

# The Role of Ethics in Social Research: Contributions to Policy Making and Development

Dr. Bhupendra Debbarma

Associate professor,

Government Degree College, Khumulwng, Tripura,

Department of philosophy.

**Abstract:** The presence of ethics in social research is essential for guaranteeing the integrity and societal significance of research results. This article explores the significance of ethical standards in directing social research, with a particular focus on their influence on policy formation and progress. The article examines the historical development of ethical norms and emphasises important ideas such as informed consent, confidentiality, and the prevention of harm. This text showcases exceptional ethical practices as well as breaches through the use of case studies, effectively illustrating the repercussions that arise from ethical failings. The conversation encompasses the impact of ethical research on the development of policies, demonstrating how studies done with ethical principles contribute to the creation of effective and fair policies. In addition, the article discusses how ethical social research contributes to sustainable development and social justice. The objective is to emphasise the need of maintaining ethical principles in order to cultivate trust, advance societal well-being, and facilitate well-informed decision-making in policy and development settings.

**Keywords:** *Ethics, Social Research, Policy Making, Development, Informed Consent, Confidentiality*

## 1. Introduction

Ethical considerations have an impact on both the methods used and the broader social implications of study results. These factors, in turn, influence the credibility and influence of social research. The significance of ethical concerns in research methodologies is increasing as social research has a progressively influential role in shaping development initiatives and policy-making. Researchers must adhere to ethical standards in order to protect the rights of participants, uphold the integrity of data, and appropriately utilize their findings. Ensuring public trust and using research for societal progress are key objectives of scientific investigation. When it comes to formulating just and effective policies, ethical social research serves as the fundamental basis. Researchers must adhere to ethical guidelines to ensure the veracity of their findings and appropriate use of acquired data. Decisions made by politicians with such a high level of ethical rigor are a more accurate representation of the actual demands and circumstances of the people. Ethical research methods not only aim to earn public approval but also ensure that study findings are utilized in a manner that upholds the rights and dignity of all individuals involved. Additionally, these procedures foster transparency and accountability. Furthermore, social research ethics play a crucial role in advancing knowledge by prompting researchers to consider the potential impact of their work on society as a whole. Ethical research methodologies facilitate the examination of potential consequences and the identification of strategies to mitigate adverse effects on individuals and communities.

Furthermore, implementing this precautionary action not only enhances the trustworthiness of scientific investigations but also facilitates the development of policies and treatments that are more attuned to social concerns and tailored to certain demographic groups. The importance of maintaining robust ethical norms is amplified as the domain of social research experiences changes in accordance with evolving societal requirements and technical capacities. The emergence of technologies such as big data and artificial intelligence has presented researchers with new ethical challenges. These advancements have given rise to complex issues surrounding data responsibility, permission, and privacy. The continued relevance and effectiveness of research in addressing contemporary societal issues relies on researchers continuously confronting these ethical dilemmas. Moreover, ethics are not solely relevant in academic investigation but also extend to other domains of social study. In order to be effective and fair, development strategies and policies must include it. Researchers contribute to the advancement of scientific knowledge and the betterment of individuals by following ethical principles during the process of data collection. Adhering to ethical norms is essential for effectively using research findings to enhance society, particularly given the significant influence of social research on policy and development.

