

**A Research Article on
USE OF MULTIMEDIA MOBILE PHONE AS A MEDIUM OF ICT IN RESEARCH**

**To be presented at
One-Day Multi-Disciplinary National Seminar on
'Data Collection and Analysis for Research'**

Organized by

**Tararani Vidyapeeth's
KAMALA COLLEGE, KOLHAPUR**

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ABSTRACT:

Information and Communication Technology has reached to its hike in present era. It has become a heart of development and progress in each sector proving its title. It has transformed the world into a global village. Now that we are thinking of it from the educational perspective, ICT has made it very user-friendly for both teacher and learner. Generally we think of a computer as an emphatic medium of ICT. But now it has gone beyond one's imagination transforming itself into a very tiny in size and great in its usages. The technology is changing day by day. We can see the development in the mobile phone technology. From just a phone into a multimedia equipped device. We have now a complete world in our palm in the form of android mobile phone. Basic knowledge of its function is enough to utilize the device. Similarly, right guidance and its path can lead to perfection in research. We need not to depend only on a computer or laptop for the same. They are very uncomfortable to carry everywhere. In addition to it a multimedia equipped phone functions same as a computer or laptop. It can transfer and receive files, images, videos, charts, graphs etc. and we can edit or prepare a nice presentation with the help of all this. The present paper highlights how a Multimedia equipped phone can be used as a Research Tool for data collection, data analysis, presentation, to share and upload any information regarding the research topic, how is it user friendly, how can one be convenient with its possession and so on. This paper may prove to be very helpful to all those who are doing any type of research. The people who have undertaken any research and using hi-tech, advanced mobile phones may feel lucky after going through this paper.



INTRODUCTION:

There is a revolutionary change in the digital technology. It has reached in every nook and corner of the world. It is within reach of common people nowadays. It has become very easy for everyone to be in touch with each other though they are living thousand miles away. Its quickness has brought all closer than before. Business people can't think themselves without mobile phone. The world has become very rapid and it has become a perfect device to cope up with the time. There were days when phone was just a medium of (audio) communication. For watching videos there were only TV and cinema theatres; for photo one has to go to the photo studio or photographer used to call; listening audio songs was only possible through cassettes; we had to sit beside radio for entertainment from it; transferring files like photo, documents was possible only when they are printed and shared; for audio or video recording special tape-recorder and camera was needed; sending messages was only possible through letters, telegrams.

But when the simple phone became cordless, messages came in pagers, then came basic version of black-white display mobiles; then colour screen mobiles with radio; then with photo camera; it followed by video shooting; then radio, internet, sharing photos, audios, videos, messages, documents via Bluetooth, and sharing applications for android mobile phones such as Xender, Shareit, Zapyta etc. All these features are very helpful for the one who is doing research. Our mobile phone having internet connection is simply a miracle. Internet facility has opened doors for everyone around the world. One can sit at a place and can get to know information about anything in his/her palm! Such information can be received through audios, videos, documents etc. available with the help of our mobile phones in our hand! In a research work the research scholar is always alert to collect any data regarding his topic of research from everywhere. Multimedia equipped phone is a ready device for such people as one can record, shoot, write, send and receive messages and information, can store information into it to use anytime, anywhere. The present article highlights those usages of mobile phone from the perspective of any research undertaken by a research scholar of anywhere around the world.

➤ Use of Mobile Phone for References in Research:

Mobile is of great help for finding references related to our research. There are various ways to find meaning and definitions of any concept we wish to know from

dictionaries, encyclopedias, thesaurus, biographies, handbooks, index and abstracts, yearbooks, statistical sources and so on. If we give a search under the title Reference in Research, we will have number of meanings of research on internet. The journals and research paper available on internet have a citation index. This helps the research scholar to know the importance of the referred material. Similarly we can have the number of people visited to it. Thus it becomes easy to decide for the research scholar how much valuable the reference is.

➤ **Use of Mobile Phone in Historical Research**

In research it is very important to peep into history to understand present properly. Every incident in our life has history. Though, internet and the invention of advanced mobile phone are recent, we can be satisfied with the information we need for our research. We are able to understand the meaning of historical research. It is helpful for a researcher to develop consciousness about the research topic, the ability to identify just and unjust, moral and immoral human values. Mobile phone is a ready device on our palm to tap and find with correct search for our research topic and get history of anything we want.

➤ **Use of Mobile Phone in Survey Research**

For the better use of mobile phone in this type of research, let's first try to know what actually it means. *'Survey Research studies large and small populations (or universes) by selecting and studying samples chosen from the populations to discover the relative incidence, distribution and interrelations of sociological and psychological variables'* (pg. no. 12, Book no. 04 YCMOU, Sanshodhan Margadarshak Malika). According to the definition, the researcher, undoubtedly, has to do his practical work. But mobile phone helps him/her to go through such researches done before. They are generally uploaded by the organizations and personally by the authors or researchers in PDF format. The researcher can have a survey for his own research through this way and then can go for actual work.

➤ **Use of Mobile Phone in Experimental Research**

For those who have undertaken an Experimental Research, mobile is a boon for them. Multimedia equipped mobile phone with internet connection is a way to connect the world of a particular area of research! Experimental research has its own steps of study

like a formula. E.g. in Single Group Pre-Post Test Design, the steps are like Sample selection, Pretest, Experimental Remedies and Post Test. Videos on internet are the best audio-visual sources through which one can observe and study such research works. Number of videos and websites are available that provide and guide for the research we are interested in, which is done by the scholars around the world.

