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WIRELESS NETWORK USE AND AWARENESS OF SURANA COLLEGE STUDENTS: A STUDY

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ABSTRACT

Innovation is gaining fast ground and is making numerous things simpler. As the creative reasoning of people is expanding step by step, new strategies for remote systems administration has been developed of which our present point Wi-Fi is the most acknowledged innovation. Wi-Fi, an abbreviation for Wireless-Fidelity which is the remote method to deal with systems administration. The fundamental point of this paper is remote systems administration accomplished by Wi-Fi. This paper presents Wi-Fi innovation and states the historical backdrop of this innovation to sum things up. We at that point manage the diverse methods for remote systems administration, associating wi-fi and with Wi-Fi security. This paper finishes up with the advantages and disadvantages of this innovation and it's future. The parameter for the examination was ICT education, Wi-Fi mindfulness, availability issue, us age, device inclination. The results of the finding recommend that in spite of the fact that the calls for radical changes in instructive methodologies might be genuine it is misdirecting to ground the contentions for such change exclusively as students would see it and that the foundation in reality demonstrates a lot of advantage to the understudy in the manner in which they associate on the web. The finding likewise recognized the issue in Wi-Fi hotspots and the inclusion.

INTRODUCTION

Wi-Fi, an abbreviation for "Remote Fidelity", is an arrangement of item similarity models for Wireless Local Area Networks (WLAN) in light of the IEEE 802.11 particulars. Wi-Fi was expected to be utilized for cell phones and LANs, however is currently regularly utilized for Internet get to. It empowers a man with a remote empowered PC or individual computerized partner (PDA) to interface with the Internet when in nearness of a passageway. Remote Fidelity is the remote method to deal with systems administration. It is otherwise called 802.11 systems administration and remote systems administration. Utilizing this innovation we can associate PCs anyplace in a home or office without the need of any wires. The PCs associate with the system utilizing radio signs, and they can be up to 100 feet or so separated. Wi-Fi permits to associate with the web from practically anyplace at paces of up to 54Mbps. The PCs and handsets empowered with this innovation utilize radio advances dependent on the IEEE 802.11 standard to send and get information anyplace inside the scope of a base station. Wi-Fi goes past remotely interfacing PCs, it likewise associates individuals.

Wireless LAN?

A remote LAN (WLAN) is an information transmission framework intended to give area autonomous system access between registering gadgets by utilizing radio waves as opposed to a link foundation. In the

corporate endeavor, remote LANs are normally executed as the last connection between the current wired system and a gathering of customer PCs, giving these clients remote access to the full assets and administrations of the corporate system over a building or grounds setting. WLANs are nearly turning into a standard availability answer for abroad scope of business clients. The remote market is growing quickly as organizations find the profitability advantages of going sans wire. As indicated by Frost and Sullivan, the remote LAN industry surpassed \$300 million out of 1998 and is anticipated to develop \$1.6 billion of every 2005. To date, remote LANs have been fundamentally executed in vertical applications, for example, producing offices, stockrooms, and retail locations. The greater part of future remote LAN development is normal in social insurance offices, instructive establishments, and corporate venture office spaces. In the enterprise, meeting rooms, open regions, and branch workplaces are likely settings for WLANs. The across the board acknowledgment of WLANs relies upon industry institutionalization to guarantee item similarity and unwavering quality among the different producers. The Institute of Electrical and hardware Engineers (IEEE) redressed the first 802.11 particular in 1997 as the standard for remote LANs. That variant of 802.11 accommodates 1 Mbps and 2 Mbps information rates and an arrangement of basic flagging strategies and different administrations.

About Surana College:

Surana College set up by GDA establishment in 1995, is one of the head organizations in the quickly developing city of Bangalore offering quality training at a moderate expense at PU, UG and PG levels in all surges of Arts, Science, IT, Commerce and Management. The school is situated at close Southend Circle in Bangalore City, Karnataka State in India. The College additionally has a focal point of post graduate investigations which offers courses, for example, MBA, MCA, M.Sc(Psy) and M.Com situated at Kengeri Satellite Town. The College associated to Bangalore University, has been as of late authorize by NAAC at 'A' review. It obliges the instructive needs of all segments of the general public. The establishment has many contextual investigations of enlisting normal understudies just to raise them to accomplish refinements or positions. Consistent with its statement of purpose, Surana College always distinguishes and acquaints esteem increases with advance University Curriculum and configuration adjusted contributions of Curricular, Co-curricular and Extra-Curricular segments into training. The Institution gets ready understudies into confident, autonomous reasoning, universally able, talented and socially helpful natives of the country with qualities to contribute their very own strength to the general public. Over the most recent couple of years, the College has created 27 rank holders at University level and a few national and worldwide games people. The school has exceeded expectations in social exercises as well. Countless positions happen each year. The College investigates every possibility to change over understudies' reflections of creative ability into windows of the real world.