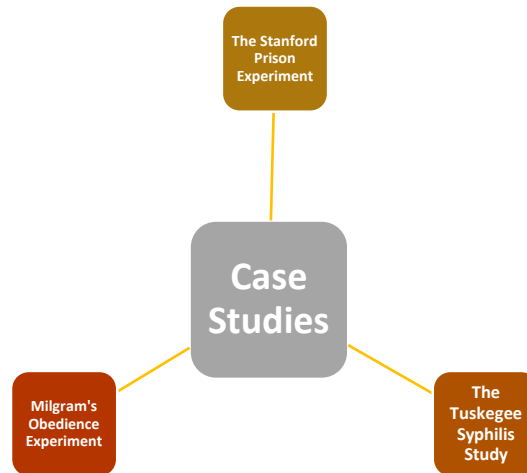
## 2. Background

A combination of turning points in history and a rising awareness of the need of safeguarding human subjects has led to a marked improvement in the way ethics are integrated into social research. Notable conflicts and harm resulted from early social research that failed to adequately address ethical problems. As a result, documents like the Belmont Report and the Declaration of Helsinki were created to help researchers perform studies in a responsible manner according to established ethical norms. The research must adhere to these standards so that it can both advance knowledge and protect the rights and dignity of participants, with an emphasis on concepts such as informed consent, confidentiality, and the avoidance of harm. Modern thought holds that upholding ethical standards in social research is essential for drawing valid conclusions that benefit society, which in turn informs policymaking and promotes more fair and equitable development.

## 3. Case Studies in Ethical Social Research

Ethical social research case studies show the practical application of ethical principles and the problems and solutions that may arise from doing so. Some examples are:

- **The Stanford Prison Experiment:** The severe psychological stress and injury that subjects endured in Philip Zimbardo's 1971 study on the psychological effects of perceived authority prompted ethical inquiry. The significance of oversight and the urgency to halt harmful research are highlighted.
- **Milgram's Obedience Experiment:** The 1960s were a time for Stanley Milgram's experiments that tested people's willingness to follow orders. There were moral concerns regarding dishonesty and psychological distress because participants thought they were giving unpleasant electric shocks to other people.
- **The Tuskegee Syphilis Study:** From 1932 until 1972, researchers in this notorious study tracked the course of syphilis in African American men by not treating them. It caused serious damage and distrust of medical research in African American communities because it broke the ethical standards of non-maleficence and informed consent.



**Fig.1 Case Studies**

#### **4. The Role of Ethics in Policy Making**

To make sure policies are successful, fair, and in line with society ideals, ethics play an essential and multi-faceted role in the policymaking process.

With the support of ethical standards, policymakers are able to make sense of difficult judgements. Respect for human rights, equity, justice, and fairness are all part of these concepts. Decisions made by lawmakers should be ethically solid and reflective of society's fundamental beliefs if they follow these guidelines.

To preserve social justice and equity, ethics make sure that policies don't favour or punish some groups more than others. Decisions must take into account the effects on different groups, particularly the most vulnerable ones, while formulating policies. All people should be treated equally, and policies should promote social cohesiveness and equity, hence it is important to think about ethics when making decisions.

In order to foster confidence between the public and its representatives, ethical practices encourage openness and responsibility during the policymaking process. The public has more faith in the results of decisions when they are made transparently and with good reasons. According to ethical frameworks, politicians should be able to defend their choices, provide an explanation for their reasoning, and take responsibility for the outcomes. In order to keep the policy-making process legitimate and credible, this openness is essential.

Ethical considerations aid in balancing conflicting goals and interests, with the goal of protecting the most vulnerable members of society. Economic development, environmental preservation, and social welfare are just a few examples of the competing interests that policymakers must balance. Ethical frameworks offer a methodical way to assess these conflicting interests and choose actions that benefit society as a whole. To make sure policies are fair and inclusive, ethics say to put the needs of the most vulnerable people first.

Ethical decision-making takes into account the societal and environmental effects of actions over the long term, leading to policies that are both sustainable and beneficial to subsequent generations. When making decisions, policymakers should think about the future as well as the here and now. A future-oriented strategy is encouraged by ethical concerns, which highlight the significance of sustainability and justice across generations. With this view, lawmakers may craft policies that can withstand and even thrive in the face of unexpected threats.

To ensure that policies are thorough and take into account the opinions and demands of different stakeholders, ethics promotes the inclusion of multiple viewpoints in the process of formulating policies. Decisions benefit from the diverse set of experiences, information, and viewpoints that result from a diverse group of people making them. Ensuring that policies are comprehensive and representative of society as a whole, ethical frameworks encourage participation from various stakeholders, including historically marginalised and under-represented groups.