➤ **Use of Mobile Phone in Pilot Study**

Pilot research is useful for Survey Research and Experimental Research. It is studied through questionnaire. Mobile internet is best option to study questionnaires anywhere, anytime! Qualitative and Quantitative Research take help of pilot study. Pilot study takes help of interviews of the concerned people. Such interviews are easily available on You Tube. We can download it for our personal record from Tube mate, Vidmate applications which can be easily downloaded from Play store. These applications are not easily downloaded on a computer but the same thing is done on an android mobile phone!

➤ **Use of Mobile Phone for Observation in Research**

Besides field work, observation is also done through reading documents. There are many online books, journals, research papers, uploaded dissertations, research projects, magazines, news, articles, and online social organizations and so on. All these provide a researcher better sources for observation for the research undertaken of any field. Mobile phone apps are available on the UC browser where one can read books in PDF format by selecting mobile view option. It provides full screen option where we get the feel of reading actual book e.g. turning page. Similarly, one can order book from online shop if its hard copy is available with attractive discounts! Thus, a mobile phone is a device which makes it easy to handle research material in our palm.

➤ **Sample Selection and Using Statistical Techniques in Research through Mobile Phone**

In research it is necessary to select samples regarding our research. Sometimes the researcher may confuse about the particularity of sample. Here internet provides numerous websites and research materials having such study method. Wikipedia is a

hoard of knowledge where one can get the idea clear about his/her research topic. What sample/s they need and which to select properly. There are various sample selection methods available such as- Probability Sampling, Non-Probability Sampling, Simple Random Sampling, Lottery Method, Systematic Sampling, Stratified Random Sampling, Cluster Sampling, Multistage Sampling, Accidental or Convenience Sampling, Quota Sampling, Deliberate or Purposive Sampling, Double Sampling, Judgement Sampling, Sequential Sampling, Incidental Sampling, Area Sampling etc. Thus, the appropriate method of sample can be done after referring ready material on internet with the help of mobile phone.

Statistical Techniques is another way of accuracy in research. This is especially used in the research where analysis of data is important. There are tests having correlation with prediction, validity, verification, parametric test and non-parametric test. Mobile internet can help us to search, observe, download, print and study the data regarding our research and reach to a final step of a successful research work.

➤ **Use of Mobile Phone for the Skill of Writing in Research**

There are many researchers who are good at data collection but how to represent data in a proper way is their problem. Here one can need help of an expert. At this stage, mobile internet can be of great help. We have to just give a search in the google search bar under the title ‘wikihow’ and we will have its page having another search bar there we have to type ‘how to write a research...’ One can be amazed to have very simple steps with numbers about the information we want. Similarly, ready-material of ideally written researches is available in PDF format. Further, one can have PPT i.e. PowerPoint Presentation slides explaining how to use writing skill in a research. Thus, mobile is a ready-in-hand device to search, read, select and download and upload such materials and study from the point of view of our research we have undertaken.

➤ **Use of Mobile Phone for Production of Tool in Research**

Sometimes our research is based on the production of a tool. Here we can have number of ideas from internet. We can search such tools already produced under the same research method. The research scholars can have better options through which they can watch videos, read materials, photographs. Its utility for the purpose it was produced. Mobile phone has same options of getting all these things as we do on our

personal computer. But instead of going to computer we can tap our mobile phone to collect all this information, get ideas from various websites and by using our talent we can produce our tool after deep research.

➤ **Use of Mobile Phone in Writing Research Report**

Writing Research report is an art. It has its own standard and systematic method of writing as under:

INDEX		
Sr. No.	Title	Page No.
1	Front Page	I
2	Declaration	II
3	Certificate	III
4	Acknowledgment	IV
5	Contents	V
6	List of Charts	VI
7	List of Diagrams	VII

Different fonts, Bold letters, Bullets, numberings, method of giving page numbers, space for footnotes and its matter, bibliography, appendix etc. It depends on the type of research how to represent the research in the thesis or dissertation, article or paper. Mobile internet is a best source to study such type of research material and take guideline for one's own research area or topic.

Conclusion:

In the age of digital technology, everything has gone very quick. The field of research cannot be an exception in it. Rather it has become very rapid with advanced materials used for and in research. There is no limit for resources to do research work in any area. One should have great aspiration to go through with a genuine zeal and enthusiasm and keep aloof from the blunder of plagiarism. On the other hand, one can become a global personality if his/her research proved to be helpful for the welfare of country, society or human beings around the world. Such researches have brought us these modern facilities, progress and development. At the time of James Wyatt, Graham

Bell, Newton etc. there were no such physical facilities and advanced resources. But they were unstoppable until they were succeeded finally in their research and became icons in the field of research. Now that we have more resources, facilities and dazzling development, we can make our own world worth to live in with the help of research based on our inborn talent.



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२००५ आवृत्ती
डॉ. के.यु.घोरमोडे/डॉ.सौ.कला घोरमोडे, शैक्षणिक संशोधनाची मूलतत्वे, विद्या प्रकाशन,
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