



**SRI A B R GOVERNMENT DEGREE COLLEGE**  
Repalle, Guntur Dt.522 265  
Accredited by NAAC with ' B' Grade, Affiliated to Acharya Nagarjuna University



*Department of Computer Science*



**Online Certificate Course**

on

**Cyber Security Essentials**



**Co-ordinator**

**G. RAVITEJA**

**Lecturer in Computer Science**

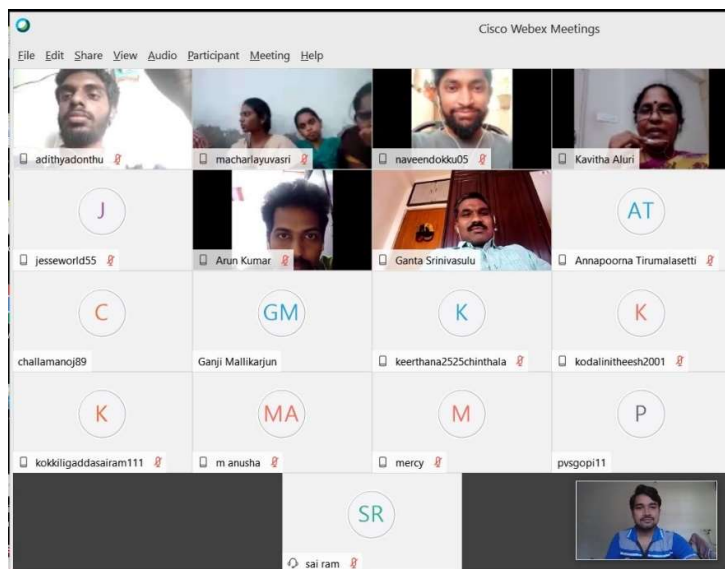
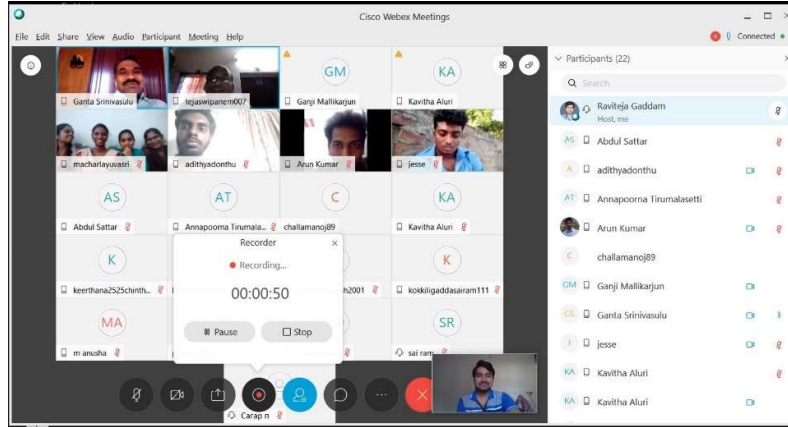
**(27<sup>th</sup> April to 11<sup>th</sup> May 2020)**

HoD – Computer Science

Principal



## Course Inauguration





## **This Course Aims. . .**

The contents of this course represent the essentials of cyber security. It explores the basics of cyber trends and threats, exploitation and defense techniques along with the illustration using the available Open Source tools.

## **This Course Mainly Covers . . .**

- ✓ Network & Security Concepts
- ✓ Attacker Techniques
- ✓ Exploitation
- ✓ Defense & Analysis Techniques



## **This Course Assess the Students with. . .**

- ✓ Assignments
- ✓ Online Quizzes



### **Course Objectives:**

- The purpose of this course is to provide understanding of the key issues related to security in modern networked computer systems.
- This covers underlying concepts and foundations of computer security. Understanding various types of security attacks.
- Understand key terms and concepts in Attacker Techniques.
- Understanding the monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.
- The learner will gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath.

### **Course Outcomes:**

Upon successful completion of the course, students will be familiar with cyber security landscapes and able to

- ✓ Analyze and evaluate the cyber security needs of an organization.
- ✓ Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- ✓ The students can use basic security tools to enhance system security and can develop basic security enhancements in stand-alone applications.



## Course Syllabus

### **Network & Security Concepts:**

Introduction - - Cyber Security Goals - - Security Attacks - - Passive Attacks – Release of Message Contents – Traffic Analysis - - Active Attacks – Masquerade – Replay – Modification of Messages – Denial of Service - - Examples

- ▶ Assignment : Collect various recently happened real world attacks and discuss how much loss happened with those security attacks. **(Must focus on Minimum TEN Attacks)**

### **Attacker Techniques :**

Introduction - - Antiforensics – Using Proxies – Using Tunneling – Using Botnets – Using Fast Flux - - Fraud Techniques – Phishing – Rogue Antivirus – Click Fraud - - Cyber Security Statistics

- ▶ Assignment : Collect various recently happened phishing and click fraud incidents and illustrate the damage done by them. **(Must focus on Minimum TEN incidents)**

### **Exploitation :**

Introduction - - Malware - - Types of Malware – VIRUS – Computer Worm – Trojan Horse – Ransomware - - Cyber Attacks - - Denial of Service Attacks - - Man-in-the-Middle Attacks - - SQL Injection Attacks

- ▶ Assignment : Discuss various types of Viruses and Trojan Horses and illustrate recent major virus and trojan attack incidents. **(Must focus on Minimum TEN incidents)**

### **Defense & Analysis Techniques :**

Introduction - - The Power of Active Defense - - Cyber Security Defenses – Firewall – Antivirus Software - - Cyber Security Tools - - Basic Tools - - Monitoring Tools - - Expert Tools - - Android Security Apps - - Tips for Securing Your System

- ▶ Assignment : Practice the discussed tools and monitor the network traffic.

### **Reference Books:**

1. Cyber Security Essentials by James Graham, Richard Howard & Ryan Olson
2. Cyber Security Essentials by Charles J. Brooks, Christopher Grow, Philip Craig & Donald Short





## Course Brochure



**SRI ABR GOVERNMENT DEGREE COLLEGE**  
**REPALLE, GUNTUR (DT) – 522 265**



**Department of Computer Science**



**Certificate Course on**

# Cyber Security Essentials



*Starting From 27<sup>th</sup> April, 2020 . . . Duration: 15 Hours*

### **This Course Aims. . .**

The contents of this course represent the essentials of cyber security. It explores the basics of cyber trends and threats, exploitation and defense techniques along with the illustration using the available Open Source tools.

### **This Course Mainly Covers . . .**

- ✓ Network & Security Concepts
- ✓ Attacker Techniques
- ✓ Exploitation
- ✓ Defense & Analysis Techniques



### **This Course Assess the Students with. . .**

- ✓ Assignments
- ✓ Online Quizzes

Interested Students can register by filling the online registration form on or before 26<sup>th</sup> April 2020.

In-Charge of Computer Science

Principal



## Course Registration Form

CS ABR GDC Repalle - Google | ABR GDC - Cyber Security Reg | +

https://docs.google.com/forms/d/1fePbnIRU5Xyr-IINbrkINoGZgZV85PFrtzkrjOeA/edit

ABR GDC - Cyber Security Registration

Questions Responses 45

**SRI ABR GOVERNMENT DEGREE COLLEGE**  
REPALLE, GUNTUR (DT) – 522 265

**Cyber Security Essentials Course (Starts on 27-04-2020) - Registration Form**

Please provide all your details.

First Name \*

Short answer text

Last Name (Surname) \*

Short answer text

Type here to search

CS ABR GDC Repalle - Google | ABR GDC - Cyber Security Reg | +

https://docs.google.com/forms/d/1fePbnIRU5Xyr-IINbrkINoGZgZV85PFrtzkrjOeA/edit

ABR GDC - Cyber Security Registration

Questions Responses 45

**Class**

1. I B.Sc MPCs
2. I B.Sc MCCs
3. II B.Sc MPCs
4. II B.Sc MCCs
5. III B.Sc MPCs
6. III B.Sc MCCs

If you are a non-computer student, specify your class (Ex: II BA, II MPC, etc)