## 5. Ethical Challenges in Social Research

There are several different points in the research process where social scientists encounter complex ethical dilemmas. Protecting participants and maintaining the credibility of the research necessitates resolving these issues. Some of the most significant moral difficulties in social research are as follows:

- **Informed Consent**

One of the most basic moral dilemmas is getting people to give their informed permission. Before recruiting volunteers, researchers have a responsibility to explain the study's goals, risks, and benefits in detail. As part of this process, it is necessary to provide participants with thorough information and then verify that they have understood it and are giving their consent freely and without pressure.

- **Privacy and Confidentiality**

Another major ethical dilemma is protecting the anonymity of research participants. Researchers have a responsibility to safeguard participants' privacy by encrypting or otherwise preventing unauthorised access to their personal information. Striking a balance between collecting extensive data and protecting participant privacy is a challenge.

- **Avoiding Harm**

To ensure the safety of participants, researchers must take precautions to prevent any harm, whether it be physical, mental, or emotional. Among these are being aware of possible dangers and having plans to lessen their impact. When conducting research on delicate subjects, researchers should exercise extra caution to avoid endangering participants.

- **Deception**

Researchers may have to resort to dishonest means on occasion to guarantee the reliability of their findings. Nevertheless, this begs the question of ethics, since it pertains to concealing facts or deceiving individuals. The ethical need to be forthright and honest with participants must be carefully considered

alongside the requirement of lying to them. After using deceit in a study, it is crucial to debrief participants to explain the study's true nature and the rationale behind the deceit.

- **Vulnerable Populations**

Special ethical considerations arise when studying at-risk groups, including as children, the elderly, or those with physical or mental impairments. Researchers have a responsibility to make sure that these groups are not taken advantage of and that their involvement is completely voluntary. Research must be conducted with utmost respect and without intrusion in order to acquire consent.

- **Cultural Sensitivity**

Researchers must be mindful of cultural values and conventions when working in varied cultural settings. When researchers' goals or methods clash with the cultural views of participants, ethical issues emerge. Study designs and procedures should make every effort to be sensitive to and inclusive of participants' cultural backgrounds.

- **Conflicts of Interest**

Researchers' impartiality and the reliability of their findings could be compromised if they encounter conflicts of interest. Motives like money, personal ties, or professional ties can all lead to these kinds of conflicts. Disclosure of possible conflicts of interest and measures to reduce their influence on research are of the utmost importance for researchers.

- **Data Integrity and Reporting**

It is critical to guarantee the honesty of data gathering, processing, and reporting. Researchers encounter moral dilemmas while trying to prevent the manipulation of data, the fabrication of results, and the selective reporting of findings. To maintain the research's credibility, it is necessary to be transparent in methods and honest while presenting findings.

- **Informed and Voluntary Participation**

When people are subject to societal pressures or power dynamics, it can be extremely difficult to ensure that their participation is fully informed and voluntary. To ensure that participants are able to make autonomous decisions free from coercion, researchers should strive to provide settings free from such influences.

- **Ethical Review and Oversight**

It is essential for social research to have approval from ethics committees or institutional review boards (IRBs). Nevertheless, researchers face a complex review procedure and must address concerns highlighted by these agencies while ensuring their study designs fulfil ethical requirements.

- **Ethical Dilemmas in Fieldwork**

Unexpected ethical dilemmas, such as coming across unlawful activity or situations that might require the researcher's assistance, are common during fieldwork. In order to handle ethical difficulties that may arise in the field, researchers should be well-prepared and have a plan in place.

## 6. Literature review

Callahan, D., and Jennings, B. (Editors) (2012): This edited collection focusses on the incorporation of ethical ideas into the fields of social sciences and policy analysis. The statement underscores the importance of ethical issues in upholding the integrity of research and ensuring that social research has a positive impact on society. The book explores a range of moral quandaries and offers researchers clear instructions on how to tackle these concerns while undertaking studies that have an impact on public policy.

