



National University of Modern Languages



Governance & Public Administration Department

SOCIAL ACTION PROJECT (SAP)

NUML SDG SCOUTS

"CYBER SECURITY"



Date: Sep 2022 - Jan 2023.

Submitted by: Ahmed Faizan, Sabahat Hayat, Ali Mohyuddin, Ali Hamza, Husnain Inayat.

Supervised by: DR. Athar Rashid



numl_cybersecurity_scouts

Manager Ahmed Faizan: I am in charge of the "SDG Scouts for Cyber Security" project. We are attempting to educate young people about cyber risks and the value of cyber security through this tiny initiative. In this project, I'm also contributing as an editor and videographer.

Writer of the piece: I'm the project's content writer, researcher, and graphic designer; my name is Sabahat Hayat. I've learned more about my areas of expertise thanks to this endeavour.

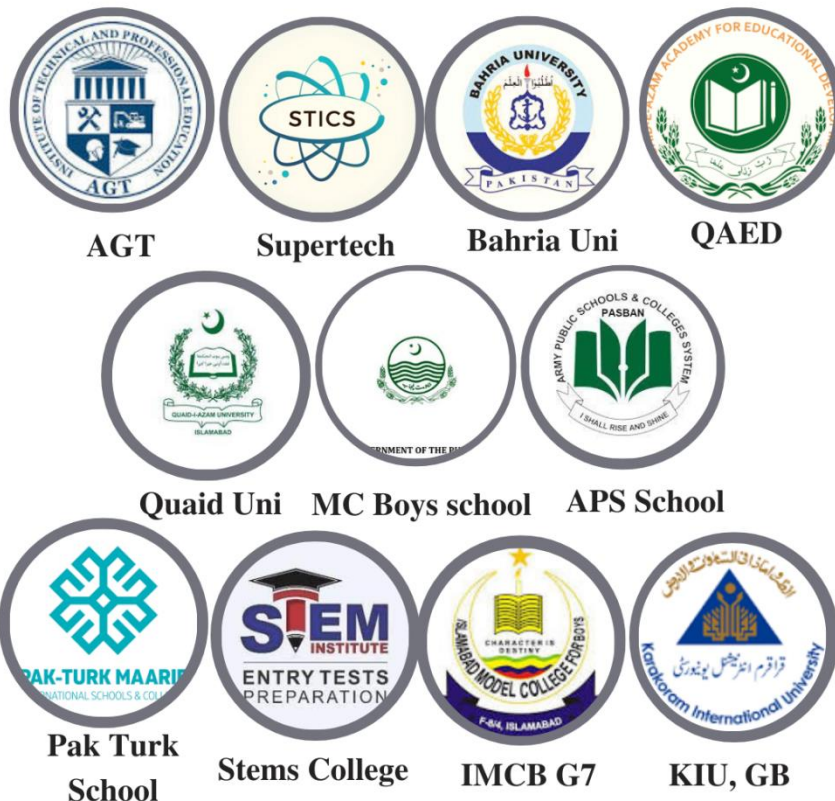
Finance Manager: My name is Ali Mohyuddin, and I oversee finances in addition to planning events. We have held a number of events.

Manager of social media: My name is Husnain Inayat, and I oversee our social media presence on Facebook and Instagram.



Coordination Manager: My name is Ali Hamza, and I am the project's coordinating manager, which is a crucial component of task completion.

Institutes we have collaborated with:



EXECUTIVE SUMMARY:

This report aims to highlight and briefly outline the entire process and progress of our SOCIAL ACTION PROJECT titled “SDG Scouts for Cyber Security” which is a part of our Public Administration and Governance Curriculum and would help us to gain practical knowledge in Governance and Public Policy. The principal aim of this project is to raise awareness among the public regarding the detrimental effects of being unaware about cyber security and the importance of cyber security. Our main focus is to aware, educate and train youth about cyber security and practically giving them training about securing their data from harmful viruses.

We have included many aspects and suggestions in this project report, quickly leading to minute details of our considerable effort. We gained a significant amount of expertise with our many experiences in the field that can be used to develop our project further while working on it. This initiative will serve as a stepping stone in our professional careers.

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1. ACKNOWLEDGEMENTS:

First and foremost, we want to express our gratitude to Allah Almighty, the author of knowledge and wisdom, for allowing us to accomplish this project.

We would like to extend our gratitude to the Department of Governance and Public Policy, National University of Modern Languages (NUML), Islamabad, for providing us with a platform to carry out this amazing social action project titled “SDG Scouts for Cyber Security”. We would also like to thank **Dr. Athar Rashid** for supervising this project and motivating and guiding us throughout the course of the project. The support of the Head of the Department of Governance and Public Policy, **Mr. Waqas Ali Kausar** is also greatly appreciated.

We wish to extend special thanks to Quaid-e-Azam University Islamabad, Quaid Academy.H-9, AGT Institute Rawalpindi, Supertech Institute Rawalpindi, Bahria University E-8 and H11, M.C Boys School Rawalpindi, APS School Westridge Rwp, Pak Tuk School, Stems College, IMCB G7/2 and Karakoram International University Gilgit Baltistan for their kind cooperation. Lastly, we are very much thankful to our Parents, Friends, Social Media followers, and others for their contribution and motivation throughout the project.

2. PROJECT PROPOSAL:

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| <p>Name of Social Action Project</p> | <p>“SDG SCOUTS FOR CYBER SECURITY”</p> |
| <p>Brief details of SAP</p> | <p>The "SDG Scouts for Cyber Security" is a social action project by students of Governance and Public Policy at NUML Islamabad, under the supervision of Dr. Athar Rashid, that aims to educate youth about cyber security, integrate digital skills into the lives of those living below the poverty line, and empower them to protect their information from hackers and harmful viruses.</p> <p>Defining the term "cyber security":</p> <p>Cybersecurity is the practice of protecting systems, networks, and programmes from digital attacks. These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information, extorting money from users, or interrupting business processes. Implementing effective cybersecurity measures is particularly challenging today because there are more devices than people, and attackers are becoming more innovative.</p> <p><u>Related sdgs:</u></p> <p>No Poverty, Zero Hunger, Quality Education, Decent Work and Economic Growth, Reduced Inequalities, Responsible Consumption and Production.</p> |

Literature Review

This project focuses on cyber security awareness and skill generation, so the literature review will cover almost 30 articles and research papers ranging from 2015 to 22 in order to analyse the issue with respect to the literature.

Increasing rates of internet usage demand more knowledge and awareness about cyber security information as well. A comparative study that focused on **"Cyber Security Awareness, Knowledge, and Behavior,"** published in 2020, studied the relationship between these terms. This study shows how people in general and specifically in Israel, Slovenia, Poland, and Turkey relate to cyber security awareness, knowledge, and behaviour in relation to protective tools. The findings demonstrate that although internet users are adequately aware of cyber threats, they take only a minimal amount of precautions, which are typically quite basic and common. Beyond the differences in respondent nation or gender, the study's findings also demonstrate a relationship between stronger cyber expertise and level of cyber awareness. A high level of expertise means a high level of computer security awareness. Additionally, awareness is linked to defence mechanisms but not to the information they were willing to share. In this study, research questions were posed to respondents

in Israel, Slovenia, Poland, and Turkey using surveys and questionnaires within a theoretical framework. They came to the conclusion that taking precautions is related to knowledge by asking questions that may examine knowledge, awareness, willingness to learn IT security training programmes, and the behavioural element.

A case study, published in 2020, performed by some university students analysed "**Cyber Security Awareness Among Students.**" In order to determine students' awareness of and interest in learning cybersecurity in Nigerian universities, a quantitative survey was conducted by them, the findings of which are reported in this case study. The survey's goals were to determine how well-informed students in this developing nation are about cyberattacks, how they can defend against them, and whether university curricula include cybersecurity awareness training. The first findings showed that although the students claimed to have a basic understanding of cybersecurity, they were unsure of how to protect their data. Additionally, it appears that few universities actively promote cybersecurity awareness to help students become more knowledgeable about how to defend themselves from danger. The students who responded to the survey indicated a desire to

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| | <p>learn more about cybersecurity.</p> <p>In 2020, the average cost of a data breach was USD 3.86 million globally and USD 8.64 million in the United States. These costs include the expenses of discovering and responding to the breach, the cost of downtime and lost revenue, and the long-term reputational damage to a business and its brand. Cybercriminals target customers' personally identifiable information (PII) — names, addresses, national identification numbers (e.g., Social Security number in the US, fiscal codes in Italy), and credit card information — and then sell these records in underground digital marketplaces. Compromised PII often leads to a loss of customer trust, the imposition of regulatory fines, and even legal action.</p> <p>In recent years, a number of online labor markets have emerged that allow workers from around the world to sell their labor to an equally global pool of buyers. The creators of these markets play the role of labor market intermediary by providing institutional support and remedying informational asymmetries.</p> <p>The vision of any higher education institution is extension of opportunity to all aspirants of education, and expansion across all</p> |
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| | <p>realms of knowledge. Keeping in line with this vision, institutions of higher education should ideally offer opportunity to take any course to eligible aspirant in any stream of study that it offers. The vision also encompasses a self-reliant society where all people are educated and productively engaged, with the objective of creating academically empowered and ready-for-the-job professionals in diverse fields. To realize this curriculum should provide for building employability skills among students. It is widely agreed that there is a need to incorporate skill supplements to boost employability.</p> |
| <p>Name and Team Members role</p> | <ol style="list-style-type: none"> 1. Ahmed Faizan MS21012 Project Manager Videographer and Editor 2. Ali Mohyuddin MS2106 Finance Manager Event Organizer 3. Ali Hamza MS2105 Coordination Manager Photographer |

| | |
|-------------------------------------|--|
| | <p>4. Sabahat Hayat MS2109 Content Writer and Research Analyst Graphic Designer</p> <p>5. Hasnain Inayat MS21021 Social Media Manager</p> |
| <p>Location/ Area of project</p> | <p>City: Islamabad</p> <p>Sectors/areas: G-6, F-6, Bluearea, I-8</p> |
| <p>Duration of Proposed project</p> | <p>Start Date: 21/11/2022</p> <p>End Date: Before 9th January.</p> |
| <p>Beneficiaries</p> | <ul style="list-style-type: none"> • Youngsters • Web/app developers • Database • IT Industry • Banks • Business holders • Administrators in educational institutions • Teachers • Students |

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| <p>Local available resources</p> | <ul style="list-style-type: none"> ● Digital devices ● Softwares ● Social Media (Facebook, Instagram, ● Equipments (camera, mobile phones, laptops, brochures, posters, banners etc) |
| <p>How will this project benefit your community</p> | <p>Background:</p> <p>Reaper began testing cyber security in 1970. Reaper was the first-ever computer worm and trojan, the first instance of malware being detected by an antivirus programme, and the first virus developed by Bob Thomas.</p> <p>Commercial antivirus in 1980: The first year when commercial malware-examining antiviruses were available was 1987.</p> <p>Due to the expansion of the internet in the 2000s, threats have become more diverse.</p> <p>The market for cybersecurity is increasingly growing. The largest cybersecurity industry worldwide is anticipated to reach \$345.4 billion by 2026, according to Statista. Ransomware is one of the most common threats to the data security of any organisation, and its use is predicted to increase.</p> <p>Need:</p> <ul style="list-style-type: none"> ● For application security, cloud security, data security, mobile security, network |

security and information security.

- For CIA Triad.
- Further, to protect power grids and to preserve the lifestyles we are having today.
- Additionally, hacks have demonstrated that attackers are capable of getting beyond well-known security measures like two-factor authentication, thus businesses and security firms must now consider their approach to cybersecurity more than before.
- Future cybersecurity will require researchers and security professionals to focus exclusively on utilising the advantages of developing technology.

Since most activities in organisations are now automated, cyberattacks are now more concerned with jeopardising system security. Artificial intelligence is being included into antivirus and firewall systems to attain smarter detection and response capabilities. Therefore, as the world is getting more digital, internet consumption and data usages are increasing day by day, so it is important at the same time to be aware about cyber security.

Objectives:

- Spreading awareness

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| | <ul style="list-style-type: none"> ● Precautionary measures ● Encryption software ● Caesar code decoder ● By getting into the issues people are facing regarding cyber security, helping them practically, and providing them with useful recommendations to improve them. ● To tell people how they can stop malware from shutting down system users or stealing important data in order to carry out routine activities. ● Creation of a social media page to keep followers posted. ● Encouraging youth to learn and sell digital skills. ● Creation of calendar for the activities ● Designing cyber security education for youth. ● Surveys for need assessment ● Painting competitions between students ● Awareness walks ● Skills generation regarding cyber security ● Updating the social media pages ● Proposing amendments in cyber security policies |
| <p>How will you start and manage your SAP</p> | <p>Feasibility:</p> <p>We will be arranging different seminars, going into the institutions with the aim of encouraging the students about digital skills.</p> |

Secondly, we will tell them about cyber security, why it is important, and why they should know about it while being involved in any digital activity. Finally, how cyber security awareness will help them in achieving their goals by using digital skills.

Methodology/Approach:

Awareness drive, webinar and sessions in the following:

- 1) Pak Turk School, Islamabad
- 2) IMCB G-7/2 Islamabad
- 3) Stems College, Islamabad
- 4) Quaid-e-Azam Academy for Educational Development H-9, Islamabad
- 5) CUST University
- 6) Quaid-e-Azam University
- 7) APS school and college, Pasban Westridge
- 8) Bahria University E-8 Campus
- 9) Bahria University H-11 Campus
- 10) AGT Institute of Technical and Vocational Education, Rawalpindi
- 11) Supertech Institute Computer Science
- 12) Invoke Technologies
- 13) Govt. M.C Boys Model High School, Rawalpindi

- 14) Karakoram International University, main KIU road Danyore, Gilgit
- 15) Google form survey
- 16) Instagram surveys
- 17) On-site surveys
- 18) Interviews
- 19) Training sessions
- 20) One to one discussions
- 21) Knowledge providing group based discussions
- 22) Open question answer sessions
- 23) Feedback Surveys
- 24) Social Media Pages
- 25) Videos
- 26) Brochure and pamphlet distribution
- 27) Poster and banner pasting
- 28) Social Media Campaigns
- 29) Public Campaigns
- 30) Awareness walks

Continuity:

Although modifying human behaviour is difficult, human error is the weakest link in the cyber security chain. But effective knowledge and a strong desire to succeed can bring about improvements. In addition to educating people

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| | <p>about cyber security, we will also incorporate digital skills, particularly where they are required. We will create ambassadors by presenting the idea of skills and how they can use them to make money and develop experience. So, this project won't be finished quickly, but we'll make it sustainable by achieving the SDGs.</p> |
| <p>How will you measure the success of your SAP</p> | <p>Outcomes:</p> <ul style="list-style-type: none"> ● Educating students and young people about digital skills. ● Enabling the most underprivileged class to generate income. ● Teaching students how to utilize the internet for practical purposes, such as online job searching, digital newspapers, web serving, discussion groups, and online shopping etc. ● Bringing new ideas. ● Making sure they learn about and become knowledgeable about cyber security. ● Making them capable of adopting certain cyber security protection habits to shield their data from spam, cybercrime organizations, etc. <p>Measuring tools:</p> |

- Cross-sectional Survey questionnaires.
- Knowledge providing surveys.
- Interviews from local public
- Interviews from youth/students.
- Interviews from IT Industry, business holders and web/app developers.
- Feedback surveys
- Webinars
- Seminars
- Focused group presentations.
- Social Media Pages
- Ambassador Forms.
- Activities carried out.

