT+5:30 | Shruti singh | FYBScIT | 75 | Data Science with Python | 9930195711 | lamanisir | 9833059801 |
| 2019/07/30 10:06:38 AM GMT+5:30 | Shrayansh dubey | FYBScIT | 100 | Network Security | 9167155184 | Dubeyshi | 9695136519 tiwariary: |
| 2019/07/30 10:10:00 AM GMT+5:30 | Vinayak Santosh Ubale | FYBScIT | 83 | Network Security | 8433583263 | vinayakul | 7506912030 |
| 2019/07/30 10:10:20 AM GMT+5:30 | Vinayak Santosh Ubale | FYBScIT | 83 | Network Security | 8433583263 | vinayakul | 7506912030 |
| 2019/07/30 3:00:57 PM GMT+5:30 | Shaikh Tooba Abdullah | FYBScIT | 63 | Data Science with Python | 9029322499 | tooba.a.s | 9224226609 bushra.a. |
| 2019/07/30 3:01:33 PM GMT+5:30 | Nidhi Dayanand Shetty | FYBScIT | 68 | Data Science with Python | 8108216828 | shettynid | 8850632853 |
| 2019/07/30 3:49:43 PM GMT+5:30 | Rohan Deepak Jadhav | FYBScIT | 113 | Data Science with Python | 9867913180 | jadhavrol | 9833002439 |
| 2019/07/30 6:10:03 PM GMT+5:30 | Anam Alam Siddique | FYBScIT | 71 | Network Security | 9769385076 | siddiquea | 9769385076 |
| 2019/07/30 8:25:13 PM GMT+5:30 | Roshan Suresh Gagare | SYBScIT | 11 | Data Science with Python | 9167227235 | roshanga | 9594184775 |
| 2019/07/30 9:32:51 PM GMT+5:30 | Bhandary Jayesh | FYBScIT | 180 | Network Security | 8691995878 | agbhand | 8691995878 |
| 2019/07/31 7:32:53 AM GMT+5:30 | Siddiqui Mohd Jamal | FYBScIT | 157 | Network Security | 7738138491 | siddjama | 9221149501 siddshah |
| 2019/07/31 7:33:48 AM GMT+5:30 | Wasim ahmed chaudhary | FYBScIT | 94 | Network Security | 9082351849 | achaudh | 9920798563 achaudha |
| 2019/07/31 3:19:51 PM GMT+5:30 | vasanti todakar | FYBScIT | 0 | Data Science with Python | 8928456675 | vasantipa | 8928456675 vasantipa |
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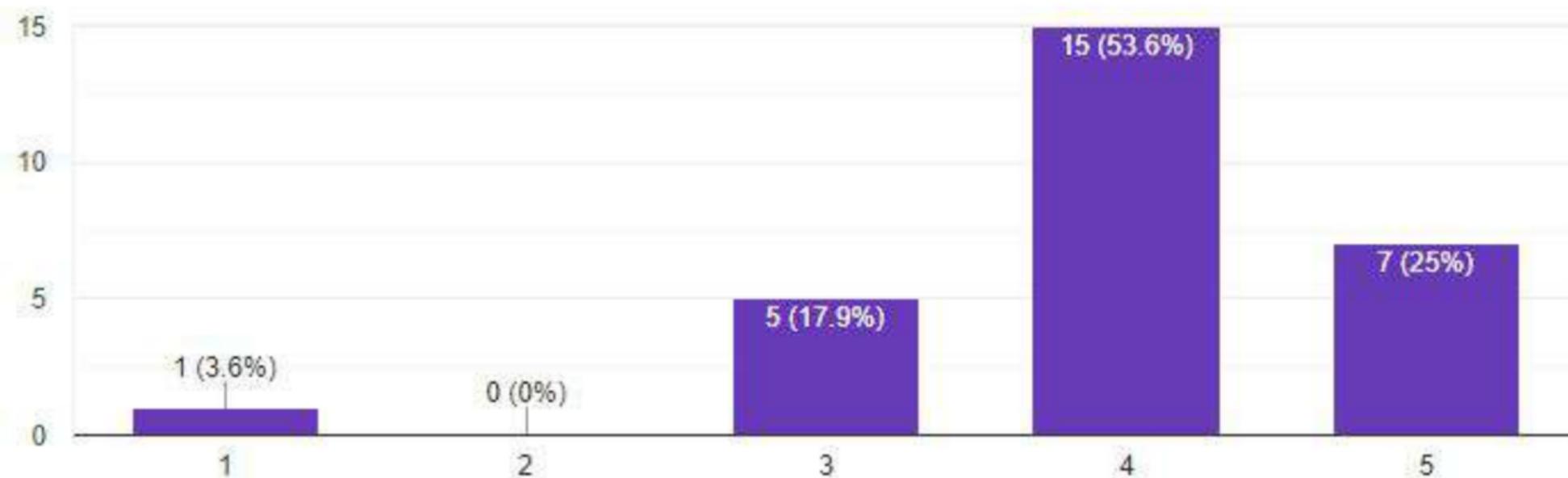
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| 2019/07/31 10:13:14 PM GMT+5:30 | Rahul Sanjay Singh | FYBScIT | 160 | Network Security | 7039609452 | djayrahul | 8928567504 rohitisngl |
| 2019/08/01 8:11:24 AM GMT+5:30 | KARTHIK K SHETTY | SYBScIT | 114 | Data Science with Python | 7718089621 | karthiksh | 7718089621 |
| 2019/08/01 10:00:00 AM GMT+5:30 | Mayur solim | FYBScIT | 76 | Network Security | 9326753098 | mayursol | 7506535508 mayursol |
| 2019/08/01 10:38:40 AM GMT+5:30 | Khan kaneez sughra | SYBScIT | 91 | Data Science with Python | 7506081071 | Khankani | 8104034539 Subikhan |