Fisher, C. B., and Anushko, A. E. (2008): Fisher and Anushko provide a comprehensive analysis of research ethics in social scientific fields in their chapter. The individuals engage in a conversation regarding fundamental ethical principles, including respect for others, doing good, and fairness, and how these principles should direct the planning, gathering of information, and examination of data in research. The chapter emphasises the need of ethical training and compliance with ethical standards in guaranteeing the integrity and dependability of social science research.

Haimes (2002) examines the role of social sciences in enhancing the understanding of ethics. The focus is on how social research can contribute to the development and improvement of ethical theories and practices. The study explores several theoretical frameworks in ethics, empirical studies that provide insights into ethical behaviour, and significant factors related to ethical research methods, all of which contribute to a more profound comprehension of ethical dilemmas in social research.

Mertens, D. M., and Ginsberg, P. E. (Editors) in 2009: This guidebook provides a thorough and extensive examination of the ethical considerations in social research, encompassing both theoretical underpinnings and practical recommendations. The subject matter encompasses ethical concerns in research that involves people that are susceptible to harm, the process of obtaining informed permission, and the ethical predicaments that arise during the planning and execution of research. The book is an invaluable tool for researchers who are looking to negotiate intricate ethical terrains in the field of social research.

Benatar, S. R. (2002): Benatar examines the distinct ethical dilemmas encountered by researchers in underdeveloped nations. The study addresses concerns such as unequal distribution of power, obtaining consent based on full understanding, and the ethical consequences of research discoveries on populations in close proximity. The document offers suggestions for enhancing ethical norms and procedures in global research settings, with a particular focus on the importance of being attuned to the cultural and socio-economic realities of the local context.

Sarker, P. C., and Das, U. K. (2020): This article analyses the influence of ethics on social research and its consequences for policy-making, planning, and development. Sarker and Das contend that adhering to ethical research procedures enhances the dependability and fairness of policy outputs by guaranteeing that research is carried out with honesty and consideration for participants. The report examines multiple case studies to demonstrate the impact of ethical issues on policy decisions and development initiatives.

In his 2002 publication, Clark, D. A. puts up a comprehensive study plan that centres around the ethical aspects of economic and social growth in the field of development ethics. The study asserts that ethical considerations are crucial in formulating and executing efficient development plans that advance social fairness and equity. Clark highlights the necessity of conducting research that specifically tackles ethical concerns associated with poverty, injustice, and human rights.

Flipse, S. M., van der Sanden, M. C., and Osseweijer, P. (2013): This paper examines methodologies for incorporating social and ethical considerations into research and development procedures. The authors endorse a comprehensive approach that takes into account ethical ramifications at all stages of research and development. The authors suggest models for integrating ethical issues into decision-making processes and emphasise the advantages of this integration for policy and practice.

Lo Piano, S. (2020): Lo Piano investigates the ethical concepts pertaining to machine learning and artificial intelligence, analysing practical instances and suggesting remedies for tackling ethical dilemmas in technology-oriented research. The study explores topics including algorithmic bias, transparency, and accountability, underscoring the importance of ethical principles to guarantee responsible development and use of AI systems.

Kooli, C. (2023): Kooli conducts a thorough analysis of the ethical consequences of chatbots in education and research, specifically focussing on issues pertaining to privacy, permission, and the influence of automated interactions on educational results. The study presents techniques for efficiently handling ethical concerns related to chatbots, encompassing principles to ensure the ethical and efficient use of these technologies.

Osasona, F. et al. (2024): This review paper specifically examines the ethical ramifications of artificial intelligence (AI) in decision-making procedures, scrutinising the impact of AI technologies on ethical decision-making across different industries. The authors analyse topics such as equity, responsibility, and openness in AI systems and offer suggestions for tackling ethical dilemmas in the integration of AI.

