



**Sarvajani College of Engineering and Technology**  
Surat, Gujarat  
Electronics & Communication Engg. Department  
Re-Accredited by NBA New Delhi, w.e.f 1 July 2019



## **Workshop series** **On** **Ethical Hacking and Security**

In Association with entity of AICTE

### **SPICES**

Scheme for Promoting Interest, Creativity and Ethics among Students  
and

### **IETE**

Institution of Electronics and Telecommunication Engineers

under the banner of

### **WiSE Club**

Wireless, Signal and Embedded Technology Club

### **SCET, Surat**

### **Faculty Coordinators**

Dr. Dhiren Bhagat  
Prof. Chintan Panchal

### **Student Coordinators**

Aarya Shah  
Neel Parekh

### **Speaker**

Mr. Arpit Maheshwari  
ShreeTech Solutions, Delhi

### **Dates**

29<sup>th</sup> Sept. to 1<sup>st</sup> Oct. 2022

### **Venue**

AV Room, EC Department, SCET, Surat

## ❖ About SCET College, EC Department and WiSE Club:

SCET being one of the Institutes of the biggest Philanthropic Society- Sarvajanic Education Society of the Country has a strong base of values and commitments to create a progressive civilization. SCET located in the heart of the city presently enrolls more than 2000 students in various disciplines of Engineering and MCA where-in we run 9 UG courses and 5 PG courses. College is led by Honorable Principal, Dr. Hiren Patel.

The Department of Electronics & Communication was established in the year 1995. EC department is Re-Accredited by NBA New Delhi, w.e.f 1 July 2019. At present the Department is offering Undergraduate Program in the field of Electronics and Communication as well as Post Graduate program in the field of Communication Systems. The departmental facilities including latest laboratory equipment's in the domain of embedded system and robotics, communication kits and modules, fiber optic kits, microwave bench etc. enabled the department to be a front-runner amongst Institutes offering courses in Electronics and Communication. The curriculum is based on latest views as needed by industries and research departments. EC Department is led by respected HoD, Dr. Nehal Shah

**WiSE Club** is Wireless, Signal and Embedded Technology Club functioning at EC Department, SCET. WiSE club is associated with **SPICE** entity of **AICTE** which is **Scheme for Promoting Interest, Creativity and Ethics among Students**. Dr. Dhiren Bhagat and Prof. Chintan Panchal are coordinating the WiSE club activities. Aarya shah and Neel Parekh being student's coordinator of the WiSE club.

## ❖ About Workshop:

Workshop on Ethical Hacking and Security, 2022 was organized In Association with entity of **AICTE-SPICES** which is **Scheme for Promoting Interest, Creativity and Ethics among Students** and **IETE** Institution of Electronics and Telecommunication Engineers, Surat under the banner of **WiSE Club** which is Wireless, Signal and Embedded Technology Club, functioning at EC Department, SCET, Surat.

### Objective:

The main objective/motive of the workshop was to spread awareness amongst the students in the domain of ethical hacking and security.

### Duration:

3 Days workshop  
29<sup>th</sup> Sept. to 1<sup>st</sup> Oct., 2022.

**Venue:**

AV Room, EC Department, SCET, Surat

**Participants:**

Around 45 students from different engineering departments and MCA, SCET and students from B.Sc. IT, M.Sc. IT from SRKI College registered themselves as participants. Also few students participated from nearby government engineering college GEC, Surat.