Short answer text

E-Mail Address ( Valid & Working ) \*

Short answer text

Type here to search

11:50 17-05-2020



# SRI A B R GOVERNMENT DEGREE COLLEGE

Repalle, Guntur Dt.522 265

Accredited by NAAC with ' B ' Grade, Affiliated to Acharya Nagarjuna University



## Course Registered Students List

| Timestamp          | First Name         | Last Name (Surname) | Exam Hall Ticket Number | Class         | if you are a non computer student, | E-Mail Address ( Valid & Working ) | Contact Number (Student) |
|--------------------|--------------------|---------------------|-------------------------|---------------|------------------------------------|------------------------------------|--------------------------|
| 4-26-2020 20:09:35 | Prasanth           | Amarthaluri         | prasanthamart           | II B.Sc MCCs  |                                    | prasanthamarthaluri@gmail.com      | 6304665195               |
| 4-25-2020 9:15:35  | Mercy              | Gudumotu            | Y153109020              | II B.Sc MPCs  |                                    | mercygudumotu@gmail.com            | 6305173453               |
| 4-23-2020 18:15:45 | Maya Nadhini       | Deevi               | Y181072008              |               | 2nd BA                             | Mahanadini.deevi143@gmail.com      | 6301336496               |
| 4-23-2020 17:02:50 | Nattu              | Rohith babu         | Y183072021              | II B.Sc MCCs  | 2ed mscs                           | batturohith18@gmail.com            | 6281939974               |
| 4-26-2020 7:41:51  | Manoj              | Ch                  | Y183072023              | II B.Sc MCCs  |                                    | challamanoj89@gmail.com            | 09849544890              |
| 4-23-2020 17:05:45 | Adithya            | Donthu              | Y183072025              | II B.Sc MCCs  |                                    | adithyadonthu@gmail.com            | 7569398595               |
| 4-23-2020 17:16:27 | Jaya lakshmi       | Kanna               | Y183072029              | II B.Sc MCCs  |                                    | kannajayalakshmi@gmail.com         | 7674945418               |
| 4-27-2020 10:53:38 | Sairam             | Kokkilgadda         | Y183072032              | II B.Sc MCCs  |                                    | kokkilgaddasairam111@gmail.com     | 7097015145               |
| 4-23-2020 16:37:48 | ratnasagar         | pamidipamula        | y183072038              | II B.Sc MCCs  |                                    | ratnasagarjaya@gmail.com           | 9398907632               |
| 4-23-2020 16:50:08 | Jesse              | Tokala              | Y183072048              | II B.Sc MCCs  |                                    | Jesseworld55@gmail.com             | 8106216027               |
| 4-26-2020 16:56:25 | Lakshmi prasanna   | Veeranki            | Y183072049              | II B.Sc MCCs  |                                    | vlprasanna143@gmail.com            | 9505478478               |
| 4-26-2020 16:58:45 | Lakshmi prasanna   | Veeranki            | Y183072049              | II B.Sc MCCs  |                                    | vlprasanna143@gmail.com            | 9505478478               |
| 4-24-2020 8:30:32  | Naga Srinivasa Rao | Yarlagadda          | Y183072052              | III B.Sc MCCs |                                    | srinu143yarlagadda@gmail.com       | 8500255145               |
| 4-23-2020 18:12:33 | Anasuya            | Kagitha             | Y183072064              |               | 2 nd MPC                           | anasuyak91854@gmail.com            | 9381250994               |
| 4-23-2020 19:03:46 | Priyanka           | Anavarlapudi        | Y183072081              | II B.Sc MPCs  |                                    | Ppriya79295@gmail.com              | 7569770169               |
| 4-23-2020 17:38:32 | Sowjanya           | Boddu               | Y183072085              | II B.Sc MPCs  |                                    | Boddu sowjanya111@gmail.com        | 7032941898               |
| 4-23-2020 17:12:42 | Keerthana          | Chinthala           | Y183072088              | II B.Sc MPCs  |                                    | Keerthana2525chinthala@gmail.com   | 6305540972               |
| 4-23-2020 17:47:21 | Rupa Divya Sri     | Choda               | Y183072090              | II B.Sc MPCs  |                                    | chodarupa1234@gmail.com            | 9392085053               |
| 4-23-2020 17:17:07 | Naveen             | Dokku               | Y183072091              | II B.Sc MPCs  |                                    | Naveendokku05@gmail.com            | 7799347233               |
| 4-27-2020 17:54:06 | Nitheesh           | Kodali              | Y183072094              | II B.Sc MPCs  |                                    | kodalinitheesh2001@gmail.com       | 9381907700               |
| 4-27-2020 9:09:07  | Dharma raj         | koraganti           | y183072095              | II B.Sc MPCs  |                                    | Dharma5758rd@gmail.com             | 9121525758               |
| 4-23-2020 17:07:59 | Yuvasri            | Macharla            | Y183072098              | II B.Sc MPCs  |                                    | macharlayuvasri@gmail.com          | 9347075643               |
| 4-23-2020 17:33:54 | MAHAMMAD BAAJI     | BABA                | Y183072100              | II B.Sc MPCs  |                                    | mahammadbaaji16@gmail.com          | 8919691846               |
| 4-23-2020 17:29:50 | Rajyalakshmi       | Mendu               | Y183072101              | II B.Sc MPCs  |                                    | Lakshmirajya1998@gmail.com         | 9515585962               |
| 4-23-2020 19:18:52 | Anusha             | Muthyala            | Y183072103              | II B.Sc MPCs  |                                    | manusha497@gmail.com               | 9391414035               |
| 4-24-2020 7:33:03  | Venkata Siva Gopi  | Parisa              | Y183072105              | II B.Sc MPCs  |                                    | pvsogopi11@gmail.com               | 6303627671               |
| 4-23-2020 18:22:38 | Shabana            | Patan               | Y183072106              | II B.Sc MPCs  |                                    | pathanshabana22@gmail.com          | 8142632471               |
| 4-26-2020 16:02:00 | Annapoorna         | Tirumalasetti       | Y183072113              | II B.Sc MPCs  |                                    | annapoomatirumalasetti49@gmail.com | 9949451974               |
| 4-24-2020 7:52:16  | Pavan Kalyan       | Parisa              | Y193072132              | I B.Sc MPCs   |                                    | pavanparisa110@gmail.com           | 8096628009               |





## Day 1

The screenshot shows a Cisco Webex Meeting interface. The main area displays a grid of 16 video thumbnails for participants. A 'Recorder' overlay is visible in the center, indicating recording is in progress with a timer at 00:00:50. The right sidebar shows a list of 22 participants, with Raviteja Gaddam as the host. The bottom toolbar includes icons for mute, video, chat, and recording.

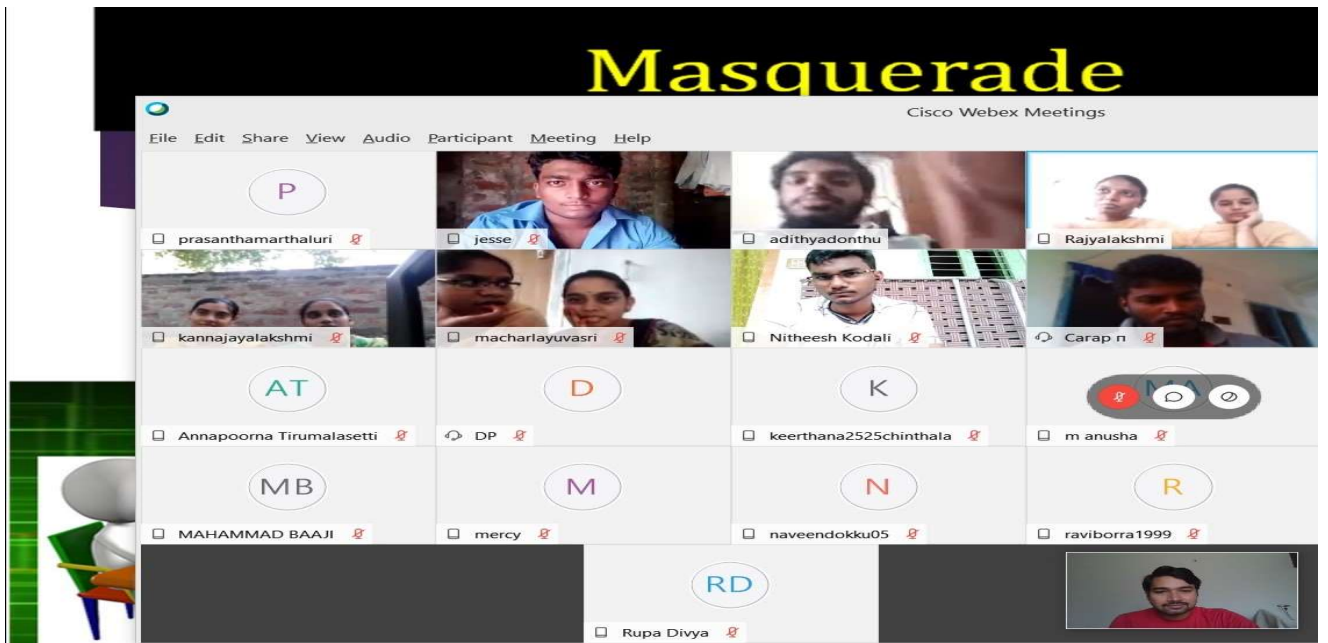
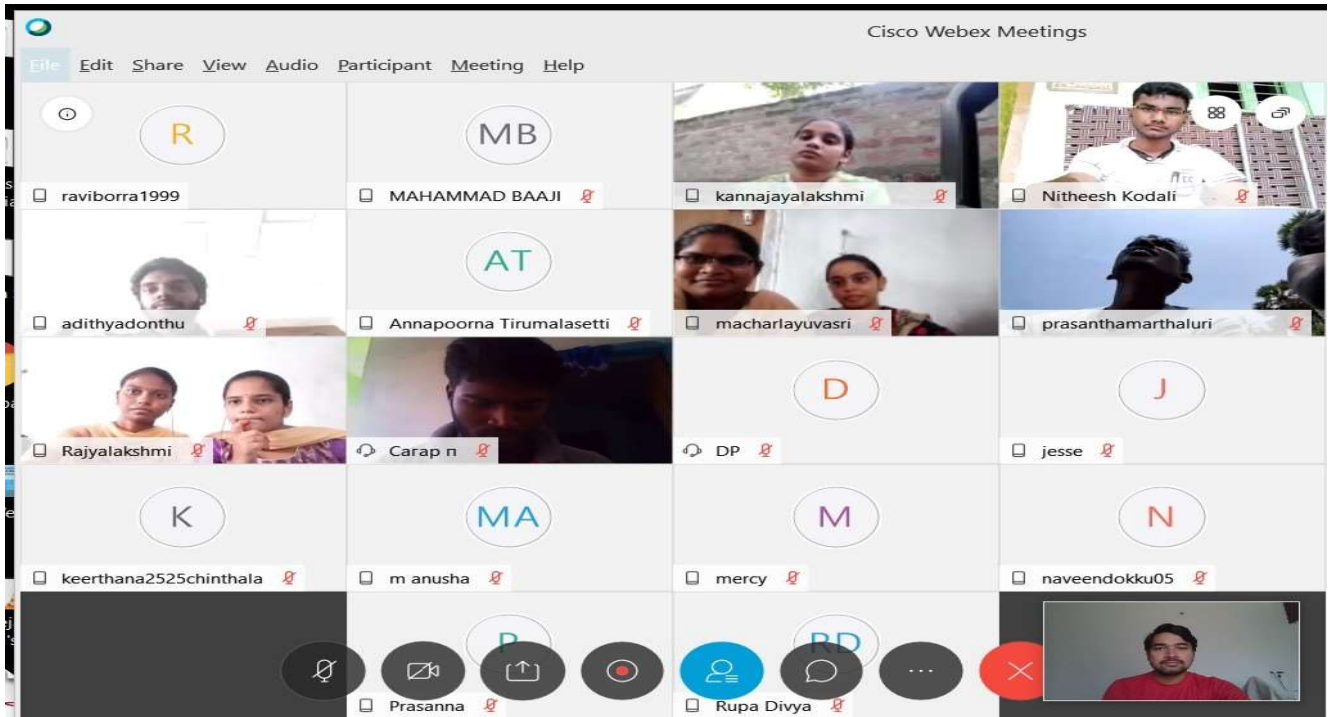
The screenshot shows a presentation slide titled "Cyber Security Essentials" with the subtitle "Network Security Concepts". The slide is prepared by G. Raviteja, a Lecturer in Computer Science at Sri A B R Government Degree College, Repalle. A video thumbnail overlay in the top right corner shows a grid of participants, including macharlayuvassi, Rupa Divya, MAHAMMAD BAAJI, and adithyadonthu. A small number '1' is visible in the top right corner of the slide.

