



A STUDY ON ICT IN TEACHING AND LEARNING IN COLLEGES OF MUMBAI

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Abstract:

Information and communication technology (ICT) has emerged as a transformative force in higher education , reshaping traditional pedagogical practices and fostering a technologically enriched learning environment. This study investigates the current role and impact of ICT in teaching and learning across colleges in Mumbai.

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Introduction:

ICT is also known as information and communication technology. It is used for searching information and data for various purpose for research, to gain knowledge, and in works of life. It is used also for storing data in form of various tools in pendrive, Hard drive, Microsoft tools.

History of ICT :

In early 1970 there was an impact of ICT in E-Learning using Internet. The development of the World Wide Web in the mid-1990s enabled web-based learning, allowing for wider access to information and resources.

Charles Babbage is titled to 'the father of computer' . He is credited to first mechanical computer.

ICT and Education:

Teaching and learning are two separate terms . Teaching to have full knowledge of the subject and then to impart this knowledge to someone or students. Learning means to grab the knowledge into your mind

and explain and utilize or apply in your life in different ways.

Now ICT in education means to way to impart knowledge to students in means of different or innovative manner in the way of tools like smart board, projectors , computers using tools such as videos, internet.

Advantages of Ict :

- It improves concentration – through digital interactive tools student concentration increase
- It provides good quality information
- It allows to store your data in various formats word, pdf
- It has good interaction in the classroom with using video,images , pictures

Disadvantages of ICT:

- Too much data is also not good because we require precise information
- Malfunctioning of the devices are very expensive.



Demographic Data- Students

Variable		Frequency	Percentage
Age	18-25	16	32.70%
	25-40	16	32.70%
	40-60	17	34.7%
Gender	Male	9	18.00%
	Female	41	82.00%

Demographic Data – Teachers

Variable		Frequency	Percentage
Age	Below 25 years		
	years25-34		
	years45-54		
	years55-64		
	65 years		
Gender	Male	2	6.00%
	Female	28	93.30%
Education	Bachelor degree	5	16.70%
	Master Degree	18	60.00%
	M.Phil	4	13.30%
	Phd	3	10.00%
	Other	3	10.00%
	Teaching Experience	Less than 5 years	5
	5-10years	12	40.00%
	11-15years	9	30.00%
	16-20years	1	3.33%
	More than 20 years	3	10.00%
Subject Discipline	Arts Humanities	7	22.60%
	Commerce Management	3	9.70%
	Science	2	6.50%
	Computer IT	1	3.20%
	Other	18	58.10%

Hypotheses statement:

There is a significant impact of ICT in the teaching learning evaluation.

Here above 50% agree then the hypotheses is accepted while below 50% hypotheses is rejected

For students

Statement	Percentage	Hypotheses
1. Understanding the concept of ICT	46% Agree	Hypotheses rejected
2. ICT helps understanding difficult topic	48% Agree	Hypotheses rejected
3 ICT makes learning interesting and Engaging	54% Agree	Hypotheses Accepted
4 ICT Supports independent Learning	46% Agree	Hypotheses Rejected
5 Knowledge of Using Basic ICT tools	56% Agree	Hypotheses Accepted
6 Awareness of online Platforms and digital library	58% Agree	Hypotheses Accepted
7 Regular use of ICT in classroom	42% Agree	Hypotheses Rejected

For teachers

Statement	Percentage	Hypotheses
1. Clearly understand concept of ICT in teaching and learning	70% Agree	Hypotheses Accepted
2. ICT makes teaching more interactive and engaging	56% Agree	Hypotheses Accepted
3. ICT supports innovative teaching methods in the classroom	83.33% Agree	Hypotheses Accepted
4 ICT helps in better communication between teachers and students		
5 ICT helps in assessing students performance effectively	80% Agree	Hypotheses Accepted
6 ICT helps in understanding difficult topics better	73.33% Agree	Hypotheses Accepted
7 ICT reduces workload of teachers	46.67% Agree	Hypotheses Rejected

Conclusion:

In the students data there is no significant impact of ICT in teaching and learning

While in teacher as the Hypotheses is accepted so there is significant impact of ICT in teaching and learning.

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