3. PROJECT REPORT:

3.1: OVERVIEW:

Protecting systems, networks, and programmes from cyberattacks is the practise of cybersecurity. These hacks typically try to disrupt business operations, extort money from users, or access, alter, or delete important information. Nowadays, there are more devices than humans, and hackers are getting more creative, making it difficult to implement efficient cybersecurity measures.

A person with little or no knowledge of cyber security is putting his or her data at risk due to malicious software and hackers in the digital world. Therefore, in order to get rid of it and be secure about our data, we must know the cyber issues and the ways to get ourselves out of them or protect ourselves from them.

In this social action project, we are trying to educate, aware and train youth specifically about cyber security, the skills which could help them getting specialities in cyber security as well along with the general cyber security knowledge.

3.2: OBJECTIVES:

- 1) Spreading awareness among youth and the internet users.
- 2) Awaring them about the precautionary measures
- 3) Awaring them about encryption software that encrypts data and is used to guard against illegal access to digital data.
- 4) By getting into the issues people are facing regarding cyber security, helping them practically, and providing them with useful recommendations to improve them.
- 5) To tell people how they can stop malware from shutting down system users or stealing important data in order to carry out routine activities.
- 6) Important data in order to carry out routine activities.
- 7) Creation of a social media page to make followers aware of cyber security.
- 8) Skills generation regarding cyber security and encouraging them to earn those skills.
- 10) Creation of calendar for the activities.
- 11) Designing cyber security education for youth.
- 12) Surveys for need assessment
- 15) Proposing amendments in cyber security policies
- 16) Teaching students how to utilize the internet for practical purposes, such as online job searching, digital newspapers, web serving, discussion groups, and online shopping etc.
- 17) Awaring them about sustainable development goals (sdgs)

- 18) Bringing new ideas.
- 19) Making sure they learn about and become knowledgeable about cyber security.
- 20) Making them capable of adopting certain cyber security protection habits to shield their data from spam, cybercrime organizations, etc.

3.3: PROBLEM STATEMENT:

The need of cyber security is to protect computers, networks, and data from unauthorized access, use, disclosure, disruption, modification, or destruction. This includes protecting against both external threats such as hacking and internal threats such as insider attacks. It also involves protecting against the theft of sensitive information, ensuring the availability and integrity of critical systems, and maintaining compliance with legal and regulatory requirements.

3.4: LOCALITIES:

Our Environmental issues and management project took place in Islamabad/ Rawalpindi. The target areas were different schools, institutions and organizations. We made people aware through our social media campaigns and considered the public in the issue as well. Furthermore, we have taken surveys for collecting the data and knowledge of the people who were engaged with us during the project.

4. PROJECT DESCRIPTION:

4.1 LITERATURE REVIEW:

A literature review is a comprehensive summary of the research that has been conducted on a particular topic. A detailed literature review on cyber security would include an overview of the history of cyber security, current trends and challenges, and the most recent research and advancements in the field. This project focuses on cyber security awareness and skill generation, so the literature review will cover almost 30 articles and research papers ranging from 2014 to 2022 in order to analyze the issue with respect to the literature.

Increasing rates of internet usage demand more knowledge and awareness about cyber security information as well. A comparative study that focused on "**Cyber Security Awareness, Knowledge, and Behavior,**" published in 2020, studied the relationship between these terms.

This study shows how people in general and specifically in Israel, Slovenia, Poland, and Turkey relate to cyber security awareness, knowledge, and behaviour in relation to protective tools. The findings demonstrate that although internet users are adequately aware of cyber threats, they take only a minimal amount of precautions, which are typically quite basic and common. Beyond the differences in respondent nation or gender, the study's findings also demonstrate a relationship

between stronger cyber expertise and level of cyber awareness. A high level of expertise means a high level of computer security awareness. Additionally, awareness is linked to defence mechanisms but not to the information they were willing to share. In this study, research questions were posed to respondents in Israel, Slovenia, Poland, and Turkey using surveys and questionnaires within a theoretical framework. They came to the conclusion that taking precautions is related to knowledge by asking questions that may examine knowledge, awareness, willingness to learn IT security training programmes, and the behavioural element.

A case study, published in 2020, performed by some university students analysed "**Cyber Security Awareness Among Students.**" In order to determine students' awareness of and interest in learning cybersecurity in Nigerian universities, a quantitative survey was conducted by them, the findings of which are reported in this case study. The survey's goals were to determine how well-informed students in this developing nation are about cyberattacks, how they can defend against them, and whether university curricula include cybersecurity awareness training. The first findings showed that although the students claimed to have a basic understanding of cybersecurity, they were unsure of how to protect their data. Additionally, it appears that few universities actively promote cybersecurity awareness to help students become more knowledgeable about how to defend themselves from danger. The students who responded to the survey indicated a desire to learn more about cybersecurity.

In 2020, the average cost of a data breach was USD 3.86 million globally and USD 8.64 million in the United States. These costs include the expenses of discovering and responding to the breach, the cost of downtime and lost revenue, and the long-term reputational damage to a business and its brand. Cybercriminals target customers' personally identifiable information (PII) — names, addresses, national identification numbers (e.g., Social Security number in the US, fiscal codes in Italy), and credit card information — and then sell these records in underground digital marketplaces. **Compromised PII often leads to a loss of customer trust, the imposition of regulatory fines, and even legal action.**

In recent years, a number of online labor markets have emerged that allow workers from around the world to sell their labor to an equally global pool of buyers. The creators of these markets play the role of labor market intermediary by providing institutional support and remedying informational asymmetries.

The **vision of any higher education institution** is extension of opportunity to all aspirants of education, and expansion across all realms of knowledge. Keeping in line with this vision, institutions of higher education should ideally offer opportunity to take any course to eligible aspirant in any stream of study that it offers. The vision also encompasses a self-reliant society where all people are educated and productively engaged, with the objective of creating academically empowered and ready-for-the-job professionals in diverse fields. To realize this

curriculum should provide for building employability skills among students. It is widely agreed that there is a need to incorporate skill supplements to boost employability.

- According to the FBI's Internet Crime Complaint Center (IC3), in 2020, there were 467,361 complaints of cybercrime reported, resulting in over \$4.2 billion in losses. **(FBI, 2021)**
- According to a study by the Center for Strategic and International Studies (CSIS) and McAfee, the global cost of cybercrime is estimated to be between \$375 billion and \$575 billion per year. **(CSIS & McAfee, 2014)**
- According to a report by the Ponemon Institute, the average cost of a data breach for a company is \$3.86 million. **(Ponemon Institute, 2019)**
- According to a report by Norton by Symantec, there are an estimated 4 billion records stolen in the U.S alone due to data breaches every year. **(Norton by Symantec, 2017)**
- More recent research has focused on specific areas of cyber security, such as network security, data privacy, and cybercrime. A study by the US National Institute of Standards and Technology (NIST) found that the most common types of cyber threats are phishing, malware, and ransomware. **(NIST, 2019)**
- Another area of research in cyber security is the impact of artificial intelligence (AI) and machine learning on security. A study by the Massachusetts Institute of Technology (MIT)

found that AI and machine learning can be used to improve intrusion detection and response in network security. **(Krause et al., 2017)**

- Additionally, research has also focused on the human aspect of cyber security, including the role of user behavior and decision-making in the security process. A study by Carnegie Mellon University found that users are often the weakest link in the security chain and that more attention should be paid to user education and awareness. **(Carnegie Mellon University, 2016)**

In summary, the literature on cyber security is vast and varied, covering a wide range of topics and perspectives. From the early days of computer security to the most recent advancements in AI and machine learning, research has consistently shown the importance of staying informed and up-to-date with the latest developments in the field to protect against cyber threats.

Recommendations:

The human aspect of cyber security should be given some considerations and the students should be encouraged to do more research on this attention demanding topic.

4.2 METHODOLOGY:

- Our methodology involves the following:

Awareness drive, webinar and sessions in the following:

- 1) Pak Turk School, Islamabad
- 2) IMCB G-7/2 Islamabad
- 3) Stems College, Islamabad
- 4) Quaid-e-Azam Academy for Educational Development H-9, Islamabad
- 5) CUST University
- 6) Quaid-e-Azam University
- 7) APS school and college, Pasban Westridge
- 8) Bahria University E-8 Campus
- 9) Bahria University H-11 Campus
- 10) AGT Institute of Technical and Vocational Education, Rawalpindi
- 11) Supertech Institute Computer Science
- 12) Invoke Technologies
- 13) Govt. M.C Boys Model High School, Rawalpindi
- 14) Karakoram International University, main KIU road Danyore, Gilgit
- 15) Google form survey
- 16) Instagram surveys

- 17) On-site surveys**
- 18) Interviews**
- 19) Training sessions**
- 20) One to one discussions**
- 21) Knowledge providing group based discussions**
- 22) Open question answer sessions**
- 23) Feedback Surveys**
- 24) Social Media Pages**
- 25) Videos**
- 26) Brochure and pamphlet distribution**
- 27) Poster and banner pasting**
- 28) Social Media Campaigns to raise awareness regarding the importance of the issue of cyber security and what threats could it cause. This includes the creation of social media page to raise awareness, conducting online webinars, and online surveys.**
- 29) Public Campaigns**
- 30) Awareness walks**

- Different awareness drives in the form of campaigns were carried out by distributing brochures in person and wall-pasting posters at different places.
- Presentation sessions and interviews were arranged with different students and the officials to get a more practical view about cyber security.

5. ACTIVITIES/EVENTS:

5.1. SOCIAL ACTIVITIES:

We have done several social activities and the importance of doing them is as follows;

Networking: Participating in social activities, such as arranging webinars and networking events, helped us connecting with other professionals, institutes and individuals around the globe. This has provided us valuable insights and information.

Education: Participating in social activities, such as educational workshops, can help us gain new skills and knowledge that can be applied to the project. Social activities also help in team building, research and stakeholder engagement. But it's important to note that a balance of social and technical activities is crucial while working on a project. Therefore, we have performed on site activities as well. The digital activities are as follows:

- Instagram Survey
- Google form survey
- Webinars

5.2. ON SITE ACTIVITIES:

On-site activities can play a crucial role in ensuring the project. They allow for direct observation and interaction with the project environment, which can provide valuable information and insights that may not be apparent from remote or virtual interactions. On site activities includes awareness/presentation sessions in several universities, schools and colleges. We have conducted sessions in the following:

- 1) Pak Turk School, Islamabad
- 2) IMCB G-7/2 Islamabad
- 3) Stems College, Islamabad
- 4) Quaid-e-Azam Academy for Educational Development H-9, Islamabad
- 5) Quaid-e-Azam University
- 6) APS school and college, Pasban Westridge
- 7) Bahria University E-8 Campus
- 8) Bahria University H-11 Campus
- 9) AGT Institute of Technical and Vocational Education, Rawalpindi
- 10) Supertech Institute Computer Science, Rawalpindi
- 11) Invoke Technologies
- 12) Govt. M.C Boys Model High School, Rawalpindi
- 13) Karakoram International University, main KIU road Danyore, Gilgit

A separate and detailed overview of these visits will be discussed in the 7th section of this report.

5.3. PUBLIC OPINION (INTERVIEWS):

Taking public opinion is very important because interviews are an important tool in gathering information and insights during a project. They allow for direct engagement and communication with individuals who have knowledge, experience, or perspectives relevant to the project. This can provide valuable insights and understanding of the project context, goals, and challenges. Conducting interviews also allows to gather data that can support or refute hypotheses of the project, help to identify potential risks and opportunities, and to validate the findings of other research methods.

We have taken interviews from four instructors of training institutions/ the CEO of them.

The names and designations of them are:

- Haris Ahmed, CEO of Invoke Technologies and Instructoe at Supertech Institute of Computer Sciences.
- Parvez Akhter, Principal of AGT Institute of Technical and Professional Education
- Ms. Anila, Instructor at AGT Institute of Technical and Professional Education
- Mr. Jalal ud Din Bukhari, Senior Computer Programmer at PRC.

5.4. CAMPAIGNS:

Campaigns are important in a project because they help to increase awareness and engagement with the project, and can also help to attract additional resources and support. By creating and executing a campaign, project managers can effectively communicate the goals and objectives of the project, and build a sense of community and ownership among stakeholders. Additionally, campaigns can help to identify potential roadblocks and challenges, and can be used to gather feedback and make adjustments as needed. Overall, campaigns are a powerful tool for ensuring the success of a project.

We have done several campaigns which are as follows:

- Campaign within NUML
- Campaign within Bahria University H-11 Campus and E-8 Campus.

6. SOCIAL ACTIVITIES:

6.1. GOOGLE FORM SURVEY:

We made a google form survey aimed for the research of our project in order to collect the data from other individuals. The description of the survey is: is as follows:

Under the supervision of Dr. Athar Rashid, a group of students from the Department of Governance and Public Policy at the National University of Modern Languages (NUML) in Islamabad is doing a social action project named "SDG Scouts for Cyber Security." This project's main goals are to teach young people about cyber security, help people who live below the poverty line acquire digital skills, and give them the tools they need to defend their data against malicious software and hackers.

All of the questions are directed by the project's students in an effort to assess young people's understanding of cyber security. Following are some questions that need to be asked in order to know the thoughts of the public and youth regarding this topic in Pakistan, taking into account previous research and gap analysis

The questions are:

- Email?
- City?

SDG Scouts for Cyber Security

- Province?

- You are a?

Options: Student/ Freelancer/ Businessman/ Government Employee/ Teacher/ Other

- Do you have an antivirus software installed on your PC/Mac?

Options: Yes/No/Maybe

- How aware are you about cyber crime?

Options: Very well/ I know about it/ Not so well/ Don't know

- How safe do you feel about your information when you are online?

Options: Very safe/ Safe/ Not safe/ Don't know

- Do you feel it essential to be safe online?

Options: Strongly agree/ Agree/ Neutral/ Disagree/ Strongly disagree

- Have you ever lost money due to cyber crime?

Options: Never/ I was overcharged/ Fruad via merchandise/ Money got deducted from bank account/Can't say

- Have you ever experienced any of these situations?

Options: Trojan or malware/ auto generated mails to your inbox/ publishing obscure material on your profiles/ confidential reports/ information being hacked/ Never experienced such situation

- Have you stopped shopping online due to this issue?

Options: To some extent/ Stopped it completely/ Does it only on high trusted websites/ I do shopping online very frequently/ I don't shop online.

- How many times have you been a victim of cyber crime?

Options: Never/ 2 times/ 2-5 times/ More than 5 times

- Do you think that the laws in effect are able to control cyber criminals?

Options: Strongly agree/ Agree/ Neutral/ Disagree/ Strongly disagree.

We have yet got almost **70 responses** of the survey which aims to analyze the knowledge of students/youth regarding cyber security, how much they know about it and what kind of issues they have faced regarding cyber security.