**Cyber Security Essentials**  
Network Security Concepts

PREPARED BY  
**G. RAVITEJA**  
LECTURER IN COMPUTER SCIENCE  
SRI A B R GOVERNMENT DEGREE COLLEGE, REPALLE

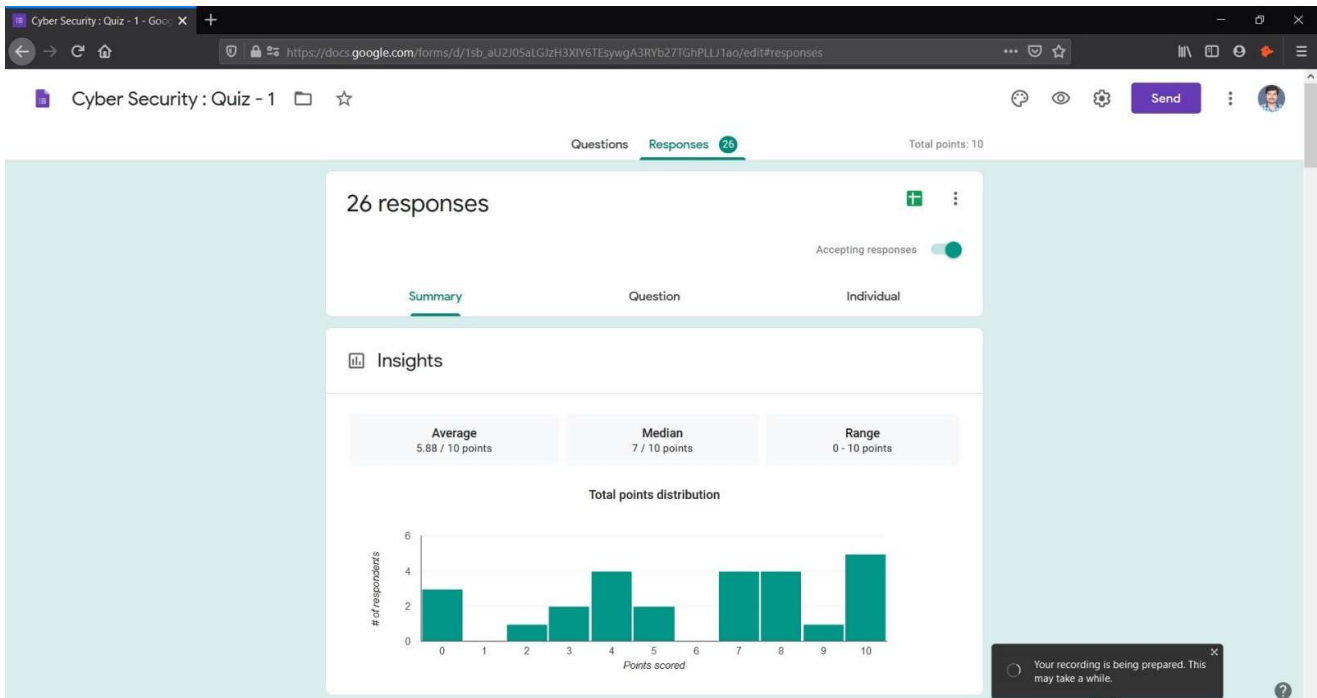
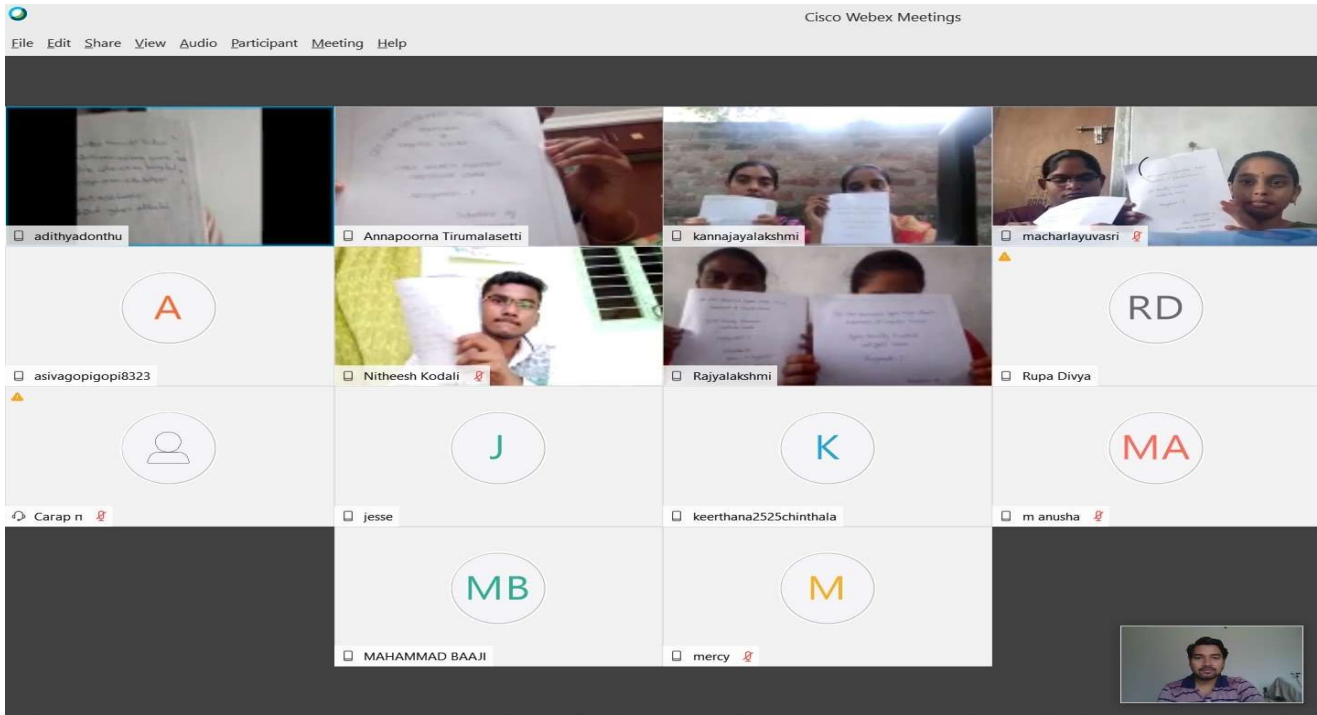


Day 2





## Day 3







## Day 4

Web Proxy List - Free Proxy List

free-proxy-list.net/web-proxy.html

Free Proxy List

Web proxies that are just checked and updated every 10 minutes

Show 20 entries

| Proxy Name         | Domain               | Country       | Alexa Rank | Popularity |
|--------------------|----------------------|---------------|------------|------------|
| Free Proxy         | freeproxy.win        | US & UK       | New        | 100%       |
| Best Web Proxy     | webproxy.best        | US & UK       | New        | 100%       |
| Unblock Websites   | unblock-websites.com | US & UK       | New        | 100%       |
| Proxy Site         | proxysite.one        | US & UK       | 69318      | 100%       |
| Unblock Youtube    | unblockyoutube.video | US & UK       | 27630      | 100%       |
| Multi-IP Web Proxy | my-proxy.com         | US & UK       | 149484     | 100%       |
| Proxy Youtube      | proxy-youtube.com    | US & UK       | 252196     | 100%       |
| Unblock Videos     | unblockvideos.com    | United States | 113988     | 100%       |
| Video Unblocker    | videounblocker.net   | United States | 1217558    | 96%        |
| Proxypx            | proxypx.com          | United States | 237237     | 92%        |
| Proxy Sites        | proxy-site.net       | United States | 1417591    | 88%        |

Cisco Webex Meetings

File Edit Share View Audio Participant Meeting Help

Participants:

- Raviteja Gaddam
- adithyadonthu
- naveendokku05
- Nitheesh Kodali
- Rajyalakshmi
- Shabana
- Annapoorna Tirumalasetti
- asivagopigopi8323
- DP
- kannajayalakshmi
- keerthana2525chinthala
- m anusha
- macharlayuvasri
- MAHAMMAD BAAJI
- mercy