Objectives

1. To follow out the favored place for access of Wi-Fi office by the Surana undergrads.
2. To realize the fulfillment dimension of utilization of Wi-Fi benefit by the Surana understudies
3. To know the recurrence and time spent in utilization of Wi-Fi office in the school grounds.
4. To distinguish the motivation behind utilize Wi-Fi administrations.
5. To discover the issues looked by the understudies in utilizing Wi-Fi association office.

METHODOLOGY OF THE STUDY:

The information was gathered utilizing a paper-based poll. The point of the poll was to look at the degree of Wi-Fi innovation use among this objective gathering. The paper survey was given out toward the finish of a chose number understudies present at the Surana College grounds.

Polls were given haphazardly, in light of understudy living in the school grounds. The review was accessible for about fourteen days and 120 individuals (N=120) out of 350 understudies in the surana school Responded to the welcome by finishing the study. All reactions were mysterious and no close to home

points of interest, for example, email or IP addresses were gathered in this manner guaranteeing security. The study contained shut finished poll sorted out around four points. These were:

- (1) Educational foundation
- (2) Facilities of Wi-Fi
- (3) Purpose of utilization, and
- (4) ICT proficiency.

For reasons for lucidity, the discourse and results will be displayed sorted out around these four subjects with the outcomes.

DATA INTERPRETATION AND ANALYSIS

Survey Goals and Rationale

The overview for this examination was structured with the essential objective of better understanding the Factors that propels understudies to get to Wi-Fi arrange in the college. It was additionally trusted that the study reactions would enlighten and features the issue related in getting to remote college organize at a more extensive dimension. In particular, the poll investigates whether understudies know about the Wi-Fi presence and the top to bottom practices and reason for the private understudy utilizing Wi-Fi organize. The investigation is essential focused at the understudies dwelling inside the grounds and approaching the availability.

Gender ratio of the population:

The socioeconomics of review members changed as far as age, instruction levels and the subject, yet were generally homogeneous. Of the 100 overview respondents who distinguished their sexual orientation, everything except three were male. Only five individuals announced their ages as somewhere in the range of 20 and 28 years of age, as the examination field focused just on the understudy's condition. Male reacted most extreme with 63% and Female 36% their data needs are various and in this way a further report is required on their observation on Wi-Fi Technology.

Table 1: - Gender of the respondents

Gender	No. of Responses	Percentage
Male	76	63.30%
Female	44	36.70%
Total	120	100.0%

Table 1 demonstrates the utilization of Wi-Fi Internet arrange by sexual orientation. An aggregate of 120 respondents noticed the survey. Out of 76 (63.30%) of them were male and 44(36.70%) were female.

Table 2: - Department wise questioner distribution

Department	No. of Responses	Percentage
MBA	34	28.30%
MCA	32	26.60%
M.Sc(Psy)	25	20.90%
M.Com	29	24.20%
Total	120	100.00%

Table 2 uncovers the office astute course of the clients utilizing Wi-Fi benefit. It is obvious from the above table that, out of 120 respondents, 34 (28.30%) of respondents has a place with MBA office. Around 32 (26.60%) respondents are from MCA Department, it is trailed by Department of M. Sc (Psy) 25(20.90%) and M Com showing 29 (24.20%) respondents

Table 3: Awareness about Wi-Fi technology

Awareness	No. of Responses	Percentage
Yes	113	94.20%
No	7	5.80%
Total	120	100.00%

The attention to Wi-Fi is to be considered when utilizing the Wi-Fi. The review reactions for this, out of 120 respondents, dominant part number of respondents 113(94.20%) are concurred that they know about Wi-Fi arrange utilization and less number of respondents are not concurred.