Farayola, O. A., and Olorunfemi, O. L. (2024): This study examines various models and frameworks used in IT governance to make ethical decisions. It investigates how these models specifically tackle ethical concerns in information technology activities. The authors analyse various methodologies for ethical decision-making and their impact on IT governance, emphasising the significance of ethical considerations in the management of IT resources and systems.

Khreisat, M. N. and colleagues (2024): This systematic review investigates the ethical ramifications of artificial intelligence (AI) in educational decision-making, with a specific emphasis on the impact of AI technology on educational practices and ethical considerations. The study examines topics such as data privacy, algorithmic prejudice, and the influence of AI on educational fairness, offering insights into the methods of addressing ethical concerns in educational environments.

Khazen (2024) examines problem-based learning and ethics for female tertiary learners in Israel, specifically focussing on ethical concerns pertaining to educational decision-making. The paper examines the significance of ethics in promoting productive learning settings and guaranteeing that educational procedures are fair and considerate of learners' entitlements.

Mohajan, H. K. (2020): Mohajan offers valuable knowledge on quantitative research methodologies in both natural and social sciences. The author also delves into the ethical aspects of research design and data analysis. The paper emphasises the significance of ethical practices in quantitative research to guarantee the accuracy and dependability of research findings.

Bayley, J., & Phipps, D. (2023): This paper expands on the idea of research impact literacy by examining various levels of literacy, institutional roles, and ethical considerations associated with comprehending research impact. The authors explore how ethical literacy can enhance the efficiency of research impact assessments and enhance the incorporation of research findings into policy and practice.

Alcock, P. et al. (2022): The student's companion to social policy is a thorough and all-encompassing manual on social policy, which includes in-depth analyses of ethical considerations that are pertinent to the formation and execution of policies. The book highlights the significance of ethical practices in influencing efficient and fair social policy.

Alston, M. (2020): Alston presents research methodologies specifically designed for social workers, with a particular emphasis on the significance of ethical considerations in the field of social work research. The book explores a range of ethical dilemmas that are unique to the field of social work, offering practical advice on how to conduct research in a manner that upholds the rights and addresses the needs of clients and communities.

**Table 1 Literature Review**

References	Author / Year	Objectives	Cons	Pros
[1]	Callahan & Jennings, 2012	To explore the intersection of ethics, social sciences, and policy analysis	May be theoretical; lacks practical examples	Comprehensive overview of ethics and policy analysis
[2]	Fisher & Anushko, 2008	To discuss research ethics in social science	Might not cover recent advancements	Thorough coverage of ethical issues in social research
[3]	Haimes, 2002	To investigate the contributions of social sciences to ethics studies	May lack empirical evidence	Offers theoretical and substantive considerations
[4]	Sarker & Das, 2020	To explore ethics in social research and its policy implications	Focused on a specific region (Bangladesh)	Provides insights into the impact of ethics on policy
[5]	Clark, 2002	To propose a research agenda for development ethics	May be outdated in current context	Presents a clear research agenda for development ethics
[6]	Mertens & Ginsberg, 2009	To compile a handbook on social research ethics	Could be dense and lengthy	Extensive and detailed reference for social research ethics



[7]	Benatar, 2002	To reflect on research ethics in developing countries	May not address contemporary issues	Offers important recommendations for ethical research
[8]	Flipse et al., 2013	To integrate social and ethical aspects in R&D	Potentially too focused on science and engineering	Highlights the importance of ethical integration in R&D
[9]	Reynolds, 1982	To discuss ethics in social science research	Possibly outdated	Early comprehensive treatment of ethics in social research
[10]	Alcock et al., 2022	To provide a companion guide to social policy for students	Could be too introductory	Useful resource for students new to social policy
[11]	Alston, 2020	To introduce research methods for social workers	May not cover all advanced methods	Practical guide tailored for social workers
[12]	Clark et al., 2021	To provide an updated guide on social research methods	Might be overwhelming for beginners	Comprehensive and current resource on social research methods
[13]	Lo Piano, 2020	To discuss ethical principles in AI and ML	Focused on specific cases	Offers real-world examples of ethics in AI
[14]	Kooli, 2023	To examine the ethical implications of chatbots in education and research	Focuses on a niche topic	Addresses a current and relevant issue
[15]	Mohajan, 2020	To highlight successful quantitative research methods	May not focus on ethics explicitly	Detailed exploration of quantitative methods
[16]	Bayley & Phipps, 2023	To extend the concept of research impact literacy	May be too specific	Provides new insights into research impact literacy
[17]	Osasona et al., 2024	To review the ethical implications of AI in decision-making	May be speculative	Discusses a current and rapidly evolving issue
[18]	Farayola & Olorunfemi, 2024	To review ethical decision-making models in IT governance	Could be too focused on IT	In-depth review of IT governance ethics
[19]	Khreisat et al., 2024	To systematically review AI's ethical implications in educational decision-making	Might lack general applicability	Thorough and systematic review of ethical considerations in education