| 2019/08/01 12:24:23 PM GMT+5:30 | Naseema safat ahmed | SYBScIT | 103 | Data Science with Python | 7738665237 | choudhai | 9324386023 afsaname |
| 2019/08/01 12:24:55 PM GMT+5:30 | Mohit sharma | FYBScIT | 64 | Network Security | 7310317731 | smrp272 | 7310317731 |
| 2019/08/01 12:43:13 PM GMT+5:30 | Mandar Parab | SYBScIT | 32 | Data Science with Python | 9987356965 | mandarp | 9967119234 mandarp |
| 2019/08/01 1:00:51 PM GMT+5:30 | Allen Bradley | FYBScIT | 3 | Network Security | 7045109284 | allenbrac | 9920381975 Peter@jo |
| 2019/08/01 1:18:01 PM GMT+5:30 | Tooba Abdullah Shaikh | FYBScIT | 63 | Network Security | 9029322499 | tooba.a.s | 9224226609 bushra.a. |
| 2019/08/01 1:27:30 PM GMT+5:30 | Abhijeet Sharma | FYBScIT | 150 | Network Security | 9082580733 | abhijeetr | 7977864632 Sonnyswe |
| 2019/08/01 1:27:32 PM GMT+5:30 | Harman Singh Nagpal | FYBScIT | 74 | Network Security | 9820009920 | harmansi | 919820119920 |
| 2019/08/01 1:27:48 PM GMT+5:30 | Snehal Anil Jadhav | FYBScIT | 114 | Network Security | 9082201903 | jadhavsn | 8454020539 |
| 2019/08/01 1:27:53 PM GMT+5:30 | Junaid Malik | FYBScIT | 37 | Network Security | 9137533633 | jd.malik2 | 9820437795 ayesham: |
| 2019/08/01 1:32:28 PM GMT+5:30 | Nikhil Yamnaji Abhale | FYBScIT | 2 | Network Security | 9082518561 | nikhilabh | 9082518561 |
| 2019/08/01 1:39:47 PM GMT+5:30 | Roshan Salunke | FYBScIT | 60 | Network Security | 7900100652 | salunker2 | 9029051260 |
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| 2019/08/01 1:45:35 PM GMT+5:30 | Mohammed junaid naved ansari | FYBScIT | 4 | Network Security | 9702880514 | Junnuans | 9702880514 |
| 2019/08/01 1:49:35 PM GMT+5:30 | Tejas dilip more | FYBScIT | 42 | Network Security | 9867410824 | Moreteju | 9326163218 Tejasmor |
| 2019/08/01 1:55:30 PM GMT+5:30 | Sumit choudhary | FYBScIT | 98 | Network Security | 9892246603 | csumit41 | 9969443141 |
| 2019/08/01 2:03:25 PM GMT+5:30 | Samruddhi Sawant | FYBScIT | 185 | Network Security | 9220501662 | samrudd | 9987197718 v_sawant |
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| 2019/08/01 2:19:44 PM GMT+5:30 | Prashant gupta | FYBScIT | 22 | Network Security | 7977188125 | Pg52304 | 9167072846 |
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| 2019/08/01 5:22:02 PM GMT+5:30 | Ayush | FYBScIT | 11 | Network Security | 9967690768 | ayushch0 | 9967690768 ayushch0 |