Day 5

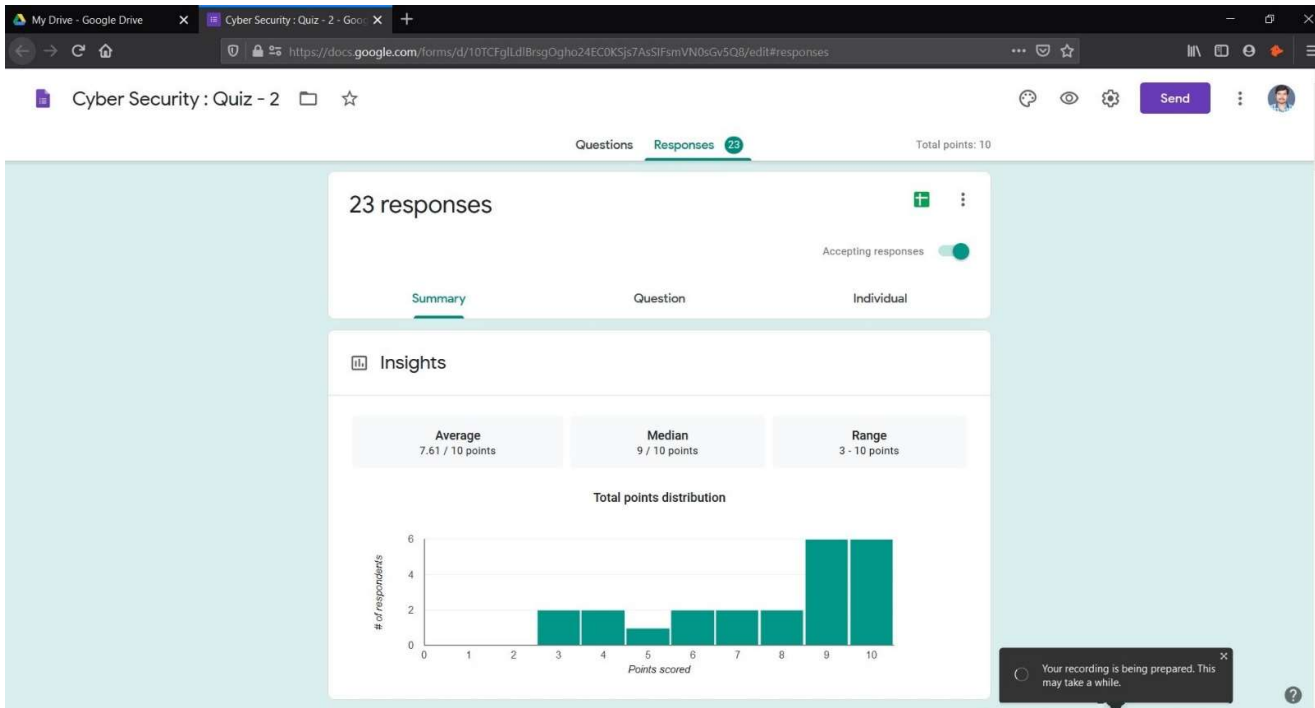
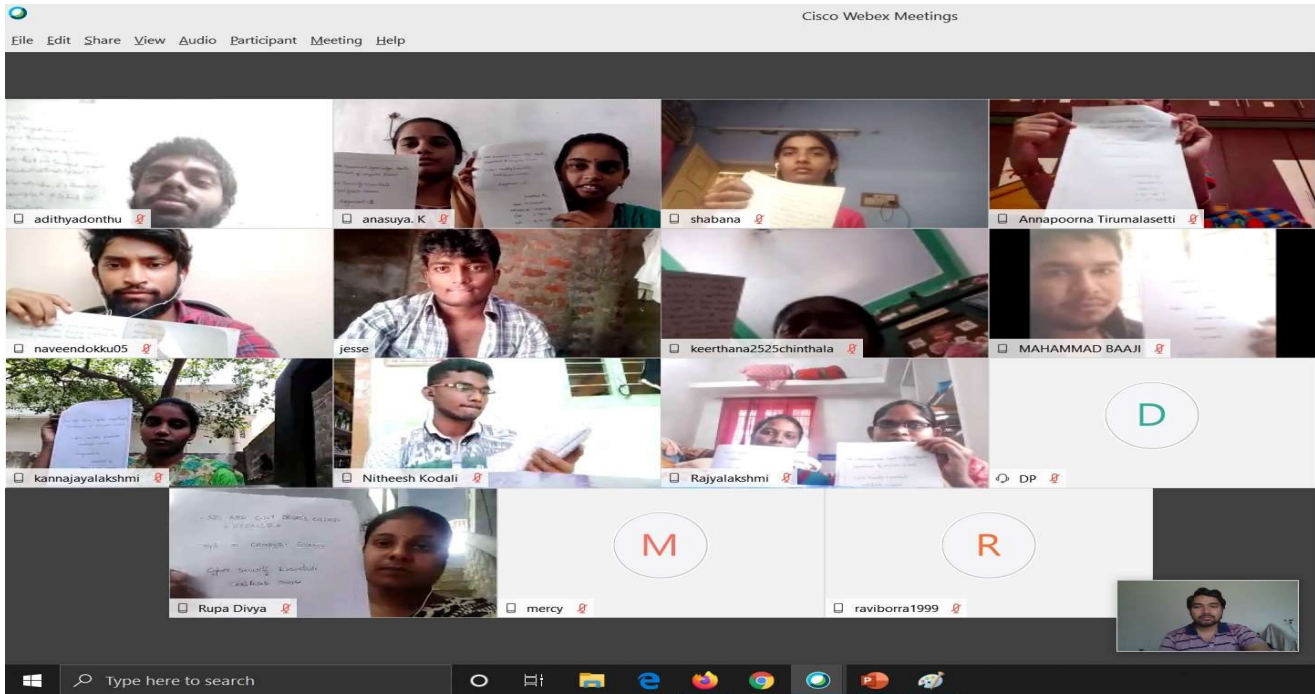
Cisco Webex Meetings

File Edit Share View Audio Participant Meeting Help

|                            |                       |                              |
|----------------------------|-----------------------|------------------------------|
| <br>MAHAMMAD BAAJI         | <br>shabana           | <br>Annapoorna Tirumalasetti |
| <br>adithyadonthu          | <br>jesse             | <br>kannajayalakshmi         |
| <br>keerthana2525chinthala | <br>naveendokku05     | <br>Rupa Divya               |
| <br>Carap n                | <br>asivagopigopi8323 | <br>mercy                    |
| <br>Nitheesh Kodali        | <br>Rajyalakshmi      |                              |

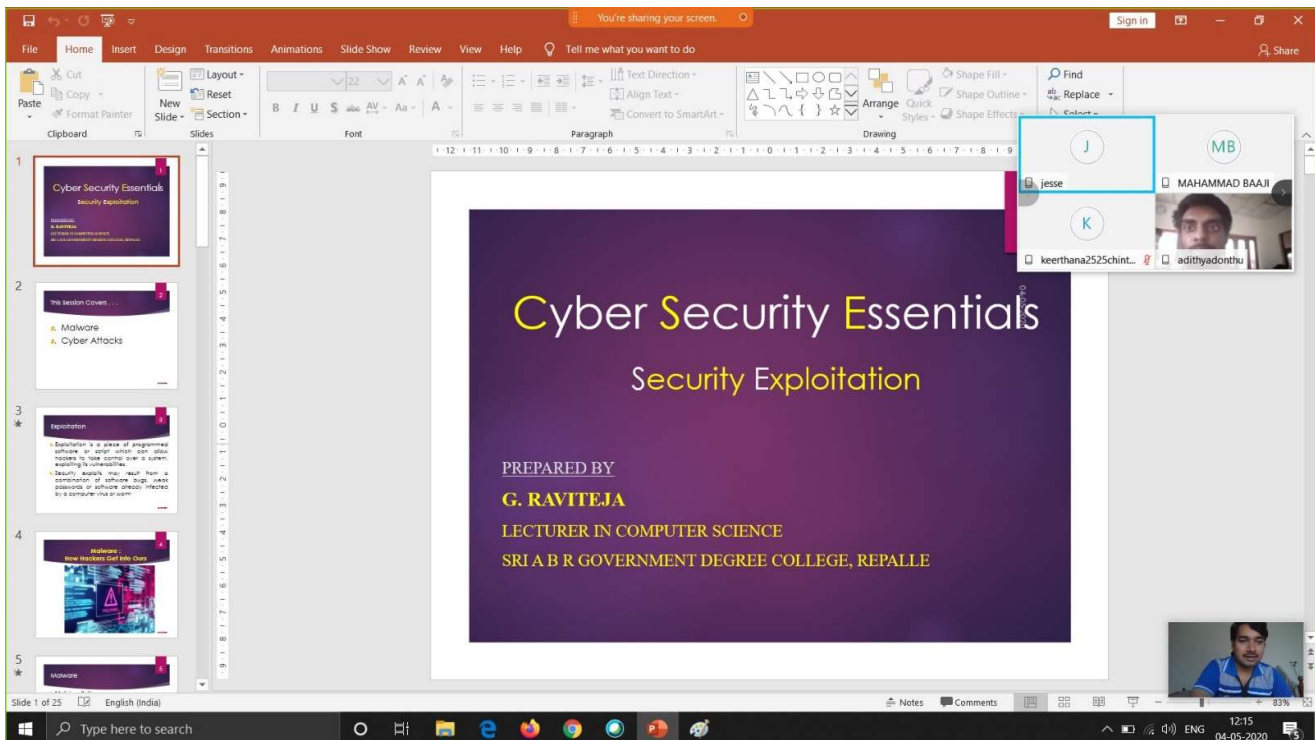
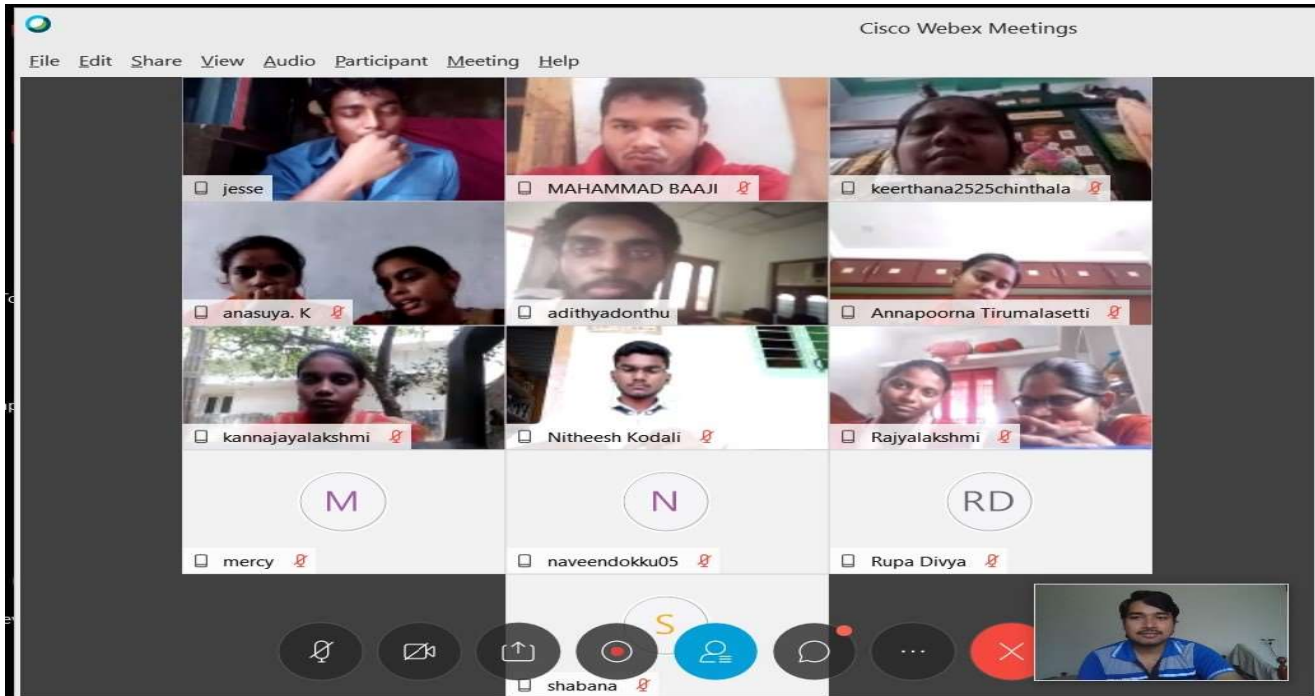


