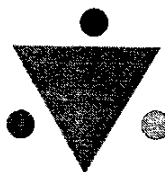


I J C R R

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Let the science be your passion"

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IMPACT OF ICT IMPLEMENTATION IN SECONDARY SCHOOLS: A CASE STUDY OF SCHOOLS IN KARAD OF SATARA DISTRICT

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ABSTRACT

This research paper sets with the objective to study the impact of Information and Communication Technology (ICT) implementation in selected secondary schools in karad city. The scope of the study is confined to the teaching learning process of a secondary school. As a part of research design, secondary schools are selected based on a stratified random sampling method. A review of literature has taken to study the present status of research studies in the area of ICT implementation in schools. Review of literature has helped to decide various key performance indicators; on that basis the impact of ICT implementation can be studied. Data collection has been carried out by questionnaire and interview schedule methods from important key stakeholders such as students and teachers. The collected data was analyzed using appropriate analysis tools and hypothesis was tested. It was found that the performance of students is enhanced after ICT implementation in teaching learning process. It has found that there is improvement in the effectiveness of teaching learning process of secondary schools.

KEYWORDS: ICT, school, teaching stakeholders, performance.

INTRODUCTION

Education system always runs with the objective of providing knowledge to learners by all possible ways using all types of mediums available. Information and Communication Technology has the potential to play a vital role in every university's teaching – learning process. Implementation of ICT has an impact on some key areas such: redesign and presentation of curriculum, uses of available resources and the way current activities of teaching-learning process are being

reconfigured. This study undertaken with the aim of conducting qualitative research study and was carried out in selected secondary schools in karad city to assess impact of implementation of Information and communication technologies on teaching-learning process. There are a variety of philosophical approaches to the integration of ICT. It is also recognized that rapid technological advancements will inevitably "age" traditional observations in educational delivery of curriculum and classroom design.^[1]

INFORMATION AND COMMUNICATION TECHNOLOGY (ICT):

The second part of the research study, examines the possible relationship between the use of ICTs and the gender as well as the students performance.

SAMPLING

The sample of the research was chosen from the students in various secondary schools in karad city. The research sample of size 130 was selected from 650 students (the overall number of class X students) from 18 secondary schools in karad city on the basis of random sampling method and a questionnaire was distributed to them in order to complete it.

The questionnaire was divided into two main areas. The first part of the questionnaire focuses on the student's experience of using ICT. This area attempted to examine whether the respondents have internet access in school lab, whether they use e-mail, other internet tools and whether they can use social networking to support their studies.

The second of the questionnaire helps to derive information about students' attitudes to computer use and knowledge.

For the purpose of data analysis, descriptive statistics methods were used.

FINDINGS AND SUGGESTIONS

According to the findings of the research, some of the findings regarding the students experience of using ICT and students attitudes towards use of computers and knowledge. The details of analysis shown in appendix-I

- 67 % students use ICT implementation to obtain information for their studies
- 78 % students visit school lab very frequently.
- 78 % students prefer ICT implementation in learning activities.

- 88 % students prefer not to use computers to support the study.
- 17 % students prefer to use ICT implementation for a module instead of a lecture
- 75 % students use computer as a support to other teaching activities.
- 79 % students like to communicate with teacher using emails.
- 94 % student's percentage of marks increased after implementation of ICT.
- 91 % student's attendance increase after use of ICT.

CONCLUSION

This study found that students of secondary schools in Karad city were generally favorable to ICTs implementation in teaching learning process.

About students' performance, the survey revealed that students that use computers more often tend to score higher than other students.

Based on the findings of the research it is recommended for the teachers of schools in karad city to increase motivation level of the students to use ICTs to support their studies. This can be achieved from the by providing adequate and latest facilities to the students to have internet. The teachers should integrate ICTs in their teaching methods/processes and motivate students to use computers by writing assignments or searching the internet for information for their studies.

Furthermore, the ICT implementation is very important for the students after finishing their studies. The ICTs knowledge can help students in their future studies as well as in work environments and gives them competitive advantage comparing to others who are not familiar with computers.

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The researchers are grateful to the authors, writers and editors of the books and articles, which have been referred for preparing the presented research paper. It is the duty of the researchers to remember their parents whose blessings are always with them.