[20]	Khazen, 2024	To explore problem-based learning for ethics in Israel	Limited to a specific demographic	Practical application of ethics education in Israel
------	--------------	--	-----------------------------------	---

## 7. Research Methodology

For a study titled "The Role of Ethics in Social Research: Contributions to Policy Making and Development," a comprehensive methodology could involve the following steps:

### 1. Research Design

- **Type of Study:** This study would be exploratory and descriptive, focusing on how ethical considerations in social research contribute to policy-making and development. A mixed-methods approach could be beneficial to capture both quantitative and qualitative insights.

### 2. Literature Review

- **Objective:** To understand the existing body of knowledge regarding the role of ethics in social research and its impact on policy-making and development.
- **Sources:** Review relevant academic journals, books, and articles such as those listed previously. Identify key themes, gaps, and debates in the literature.

### 3. Data Collection

#### a. Quantitative Data

- **Survey Design:** Develop a survey instrument to collect data from social researchers, policymakers, and development professionals.
- **Sampling:** Use stratified sampling to ensure representation from various sectors (e.g., academia, government, NGOs).
- **Variables:** Focus on variables such as the awareness of ethical guidelines, perceived impact of ethics on policy decisions, and experiences of ethical dilemmas in research.

#### b. Qualitative Data

- **Interviews:** Conduct semi-structured interviews with key informants, including researchers, policymakers, and ethicists.
- **Focus Groups:** Organize focus groups with practitioners from different sectors to discuss ethical challenges and their impact on policy and development.
- **Case Studies:** Examine specific instances where ethical issues in social research have influenced policy-making or development outcomes.

### 4. Data Analysis

#### a. Quantitative Analysis

- **Statistical Methods:** Use descriptive and inferential statistics to analyze survey data. Techniques such as regression analysis might reveal the relationship between ethical practices and policy impacts.

#### b. Qualitative Analysis

- **Thematic Analysis:** Analyze interview and focus group transcripts to identify common themes, patterns, and insights related to ethics and its role in policy-making.

- Case Study Analysis: Evaluate how ethical considerations in specific case studies influenced policy outcomes.

## 5. Integration of Findings

- Synthesis: Combine quantitative and qualitative findings to provide a comprehensive understanding of how ethics in social research contributes to policy-making and development.
- Discussion: Highlight key insights, address research questions, and relate findings to existing literature.

## 6. Ethical Considerations

- Informed Consent: Ensure all participants provide informed consent and understand the study's purpose and use of data.
- Confidentiality: Maintain confidentiality and anonymity of participants and sensitive information.
- Bias and Reflexivity: Address potential biases and reflect on the researcher's influence on the study.

## 7. Reporting and Dissemination

- Reporting: Prepare a detailed report of the findings, including methodology, data analysis, and conclusions.
- Dissemination: Share results through academic publications, policy briefs, and presentations at relevant conferences.

## 8. Implications and Recommendations

- Policy Recommendations: Provide actionable recommendations for integrating ethical considerations into social research practices to enhance their impact on policy-making and development.
- Future Research: Suggest areas for further research to explore unresolved questions or emerging trends.