## Day 6





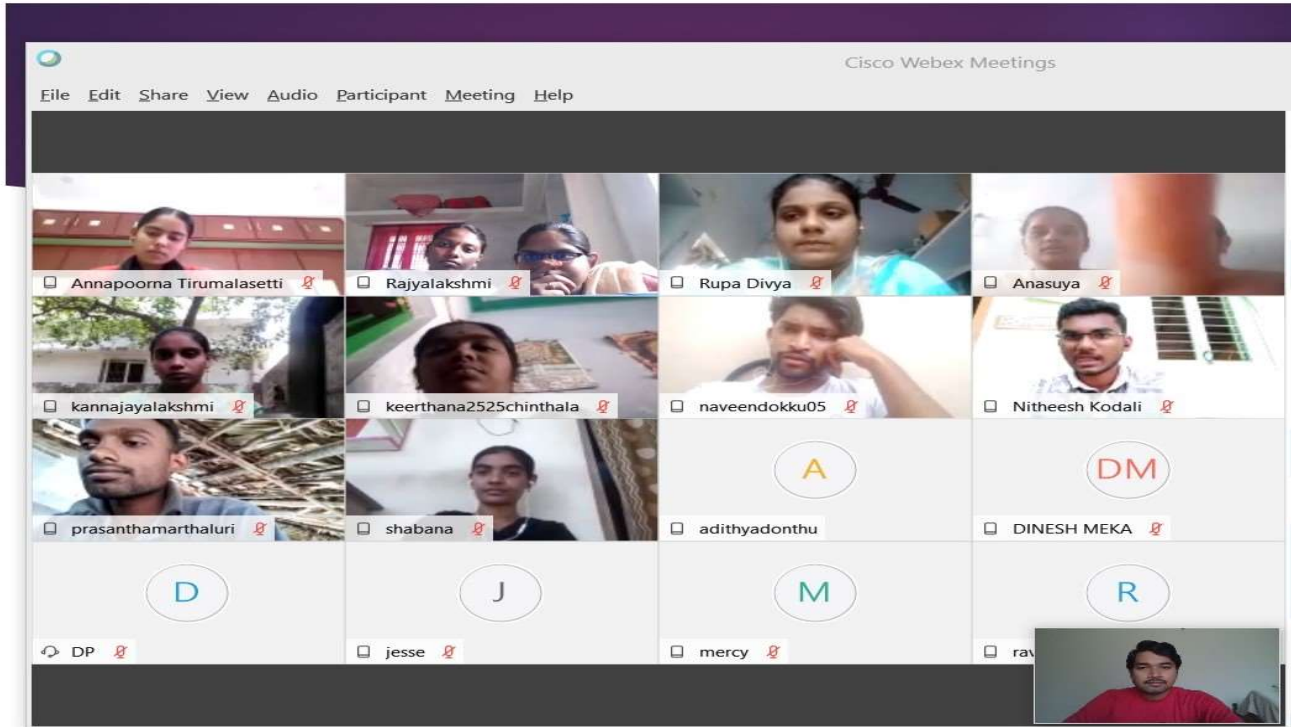
Day 7







Day 8



You're sharing your screen.

## Cyber Attacks : How Hackers Made It

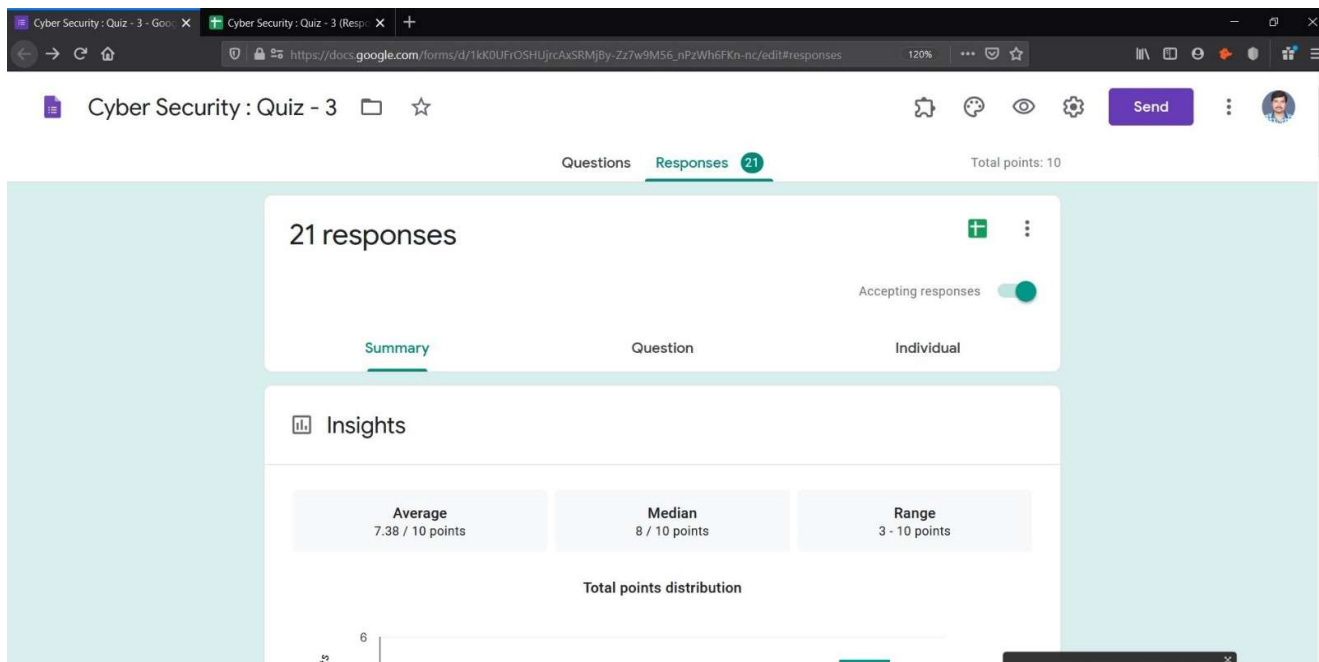
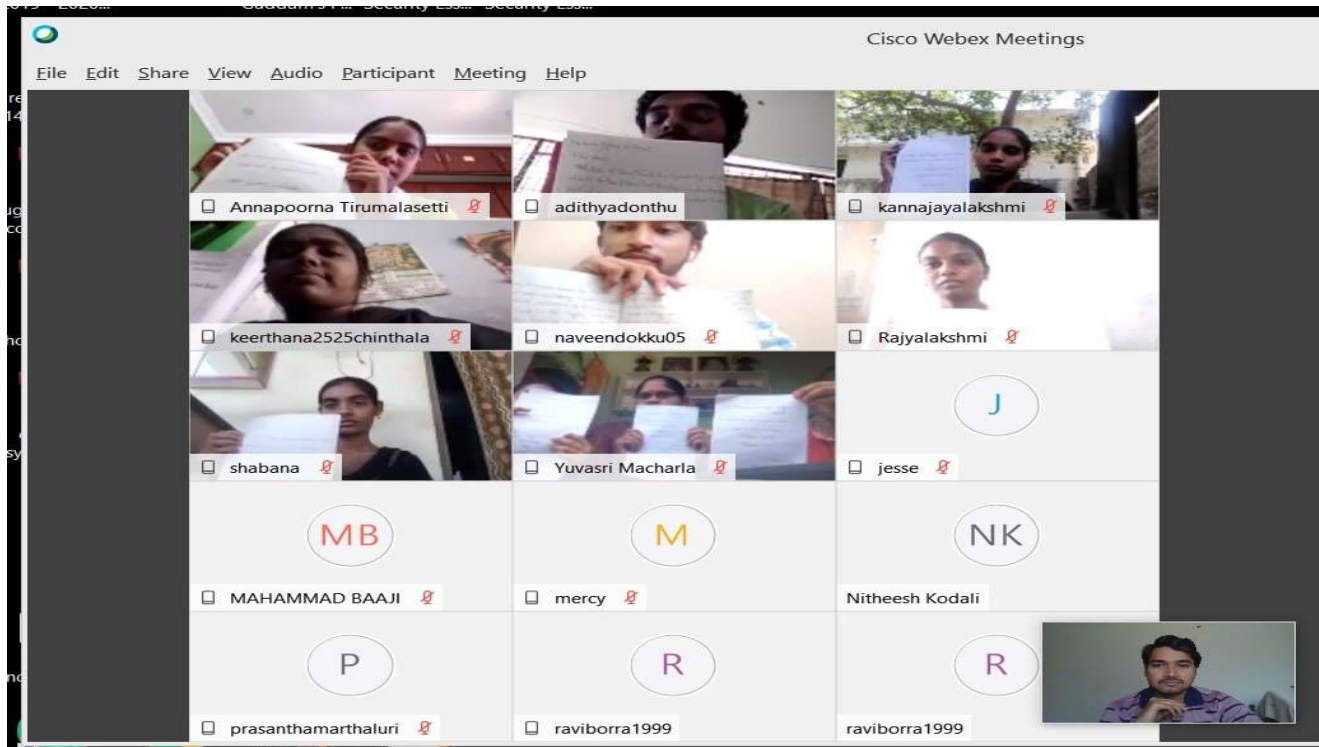
21