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ANNEXURE I:
Table 1: Students experience of using ICT

Q No	Question	Yes	Male	Female	No	Male	Female
1	I use ICT implementation to obtain information for my studies	87	50	37	43	20	23
2	I visit school lab to support my learning	101	55	46	29	15	14
3	I prefer the use of ICT implementation in learning activities in my school	114	57	57	16	13	3
4	I prefer not to use computers to support my studies	101	54	47	29	16	13
5	I would prefer to use computers to be taught for a module instead of a lecture	23	15	8	107	55	52
6	I would like to use computers as a support to other teaching activities	98	58	40	32	12	20
7	I would like to communicate with my teacher by e-mail	103	52	51	27	18	9

Table 2: Students attitudes towards computer use and knowledge

Q No	Question	Yes	Male	Female	No	Male	Female
1	Whether the percentage of mark increased after use of ICT in Teaching Learning Process	122	64	58	8	6	2
2	Whether School Attendance increased after use of ICT in Teaching Learning Process	119	59	54	17	11	6

Table 3 :Students experience of using ICT: Favorable response

Question	Total	No. of Student Respondents	
		Male	Female
I prefer not to use computers to support my studies	101	54	47
I prefer the use of ICT implementation in teaching activities in my school	114	57	57
I use ICT implementation to obtain information for my studies	87	50	37
I visit school lab to support my learning	101	55	46
I would like to communicate with my teacher by e-mail	103	52	51
I would like to use computers as a support to other teaching activities	98	58	40
I would prefer to use computers to be taught for a module instead of a lecturer.	23	15	8
	Average	48.71	40.86

Table 4 :Students experience of using ICT: Unfavorable response

Question	No. of Student Respondents		
	Total	Male	Total
I prefer not to use computers to support my studies	29	16	13
I prefer the use of ICT implementation in teaching activities in my school	16	13	3
I use ICT implementation to obtain information for my studies	43	20	23
I visit school lab to support my learning	29	15	14
I would like to communicate with my teacher by e-mail	27	18	9
I would like to use computers as a support to other teaching activities	32	12	20
I would prefer to use computers to be taught for a module instead of a lecturer.	107	55	52
	Average	21.29	19.14

Table 5 :Students attitudes to computer use and knowledge:- Favorable Responses

Question	No. of Student Respondents		
	Total	Male	Total
Whether School Attendance increased after use of ICT in Teaching Learning Process	119	59	54
Whether the percentage of mark increased after use of ICT in Teaching Learning Process	122	64	58
	Average	61.5	56

Table 6 :Students attitudes to computer use and knowledge:- Unfavorable Responses

Question	No. of Student Respondents		
	Total	Male	Total
Whether School Attendance increased after use of ICT in Teaching Learning Process	17	11	6
Whether the percentage of mark increased after use of ICT in Teaching Learning Process	8	6	2
	Average	8.5	4

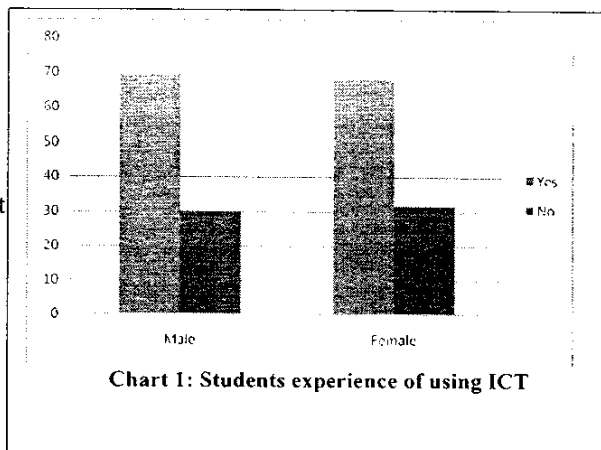
Table 7 Students experience of using ICT

- Average Response of Student of 70 Male and 60 Female

ICT Experience		
	Male	Female
Yes	48.71	40.85
No	21.29	19.15

- Percentage of response from student

ICT Experience		
	Male	Female
Yes	69.58	68.08
No	30.41	31.91

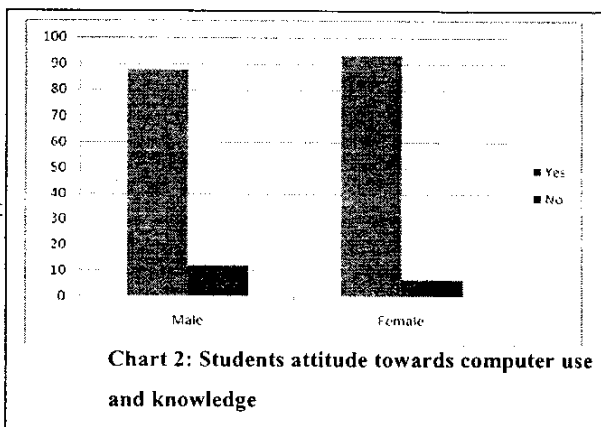
**Chart 1: Students experience of using ICT****Table 8 : Students attitude towards computer use and knowledge**

- Average Response of Student of 70 Male and 60 Female

Student Attitude		
	Male	Female
Yes	61.5	56
No	8.5	4

- Percentage of response from student

Student Attitude		
	Male	Female
Yes	87.85	93.33
No	12.14	6.66

**Chart 2: Students attitude towards computer use and knowledge**