RESEARCH PAPER

Cybernetic Awareness and Cyberspace Security Sense among Teacher Trainees

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ABSTRACT:

The present study was aimed to investigating the cybernetic awareness and cyberspace security sense among Teacher trainees of Ahmedabad city. Main objectives of this study were to study the level of Cybernetic awareness and the level of Cyberspace security sense among students of teacher training. Survey method was used for this study. Sample size was 100 trainees, which were study in two year Bachelor of Education programme in Teacher Education Institutes of Ahmedabad city. A self constructed Cybernetic Awareness and Cyberspace Security Sense Checklist (CACSSC) with 18 items involving cybernetic awareness and cyberspace security sense was administered to collect the relevant data. A majority of the college students surveyed had basic theoretical and functional computer awareness as well as awareness of data storage devices with most of them possessing smart phones. Few students had sufficient awareness about cyberspace security sense.

INTRODUCTION:

India is a developing country. It develops day by day in many ways for last few years. India is now digital India. Digital India is a key initiative for the country. In light of the recent attacks, there is increased focus on cyber awareness and cyber safety. Recognizing the need to strengthen the cyber security ecosystem in India, and in alignment with the Honourable Prime Minister's vision for a 'Digital India', the Ministry of Electronics and Information Technology, launched the **Cyber Surakshit Bharat** initiative in association with National e-Governance Division (NeGD) and industry partners. The purpose of the program would be to spread

awareness, build capacity as well as enable government departments on steps that need to be taken to create a Cyber Resilient IT set up. In this digitally India, everybody should aware about the cybernetic knowledge. Cybernetic awareness is about both knowing and doing of electronic data in computer. Cyberspace is a complex environment consisting of interactions between people, software and services, supported by worldwide distribution of information and communication technology (ICT) devices and networks. Today, cyberspace is a common pool used by citizens, businesses, critical information infrastructure, military and governments in a manner that makes it difficult to draw clear boundaries among these different groups. India framed a National Cyber security policy in 2013. This policy, aims to create a cyber security framework, which leads to specific actions and programmes to enhance the security posture of country's cyber space. In the education sector, internet is very common thing nowadays. Students use many modes to serf digital data. We can say that, in the future, most of the knowledge part will be store in digital form. In this scenario, students must have cybernetic awareness and also having sense about cyber security, Teacher trainees are very important for this new digital India. Researcher had curiosity to know about this that how many teacher trainees have knowledge about cyber world and what will be the level of this awareness. Also researcher wanted to know that how many teacher trainees having sense and knowledge regarding cyberspace. Thus, to find out the answer, researcher had done this study.

OBJECTIVES OF THE STUDY:

The main objectives of the study were as follows;

    (1) To study the level of Cybernetic Awareness of Teacher trainees.
    (2) To study the level of Cyberspace security sense among Teacher trainees.

METHODOLOGY:

In this study researcher developed a short checklist based on survey carried out to assess the Cybernetic Awareness and Cyberspace security sense among B.Ed. college students of Ahmedabad City.

SAMPLE:

In this study, researcher collected data from teacher training institutes of Ahmedabad city. The teacher training institutes were selected through random sampling from the list of all institutes of Ahmedabad city. From the institutes,

teacher trainees were selected through random sampling. Tota; 100 teacher trainees were selected for data collection; from which, researcher selected 50 Male and 50 Female Teacher trainees through random sampling.

TOOL:

In this study, researcher constructed self made Cybernetic Awareness and Cyberspace Security Sense Checklist (CACSSC). In this tool researcher included 18 items requiring for different areas.

DATA ANALYSIS & INTERPRETATION:

According to the data collection, the following results were found related to Cybernetic and Technological awareness among teacher trainees of Amedabad city.

Table No-1

Cybernetic awareness Level among teacher trainees

Sr. No.	Cybernetic & Technological Awareness	N	Percentage
1	Basic awareness of computer theory	73	73%
2	Basic awareness of computer practical	86	86%
3	Awareness of Data storage devices	96	96%
4	Awareness about printing devices	64	64%
5	Access to computer at home	58	58%
6	Ability to smart phone	88	88%
7	Process to operate smart phone	69	69%
8	Awareness about search engine	70	70%
9	Awareness about E-mail	56	56%
10	Awareness about online forms	59	59%
11	Awareness about online transaction	53	53%
12	Awareness about downloading different data & Images	61	61%

According to table no-1, we have to found that there is sufficient awareness about cybernetic technology. Most of teacher trainees have average high percentage of awareness of Basic awareness of computer theory & practical, data storage, ability

to smart phone, search engine etc; But we analysis that, students have awareness about email (56%) and awareness about online transaction (53%).

According to the data collection, the following results were found related to Cyberspace security sense among teacher trainees in Amedabad city.

Table No-2
Cyberspace security sense among teacher trainees

Sr. No.	Sense of Cyberspace Security	N	Percentage
1	Awareness about password protection	48	48%
2	Awareness about smart phone password	57	57%
3	Awareness about protection images from social networking sites	42	42%
4	Awareness about data protection	39	39%
5	Awareness about virus protection	38	38%
6	Awareness about setting of stopping dangers websites/email etc	29	29%

According to the table no-2, we have founded that only 48% Teacher trainees had awareness about password for protecting their computer and 57% hade awareness about password protecting their smart phone. Research also found that only less percentage of trainees had awareness about secure data protection, images, virus and deferent type of setting to protection.

CONCLUSION:

Based on the findings of the study, the following conclusions were reached upon;
A large majority of the teacher trainees surveyed had basic theoretical and functional computer awareness as well as awareness about data storage devices. A large percentage of trainees did possess smart phones. A much lesser section of the Teacher trainees surveyed possessed the ability to use search engines effectively, fill online forms, and download data. Around half the teacher trainees surveyed ad awareness about password for protecting their computer or their Smartphone and only about third of tem actually use password protecting for computer and

Smartphone. Moreover, institutes should promote comprehensive awareness programmes cyberspace security. Institutes should organized debates, seminars, workshops on challenges of cyber security.

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