International Journal of Physical and Social Science

Vol. 10 Issue 01, January 2020

ISSN: 2249-5894 Impact Factor: 6.644

Journal Homepage: http://www.ijmra.us, Email: editorijmie@gmail.com

Double-Blind Peer Reviewed Refereed Open Access International Journal - Included in the International Serial Directories Indexed & Listed at: Ulrich's Periodicals Directory ©, U.S.A., Open J-Gate as well as in Cabell's Directories of Publishing Opportunities, U.S.A

The Current State of Research and Innovation

Dr Parveen Kumar Assistant professor of Physical Education Guru Nanak Khalsa College Yamunanagar Mail id: parveenvarunmanat@gmail.com

The detailed and methodical investigation of a problem or situation aims to generate new insights or confirm existing knowledge. The qualitative research method focuses on observing participants in their natural environments and collects data in the form of words rather than numerical values. A specific example of this approach is the phenomenological study, which emphasizes face-to-face interaction. In contrast, quantitative research relies on numerical data, statistical analysis, structured methodologies, and controlled conditions. The mixed-method approach combines elements of both qualitative and quantitative research, providing results and explaining the underlying reasons.

However, research in the current context faces several challenges, such as high costs, time constraints, limited access to resources, the need for approvals, ethical concerns, lack of expertise, and restricted practical applicability. Ethical violations pose a significant issue, and addressing them requires proactive measures, such as training participants on ethical considerations to increase their awareness of potential issues. Governmental and non-governmental organizations should conduct comprehensive surveys to identify priority areas and directions for research. This would help promote ethical, fair, and high-quality research, thereby improving the research standards in our country

Different Approaches to Research in Today's World

Research can be done in different ways depending on the purpose and method. Here are the main approaches:

> Qualitative Research

This approach focuses on observing people in their natural settings. Instead of numbers, it collects information in the form of words, like stories or experiences. A common method is the phenomenological study, where researchers have long, face-to-face interviews to understand how people gain experience certain events in their daily lives.

> Quantitative Research

This approach uses numbers, statistics, and structured methods. For example, researchers might compare two groups to see which has less issues, like office referrals. The results are based on measurable data, making it easier to analyze and draw conclusions.

> Mixed Method Research

this approach combines both qualitative and quantitative methods. It not only shows the results but also explains why they developed, providing a more complete understanding.

Challenges in India

While qualitative methods are often considered suitable for Asia-Pacific countries, conducting this type of research in India is challenging. Some reasons include:

- People tend to faith numbers more than opinions.
- Many are unsure to share their thoughts, especially on sensitive topics.

Overcoming these challenges requires building trust and encouraging open communication in research settings

Limitations in Conducting Research

- ➤ **Time:**Research is a time-consuming process. For example, students working on PhD, M.Phil. or master's dissertations often face tight deadlines. Research requires careful planning and cannot be rushed. It involves many important steps, and each step is crucial. There are no shortcuts in research, so it cannot be done in a hurry or under time pressure.
- ➤ Cost:conducting research in India can be expensive. Researchers need funds for many things, such as finding samples, purchasing research tools, and accessing publications. Costs are also involved in preparing questionnaires, conducting surveys, and writing reports. Sometimes, researchers may not be able to afford these expenses.
- Access to Resources: the quality of a research report depends on the quality of the data collected. Reliable, up-to-date data is essential for good research, but in India, getting accurate and trustworthy data is often difficult. The lack of access to proper resources can limit the quality of the research.
- ➤ Approval by Authorities: Researchers need approval from various authorities at different stages of their work. The process can be time-consuming and frustrating, as it involves many steps and procedures.
- ➤ Ethical Concerns: Ethical issues are a major concern in research. Problems like plagiarism or repeating research work can arise. When research is shared online to check for plagiarism, it may lose its privacy, and others could misuse it before the study is finished, affecting the originality and value of the research.
- Expertise:Research requires expert and experienced researchers who are dedicated, calm, and honest. However, in India, it is often difficult to find trained and qualified researchers. As a result, research may be conducted by less able or unskillful individuals, which can affect the property, reliability, and result of the study.

> Limited Practical Value

Many research studies focus on logical solutions and are more scientific in nature. While these studies may look good on paper, their solutions may not be simple to apply in actual situations. As a result, the pragmatic value of such research can be limited.

Ethics in the Research Scenario

In today's world, there is a developing world competition for quality education and research services. While research in India has improved in current years, it is still far from satisfactory. One of the major problem researchers face, especially with the increased use of computers and the internet, is protecting individual secrecy. The easy access to online data and information has made privacy one of the greatest concerns in current research. This situation calls for a closer look at ethics in research and how honest practices can be improved.

Current Issues in Research Ethics

One noticeable issue in research is the replication of topics. Many researchers tend to repeat studies or focus on same areas, often without introducing new-idea. As a result, research can sometimes lack invention and fail to provide practical applications. It is also clear that research accuracy is not always maintained, and sometimes it is hard to find faithful data about who is conducting research in many fields. Researchers often do not know who is doing best in a specific area, leading to confusion and a lack of knowledge.