6.1. GOOGLE FORM SURVEY ANALYSIS:

The responses are as follows:

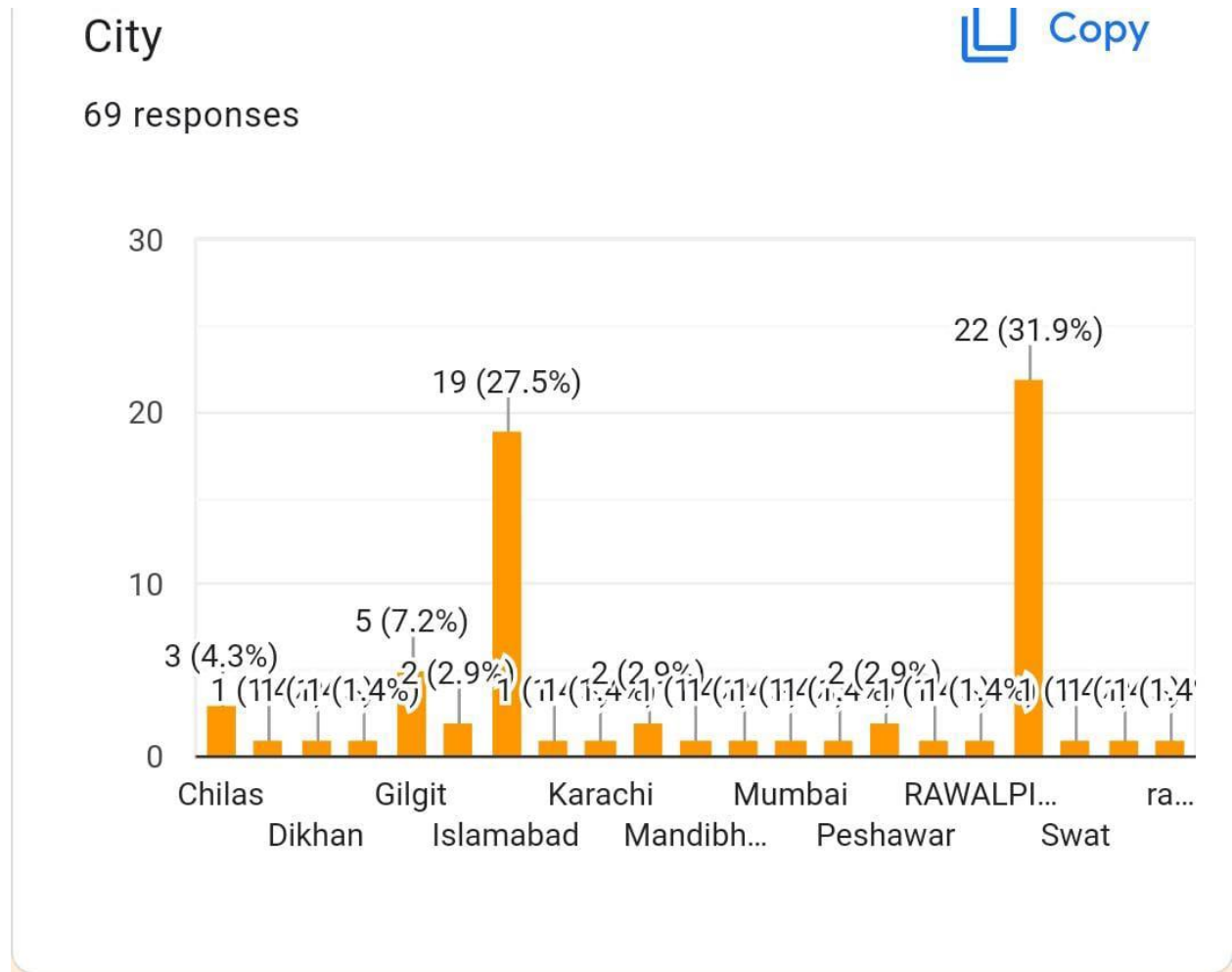


Figure 1.1

Maximum, that is 31.9% of the people who responded, belong from Rawalpindi.

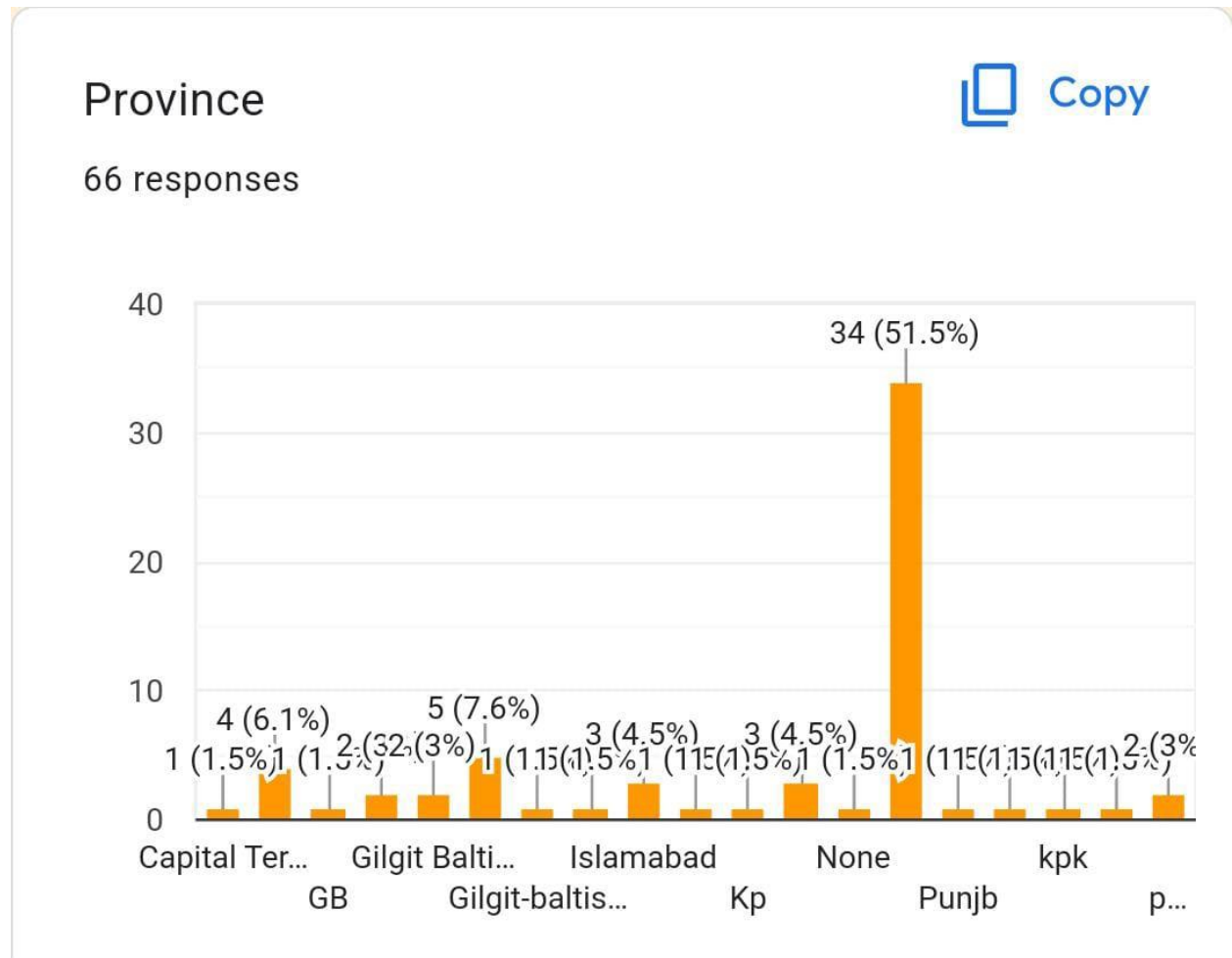


Figure 1.2

51.5% (maximum) of the respondents were from the province Punjab.

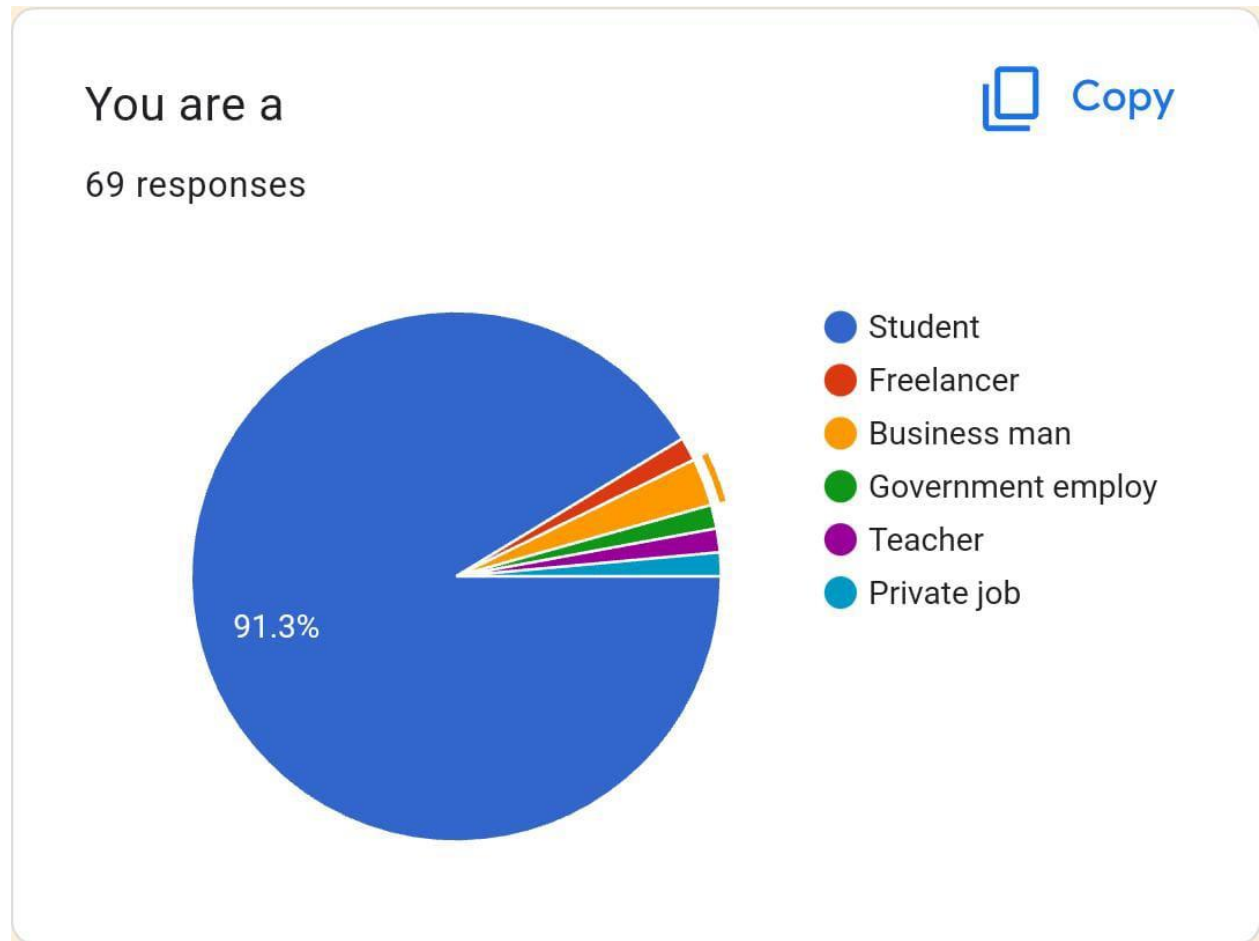


Figure 1.3

91.3% of the respondents are doing private jobs and the others were students, freelancers, businessman, government employees and teachers.

Do you have an antivirus software installed on your PC / Mac ?



69 responses

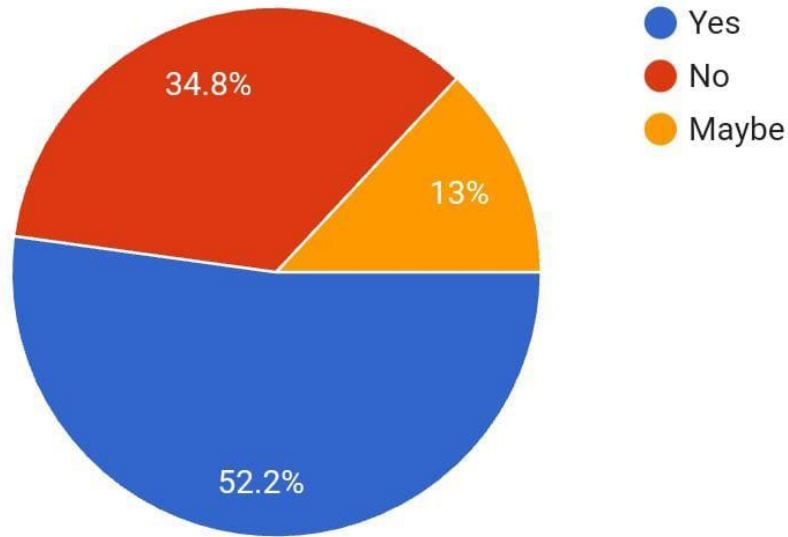


Figure 1.4

- Yes: 52.2% of the respondents have an antivirus software installed on their PC/Mac.
- No: 34.5% of the respondents have not an antivirus software installed on their PC/Mac.
- Maybe: 13% of the respondents were not sure.

How aware are you about cyber crime



69 responses

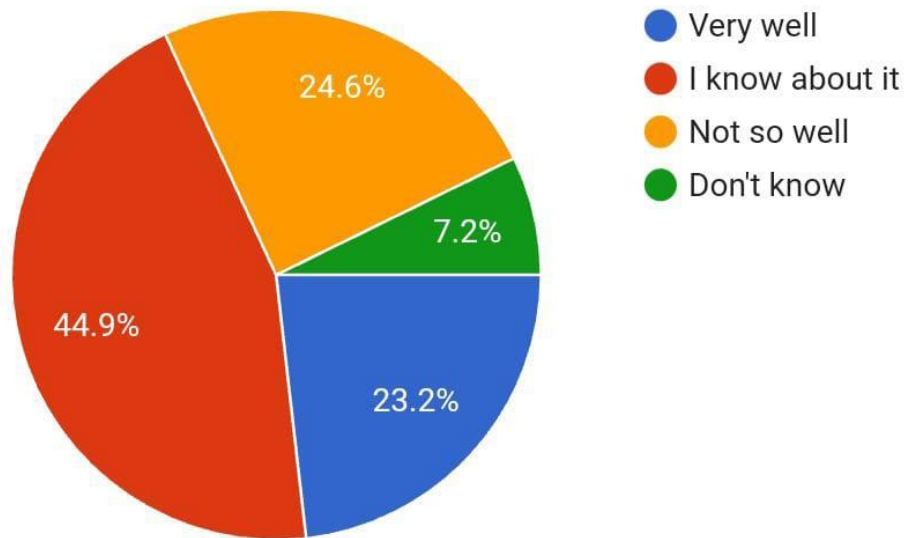


Figure 1.5

- 44.9% of the respondents know about cyber security
- 23.2% of the respondents know very well about cyber security
- 24.6% know not so well
- 7.2% don't know

How safe do you feel about your information, when you are online?