**Coordinating Team:**

Patron: Principal, Dr. Hiren Patel, SCET

HoD: Head, Dr. Nehal Shah, EC Department, SCET

Faculty Coordinators: Dr. Dhiren Bhagat, Prof. Chintan Panchal

Student Coordinators: Aarya Shah, Neel Parekh, Palaksha Raskapoorwala, Abnob Bhanu and Muskan Jawahar

**Speaker:**

Mr. Arpit Maheshwari  
Co-Founder-Shree Tech Solutions (STS)

Mr. Arpit is Co-Founder of STS and working as an Information Security Professional, Trainer and Public Speaker for several Organizations (Null Meet/ OWASP Delhi chapter, Peerlyst/Cyberfrat Delhi Chapter, OpenSource Delhi Chapter, Indohora Galaxy Pvt. Ltd., CMC Ltd. (TCS Subsidiary), Mile2-India, Innobuzz Solutions, Dalvardhan Systems, Altran, KK Modi International Stratford University, ATOS, Hidden Pix, Kvch, Mercury Solutions etc.). After acquiring his Bachelor of Technology degree, he moved into the “Information Security” domain. He started his journey in this field in 2009.

STS works in the areas of InfoSec, Domains, Hosting, SSL, Data-Recovery solutions, SMS solutions, Web Vulnerability Assessment & Penetration Testing (VAPT), VA Tools Licensing, Website Development/Designing, ERP etc. STS is also associated with Dot Desi Domain Registry and other 70+ Brands.

**Content:**

1. Hacking & Ethical Hacking Introduction
  - Cyber Security
  - Why & Need for Security

- ROI of Cyber Security
- 2. OSINT Framework
  - Getting Started
  - Data Collection
  - About Sock Puppet
  - Search & Reverse search
  - Open Source Intelligent Framework
- 3. Google Dorking
  - Smart Google Using
  - Learning Google Operators
  - Searching for Juicy Information
  - Checking for Passwords
- 4. Identity Masking
  - Masking your IP
  - Masking MAC
  - Masking Browser Identity
  - Masking Time & Time Zone
  - Call masking
- 5. Shodan | Dark Web
  - Shodan Search Engine
  - What is the difference b/w Shodan and Google?
  - Using Shodan
  - Searching for Juicy Info.
  - Onion Routing and search engine
- 6. Metasploit
  - Start Metasploit
  - Basics n Working
  - Working with Exploits Payloads Shell
  - Exploiting System
  - Meterpreter
- 7. Web App Sec
  - Web Testing Framework
  - SQL injection
  - XSS
  - CSRF
  - Clickjacking
- 8. Buffer Overflow
  - What is Memory
  - What is a Buffer memory
  - Running C Program
  - Exploiting C Code
- 9. Ruby on Rails Security
  - Injection in Rails
  - CSRF in Rails

- Limiting Rack Attack
- 10. Reverse Engineering (Breaking Software Security)
  - Converting trial version to full version
  - Break MS Excel Editing Blocked by password

### **Day wise proceedings of workshop:**

#### **DAY – 1: Ethical Hacking Torque**

First day started with, introduction speech given by Aarya Shah, student coordinator of WiSE club which was about the workshop and speaker Mr. Arpit Maheshwari. Mr. Speaker was welcomed by bouquet of flowers. It was followed by the speech of Dr. Dhiren Bhagat, Coordinator WiSE Club. He delivered motivating words to the participants and enlightened a spark of enthusiasm in them. The workshop started with fundamentals of ethical hacking and security aspect.

Mr. Arpit provided introduction along with the scope and importance in the domain of hacking. He covered topics like Hacking & Ethical Hacking Introduction, OSINT Framework, Google Dorking, Identity Masking and explain them in detail. He also demonstrated many things related to topics and went for possible live demonstrations even to give participants a real time feel. Hands on practice was also provided to students on said topics. All students interacted well with speaker and cleared their doubts at the end of the session.

At the end of the session, online quiz was conducted through google form based on the topics covered in session. Also online feedback was collected through google form mean only. Quiz and feedback sessions were designed and handled by student coordinating team of workshop consists of Palaksha Raskapoorwala, Abnob Bhanu and Muskan Jawahar.

Depending on quiz result and participation performance in workshop, Day 1 quiz winner declared to be **Khushboo Jha** from EC Department, SCET.

#### **DAY – 2: Ethical Hacking Throttle**

Second day started with, short speech given by Prof. Chintan Panchal, Co-Coordinator WiSE Club to motivate participants and to keep their enthusiasm continued.

