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A Study Of Cybersecurity Challenges And Threat Faced By Teachers And Students Of Patna

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Abstract

Cyber security is a vast topic in contemporary's networked planet. A complex and vital cyber countryside has existed presented on account of intensely evolution of science and the increasing relation of instruments and orders. As the world is becoming highly interconnected, with networks being used to carry out critical transaction the attack surface expands, providing cyber criminals with more entrance points to exploit. They are utilising more brand new and upgraded taxicab strategies to aim the feeble points of miscellaneous firms generally. The latest and disruptive technologies, along with the new cyber tools and threats that come to light each day, are challenging organisation with not only how they secure their infrastructure, but how they require new platforms and intelligence to do so. The attackers do not trail as a result of the advancement of new complicated security orders. Various Governments and companies are taking many measures in order to prevent these cybercrimes. As a consequence, cyber security issues have become national issues. This paper focuses on cyber security challenges faced by teachers and students of Patna and analyse protection mechanism, ethics and trends changing the face of cyber security.

Keywords; cyber security, cyber ethics, cybercrime, Patna, teachers, students.

INTRODUCTION

Nowadays more than 60 percent of total commercial transactions are done online and man is able to send and receive any form of data may be an e.mail or an audio or video just by the click of a button but did he/she even think how securely his/her data id being transmitted or sent to the person safely without any leakage of information??The answer lies in cyber security. Over the years the cyber security threats emanate from a wide variety of sources and manifest themselves in disruptive activities that target individuals, institutions and Governments alike. The rise in internet users has meant that while the threats and vulnerability inherent to the Internet and cyberspace might have remained more or less the same as before, the probability of disruption has grown a pace with rise in the number of users. While such disruption are yet to cause permanent damage worldwide, they serve as wakeup- call to the authorities concerned to initiate measures to improve the security and stability of cyberspace in terms of their own security.

Definition

Cyber security is the body of technologies, process, and practices designed to protect networks, devices, programs, and data from attack, theft, damage, modification or unauthorized access.

Scope of the study

To understand the awareness among the students and teachers regarding cyber security issues in Patna. The study is restricted to the 50 respondents who are randomly selected within the Patna.

Methodology

Sources of data collection

- Primary data
- Secondary data

Primary data

The main source of primary data is questionnaire consisting of simple questionnaire consisting of simple questions prepared and distributed for collection of data on awareness in student and teachers of Patna regarding web search engines.

Secondary data

The main source of secondary data includes Books, Magazines, Newspaper, Articles, and journals and websites.

Sample Size

For the present study 50 respondents were selected at random.

Limitations of the study

- The study is conducted in Patna only.
- The study is restricted to the students and teachers only.
- Time perspective is also one of the elements in limiting the scope of the study.

Literature Review

Preserving the institutions technology procedures is essential. However, unless the policies and procedures are put to the test, an organisation cannot assess how effective a security program is. Top educational institutions is compelled by threats and cyber-attacks to make sure that the network and systems are safe from hackers. Although a specific model isn't specified at this stage of the threat modelling process the most widely used models should be trustworthy representations of threats and should be used often to get consistent results. Both the students and teachers should give serious consideration to this crucial step in the process. Because it makes it possible to rank the institution's assets, giving the pen tester a base around which to build process, procedure, and control testing. User education and

training are frequently included in the curriculum to inform staff members on best practices, appropriate online conduct, and potential threats. Organisation may develop a more security-conscious workforce and lessen the chance of events linked to human error by equipping staff with the knowledge and abilities to recognise and respond to cyber security threats.

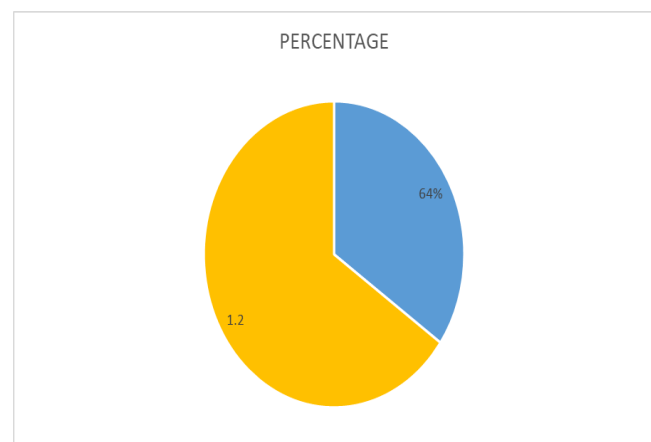
Data analysis and interpretation

Questionnaires are administered to respondents selected randomly within Patna. 50 respondents have responded. The data so collected is tabulated, analysed, interpreted and presented in the following tables and charts.