05-05-2020



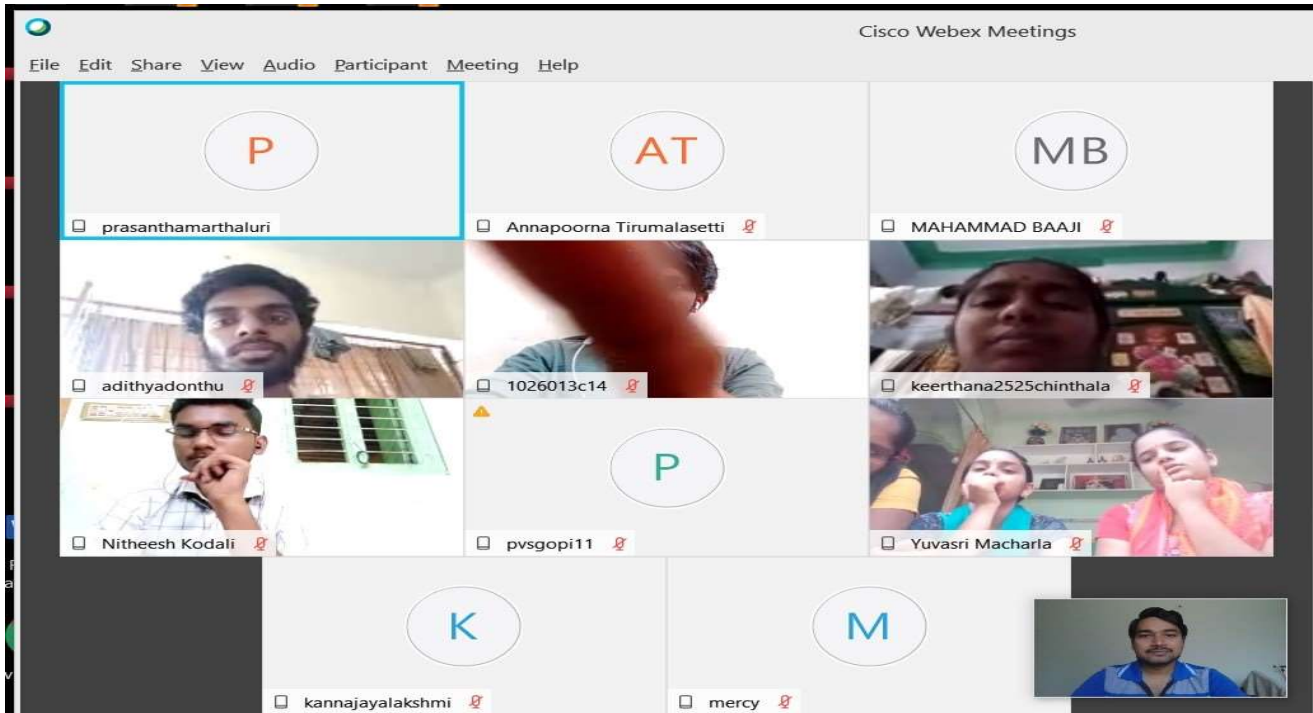


## Day 9





## Day 10





## Day 11

Cisco Webex Meetings

File Edit Share View Audio Participant Meeting Help

kannajayalakshmi adithyadonthu Anasuya.k

Nitheesh Kodali MAHAMMAD BAAJI Rajyalakshmi

Rupa Divya shabana DINESH MEKA

DM

DP mercy

4-Defense Techniques & Tools.pptx - PowerPoint

File Home Insert Design Transitions Animations Slide Show Review View Help

Cyber Sec

Cisco Webex Meetings

adithyadonthu MAHAMMAD BAAJI kannajayalakshmi

RD Rupa Divya Anasuya.k Annapoorna Tirumalasetti

NK keertana2525chinthala Nitheesh Kodali Rajyalakshmi

raviborra1999 shabana DINESH MEKA

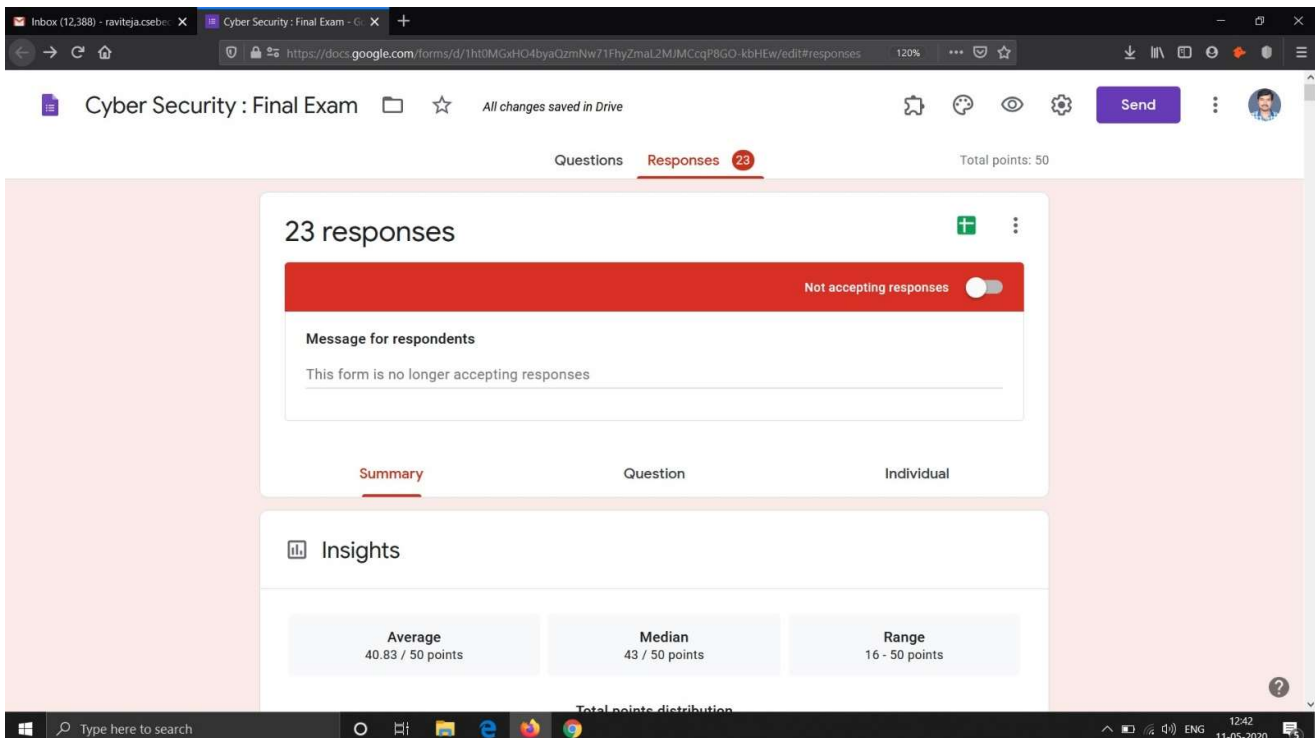
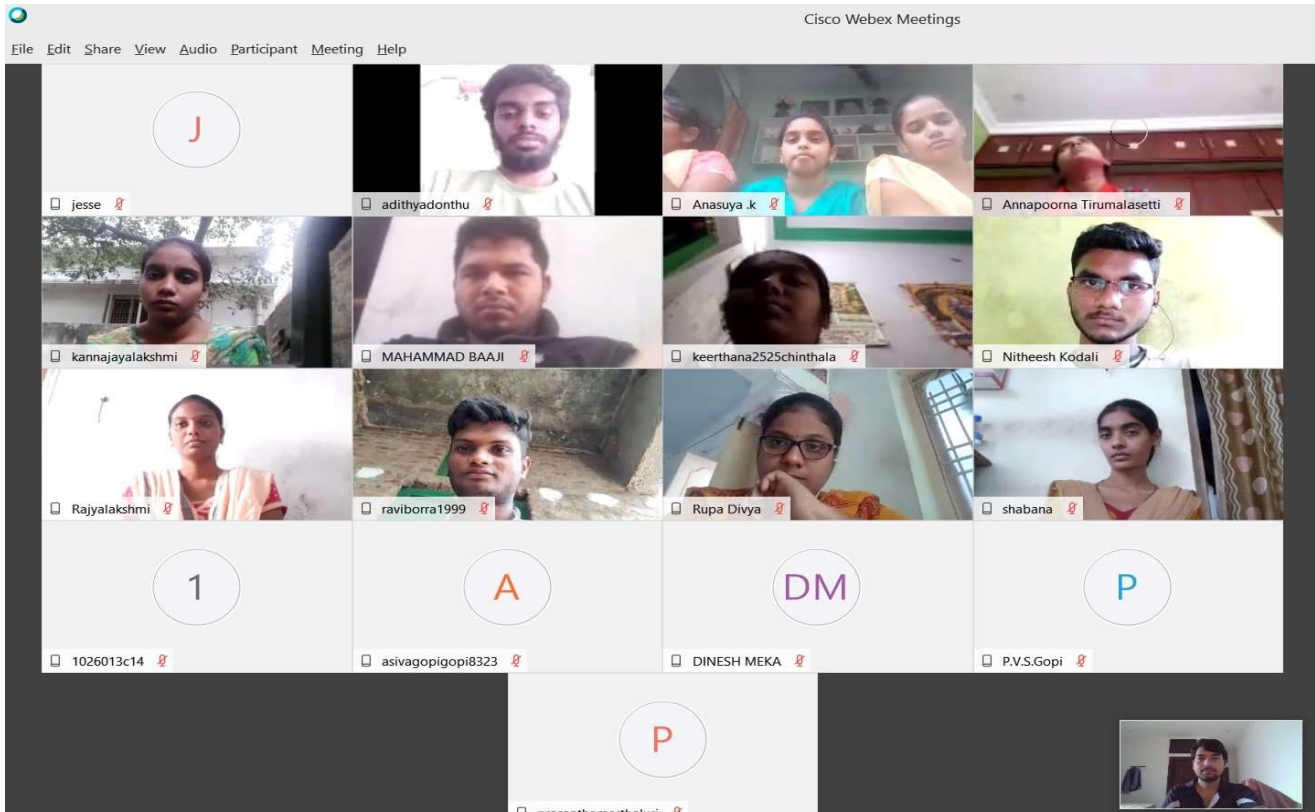
DM