Mr. Arpit, started with introduction along with the scope and importance in the domain of security. He covered topics like Shodan, Metasploit and Web App Security along with varieties of possible sub topics and explain well to participants. Again live demonstrations were provided to participants to give them real time feel. Hands on practice was also provided to participants on said topics. All aspirants interacted well with speaker and cleared their doubts at the end of the session.

At the end of the session, online quiz was conducted through google form based on the topics covered in session. Also online feedback was collected through google form mean only. Quiz and feedback sessions were designed and handled by student coordinating team of workshop consists of Palaksha Raskapoorwala, Abnob Bhanu and Muskan Jawahar.

Depending on quiz result and participation performance in workshop, Day 2 quiz winner declared to be **Priyam Dave** from B.Sc IT, SRKI.

### **DAY – 3: Ethical Hacking Unleased**

Mr. Arpit on third day covered topics like Buffer Overflow, Ruby on Rails Security, Reverse Engineering (Breaking Software Security) along with varieties of possible sub topics and explain well to participants. Again live demonstrations were provided to participants to give them real time feel. Hands on practice was also provided to participants on said topics. All aspirants interacted well with speaker and cleared their doubts at the end of the session.

Session was came to an end by vote of thanks given by Neel Parekh, student coordinator of WiSE club.

At the end of the session, online quiz was conducted through google form based on the topics covered in session. Also online feedback was collected through google form mean only. Quiz and feedback sessions were designed and handled by student coordinating team of workshop consists of Palaksha Raskapoorwala, Abnob Bhanu and Muskan Jawahar.

Depending on quiz result and participation performance in workshop, Day 3 quiz winner declared to be **Fenil Chauhan** from Computer Department, SCET.

Participation certificate was awarded to all the students by the Head of Department, Dr. Nehal Shah. All 3 days' workshop conducted successfully and students satisfied with overall deliverables and demanded conduction of such series of workshop in future to come.



## ❖ Workshop Glimpse:









**AICTE - SPICES**  
Scheme for Promoting Interests,  
Creativity and Ethics among  
Students

**Sarvajani College of Engineering and  
Technology, Surat**  
Electronics and Communication Engineering Department  
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**WiSE Club**  
**Wireless Signal and Embedded  
Technology Club**

**Student Coordinator**  
**Aarya Shah**

**Faculty Coordinator**  
**Dr. Dhiren Bhagat**

**Student Co-Coordinator**  
**Neel Parekh**

**Faculty Co-Coordinator**  
**Prof. Chintan Panchal**




**Sarvajani College of Engineering and Technology**  
Electronics and Communication Engineering Department  
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Organizes  
3 days workshop series  
on




**ETHICAL HACKING & SECURITY , 2022**

**Day 1 (29 Sept)**  
Ethical hacking  
torque

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**Day 2 (30 Sept)**  
Ethical hacking  
throttle

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**Day 3 (1 Oct)**  
Ethical hacking  
Unleashed

- Hacking & Ethical Hacking Introduction
- OSINT Framework
- Google Dorking
- Identity Masking

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- Shodan
- Metasploit
- Web App Sec

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- Buffer Overflow
- Ruby on Rails Security
- Reverse Engg. (Breaking Software Security)

**Save the dates!!**  
29th Sept - Day 1  
30th Sept - Day 2  
1st Oct - Day 3

Workshop conducted by



**SHREE TECH SOLUTIONS**

**Faculty Coordinators**  
Dr. Dhiren Bhagat  
Prof. Chintan Panchal

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**Student Coordinators**  
Aarya Shah - 9979941905  
Neel Parekh - 7874258086

**Minimum requirements/prerequisites**

- if possible bring a laptop
- no prior knowledge required

**Venue:**  
AV Room,  
Electronics and comm. dept.  
SCET

**Registration link:**



in association with  
**AICTE - SPICES**  
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**\*\*\*Thank You\*\*\***