Gender ---- respondents

Table—1

GENDER	NUMBER OF RESPONDENTS	%PERCENTAGE OF RESPONDENTS
Male	18	36%
Female	32	64%
Total	50	100%



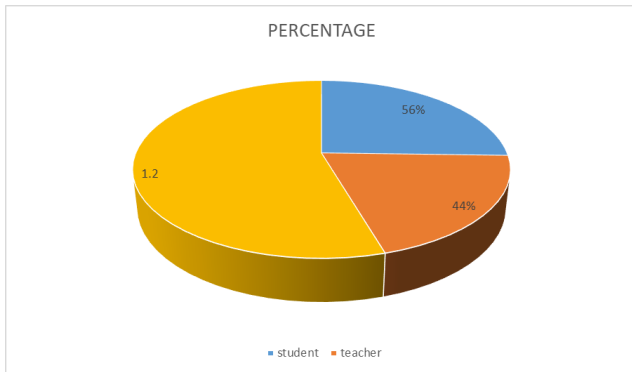
Interpretation

From the above chart it is observed that 36% of respondents (18/50) are male. 64 % of respondents (32/50) are female.

Designation of respondents

Table-2

DESIGNATION	NUMBER OF RESPONDENTS	%PERCENTAGE OF RESPONDENTS
Student	28	56%
Teacher	22	44%
Total	50	100%



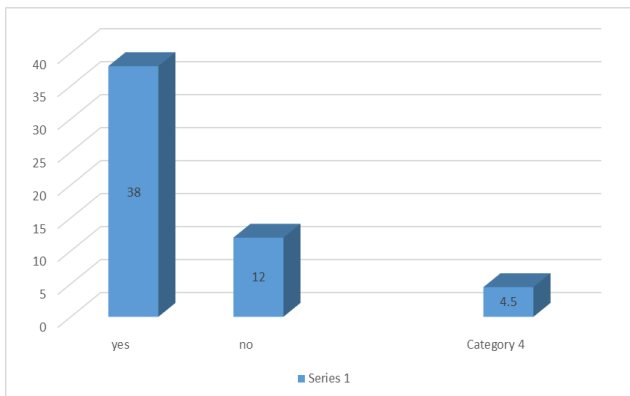
Interpretation

From the above chart it is observed that the 56% of respondents (28/50) are students and 44% of respondents (22/50) are teachers.

Awareness regarding Cyber security issues

Table--3

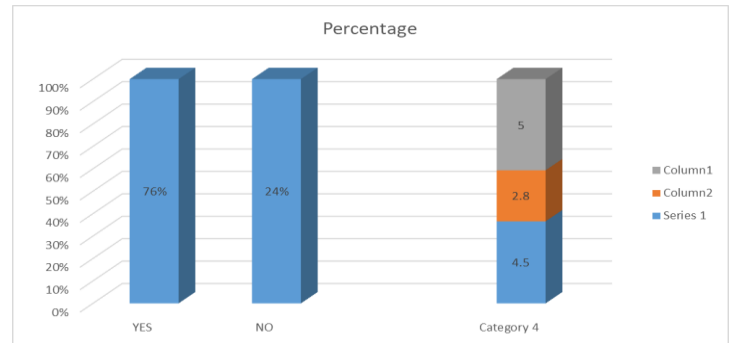
Options	Number of respondents	%Percentage of respondents
Yes	38	76%
No	12	24%
Total	50	100%



Awareness regarding Criminal legislation on Cyber activities

Table—4

Options	Number of respondents	Percentage (%)of respondents
Yes	38	76%
No	12	24%
Total	50	100%



Interpretation

From the above chart it is observed that the 76% of respondents (38/50) are aware of Criminal legislation on Cyber activities.24% of respondents (12/50) are not aware of Criminal legislation on Cyber activities.

Using same password in multiple sites

Table—5

Options	Number of respondents	Percentage (%) of respondents
Yes	29	58%
No	21	42%
Total	50	100%

Interpretation

From the above chart it is observed that the 29% of respondents (29/50) are using same password for multiple sites and 21% of respondents (21/50) are not using same password for multiple sites.

Conclusion

Cyber security issues and dangers are uniformly challenging and present serious risks to family and institution. With the huge growth in the number of internet users all over the world, the security of data and its proper management plays a vital role for future prosperity and potentiality. Rules for compulsory wearing of helmet for bikers by government authorities, has no benefit for them, it is for our own safety and life. Same we should understand our responsibilities for our own cyberspace and should at least take care of safety for our personal devices. Cybersecurity is a never-ending battle. It is one of the most important issues that we have faced with the increase in technological advancements, anything and everything that exist on the internet isn't completely safe, even Mark Zukerberg the creator of one of the most used social networking sites Facebook is seen covering his laptop's

front camera with a duct tape so that the camera might not be accessed by anyone else then what else can we expect from our security. So, be little cautious and attentive while using/working on social media because the safety is in our hands only.

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