

# Impact of ICT Tool in subject of Management Research

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**Abstract:** In this era ICT is used in everywhere to solve the human problems and perform smooth functioning of each and every task of life. In this paper to study the impact of ICT tools in the Management research. This presents research, which identified the benefits in using ICT, the challenges when it comes to managing it, communal performance and the attitudes of executives, and the relationship that exists among these dimensions in subject of Management research. The contribution is to increase the knowledge about the dimensions of the use of this technology, as the relationship among them and the technology, and among the dimensions themselves, and to present a framework for analyzing this use. To analyze or classified the data using SPSS.

**Keywords:** - ICT, Impacts of ICT, SPSS, Management Research

## INTRODUCTION:-

The use of computer and information technology in mainstream business has redefined workplace practices, operational metrics and business models. To get a better handled on business operation, data management, improved product quality, reduce human work, smooth function of organization, good management of work, to generate various report etc.

Information and communication technology Typically, ICT is widely used for advancement purposes, especially by the large researcher. Information is transferred between participants and different stages of the project are inefficient and redundant information is created. Transfer of information is often carried out manually. It is very obvious that ICT has done great for businesses. In spite of the possible benefits of ICT, presently a debate exists about how their acceptance enhances firm output. Use of and venture in ICT needs balancing investment in skills, organization and innovation and investment and change entails risks and costs as well as bringing potential benefits.

## ICT Tools:-

➤ Radio	➤ Cell phones
➤ Computer	➤ Software
➤ Internet	➤ Television
➤ Satelite	➤ Slide Presentation
➤ Teleconferencing	➤ Websites etc.

## Objectives:-

1. The main objective is to study impact of ICT tools in subject of Management research.
2. To study the use of ICT tools to make the functioning smooth in Research area.
3. To study utilization of ICT tools for research in Management subject.
4. To study involvement & use of ICT tools for data analysis.

## Hypothesis:-

Hypothesis is usually considered as the principal instrument in research. A hypothesis is a tentative statement about the relationship between two or more variables.

- 1) Use of ICT tools is helpful for doing good research work.
- 2) ICT tools perform good classification of data analysis.

## RESEARCH METHODOLOGY:-

The research area was Dhule District and it covers Four Tehsils in Dhule District were Shirpur, Dhule, Shindkheda and Sakri. The total sample size chose for the research 10 respodent in each tehsil. The researcher has estimated minimum 50 and maximum 80 respondents from Dhule district.



Table 10.1: Showing the total number of respondents considered for research from each Tehsil

Sr. No. (1)	Tehsil (2)	(3)	(4)	(5)	(6)
1	Dhule	15	20	15	10
2	Shirpur	15	20	15	10
3	Shindkheda	15	20	15	10
4	Sakri	15	20	15	10
5	Google	20	30	20	20

Note:-

- **Column No. 3:** Total number of respondent considered.
- **Column No. 4:** Total number of questionnaire distributed.
- **Column No. 5:** Total number of questionnaire returned by respondent.
- **Column No. 6:** Total number of questionnaire considered for analysis.

Experiment:-

Q Responses related to ICT tools useful in management research.

Responses	Frequency	% of Total
YES	58	96.66
NO	2	0.33
Can't Say	0	0
Total	60	100

Q Responses related to ICT tools to make the functioning smooth in Research area.

Responses	Frequency	% of Total
YES	60	100.00
NO	0	00
Can't Say	0	00
Total	60	100

Q Responses related to ICT tools for research in Management subject.

Responses	Frequency	% of Total
YES	57	95
NO	3	5
Can't Say	0	0
Total	60	100

Q Responses related to use of ICT tools for data analysis.

Responses	Frequency	% of Total
YES	55	91.66
NO	4	6.66
Can't Say	1	1.66
Total	100	100

Responses related to ICT tools improved Research Quality.