| | | | | | | | | |
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| 2019/08/01 5:57:32 PM GMT+5:30 | Harish Seenivasan | SYBScIT | 14 | Network Security | 9326430664 | Seenivasan | 9326430664 | Seenivasan |
| 2019/08/01 7:01:03 PM GMT+5:30 | Nandini Mahapatra | FYBScIT | 36 | Network Security | 9082935318 | nandinim | 9833558963 | sb_maha |
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| 2019/08/01 7:03:25 PM GMT+5:30 | Pratham Thakulla | FYBScIT | 165 | Network Security | 9082390209 | prathamthakulla | 9322941537 | |
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| 2019/08/01 7:53:35 PM GMT+5:30 | Shiva Pradhan | FYBScIT | 56 | Network Security | 99873 | 43439 | shivapracharya | 95946 75550 |
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| 2019/08/01 8:44:18 PM GMT+5:30 | Shaikh MD Faizaan Abdul Kareem | FYBScIT | 149 | Network Security | 9967786665 | sfaizan97 | 9773217867 | abdulkareem |
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| 2019/08/01 9:17:25 PM GMT+5:30 | Jashika Jaya Moolya | FYBScIT | 182 | Network Security | 9969743332 | /9969743339 | jashikajaya | 9869932127 |
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| 2019/08/01 9:57:20 PM GMT+5:30 | Shubham Yadav | FYBScIT | 90 | Network Security | 8767858527 | anandshu | 9022458527 | sushil902 |
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| 2019/08/02 6:56:54 AM GMT+5:30 | ARJOON SURENDRA PANDA | FYBScIT | 50 | Network Security | 8286765921 | rockypan | 8369770294 | |
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| 2019/08/02 7:08:12 AM GMT+5:30 | Tejas dilip more | FYBScIT | 42 | Network Security | 9867410823 | Moreteju | 9326163218 | Tejasmore |
| 2019/08/02 8:25:05 AM GMT+5:30 | Shruti singh | FYBScIT | 75 | Network Security | 9930195711 | lalmanishi | 9833059801 | |
| 2019/08/02 9:12:24 AM GMT+5:30 | Tanish Kapoor | SYBScIT | 89 | Network Security | 9920872032 | tanishkapoor | 9820160946 | |
| 2019/08/02 8:27:57 PM GMT+5:30 | Adil Abubakkar Siddique | FYBScIT | 156 | Network Security | 9082088583 | adilsiddic | 9833870408 | rafiyaa62 |
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| 2019/08/02 11:56:09 PM GMT+5:30 | Nitesh.Laxminarayan.Barkuntla | SYBScIT | 76 | Network Security | 9967889877 | niteshbai | 9152861610 | |
| 2019/08/03 4:08:56 PM GMT+5:30 | Shruti Devadiga | SYBScIT | 9 | Data Science with Python | 7738237532 | shruti.de | 8169461400 | lalithadev |
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| 2019/08/03 10:28:18 PM GMT+5:30 | Jeet Thakkar | SYBScIT | 64 | Data Science with Python | 9619684324 | thakkar.jeet | 9619684324 | thakkar.jeet |
| 2019/08/04 8:29:16 PM GMT+5:30 | Gautam Mewada | TYBScIT | 85 | Data Science with Python | 7045189445 | gtmewad | 917045189445 | |
| 2019/08/05 8:07:23 AM GMT+5:30 | Pravin laxman jadhav | SYBScIT | 84 | Data Science with Python | 9702640439 | Pravijadh | 9869251957 | Jadhavraj |
| 2019/08/05 1:30:01 PM GMT+5:30 | Pankaj gupta | SYBScIT | 12 | Data Science with Python | 7303040052 | Pankajsk | 8692866065 | |