DP mercy





## Day 12







Sample Certificate



*Department of Computer Science*



Certificate

This is to certify that **BORRA RAVI KANTH** with Registered No. **Y183072086** has participated and successfully completed "**Cyber Security Essentials Certificate Course**" from **27<sup>th</sup> April to 11<sup>th</sup> May 2020** and in recognition thereof is awarded this certificate.

*G. Raviteja*  
Course Co-ordinator

*Ash. Kousha*  
Head of CS Dept.

*P. V. Kousha*  
Principal



**RAVITEJA** Digitally signed by  
**GADDAM** RAVITEJA GADDAM  
Date: 2020.05.11  
19:24:56 +05'30'



## Course Outcomes

The contents of this course represent the essentials of cyber security. It explores the basics of cyber trends and threats, exploitation and defense techniques along with the illustration using the available Open Source tools



## Course Feedback

Inbox (66) - raviteja.csebec@... x (2) Development of Deep Lea... x CS ABR GDC Repalle - Goog... x Cyber Security : Feedback - G... x +

https://docs.google.com/forms/d/11bbdFV3v4abAPEym0nsyWRW0RNG8yvB4SFOAR-rE/edit

Cyber Security : Feedback

Questions Responses 24

**SRI A B R GOVERNMENT DEGREE COLLEGE**  
Repalle, Guntur Dt.522 265  
Accredited by NAAC with ' B' Grade, Affiliated to Acharya Nagarjuna University

Department of Computer Science

**Certificate Course : Feedback**

Date: 11-05-2020

Course Name : Cyber Security Esesntials  
Description (optional)

Course Co-ordinator : Mr. G. RAVITEJA  
Lecturer in Computer Science, Sri ABR Government Degree College, Repalle

Exam Hall Ticket Number \*

Inbox (66) - raviteja.csebec@... x (2) Development of Deep Lea... x CS ABR GDC Repalle - Goog... x Cyber Security : Feedback - G... x +

https://docs.google.com/forms/d/11bbdFV3v4abAPEym0nsyWRW0RNG8yvB4SFOAR-rE/edit#responses

Cyber Security : Feedback

Questions Responses 24

24 responses

Not accepting responses

Message for respondents  
This form is no longer accepting responses

Summary Question Individual

Course Name : Cyber Security Esesntials

Course Co-ordinator : Mr. G. RAVITEJA

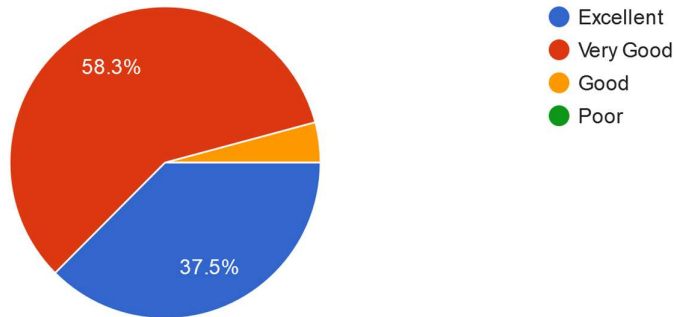
Exam Hall Ticket Number  
24 responses

3 3 (12.5%)



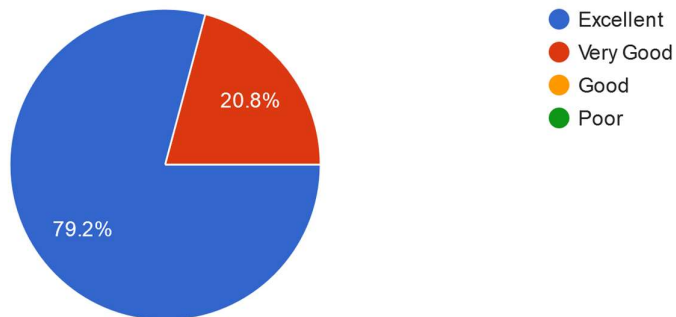
### The Course Organization was

24 responses



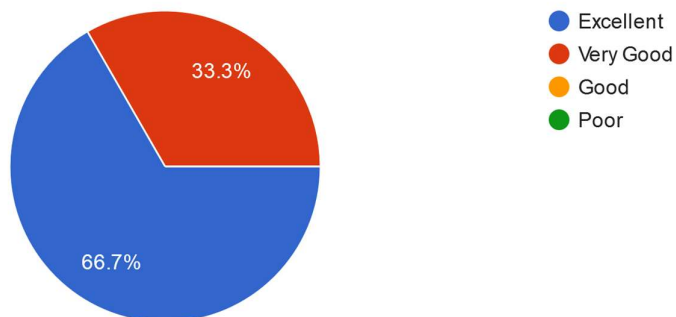
### The Lecturer's Contribution to the Course was

24 responses



### The Lecturer's effectiveness in teaching the course was

24 responses

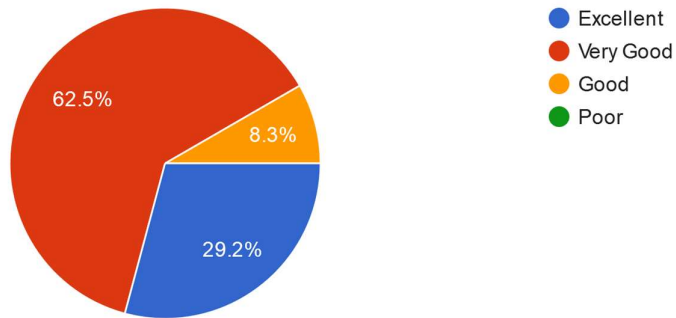






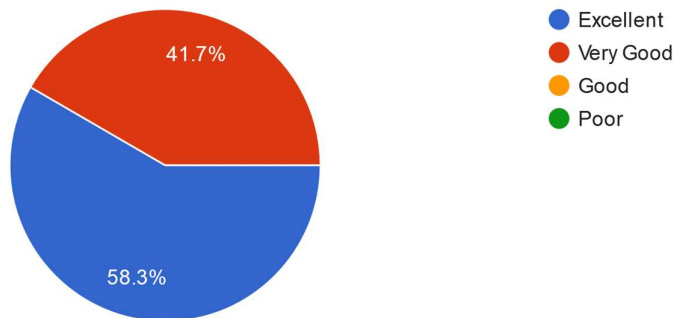
### Clarity of Lecturer's Voice was

24 responses



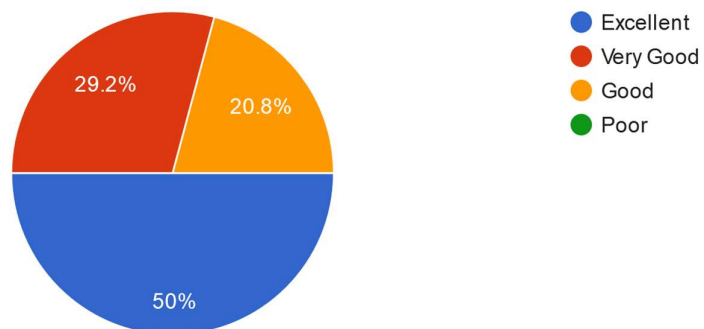
### Explanations by Lecturer were

24 responses



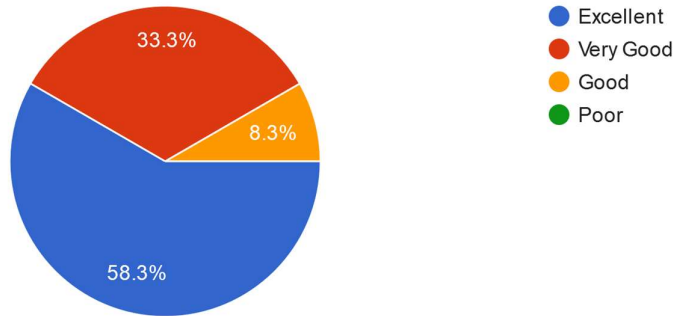
### Lecturer's use of examples and illustrations were