69 responses

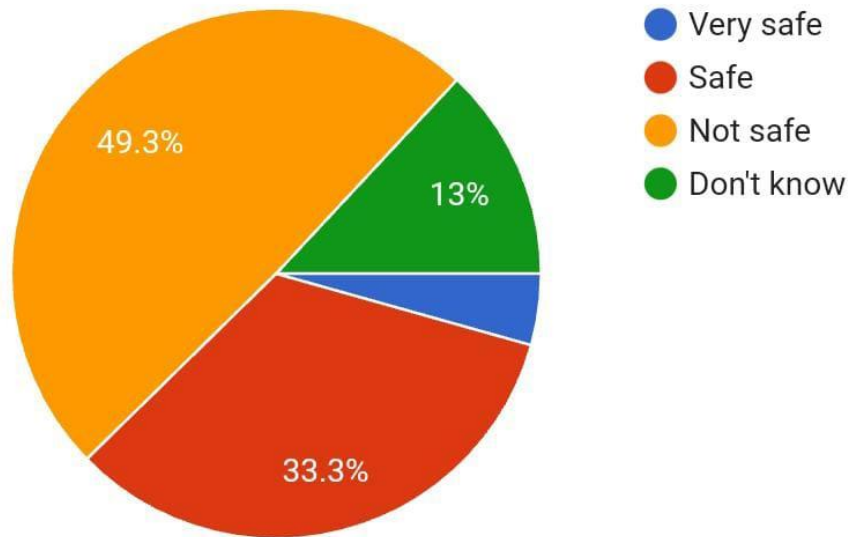


Figure 1.6

- 49.3% of the respondents do not feel very safe about their information when they are online.
- 33.3% of the respondents feel safe about their information when they are online.
- 13% of the respondents don't know that if they feel safe about their information when they are online or not.

Do you feel it is essential to be safe online?



69 responses

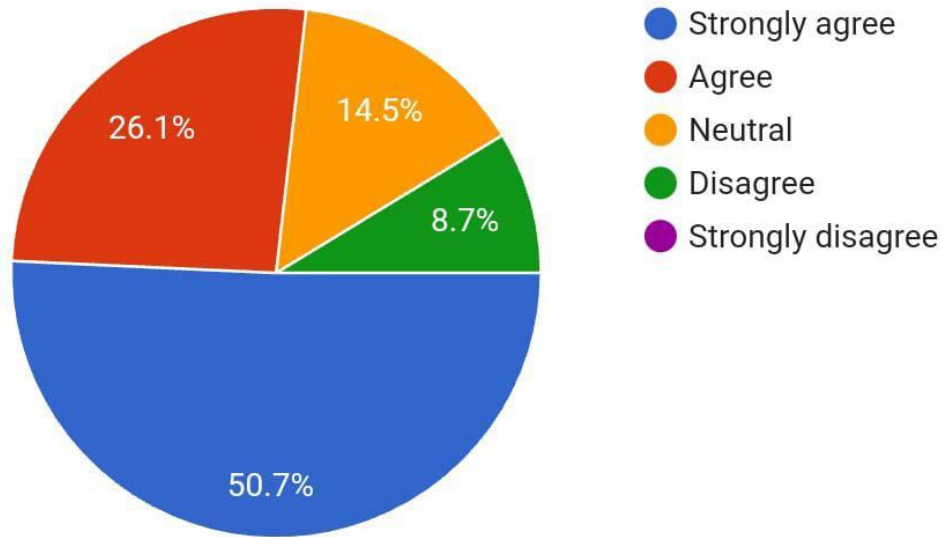


Figure 1.7

- 50.7% of the respondents strongly agree that it is essential to be safe online
- 26.1% agree that it is essential to be safe online
- 14.5% answered neutral that it is essential to be safe online
- 8.7% disagree that it is essential to be safe online

Have you ever lost money due to Cyber Crime?



68 responses

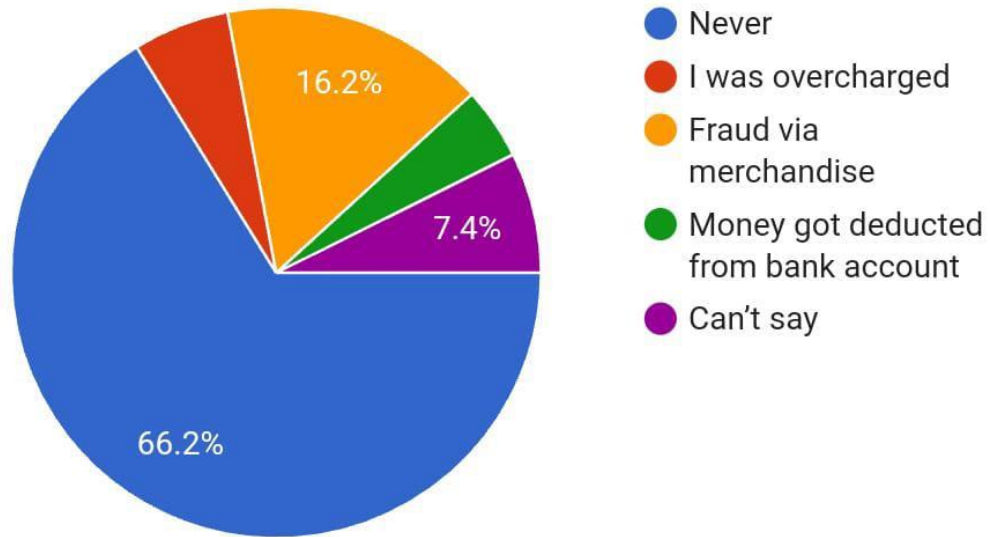


Figure 1.8

- 66.2% of the respondents answered that they have never lost money due to cyber crime.
- 16.2% of the answered that they have had a fraud via merchandise
- 7.4% didn't say

Have you ever experienced any of these situations?



69 responses

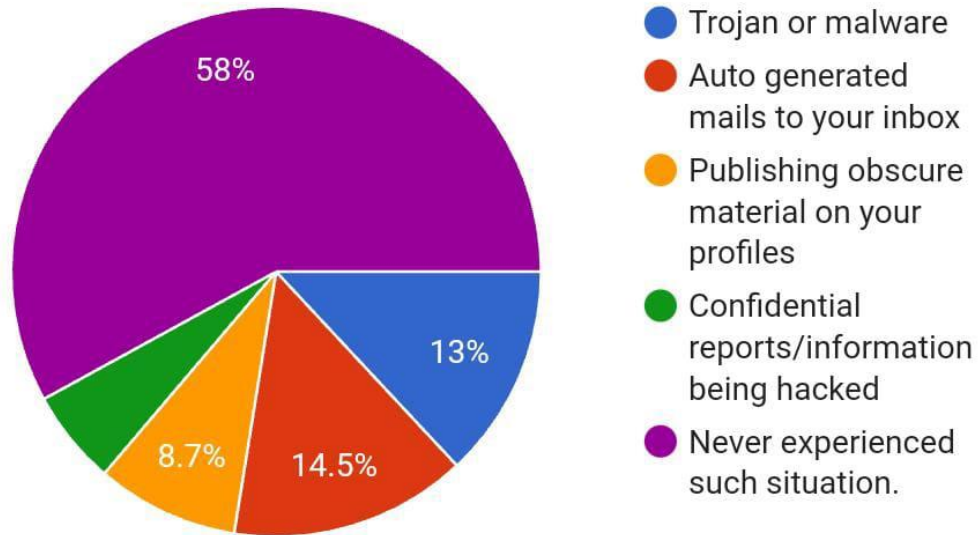


Figure 1.9

- 58% of the respondents have never experienced such situation
- 14.5% of the respondents have experienced auto generated mails to their inbox
- 13% of the respondents have experienced trojan or malware

Have you stopped shopping online due to this issue?



69 responses

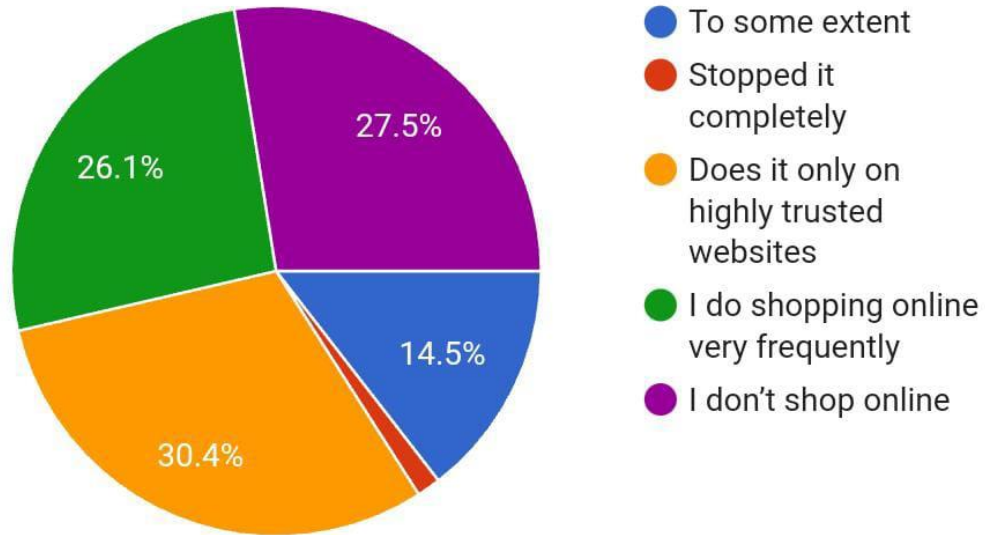


Figure 1.10

- 30.4% of the respondents only do shopping online with the trusted websites
- 27.5% of the respondents do not shop online
- 26.1% of the respondents do online shopping online very frequently
- 14.5% of the respondents do online shopping to some extent

How many times have you been a victim of a cybercrime?



69 responses

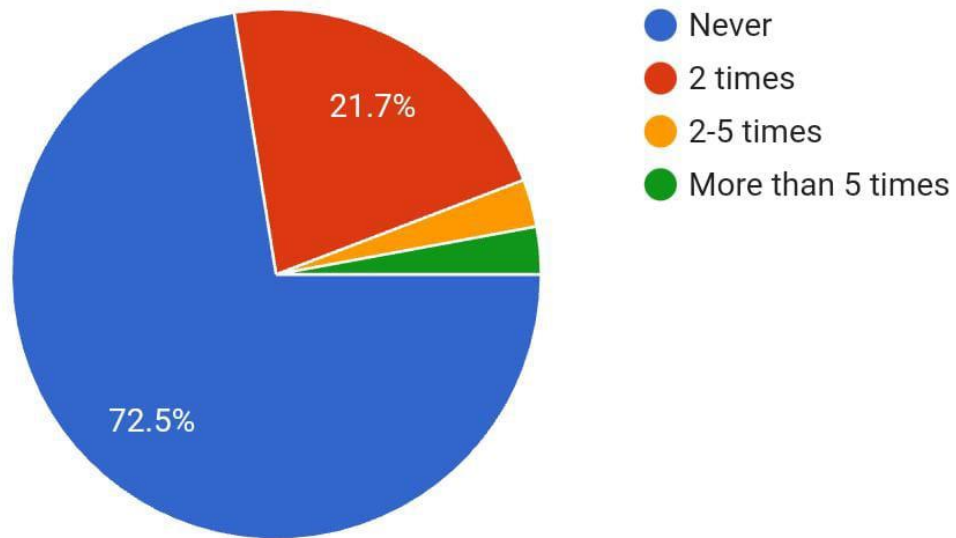


Figure 1.11

- 72.5% of the respondents have never been a victim of cyber crime
- 21.7% of the respondents have been a victim of cyber crime 2 times

Do you think that the laws in effect are able to control cyber criminals?



69 responses

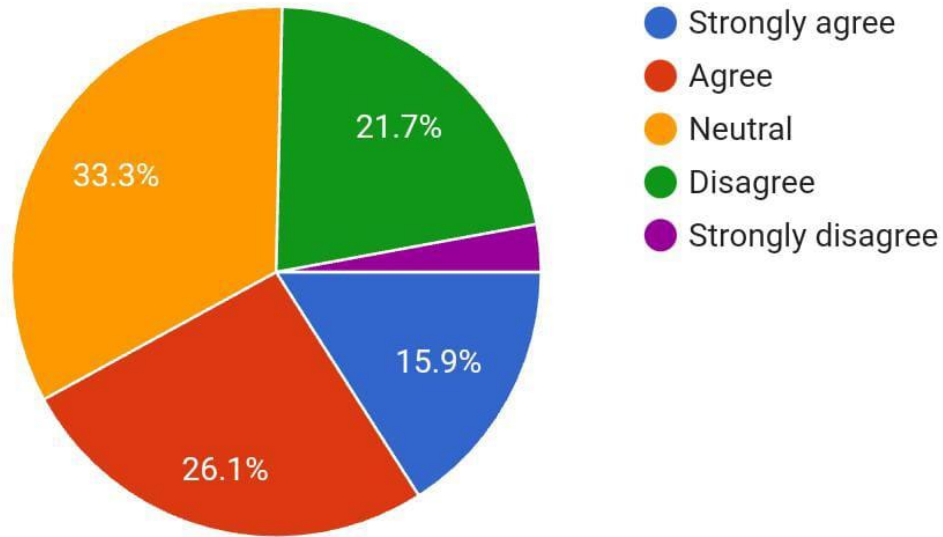


Figure 1.12

- 33.3% of the respondents answered neutral that the laws in effect are able to control cyber crime.
- 26.1% of the respondents agree that laws in effect are able to control cyber crime.
- 21.7% of the respondents disagree that the laws in effect are able to control cyber crime.
- 15.9% of the respondents strongly agree that the laws in effect are able to control cyber crime.

6.2. WEBINARS, AND THEIR ANALYSIS:

First webinar with the 8th grade students of APS & C,

Pasban Westridge.

A 45 minutes awareness webinar was conducted with students of APS on 17th Dec, 2022 at 5:00 pm in which 20 participants were present.

Description:

The students in this age group—11 to 13—are where it all begins. Children today start using personal cell phones at a very young age but are ignorant of cyber security risks. Children spend a lot of time using digital technologies, yet they are genuinely ignorant of how these devices could both hurt them (cyber security) and help them (skills generation). They have no idea how their abilities could propel them to lofty positions. They lack the knowledge necessary to communicate, develop, and use or sell their abilities and talents. So, let's start with them by instructing and preparing them. For this, on December 17, 2022, at 5:00 p.m., we successfully conducted a 45-minute awareness session (webinar) with 20 eighth-grade students from Army Public School. The session went well, and the students had good questions about their creative

pursuits (skills), how to market them, and how to make money using those skills. These students require our guidance because they are having so much trouble with them.

“We cannot always build the future for our youth but we can build our youth for the future”.

Some screenshots of the webinar conducted with the students of APS & C Pasban Westridge are:

LIVE WEBINAR
On cyber security awareness and encouragement of students for skill incorporation.

17th December, 2022
5:00 pm-5:40 pm

MEET OUR SPEAKERS

AHMED FAIZAN
BS 4 (Morning)

SABAHAT HAYAT
BS 4 (Morning)

ALI MOHYUDDIN
BS 4 (Morning)

ABOUT THIS WEBINAR

This is an online awareness session arranged by students of NUML from the Governance and Public Policy department. It is a part of our social action project which aims to educate youth about cyber security, integrate digital skills into their lives, and empower them to protect their information from hackers and harmful viruses.

JOIN THIS WEBINAR TOMORROW THROUGH [HTTPS://MEET.GOOGLE.COM/DAF-SROH-FKR](https://meet.google.com/DAF-SROH-FKR)

Webinar brochure.