Table 4: Wi-Fi access points

SI No.	Access points	Yes	No	Total
1	Library	87 (72.50%)	33 (27.50%)	120 (100.00%)
2	Department	31 (25.80%)	89 (74.20%)	120 (100.00%)
3	Hostel	4 (3.30%)	116 (96.70%)	120 (100.00%)
4	Anywhere in campus	95 (79.20%)	25 (20.80%)	120 (100.00%)

From the above table, greatest number of clients concurred that Wi-Fi organize association can be get to anyplace in grounds. Library is another passageway for the Wi-Fi organize as worried by the 87 (72.50%) clients. Pursued by 31(25.80%) are expect Wi-Fi association in their specialization. Lion's share of clients 116 (96.70%) are not concur for the Wi-Fi association at lodging

Table 5: - Wi-Fi frequency usage

SI No.	Frequency of Use Wi-Fi	No. of Responses	Percentage
1	Daily	32	26.70%
2	Twice in a week	10	8.20%
3	Once in a week	11	9.20%
4	As and when required	67	55.90%
	Total	120	100.0%

The above table speaks to Frequency of Use of Wi-Fi benefit by the client. 32 (26.70%) of reactions answered for the utilization of Wi-Fi in 'Every day' premise. Though, 10 (8.20%) clients utilize 'twice in seven days' and 11 (9.20%) clients utilize Wi-Fi 'once in seven days', about 67(55.90%) clients use 'as and when they required'.

Table 5: - Device

SI No.	Devices	Yes	No	Total
1	Laptop computer	59 (49.20%)	61 (50.80%)	120 (100.00%)
2	Smartphone	86 (71.70%)	34 (28.30%)	120 (100.00%)
3	Mobile media player	4 (3.30%)	116 (96.70%)	120 (100.00%)
4	EReader	7 (5.80%)	113 (94.20%)	120 (100.00%)
5	Tablet computer	10 (8.30%)	110 (91.70%)	120 (100.00%)

The above table shows kind of gadgets used to have the capacity to get to Wi-Fi organize. Out of 120 respondents, 59 (49.20%) respondents are answered that the Laptop PCs can get to Wi-Fi arrange. Pursued by 86 (71.70%) clients said that Wi-Fi organize is controlled by Smartphone gadgets as well. According to the table, 116 (96.70%) clients are not concurred for the entrance of Wi-Fi arrange in Mobile media player, trailed by 113 (94.20%) and 110 (91.70%) clients are not concurred for the entrance of Wi-Fi organize in E-Reader and Tablet PC separately.

Table 6: - Duration of Wi-Fi Usage

SI No.	Duration of Time	Frequency	Percentage
1	1-2 Hours	43	35.80%
2	3-4 Hours	3	2.50%
3	4-5 Hours	8	6.70%
4	Whenever I want	66	55.00%
	Total	120	100.00%

The table demonstrates the time spend to utilize Wi-Fi office by the client. 43 (35.80%) of reactions answered that they utilize Wi-Fi office 1-2 hours and just 3 (2.50%) clients utilize Wi-Fi benefit 3-4 hours of the day. Extra, 8 (6.70%) respondents said that they put in 4-5 hours and 66 (55.00%) clients utilize Wi-Fi office 'at whatever point they need'.

Table 7: - Opinion of users on satisfaction of Wi-Fi service

SI No.	Network Status	No. of Respondents	Percentage
1	Excellent	31	25.80%
2	Very good	19	15.80%
3	Good	53	44.20%
4	Poor	14	11.70%
5	Very poor	3	2.50%
	Total	120	100.00%

Substance of the above table shows Wi-Fi Network status. Out of 120 respondents 31 (25.80%) of respondents expresses that Wi-Fi has Excellent system association, trailed by 53 (44.20%) reactions turned for good Wi-Fi arrange. Just 3 (2.50%) of the reactions answered that Wi-Fi has Very poor system status.

Table 8: - Purpose of Wi-Fi usage

SI No.	Purpose	Yes	No	Total
1	To search information relating to subjects	111 (92.50%)	9 (7.50%)	120 (100.00%)
2	To discuss with teachers and friends	24 (20.00%)	96 (80.0%)	120 (100.00%)
3	To search tutorials and power point presentations	50 (41.70%)	70 (58.30%)	120 (100.00%)
4	To search e-reference sources (like, online dictionaries,	66	54	120

	encyclopaedias & Yearbook etc.)	(55.00%)	(45.00%)	(100.00%)
5	To search E-books and E-journals	45 (37.50%)	75 (62.50%)	120 (100.00%)
6	To search E-theses and Dissertations	29 (24.20%)	91 (75.80%)	120 (100.00%)
7	To search information relating to Jobs	95 (79.20%)	25 (20.80%)	120 (100.00%)
8	For entertainment purpose	99 (82.50%)	21 (17.50%)	120 (100.00%)
9	For communication (E-mail) purpose	102 (85.00%)	18 (15.00%)	120 (100.00%)
10	To use social network sites (like Facebook, Google+, Orkut, YouTube, Blog, LinkedIn and etc.)	89 (74.20%)	31 (25.80)	120 (100.00%)