Did you find the trainer knowledgeable? (Select 1 for least and 5 for max).



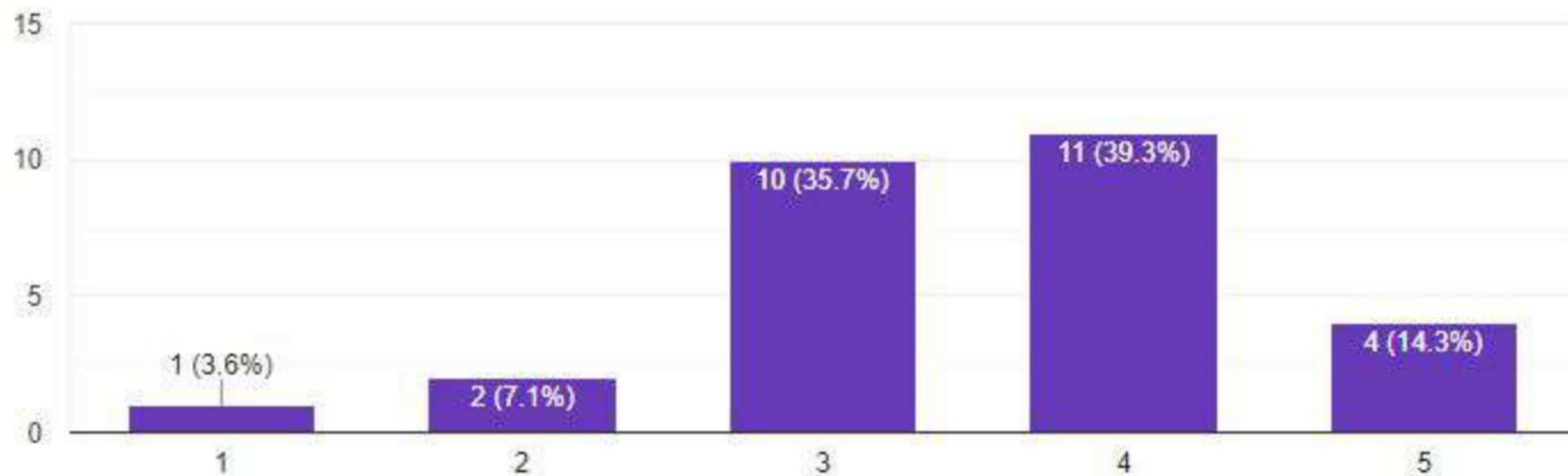
28 responses



How did you find the session? (Select 1 for least and 5 for max).