All transcripts / Meeting Transcription 17-12-2022

Add to team folder Export to PDF Email Copy link

Search in transcript

Meeting Transcription 17-12-2022

Recorded by Sabahat Hayat
Last updated 38 minutes ago

Meeting Started: 12/17/2022, 5:07:40 PM

Duration: 45 min

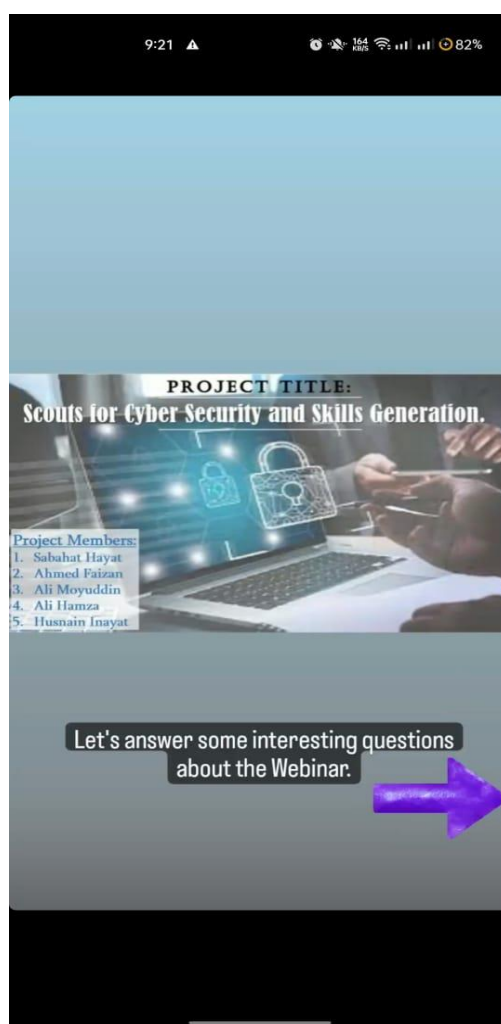
The screenshot shows a Zoom meeting interface. On the left, a sidebar titled 'About this call' lists participants: Sabahat Hayat (You), Sabahat Hayat, Ahmad Hassan 5 A, Ahmed Faizan, Ali Mohyuddin, Alizah, Arsheen Malik, Eman mazhar6A, hamdanz king12, Innocent Girl, Laraib Tariq, Malik Dawood, Maryam RabNawaz, Muqaddas Mehtab, Naheeda Khanum, Qaswa batool, Qudsia Abbas, Savira Waseem, Urwa Shafiq, Zainab Mehtab, and Zunaira Amir. On the right, a presentation slide titled 'Importance:' is displayed. The slide is divided into two columns: 'Hard Skills' (blue background) and 'Soft Skills' (orange background). The 'Hard Skills' column includes a lightbulb icon and text: 'Refer to teachable skills or job-specific abilities that can be quantified or measured.' The 'Soft Skills' column includes a handshake icon and text: 'Refer to an individual's social ability and how they relate to and interact with other people.' Below the slide, a control bar shows 'Sabahat is presenting' and icons for mute, video, and chat. At the bottom, a grid of participant tiles is visible, showing Sabahat and Eman among others.

Webinar participants and time.

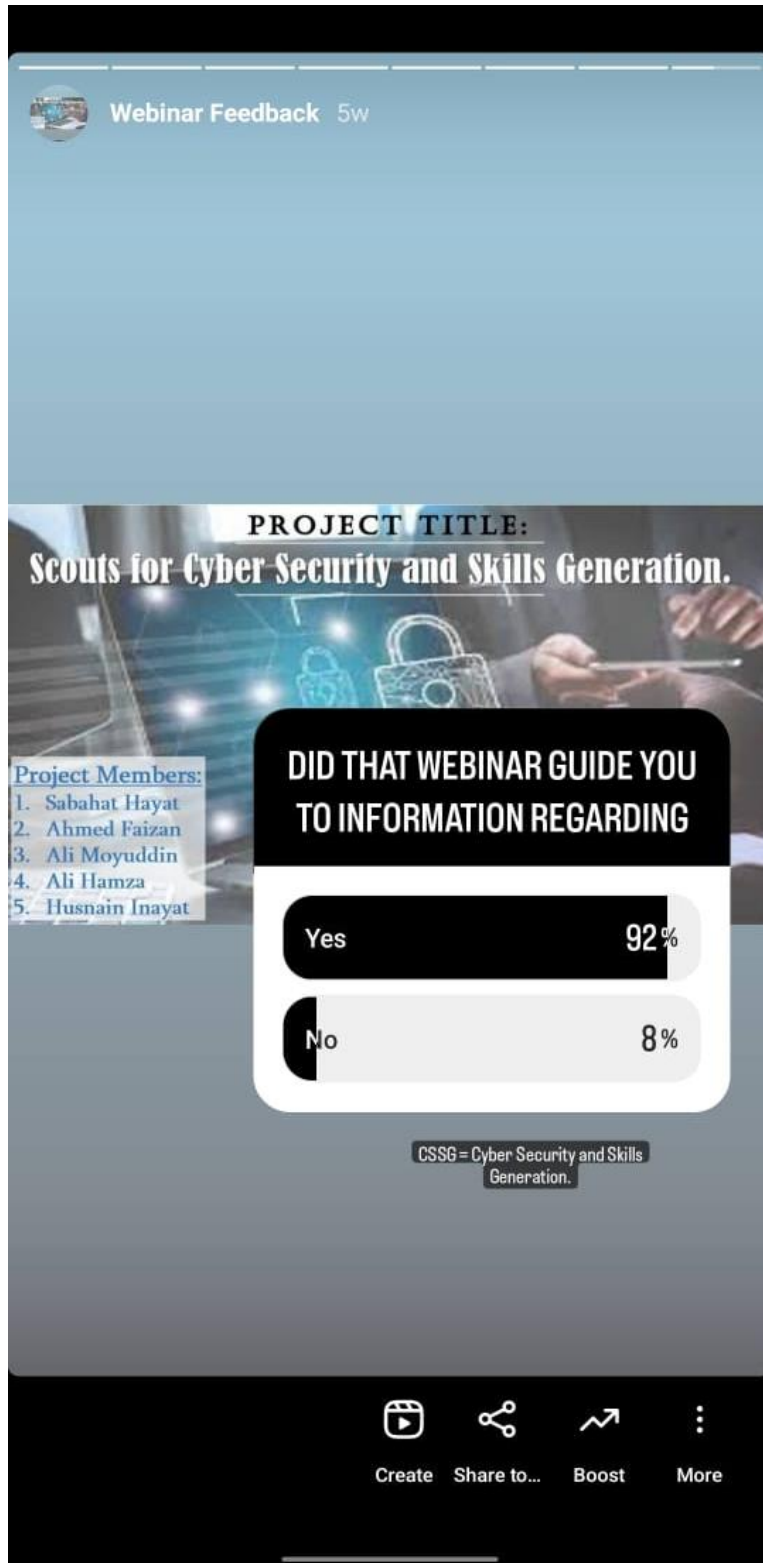
The review of students for whom the webinar was scheduled were surveyed. The main goal of the webinar was to raise awareness among students, and we were successful in that endeavour.

We discovered through polling that the students were really pleased with the webinar and that it had been helpful in their knowledge acquisition.

The attendees comments and reviews are as follows:



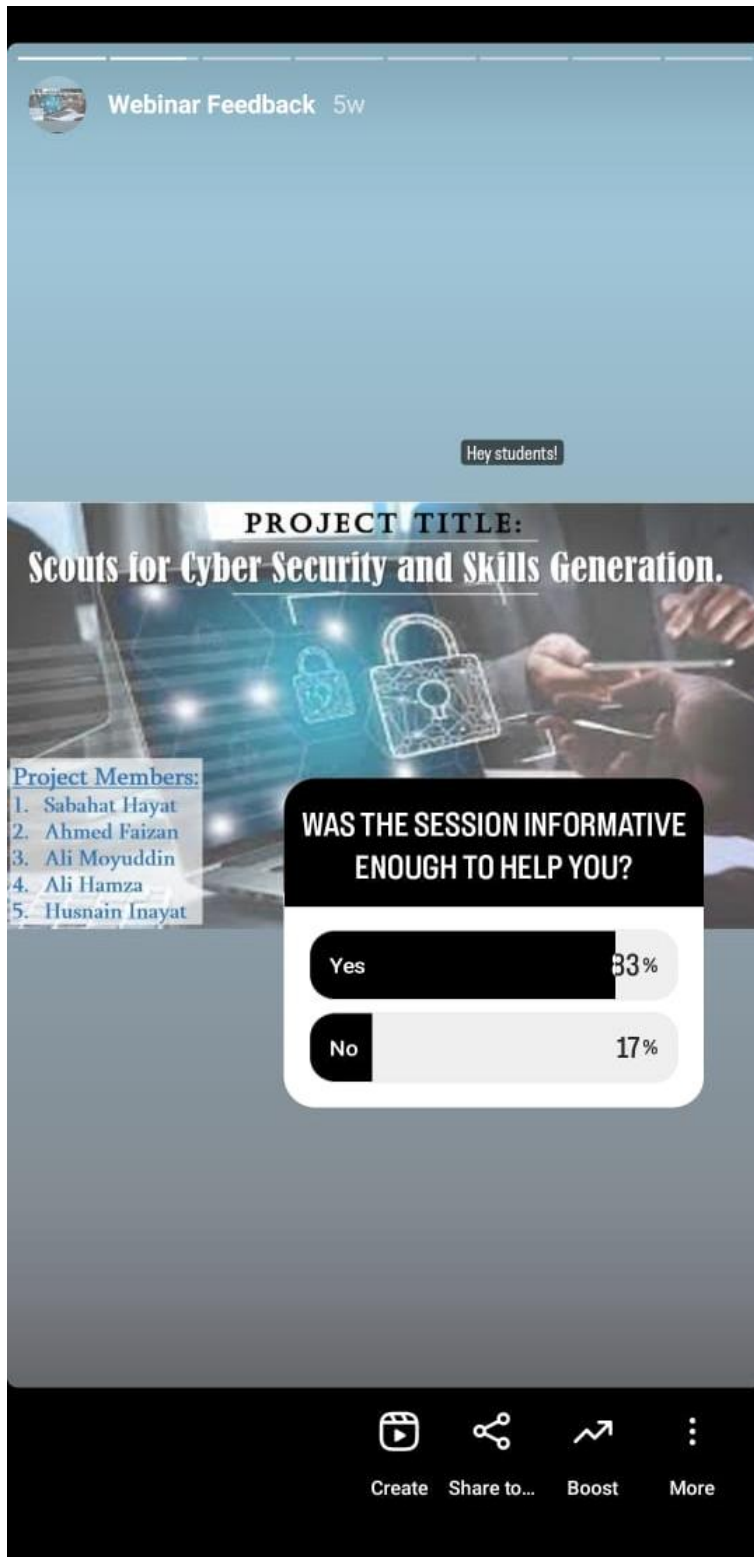
Webinar feedback Figure 1.1



Webinar feedback Figure 1.2.



Webinar feedback Figure 1.3

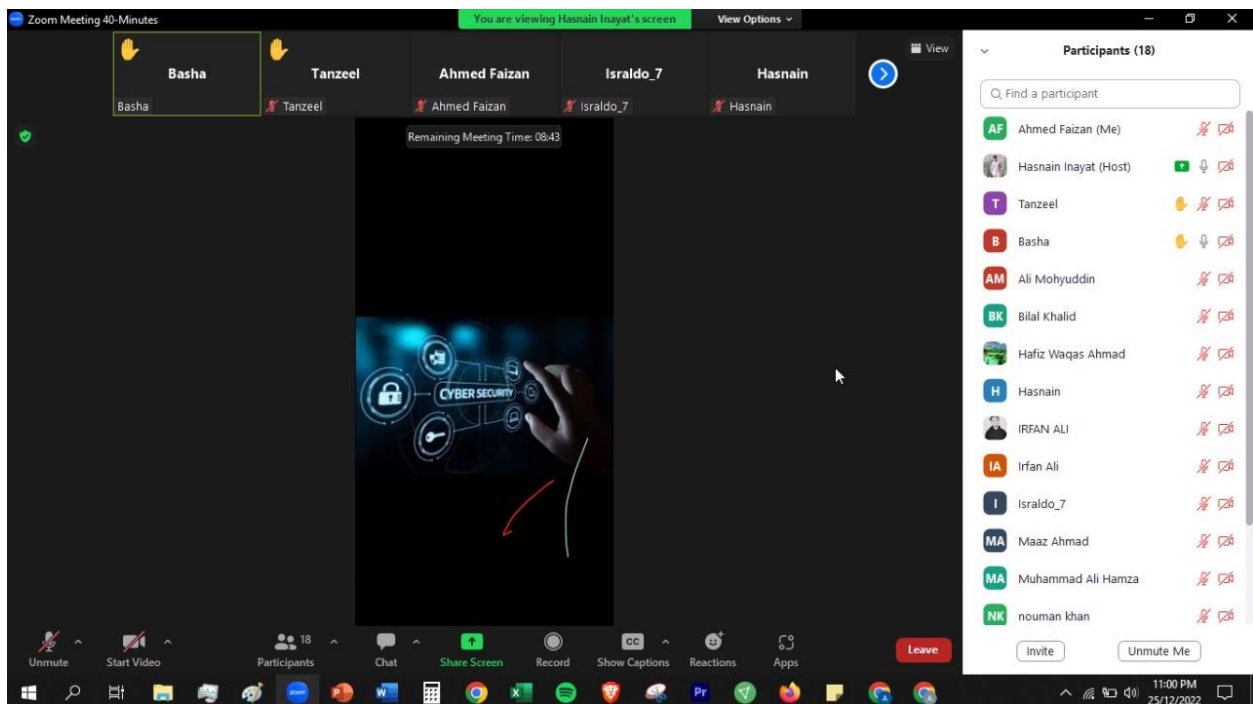


Webinar Feedback Figure 1.4

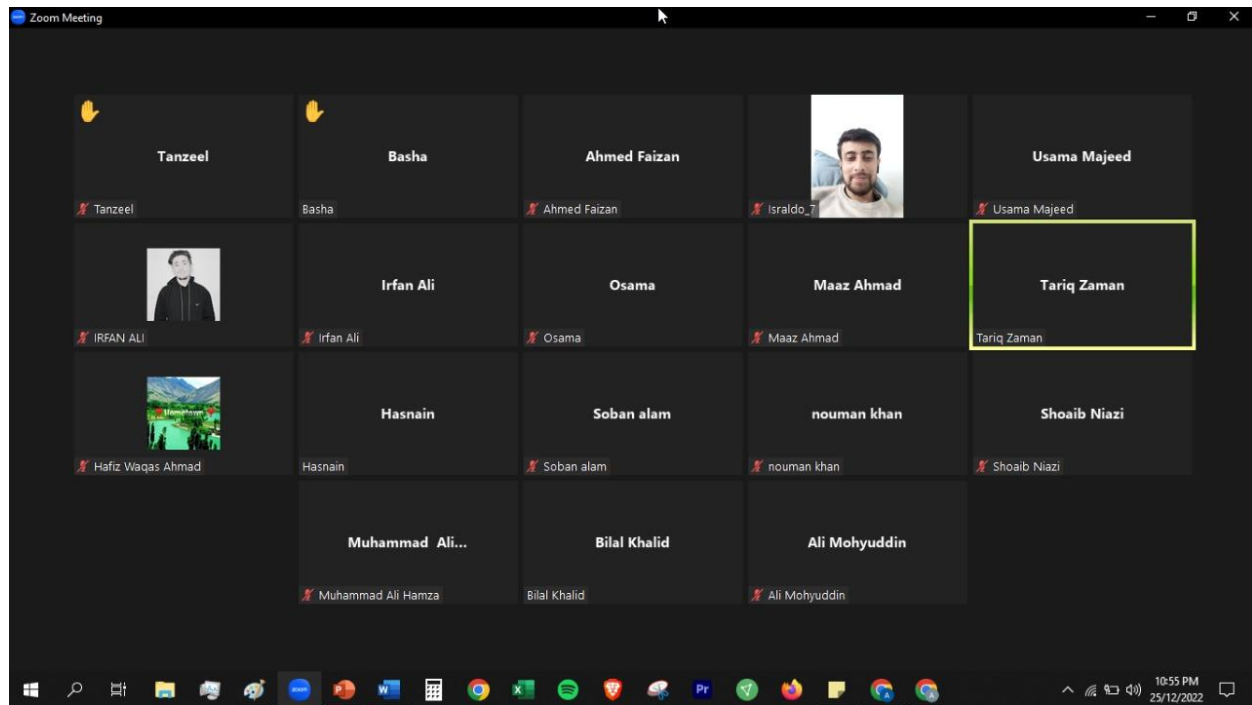
Second webinar with Karakoram International University, main KIU road Danyore, Gilgit:

Online interaction can be done around the globe by the usage of technologies. Therefore, we have conducted a webinar with a Gilgit University as well, in which 18 participants were present.