24 responses

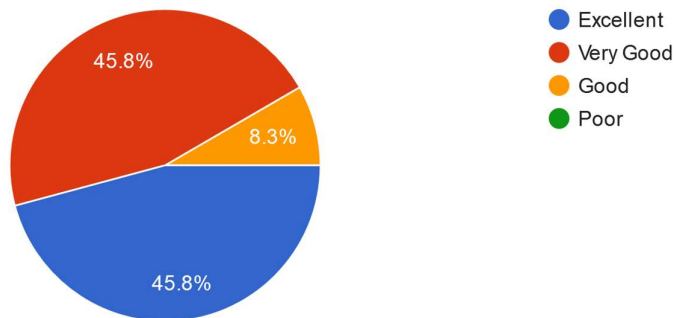




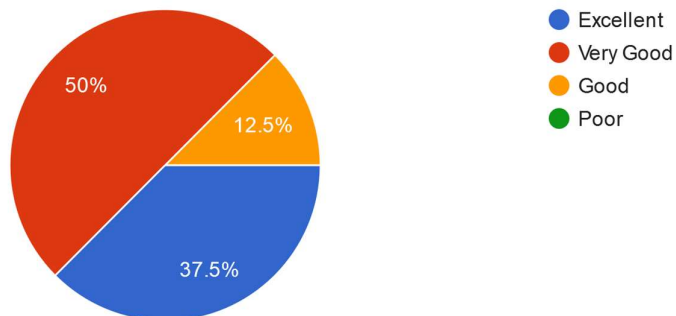
Quality of Questions raised by the Lecturer was  
24 responses



Lecturer's Enthusiasm was  
24 responses

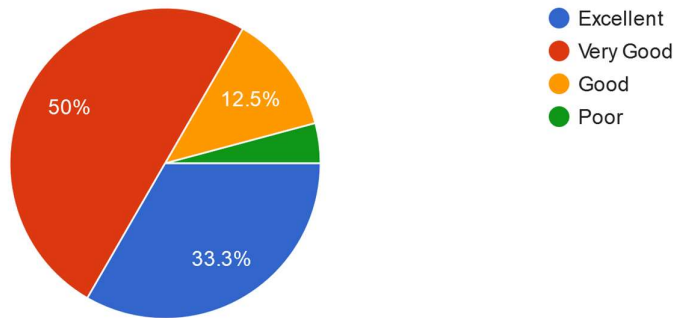


Encouragement given to the students to participate in the course was  
24 responses

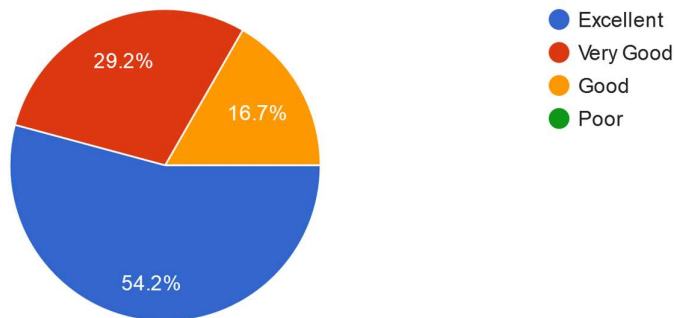




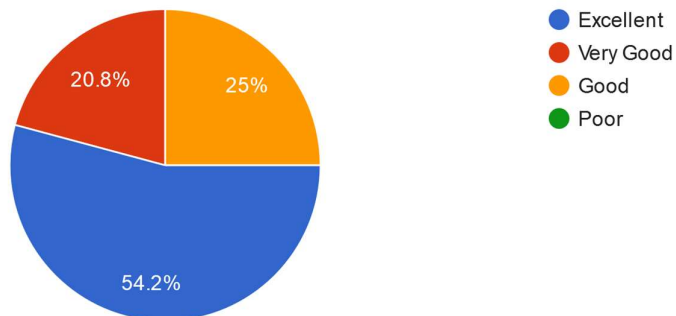
Answers to the Students Questions was  
24 responses



Availability of Extra Help when needed was  
24 responses

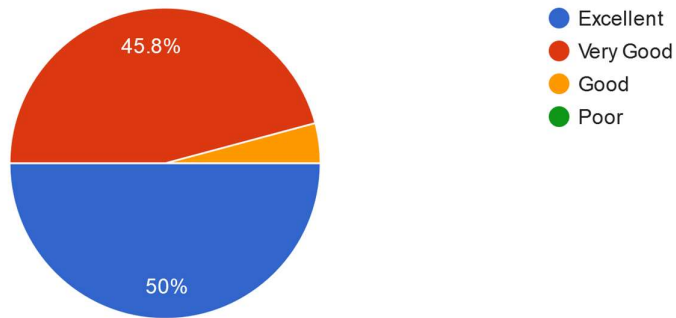


Use of Class Time was  
24 responses

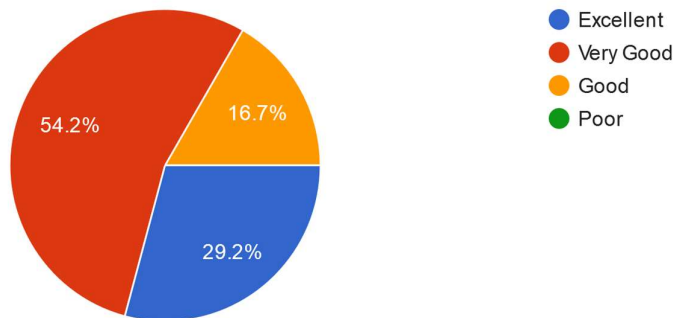




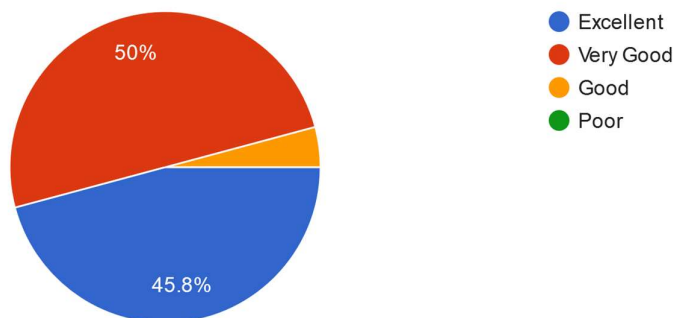
Lecturer's Interest in Students Progress was  
24 responses



Amount of Assigned Work was  
24 responses



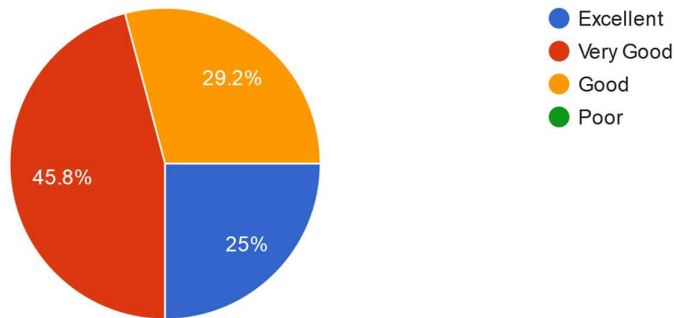
Student Assessment using Assignments and Quizzes was  
24 responses







The Amount of Effort You put into this Course was  
24 responses



Your Comments or Suggestions regarding this Course

- Good ok
- This is very useful course
- Excellent sir
- This course is useful to us ,,content was very good
- i learnt very much through this course
- Nice teaching
- Tq Soo Much Sirrr
- Good
- Mainly sir's interest in this content is excellent
- Good
- Sir nenu telugu lo type chestunnanu Maku e course chala use avuthundi sir future lo maku dini valla chala benefit vunnayi sir and na suggestion anti akkuva days vuntey chala deep learn chesukovachu anipinchindi sir
- This course was very useful during these holidays .My class teacher also very interested in teaching the class so all of them usefull .so many examples compare to learn easily Soo thanks you sir
- Very useful to us
- This course idea and them is excellent during this lock down time,but due to our network connection sometimes we miss the class . Thank you sir.
- It was a great time to get the classes but little bit of digital disturbance for the volume
- Useful course with a very practical and well-structured layout... Excellent array of interaction and learning... Thank u sir..!!
- U done very hard work for us sir tq sooo much sir ....this course is very useful to us tq sir
- Very useful course to every student
- Expert in communication skills , friendly Ness approachability
- Cyber security is an Osam course.. and it is very useful for us ... Thank you sir for this course we learn a Best topic in this lock down Thank you RAVI TEJA sir
- VERY GOOD
- This is what's happening in the society all must know about this course