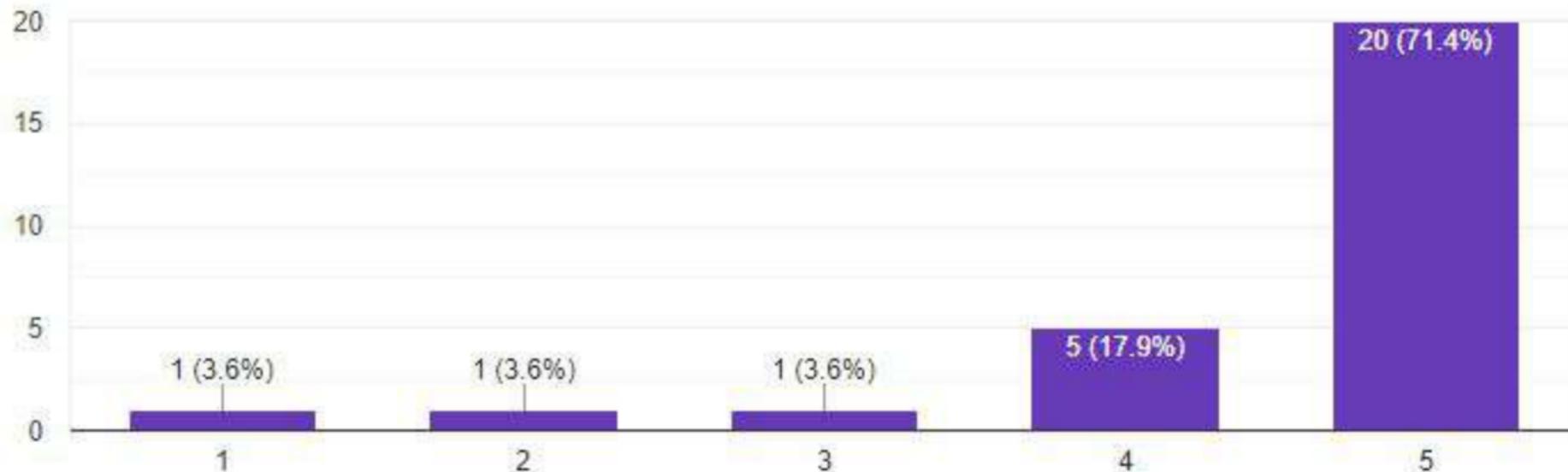
28 responses



Was the lab well equipped with softwares and was working properly? (Select 1 for least and 5 for max).