Some screenshots of the webinar are:



Webinar with KIU, GB

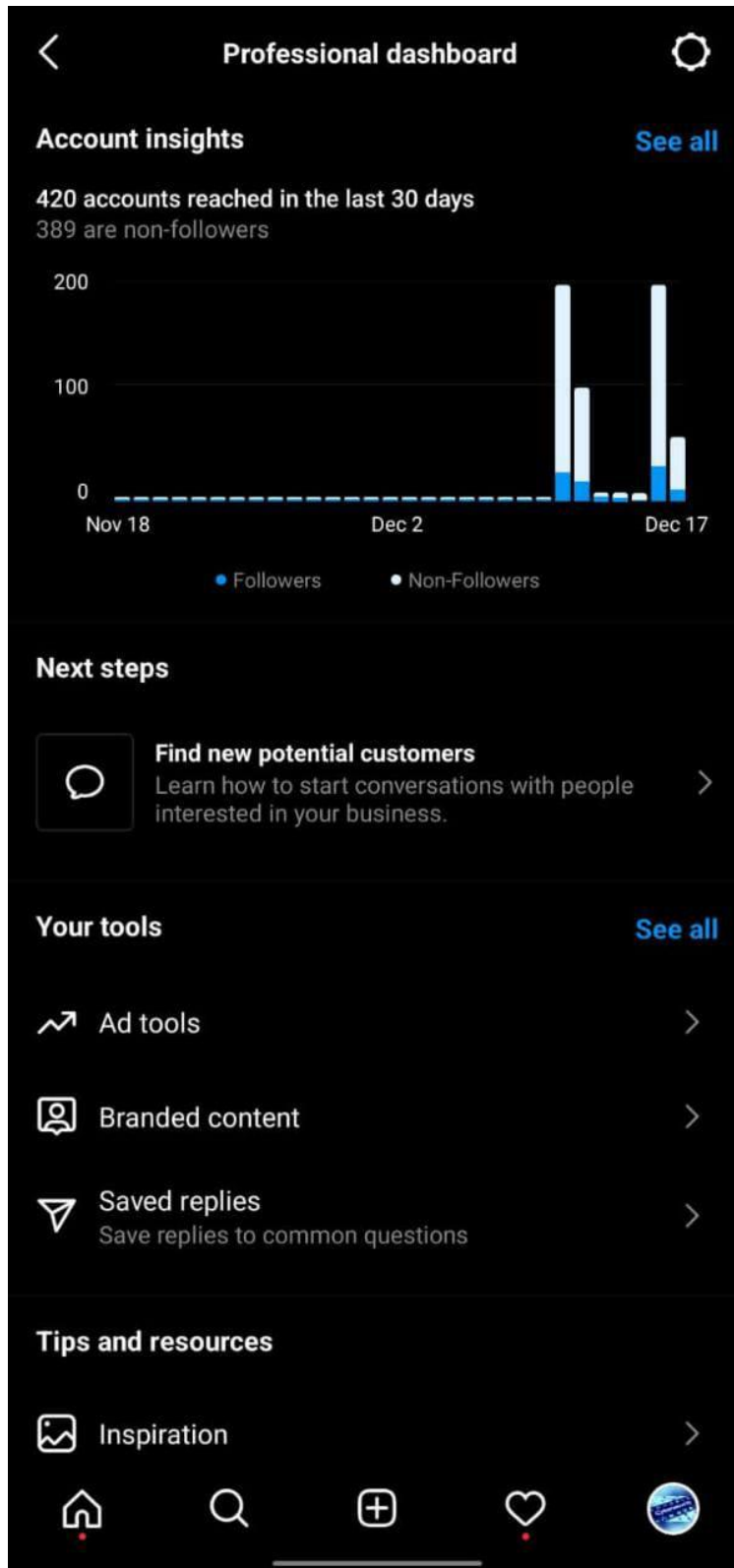


Webinar participants of KIU.

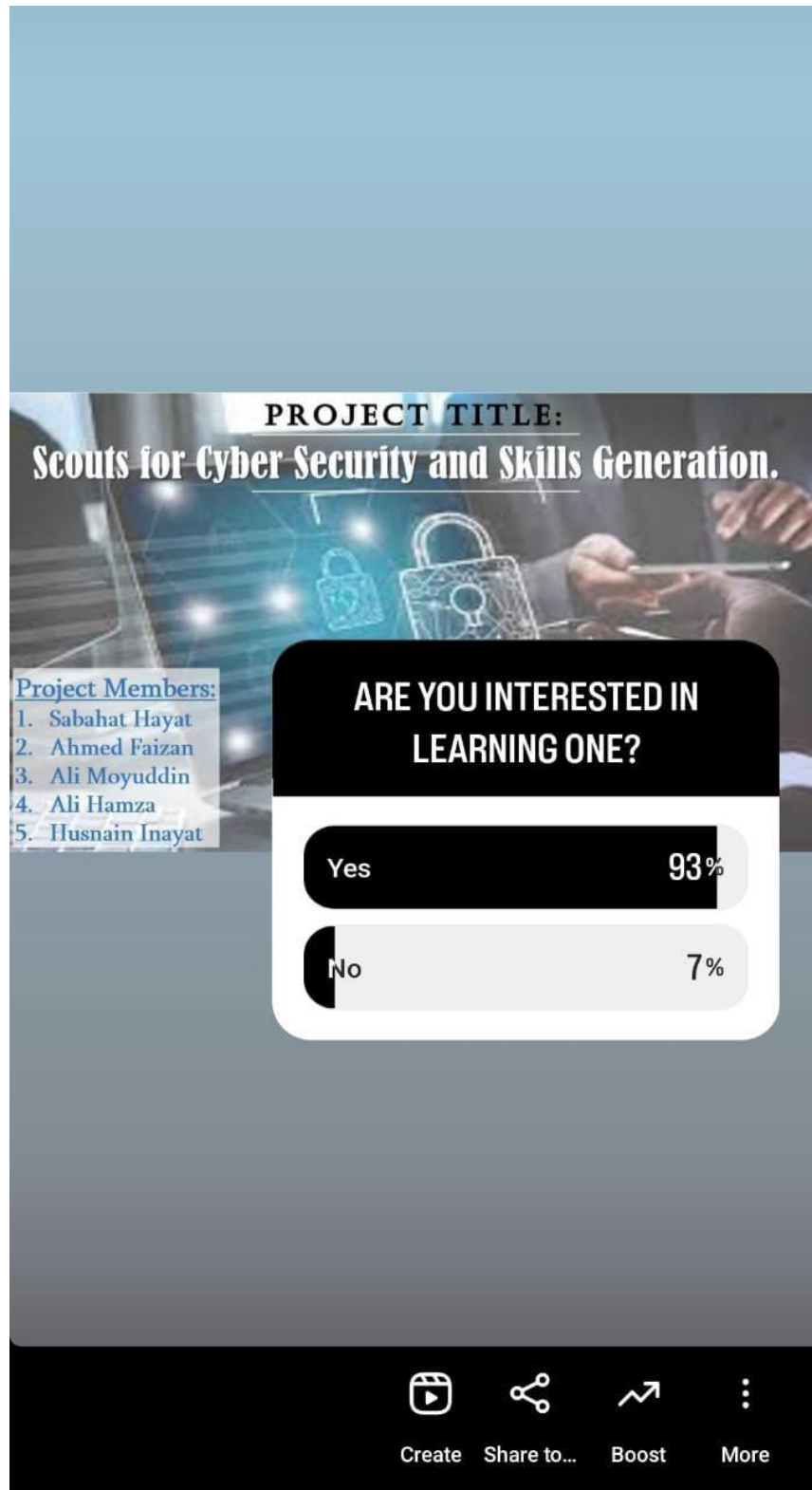
The attendees of the webinar from Gilgit Baltistan appreciated our team for awaring them about cyber security as they had little o no knowledge about it.

6.3. INSTAGRAM SURVEY AND ANALYSIS:

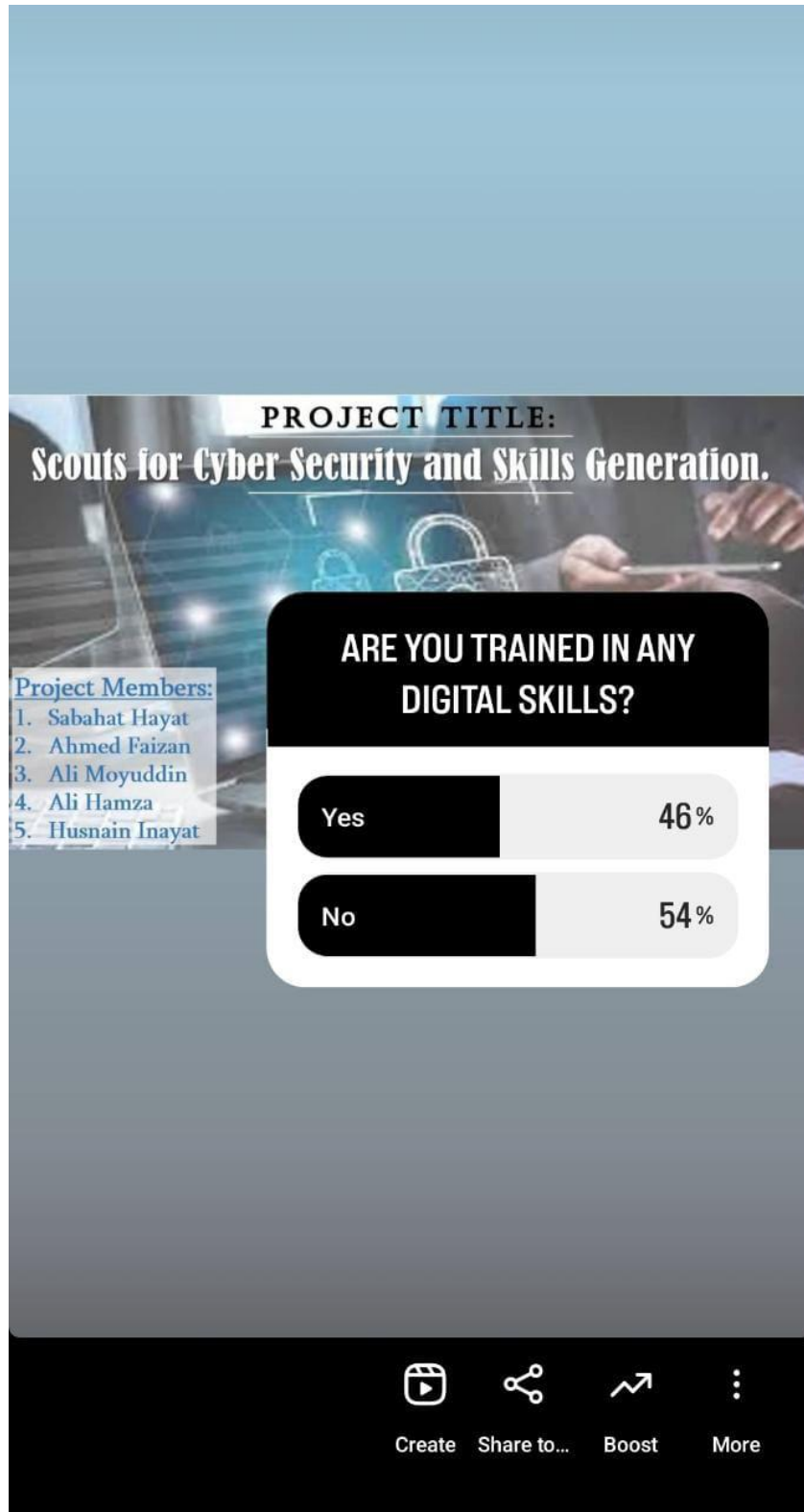
We are having more than 50 followers on our instagram account and we are awaring our followers about cyber security by posting a useful content. We have even conducted a polling instagram survey from our followers about cyber security. The screenshots are as follows:



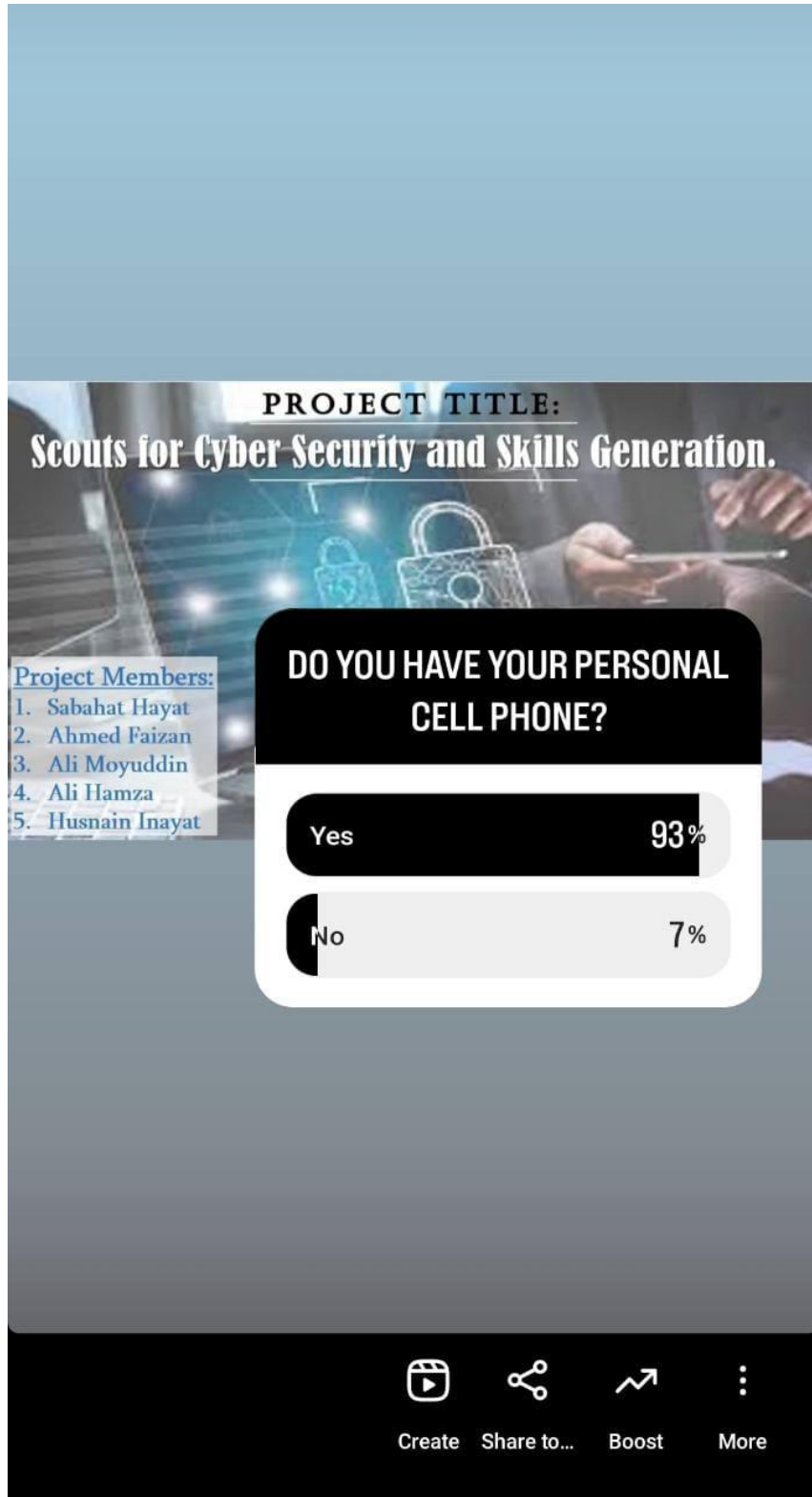
Instagram page.