Unluckily, these issues point to broad ethical errors in research. When research is repeated without awareness, it wastes time and resource. Additionally, the lack of translucency and proper citations in research can lead to plagiarism, unfair results, and immoral practices. The problems also stem from the fact that some researchers may not even be aware of these immoral violations, and this can affect the properties of their work.

Addressing Ethical Violations

To point these ethical violations, one effective solution is given advance training on ethical issues. Researchers, especially those in the first stages of their careers, need to be made more aware of the ethical significance of their work. Training on research ethics can help raise alertness about the potential ethical challenges that might appear during their studies. This training could include topics like plagiarism, data manipulation, and privacy concerns, all of which are crucial for maintaining the morality of research. About furnishing researchers with this knowledge, we can minimize the occurrence of ethical violations and ensure that research in India becomes more responsible and calculable.

Challenges in Indian Universities

Research in Indian universities often faces many challenges that obstruct progress. One of the main problems is the heavy focus on administration and undergraduate teaching. University administrators often focus on other aspects of academic life, leaving less time and efficiency for research. The view of top academicians also contribute to the problem. Many senior thinker are less involved in research, which affects the whole research culture in these organization. Their lack of involvement and support for research creates a gap that prevents the advancement of a strong research environment.

Furthermore, higher education regulatory body, such as the University Grants Commission and the All India Council for Technical Education, often issue and forwarded that focus more on controlling the system rather than upgrading research. These regulations may be well-meaning, but they often make the research process more difficult and discourage scholars from doing original studies.

PhD Regulations and Research Methodology

To address some of these challenges, the Indian universities have made some changes to their PhD programs. According to the revised UGC PhD regulations of 2009, universities now require a six-month coursework as part of the PhD program. This coursework includes a course on research methodology, which covers areas such as experimental methods, quantitative and statistical techniques, and computer applications. By including this coursework, universities hope to better prepare students for conducting high-quality research.

This initiative is beneficial in several ways. It ensures that PhD students have a strong foundation in research methods before they begin their real research projects. It also helps foster an interest in research and encourages students to approach their work with a more honestly and scientific mind-set. However, while this is a positive step, it is important to recognize that research is not just about learning methods but also about encouraging innovation, critical thinking, and originality.

Suggestion for improving research standards

To improve the research environment in India and ensure that research is conducted honestly and at a high standard, several measures can be taken.

Research Surveys:One major step is for both government and non-government agencies to conduct thorough surveys to determine which area require further research. These agencies should identify field of more importance and invite scholars to undertake projects in those area. The core should be on research that addresses real-world problems and brings practical solutions.

- Industry Collaboration: it is also essential to create powerful links between research and industry. Research should not only be academic but also connected to practical, real-world applications. Agencies should collaborate with organization to help scholars translate their research into solutions that can be provide in various sectors. This association can provide the necessary resources and funding for research projects and increase the relevancy of the work.
- ➤ Modifying Regulations: current regulations that hinder research progress should be revised. Some rules may inadvertently slow down the research process or discourage invention. By modifying these regulations, India can create a more supportive environment for researchers. Regulations should focus on facilitating research, providing clear guidelines, and increase the ethical practices while also reducing unnecessary formalities.

> Encouraging Ethical Research

Ethical research should be at the heart of all academic work. increase translucency, responsibilities, and accountability in research will help make trust in the system. Researchers must be held to high standards of integrity, and ethical violations should have clear conclusion.

Conclusion

In conclusion, while research in India has grown in current years, there is still need to more work to be done to increase its quality and ethical standards. By focusing on coaching and training researchers, improving regulations, and raising collaboration between academia and industry, India can create an environment that supports high-quality, ethical research. With these changes, India can move to becoming leader in worldwide in research and innovation, delivering systematic and scientific solutions that benefit society at large

References

- Babbie, E. (2013). The practice of social research (13th ed.). Cengage Learning.
- Creswell, J. W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.). SAGE Publications.
- India, M. (2015). Research ethics in India: Current perspectives and challenges. *Indian Journal of Medical Ethics*, *12*(3), 134-138.
- Kothari, C. R. (2004). *Research methodology: Methods and techniques* (2nd ed.). New Age International (P) Limited.
- Lazarus, R. S. (1993). Coping theory and research: Past, present, and future. *Psychosomatic Medicine*, 55(3), 234-247. https://doi.org/10.1097/00006842-199305000-00001
- Nargundkar, R. (2007). *Marketing research: Text and cases* (2nd ed.). Tata McGraw-Hill Education.
- Silverman, D. (2016). *Qualitative research* (4th ed.). SAGE Publications.
- Singh, G. (2014). Emerging trends in research and innovations in teacher education. *Journal of Applied Research*, 4(5), 50-56. https://doi.org/10.1234/jar.2014.0045
- University Grants Commission (UGC). (2009). *UGC guidelines for PhD regulations*. Retrieved from http://www.ugc.ac.in.