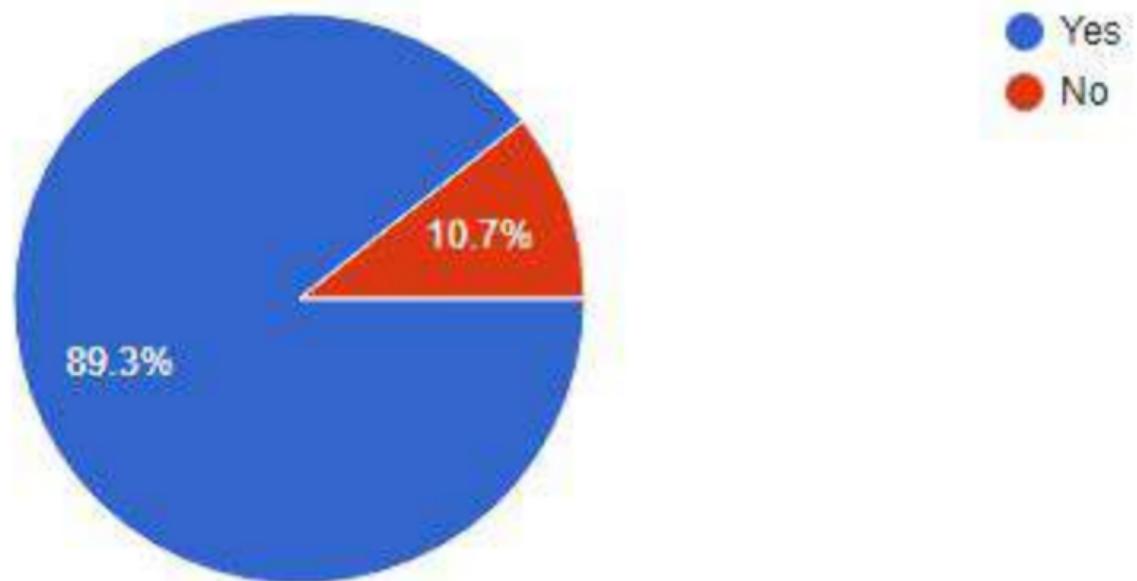
28 responses



Would you like to have such training in future?



28 responses



Microsoft Certification Network Security Training Programme Report

The B.Sc. IT Department & Placement Cell of S. M. Shetty College has organized a certification programme in **Network Security** of Microsoft Certified Programmer which is conducted by Microsoft AER|ATS InfoTech Pvt. Ltd. For B. Sc. IT Students.

The training programme is attended by 40 students benefitting participants with this programme, which will help them to get Microsoft Certification after exam.

From Microsoft AER|ATS InfoTech Pvt. Ltd. Mr. Jai Choudhary (Sr. Subject Matter Expert) has given the training. The training is conducted for 5 Sundays (01st September 2019 to 29th September 2019), every day for 6 hours.



Course Convenor

Dept Co-ordinator

Principal

(Mr Vinay Vilas
Shahapurkar)

(Dr Tushar V Sambare)

(Dr Sridhara Shetty)

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ollo123@gmail.com
@gmail.com
@gmail.com
@gmail.com
nky@gmail.com

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21329187@gmail.com
vishnuprasad@gmail.com
irth666@gmail.com
irth666@gmail.com
eet05@gmail.com

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idaliar8@gmail.com

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.3@gmail.com

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1010102@gmail.com

shete165@gmail.com

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jan58@gmail.com

i30@gmail.com

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sem65.ak@gmail.com

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set05@gmail.com

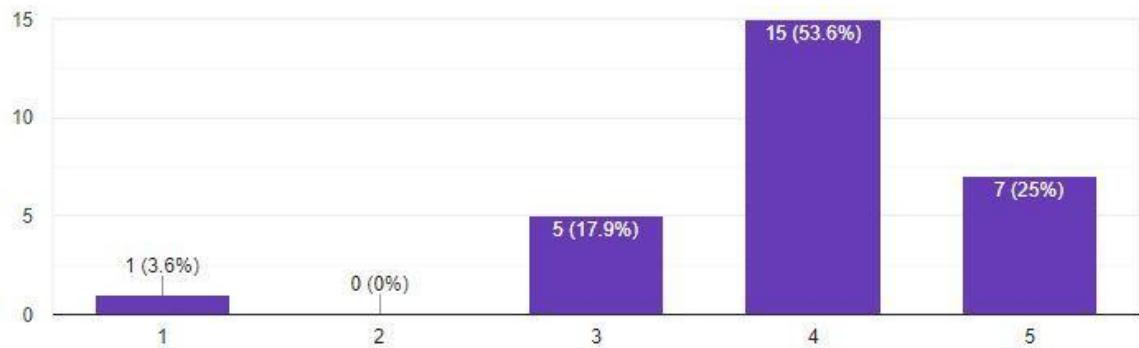
je42161@gmail.com

Feedback Analysis for Network Security

Did you find the trainer knowledgeable? (Select 1 for least and 5 for max).