Instagram Survey Figure 1.1



Instagram Survey Figure 1.2



Instagram Survey Figure 1.3



Instagram Survey Figure 1.4

7. ON SITE ACTIVITIES:

7.1. VISITS:

Stakeholders:

Stakeholders of cyber security includes:

- Youngsters
- Web/app developers
- Database
- IT Industry
- Banks
- Business holders
- Administrators in educational institutions
- Teachers
- Students

We organized an awareness campaign in Bahria E8 on Dec 23, 2022 and in Bahria H-11 on Dec 26, 2022, where university students received brochures and posters. And we explained the idea of cyber security to them. Following this, we recorded their opinions and any experiences with cyber security. Due to the problems with cyber security that the students had to deal with, it was crucial to inform them of the relevant precautions and skills that could resolve such issues. We

finally wrapped up the interviews by advising them on the safeguards.

Moreover, we have also visited:

- Army Public School & college, Westridge 3
- AGT insitute of technical and professional training, Saddar
- Supertech insitute of computer sciences, Saddar
- Pak Turk School, Park road
- QAED, Quaid-e-Azam Academy for Educational Development.
- Government MC boys school, Sattelite town
- Stems college, G-10
- IMCB, G-7/2

Images:

Some pictures of the visits which we have done are as follows:



At Bahria Uni H11



At Bahria Uni H11



At Bahria Uni H11





At Bahria Uni H11



At Bahria Uni H11



At Bahria Uni H11



At APS & C



Stems College, Islamabad





APS & C



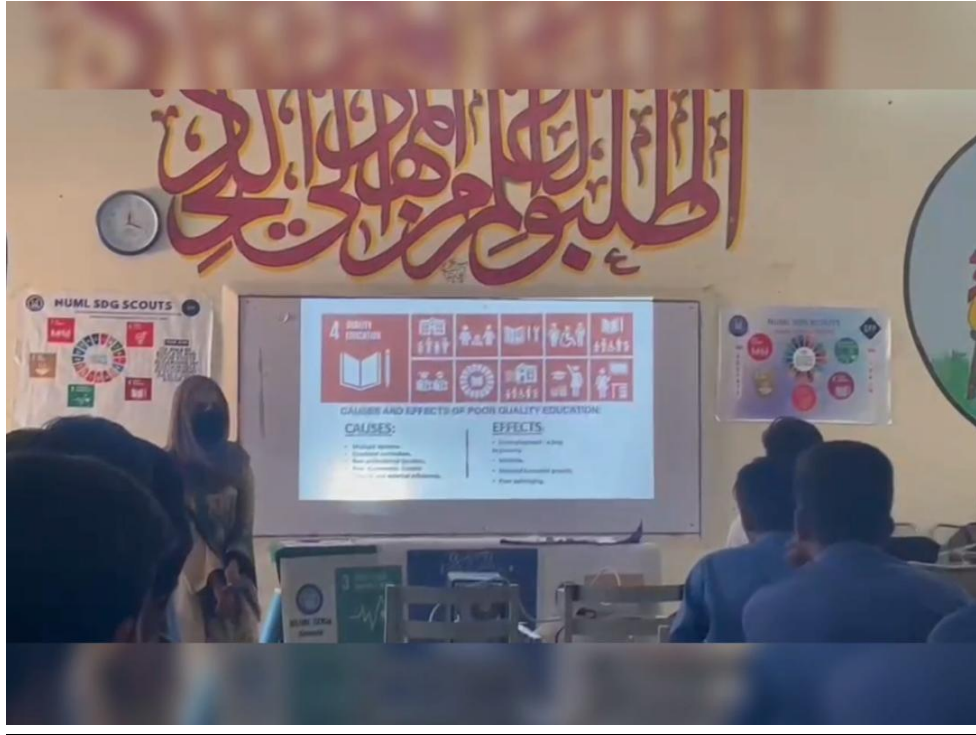
Bahria Uni H11





APS & C





Pak Turk School & Gov Boys School



IMCB G7/2





QAED



8. PUBLIC OPINION:

We have conducted interviews with the management department as well. We asked several questions in interviews which are as follows:

1. How well-versed in cyber security are you?
2. Have you ever had a cyber-related issue with you or someone nearby? If so, what sort of problem was that? If you feel comfortable disclosing.
3. Do you worry about the security of your own data, and are you worried about cybercrimes?
4. Do you think there is any connection between skill generation and cyber security?
5. What are the top skills that your institute is teaching in terms of demand?
6. Do you believe that these talents will enable them to earn more money in the future?

8.1. INTERVIEW # 01:

Parvez Akhter, Principal of AGT Institute of Technical and

Professional Education:

A basic description of the institute is that it is situated in Rawalpindi's Bank Road Saddar. AGT Tech, a leading technical college, is dedicated to enhancing people's lives through cutting-edge

technology and teaching methods. AGT Tech, a premier technical and professional institute, offers more than 20 cutting-edge labs and workshops dedicated to multidisciplinary training and courses that regularly provide crucial creative solutions to the Pakistani government, business, and industry.

This institute has embraced the idea of limitless potential in all top technical trades for almost ten years. Without a doubt, AGT Tech stands out as a uniquely different kind of institution, one that is eagerly supporting and growing Pakistan's human capital in light of the cutting-edge technology of the twenty-first century. Because they are better knowledgeable about cyber security, as they could encounter issues regarding it. So, in order to learn more about the difficulties they confront as skill-teaching teachers, we interviewed the Principal of AGT Mr. Parveiz Akhter who was very well aware of top-demanded skills, cyber crimes, cyber security precautions, and more than that.

Mr. Parvez faced a cyber attack on his credit cards which he used to pay his companies advertisement charges. He is also holding a position in an institute where students are taught the web and app development skills. He answered all the questions in the 13 minute interview session.



AGT Principal, Parveiz Akhter

8.2. INTERVIEW # 02:

Jalal ud din Bukhari, Senior Computer Programmer at

PRC:

Mr. Jalal ud Din Bukhari is related to cyber security as his department is responsible of providing IT services and data security to the NARC (National Agriculture Research Centre).

We have had a 30 minutes session with them but the session was not recorded as it was not allowed to.

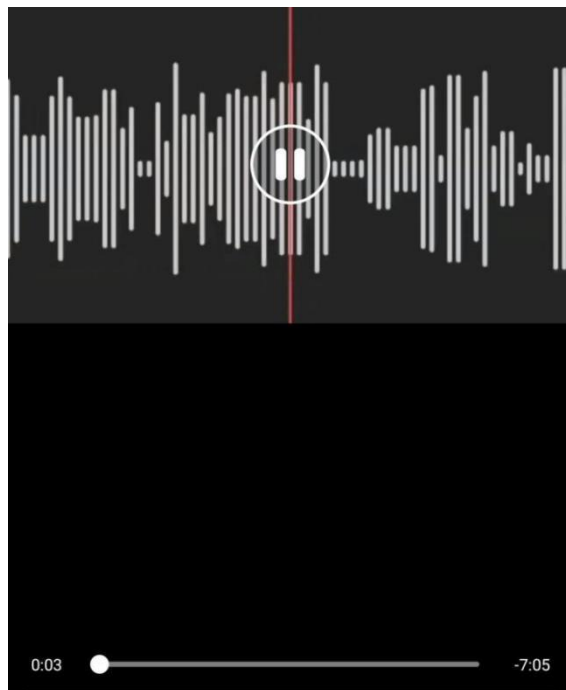
8.3. INTERVIEW # 03:

Miss Anila Shahid Khan, IELTS Instructor and HOD of

English Department at AGT:

Miss Aneela was well aware of the precautions because she had experienced ransomware last year, in which her data was stolen and she was asked to pay money to get it back. She shared one of her friends' experiences with us: once, her college friend went for some data installation on a USB, but at the same time, her data was stolen by the person. The person then started

blackmailing her, and the issue went to her home. Miss Anila is now more concerned about data security as a result of that incident, and she takes the necessary precautions.



AGT Instructor, Ms. Anila.

8.4. INTERVIEW # 04:

Mr. Haris Ahmed, Python C++ Instructor at Supertech

Institute of Computer Sciences and CEO of Invoke

Technologies Rawalpindi:

Haris Ahmed is a Python C++ Instructor at Supertech Institute of Computer Sciences and CEO of Invoke Technologies Rawalpindi. Mr. Haris wrote his thesis on cyber security and he is well known with the issue of cyber attacks. He in his institution teaches programming languages like Python, Javascript, SQL, and HTML.

A snapshot which was taken while interviewing him can be seen below:



Supertech Instructor and CEO of Invoke Technologies

9. CAMPAIGNS:

Team “**SDG Scouts for Cyber Security**” also carried out awareness campaigns at different places to raise awareness among the general public regarding the hazardous effects of not being concerned about data security and why it is important. We started our drive within the premises of National University of Modern Languages, Islamabad. We also carried out the campaign in several universities of Islamabad. We had prepared brochures for the public campaign. We distributed the pamphlets among the public. Following are the points that we discussed with the public during the campaign:

- Firstly, we introduced and explained the main agenda behind our Social Action Project and how a small careless attitude regarding our data can harm us.
- We asked the public to properly implement the precaution while they are connected with their technologies.
- We made them understand how their conscious efforts can create a huge difference.

SDG Scouts for Cyber Security

- We made them realize that in this world of growing technologies, we need to be more aware and shouldn't trust every software.
- We asked them if they have faced any cyber issue.
- We also asked them to give their views regarding the importance of cyber security.
- We asked them to preach this message to other people as well.

The public showed a positive attitude towards our SAP campaign, and they appreciated us by saying, "Keep up the good work." Team SDG Scouts for Cyber Security thanked the public for giving us their valuable time.



Bahria Uni E8



Bahria Uni H11



Bahria Uni E8



Bahria Uni E8



Bahria Uni E8

10. OBJECTIVES ACHIEVED:

The main aim was to create awareness among youth and internet users and we have done it through public awareness campaigns, drives, distribution of brochures, social media campaigns, google form surveys, by visiting several institutes including schools, colleges, and universities.

As the issue of cyber security is majorly linked with the individuals, businesses and organizations using internet and digital technologies/devices therefore, we have visited certain skill providing institutes. As these institutes are training individuals for becoming the experts in different fields. Therefore we have collected the data from them for analysis as well. Through all these different activities, we have ensured that people became aware of cyber security and have known the concept clearly.

- Our foremost consideration was to aware, educate and train them and so we have tried to do that.

11. OUTCOMES:

The following are the outcomes of our project.

- People appreciated our work as the issue is though common but many of them were not aware that how serious this issue is.
- Many people helped us by giving suggestions for educating youth and many of them started to follow our page to stay in touch with the cause.
- Some people assured us that they will pass the brochure forward and will aware their friends about the issue.
- They also assured us that they will start following the necessary precautions regarding their data security.
- Furthermore, as mentioned before that we have visited several institutes. The management department/ principal of the institutes have appreciated us and this initiative a lot.
- The further outcomes includes the identification and analysis of current cyber security threats and vulnerabilities.
- Educating youth about the implementation of security measures, such as data encryption and network segmentation, to protect against cyber attacks

- Education and awareness programs for individuals and organizations to improve their understanding of cyber security risks and best practices
- Evaluation of the effectiveness of the implemented security measures and recommendations for future improvements.

12. IMPACTS OF OUR PROJECT:

- We have personally started implementing the precautions for the security of our data.
- The individuals we met took the issue seriously, they wanted us to approach people as many as possible.
- The government official acknowledged our work and they wanted us to do the same in other areas.
- People liked the concept of universities that they try to make their teach the other students.

13. CHALLENGES WE FACED:

- People were not too aware about the cyber issues like malware, ransomware and phishing.
- Only the individuals working or being in this field were somehow aware.
- The cyber criminals are not easy to reach.
- They are many cyber attacks done in the past in the context of Pakistan but those are not taken to media in a way as other news are taken to.
- Cyber security is a serious in this world of growing technologies but most of the people are not taking it seriously.

14.SKILLS WE HAVE LEARNED:

- Public Speaking.
- Creating Google forms.
- Graphic Designing.
- Social Media Management.
- Researching and writing Skills.
- Video Editing.

- Teamwork.
- Finance Management
- Interacting with people

15. SUSTAINABILITY:

- As our main aim was to make the project sustainable as well and so we incorporated the sustainable development goals as well. We started the project with SDGs to make it sustainable and relate the SDGs with them in the whole journey.
- Furthermore, we educated and informed the students about SDGs and the concept of sustainability which we will keep doing.
- We will try to be this much observant after the project as well.
- Will try to aware the people about this issue with same pace.
- We will tell the people around us to not take the issue of their data security as for granted.
- Will still work on it at individual level.

15. RECOMMENDATIONS:

Awareness is only one aspect of problem-solving. Following are some other measures which everyone should implement

- Implementing strong passwords and regularly updating them.
- Use of multi-factor authentication to secure accounts.
- Using anti-virus and anti-malware software to protect against malicious software.
- Keeping all software and operating systems updated to patch known vulnerabilities.
- Regularly backing up important data to protect against data loss in case of a security incident.
- Educating employees about cyber security threats and best practices for staying safe online.
- Regularly monitoring network activity for unusual or suspicious behavior.
- Implementing a incident response plan and testing it periodically.
- Having a incident management team who can respond and recover from any security incident.
- Using encryption to protect sensitive data both in transit and at rest.