The table featured motivation behind remote system use , 111 (92.50%) of clients have utilize Wi-Fi for the reason To seek data identifying with subjects, 66 (55.00%) of respondents got To talk about with educators and companions. Around 50 (41.70%) understudies are utilizing for to look instructional exercises and power point introductions, 66 (55.00%) understudies are acknowledged To seek e-reference sources (like, online word references, reference books and Yearbook and so forth.) The reasons like, To look E-books and E-diaries, To look E-propositions and Dissertations, To look data identifying with Jobs and For excitement object are worried about 45 (37.50%), 29 (24.20%), 95 (79.20%) and 99 (82.50%), followed by 102 (85.00%) client concurred for correspondence (E-mail) reason and 89 (74.20%) understudies are consented To utilize interpersonal organization destinations (like Facebook, Google+, Orkut, YouTube, Blog, LinkedIn and so on.) individually.

Table 9 : - Opinion of users on satisfaction of Wi-Fi service

Users satisfaction	No. of Respondents	Percentage
Yes	78	65.00%
No	42	35.00%
Total	120	100.00%

The above table says client fulfillment in regards to Wi-Fi arrange 78 (65.00%) understudies are fulfilled and 42 (35.00%) understudies are not happy with remote system.

Table 10: - Level of satisfaction with present Wi-Fi connection

SI No.	Level of satisfaction	No. of Respondents	Percentage
1	Fully satisfied	17	14.20%
2	Satisfied	30	25.00%
3	Partially satisfied	22	18.30%
4	Satisfied to a little extent	24	20.00%
5	Not satisfied	27	22.50%
	Total	120	100.00%

The above table shows dimension of fulfillment with present Wi-Fi association, 17 (14.20%) understudies are completely happy with Wi-Fi office, 30 (25.00%) clients fulfilled, 22 (18.30%) understudies

are in part fulfilled, 24 (20.00%) understudies are fulfilled to a little degree, 27 (22.50%) understudies are not happy with Wi-Fi association.

Table 11:- Problems faced by the users while using Wi-Fi connection

Sl No.	Problems	Yes	No	Total
1	Lack of internet access speed	58 (48.30%)	62 (51.70%)	120 (100.00%)
2	Frequent disconnection	34 (28.30%)	86 (71.70%)	120 (100.00%)
3	Limited connectivity	43 (35.80%)	77 (64.20%)	120 (100.00%)
4	Less renewal period	6 (5.00%)	114 (95.00%)	120 (100.00%)
5	Site restriction	104 (86.70%)	16 (13.30%)	120 (100.00%)
6	Others	17 (14.20%)	103 (85.80%)	120 (100.00%)

The above table notice issues looking by the understudies while getting to remote system 58 (48.30%) understudies are said that there is absence of web get to speed, 34 (28.30%) are covered successive detachment, 43 (35.80%) understudies are express the issue of constrained network, less respondents 6 (5.00%) are concurred less restoration period, dominant part of the table 104 (86.70%) understudies are confronting issues from webpage confinement, 17 (14.20%) understudies are concurred from different issues.

Conclusion

The discoveries of the investigation propose that there is an abnormal state of ICT mindfulness among understudy and that the socioeconomics of overview members differed regarding age, training levels and the subject. From an example populace of 120 respondents, seventy six (76) were male and forty four (44) were female with an ages going somewhere in the range of 20 and 28 years of age. Out of 120 respondents, 34 (28.30%) of respondents has a place with MBA division. Around 32 (26.60%) respondents are from MCA Department, it is trailed by Department of M. Sc (Psy) 25(20.90%) and M Com demonstrating 29 (24.20%) respondents. PC education among understudy of Surana College looks quite great with 99% of the understudies expressing that they have either utilize or are utilizing PC.

As Wi-Fi is presently delivered in a large number of items and sent in a great many homes, business and hotspots around the world, the innovation has moved past the domain of a PC highlight. Wi-Fi has quick turned into a social wonder.

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