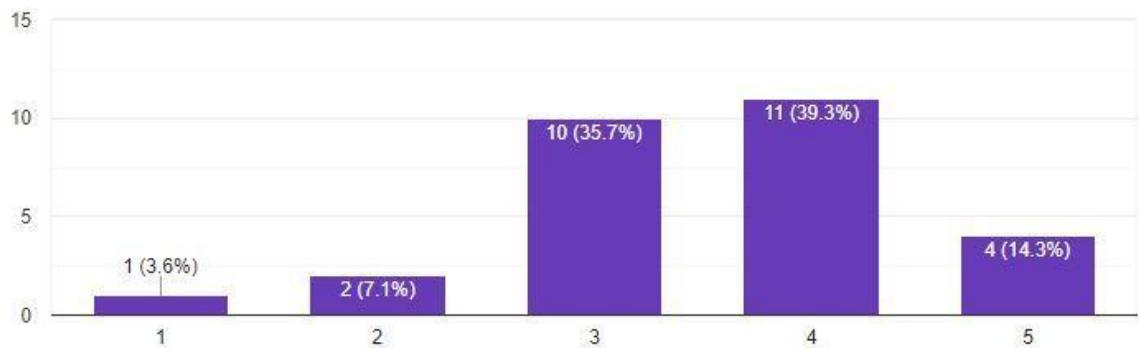
28 responses



How did you find the session? (Select 1 for least and 5 for max).

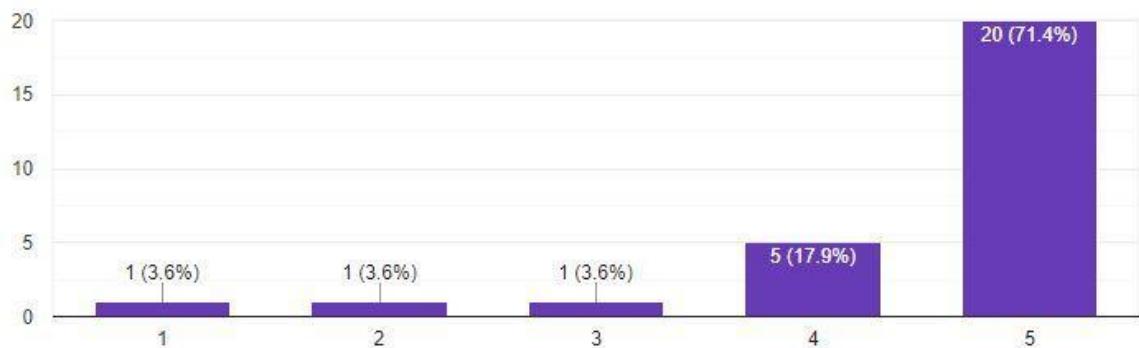


28 responses



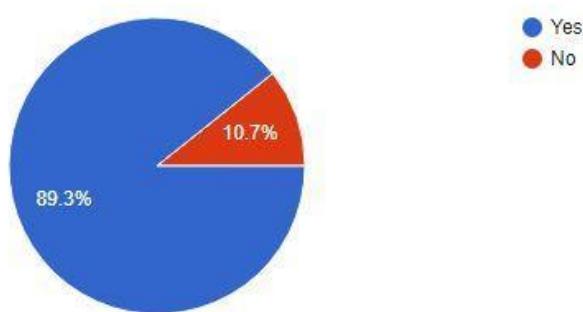
Was the lab well equipped with softwares and was working properly? (Select 1 for least and 5 for max).

28 responses



Would you like to have such training in future?

28 responses

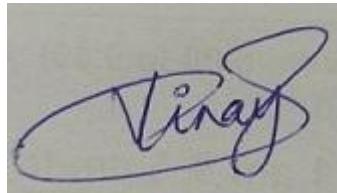


Action Taken Report

Considering the feedback of students, it was found that the instructor was not up to the expectations of the students and also contents of the course was not clear as it was based on using tools and not developing the tools using any programming language.

To resolve the problem department made sure that students will be satisfied with course and also they will be made to develop small tools using any programming language.

Also the feedback was shared with the concerned person of ATS Infotech and it was assured students will not be having any problem with the course and its structure in future.



Course Convenor

(Mr Vinay Vilas
Shahapurkar)



Dept Co-ordinator

(Dr Tushar V Sambare)



Principal

(Dr Sridhara Shetty)