- Conducting regular security audits and penetration testing to identify vulnerabilities.
- Having a regular vulnerability management process to identify, assess and remediate vulnerabilities.

17. CONCLUSION:

In conclusion, cyber security is a critical issue that affects organizations and individuals alike.

With the increasing reliance on technology and the internet, it is essential to implement effective measures to protect against cyber threats. This project report has aimed to provide an overview of the current state of cyber security, identify potential vulnerabilities and risks, and recommend steps that can be taken to improve security.

The report has discussed various methods and techniques that can be used to protect against cyber threats, such as implementing strong passwords, using multi-factor authentication, and regularly updating software and operating systems. It has also highlighted the importance of educating employees, monitoring network activity, and having an incident response plan in place.

It is important to note that cyber security is a constantly evolving field and new threats are emerging every day. It is important to stay informed and up-to-date with the latest developments in order to protect against these threats. The findings and recommendations presented in this report provide a solid foundation for organizations and individuals to improve their cyber security posture and stay safe online.

In summary, the report has provided an in-depth analysis of the current state of cyber security and recommended steps that can be taken to improve security. The report also highlighted the importance of staying informed and up-to-date with the latest developments in the field of cyber security.

Calendar:

The "SDG Scouts for Cyber Security" team has created a calendar that spans the 13 months of December 2022 to December 2023. All the events and activities that the team will perform are listed in this calendar. This 13-month schedule is intended to make the project sustainable. As a result, we will continue our efforts and diligently work on the project throughout the entire year.

The calendar can be seen below

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-----------------|--|---|---|--|---|---|---|
| December | | | | | 1 | 2 | 3 |
| | | | | | Project Proposal | Google Form Survey. "Cyber Crime" (75 responses) | Optimization. |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Brochure Creation. | Proposal submission | Visit to Bahria University Hn Campus for appt at 1 pm. | Visit for appt to APS & C Westridge III Rawalpindi at 12:00 pm. | Visit to AGT and Supertech Institute Saddar to scheule an interview appt. | | Social Media Account Creation and Optimization. |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | Social Media Optimization. | | Visit to Bahria University E8 Campus at 3 pm for appt. | Interview with Ms. Anila, Instructor of AGT Saddar, Rawalpindi at 2:00 pm. | Interview with Mr. Paveiz Akhter, Principal of AGT Institute Saddar Rawalpindi at 3 pm. | Webinar appt for Karakoram Intenational University. | Webinar with APS' Students at 5 pm. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | Webinar Feedback Instagram Polling Survey at 7 pm. | | Interview with Mr. Haris Ahmed, Instructor of Supertech Institute and a Director at 2 pm. | Visit for appt to Foundation University (FUST) Rawalpindi Campus at 2 pm. | Visit for appt to Fatima Jinnah Women University at 11 am. | Awareness drive in Bahria University E8 at 3 pm. | Social Media Uploading. |
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | Posture Creation. Quaid-e-Azam day. | Awareness drive in Bahria University Hn at 10 am. | Webinar with KIU. | | Webinar feedback survey. | New Year Video Script making. | New Year Message |
| | 2022 | | | | | | |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|----------------|--|--|-----------------------------------|-------------------------------------|---|--|---------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| January | First month message | | Webinar appt with Read Foundation | | Visit for appt to International Islamic University. | Webinar feedback survey | Optimization. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Brochure Creation. | Visit to Fazaia International College. | | Interviews with students of Fazaia. | | Social Media uploading | Interviews analysis. |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | Social Media Optimization. | Google Form Survey. | Gogle fom survey analysis | Report Making | Social Media Account Creation and Optimization | Fazaia Interviews analysis and uploading | Appt scheduled with Director of PRC . |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Webinar , City public school, Gilgit Baltistan | Brochue Making for report | Report Making | Defense Presentation Optimization | Report making | Defense. | |
| 29 | 30 | 31 | | | | | |
| 2023 | Instagram Uploading | Facebook page Uploading | Monthly report sharing. | | | | |

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-----------------|---|-----------------------------|--|--|--|--------------------------------------|------------------------------------|
| | | | | 1 | 2 | 3 | 4 |
| | | | | Monthly calender activity sharing | Appt taking from the director of PRC | Optimization. | |
| February | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Webinar appt with City School GB | Brochure making for Webinar | | Brochure uploading | Webinar with students of City School, GB | | Social Media Account Optimization. |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Social Media Optimization. | Webinar analysis | Online zoom interviews with students of City School | | Interviews analysis | Awareness drive in Comsats at 1 pm.. | Zoom interviews analysis |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | Webinar Feedback Instagram Polling Survey | | Interview with Jalal ud din Bukhari, Director of PRC | Analysis of interview with PRC Director. | Students interviews feedback survey. | Awareness drive | Social Media Uploading. |
| 26 | 27 | 28 | | | | | |
| 2023 | Social media uploading of interview. | Awareness drive | City School webinar social media uploading | | | | |

| | SUN | MON | TUE | WED | THU | FRI | SAT | |
|--------------|--|---|------------------------------------|--------------------------------------|--|---------------------------------------|--|--|
| | | | | 1 | 2 | 3 | 4 | |
| | | | | Monthly calender activity sharing | Visit for appt | Webinar feedback survey | Optimization. | |
| March | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | Brochure Creation. | | Interview scheduled with TA Bhutta | Interviews with students of NUML | . | Social Media uploading | Webinar scheduled with City Public School | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| | .Brochure creation for webinar | Google Form Survey. | Gogle fom survey analysis | | Interview with G & PP PHD Scholar TA Bhutta | Interviews analysis | Appt scheduled with | |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| | Webinar , City public school, Gilgit Baltistan | Webinar with Read Foundation | Webinar Analysis.. | Awareness drive in Comsats at 1 pm.. | Interviews with students of Comsata | Social Media Optimization | Analysis of interview with PHD Scholar TA Bhutta | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | |
| | 2023 | Social Media uploading of the interview | | Monthly report sharing | Analysis of intevIEWS with Comsats' students | Social Media Uploading of Interviews. | | |

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|--------------|---|---|---|---|--|-----------------------------------|--|
| April | | | | | | | 1 Monthly report sharing |
| | 2 Appt for webinar with Secondary Public School | 3 Brochure creation for webinar | 4 | 5 Social media uploading for webinar. | 6 | 7 Meeting arrangements. | 8 Social Media Account Optimization. |
| | 9 Social Media Optimization. | 10 | 11 Webinar with students of Noor ul huda school | 12 Webinar analysis | 13 Interviews with students of Noor ul huda School | 14 | 15 Interviews analysis |
| | 16 Webinar Feedback Instagram Polling Survey | 17 | 18 Social Media Uploading of Webinar. | 19 | 20 Uploading of Interviews | 21 Awareness drive | 22 Social Media Uploading. |
| | 23,30 | 24 Uploading of Polling survey | 25 SDG Volunteer Form making | 26 | 27 SDG Volunteer form optimization | 28 Revolving the form. | 29 Optimization. |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-------------|--|------------------------------|-----------------------------------|---|------------------------------|-------------------------------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| | | Monthly report sharing | Webinar appt from City School | | Visit for appt to IIU. | Brochure creation for webinar | Optimization. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| May | Social media uploading | Webinar with City school, GB | Webinar feedback survey | Interviews with students of city school | Webinar analysis. | Social Media uploading | |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | Interviews analysis. | Google Form Survey. | Gogle fom survey analysis | Interviews video editing | Interviews uploading | | Brochure creation for public awareness drive |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | Printing of Brochure for awareness drive | | Awareness drive in sector F6 Isb. | General public interviews in sector F6 | Awaring the public about CS. | Social Media Optimization | Awaring the public about CS skills |
| | 28 | 29 | 30 | 31 | | | |
| 2023 | Social media Uploading | SDG Volunteers | | Report objective completion sharing | | | |

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-------------|---|--|---------------------------------------|---|--------------------------------|--------------------------------------|------------------------------------|
| | | | | | 1 | 2 | 3 |
| | | | | | Monthly Report sharing | Meeting scheduled with secretary TI | Optimization. |
| June | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Brochure creation for meeting | Social media uploading for meeting | Webinar scheuled with Read Foundation | . | Brochure creation for Webinar. | | Social Media Account Optimization. |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | Webinar Survey. | Webinar with Read Foundation | Webinar analysis | Interviews with Read Foundation, Gilgit | Interviews analysis | Webinar uploading. | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | Webinar Feedback Instagram Polling Survey | Interviews uploading | Feedback survey uploading. | Meeting with Ehtisham ul haq, secretary training institution. | Meeting | Awareness drive in F6 | Social Media Uploading. |
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 2023 | | Meeting with Ehtisham ul haq, STI Social media uploading | Social Media Uploading | | Webinar feedback survey. | .Report objective completion sharing | |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-------------|-------------------------------------|---|----------------------------|---------------------------------|--------------------------|---------------------------------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Monthly report sharing | Eid Message | Social media uploading | | Visit for appt to NDU | Awareness drive in NDU | Optimization. |
| July | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Brochure Creation for Visit to NDU. | Social Media Uploading of awareness drive | | Interviews with students of NDU | Interviews analysis. | Social Media uploading | |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | Presentation making and editing. | Google Form Survey. | Gogle fom survey analysis | Visit to NDU for Presentation | | Social media uploading of visit | Feedback survey from students of NDU |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Feedback survey | | Feedback survey uploading | | Whole activity uplaoding | Social Media Optimization | Visit to Fatima Jinnah Women University for appt |
| 29 | 30 | 31 | | | | | |
| 2023 | Brochure Creation | Ambassador forms | Activity completion report | | | | |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-------------|-------------------------------------|---|----------------------------|---------------------------------|--------------------------|---------------------------------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Monthly report sharing | Eid Message | Social media uploading | | Visit for appt to NDU | Awareness drive in NDU | Optimization. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| July | Brochure Creation for Visit to NDU. | Social Media Uploading of awareness drive | | Interviews with students of NDU | Interviews analysis. | Social Media uploading | |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | Presentation making and editing. | Google Form Survey. | Gogle fom survey analysis | Visit to NDU for Presentation | | Social media uploading of visit | Feedback survey from students of NDU |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Feedback survey | | Feedback survey uploading | | Whole activity uplaoding | Social Media Optimization | Visit to Fatima Jinnah Women University for appt |
| | 29 | 30 | 31 | | | | |
| 2023 | Brochure Creation | Ambassador forms | Activity completion report | | | | |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|---------------|---|--------------------------|---|---------------------------------|--|---|------------------------------------|
| August | | | 1 | 2 | 3 | 4 | 5 |
| | | | Monthly report sharing | Webinar | | Appt taking for webinar with Public S & C | Optimization. |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | Brochure making for webinar | | Brochure uploading | Presentation editing. | .Webinr with Public School & College, GB | | Social Media Account Optimization. |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | Visit for appt to Glorious English School, RWP. | | Visit to Glorious English School for presentation | Interviews with students of GES | Activities among students of GES | Interviews analysis of students | |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | Webinar Feedback Instagram Polling Survey | Feedback survey analysis | Webinar Feedback uploading. | . | SDG ambassador form filling | Awareness drive in GES | Social Media Uploading. |
| | 27 | 28 | 29 | 30 | 31 | | |
| | 2023 | | Awareness drive in GES. | | Interviews analysis | Monthly completion report. | |

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|------------------|--|--|---|--|------------------------------------|-----------------------------|-----------------------------------|
| September | | | | | | 1 | 2 |
| | | | | | | Monthly report sharing | Optimization. |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Brochure Creation for visit to NA. | Script preparation for interviews with management dep. | Visit for appt to Foundation University, RWP campus | Interviews with students of FUST | .Interviews analysis | Social Media uploading | |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | Google Form Survey. | Gogle fom survey analysis | Visit to National Assembly | Visit for appt to FUST University. | Interviews analysis | |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | Appt from City Public school, GB | Brochure making for webinar | | Awareness drive in FUST | Visit to APS for SDGs meeting | Social Media Optimization | SDG wall activity with students |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | Webinar , City public school, Gilgit Baltistan | | Ambassador form filling from city public school | Painting competition with APS students | Feedback survey analysis. | Webinar Feedback uploading. | Monthly completion report sharing |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|----------------|------------------------------------|--|--|--|---|---|------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| October | Monthly report sharing | | Brochure making for visit | Visit for appt to Riphah Uni | Awareness drive in Riphah Uni | | Optimization. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Interviews with students of Riphah | Interviews analysis | Visit for presentation to Riphah | Interviews analysis. | .Google form survey for data collection | | Social Media Account Optimization. |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | Social Media Optimization. | | Visit for appt to Viqar un nisa college | Interviews uploading of Students of Riphah Uni | | Ambassador form filling from students of Riphah | |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Instagram Polling Survey | Awareness drive in Viqar un Nisa College | Feedback polling survey from students of Riphah. | Posture creation. | Interviews with students of Viqar un Nisa | Interviews Analysis | Social Media Uploading. |
| | 29 | 30 | 31 | | | | |
| | 2023 | Ambassador form filling in Riphah | Social Media Uploading | Monthly completion report sharing | | | |

SDG Scouts for Cyber Security

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-----------------|--|--|---------------------------|---|----------------------------------|--|---------------------------------------|
| November | | | | 1 | 2 | 3 | 4 |
| | | | | Monthly report sharing | | Visit for appt to F.G Post Graduate College Saddar | Optimization. |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Brochure Creation. | Awareness drive in F.G Saddar Rwp | Awareness drive in F.G | Interviews with students of F.G | Interviews Analysis. | Social Media uploading | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | . | Google Form Survey filling from students | Gogle fom survey analysis | Interviews Uploading | Appt taking for parliament visit | | Appt scheduled for visit to parliment |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | Appt for webinar with City public school, Gilgit Baltistan | | Webinar Analysis.. | Webinar with City public school, Gilgit Baltistan | Webinar Feedback Survey | Social Media Optimization | |
| | 26 | 27 | 28 | 29 | 30 | | |
| | 2023 | | Feedback Analysis | Feedback Uploading | Social media uploading | Monthly completion report sharing. | |

| | SUN | MON | TUE | WED | THU | FRI | SAT |
|-----------------|---|---|---|--|-------------------------|-----------------------------------|------------------------------------|
| December | | | | | | 1 | 2 |
| | | | | | | Monthly report sharing | Optimization. |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Brochure creation for last month of year | | Visit for getting appt with Additional DG | Webinar scheduled with Uni of Lahore. | | Appt scheduled with Additional DG | Social Media Account Optimization. |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | Social Media Optimization. | Brochure creation for webinar | Webinar with University of Lahore | Interviews with students of University of Lahore | Awareness drive in... | Interviews analysis | Social media uploading |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | Webinar Feedback Instagram Polling Survey | Meeting with Additional DG, FIA Amar Jaffri | Meeting recording editing. | Social media uploading of meeting. | Webinar feedback survey | Ambassador form filling | Social Media Uploading. |
| | 24,31 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 2023 | New year message scrip preparation | Awareness drive | Webinar with | New year message video | Webinar feedback survey. | New year message. |

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