Responses	Frequency	% of Total
YES	60	100
NO	00	00
Can't Say	00	00
Total	60	100

**Hypothesis Testing Through Statistical Method: Chi- Square Test:-**

**HYPOTHESIS 1:** Use of ICT tools is helpful for doing good research work..

Thus applying the Formula  $\chi^2 = \sum (O_i - E_i)^2 / E_i$

Here,  $O_i$ = Observed Frequency (Response collected from survey),

$E_i$ = Expected Frequency (Expected Response)

Showing calculation of  $\sum (O_i - E_i)^2 / E_i$  in Dhule District.

Sr. No.	Smooth Functioning	$O_i$	$E_i$	$O_i - E_i$	$(O_i - E_i)^2$	$(O_i - E_i)^2 / E_i$
1	YES	58	20	38	76	2.8
2	NO	2	20	-18	36	1.8
3	CAN'T SAY	0	20	-20	10	0.5
	<b>Total</b>	<b>60</b>				<b>5.1</b>

$$\sum (O_i - E_i)^2 / E_i = 5.1$$

Degree of freedom (d.f.) is 2

Therefore, Tabulated value of  $\chi^2$  as 2 degree of freedom is 5.991\*

$$\chi^2 = 5.1 \quad 5.1 < 5.991^*$$

By Chi- Square test, we come to know that our hypothesis is Accepted at 5% level of significance.

• **Result:** - Thus, our hypothesis that the Use of ICT tools is helpful for doing good research work. There are number of researcher to use ICT Tools for doing good research work. In this way our hypothesis has been proved to be Positive for impact of ICT tools in Dhule District researchers.

**HYPOTHESIS 2:** ICT tools perform good classification of data analysis.

Thus applying the Formula  $\chi^2 = \sum (O_i - E_i)^2 / E_i$

Here,  $O_i$ = Observed Frequency (Response collected from survey),

$E_i$ = Expected Frequency (Expected Response)

Showing calculation of  $\sum (O_i - E_i)^2 / E_i$  in Dhule District.

Sr. No.	Good Communication	$O_i$	$E_i$	$O_i - E_i$	$(O_i - E_i)^2$	$(O_i - E_i)^2 / E_i$
1	YES	57	20	37	74	3.7
2	NO	3	20	-17	34	1.7
3	CAN'T SAY	0	20	-20	40	2
	<b>Total</b>	<b>60</b>				<b>8.29</b>

$$\sum (O_i - E_i)^2 / E_i = 8.29$$

Degree of freedom (d.f.) is 2

Therefore, Tabulated value of  $\chi^2$  as 2 degree of freedom is 5.991\*

$$\chi^2 = 8.29 \quad 8.29 > 5.991^*$$

By Chi- Square test, we come to know that our hypothesis is Rejected at 5% level of significance.

• **Result:** - Thus, our hypothesis that the ICT tools perform good classification of data analysis. There are number of researcher to use ICT Tools for to perform good classification of data analysis. In this way our hypothesis has been proved to be Positive for impact of ICT tools in Dhule District researchers.

**FINDINGS:-**

- Objective 1-** The main objective is to study impact of ICT tools in subject of Management research. After analyzing to finding that, regarding the **impact of ICT tools is positive impact of ICT tools in subject of Management research** In Dhule district out 60 respondents, majority (58) of choose YES option.
- Objective 2-** To study the use of ICT tools to make the functioning smooth in Research area. After analyzing to finding that, regarding the **impact of ICT tools is positive to make the functioning smooth in Research area.** In Dhule district out 60 respondents, majority (60) of choose YES option.
- Objective 3-** To study utilization of ICT tools for research in Management subject.



After analyzing to finding that, regarding the **impact of ICT tools is positive for research in Management subject**. In Dhule district out 60 respondents, majority (57) of choose YES option.

4. **Objective 4-** To study involvement & use of ICT tools for data analysis.

After analyzing to finding that, regarding the **impact of ICT tools is positive for data analysis**. In Dhule district out 60 respondents, majority (60) of choose YES option.

#### CONCLUSION:

It is observed in Dhule district ICT tool helps to new researcher who want to develop any new research in the world. To be in the race, it is very important to take ICT Tools in research area. It shows positive impacts of digitization on research work. It observed that the Internet, wireless networks, cell phones, and other communication mediums to increased performance of research work.

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