## 8. Conclusion

Ethical considerations in social research are crucial because they impact policy and development by encouraging transparency and responsibility, bolstering the trustworthiness of findings, and safeguarding the rights and dignity of participants. Research that adheres to ethical standards is more likely to gain the confidence of policymakers and other stakeholders, and development interventions are more likely to be organised with consideration for human rights, equity, and justice. Research integrity requires attending to ethical problems and adapting paradigms to new contexts. More effective and equitable policies and development outcomes are the ultimate result of researchers adhering to ethical standards, hence research ethics should be examined and improved upon regularly.

## 9. Future scope

Addressing global and cross-cultural variances in ethical standards and adapting ethical frameworks to emerging technologies like AI and big data should be the focus of future research on "The Role of Ethics in Social Research: Contributions to Policy Making and Development". Evaluating how ethical practices affect development and policy results in the long run and increasing stakeholder participation, especially with under-represented groups, are both critical. In order to move the field forward, it is essential to provide ethical training for researchers and politicians, include ethical issues into the policy-making process, and establish standards

for conducting research online in an ethical manner. By maintaining high ethical standards in the face of changing research environments, we can guarantee that development programs and policies will be both effective and fair.

## References

- [1] Callahan, D., & Jennings, B. (Eds.). (2012). *Ethics, the social sciences, and policy analysis*. Springer Science & Business Media.
- [2] Fisher, C. B., & Anushko, A. E. (2008). Research ethics in social science. *The SAGE handbook of social research methods*, 95-109.
- [3] Haimes, E. (2002). What can the social sciences contribute to the study of ethics? Theoretical, empirical and substantive considerations. *Bioethics*, 16(2), 89-113.
- [4] Sarker, P. C., & Das, U. K. (2020). Ethics in social research and its impact on policy implication, planning and development. *Bangladesh Journal of Bioethics*, 11(1), 40-51.
- [5] Clark, D. A. (2002). Development ethics: a research agenda. *International Journal of Social Economics*, 29(11), 830-848.
- [6] Mertens, D. M., & Ginsberg, P. E. (Eds.). (2009). *The handbook of social research ethics*. SAGE Publications Inc.
- [7] Benatar, S. R. (2002). Reflections and recommendations on research ethics in developing countries. *Social science & medicine*, 54(7), 1131-1141.
- [8] Flipse, S. M., van der Sanden, M. C., & Osseweijer, P. (2013). The why and how of enabling the integration of social and ethical aspects in research and development. *Science and engineering ethics*, 19, 703-725.
- [9] Reynolds, P. D. (1982). *Ethics and social science research*. Englewood Cliffs, (1).
- [10] Alcock, P., Haux, T., McCall, V., & May, M. (Eds.). (2022). *The student's companion to social policy*. John Wiley & Sons.
- [11] Alston, M. (2020). *Research for social workers: An introduction to methods*. Routledge.
- [12] Clark, T., Foster, L., Bryman, A., & Sloan, L. (2021). *Bryman's social research methods*. Oxford university press.
- [13] Lo Piano, S. (2020). Ethical principles in machine learning and artificial intelligence: cases from the field and possible ways forward. *Humanities and Social Sciences Communications*, 7(1), 1-7.
- [14] Kooli, C. (2023). Chatbots in education and research: A critical examination of ethical implications and solutions. *Sustainability*, 15(7), 5614.
- [15] Mohajan, H. K. (2020). Quantitative research: A successful investigation in natural and social sciences. *Journal of Economic Development, Environment and People*, 9(4), 50-79.
- [16] Bayley, J., & Phipps, D. (2023). Extending the concept of research impact literacy: levels of literacy, institutional role and ethical considerations. *Emerald Open Research*, 1(3).
- [17] Osasona, F., Amoo, O. O., Atadoga, A., Abrahams, T. O., Farayola, O. A., & Ayinla, B. S. (2024). Reviewing the ethical implications of AI in decision making processes. *International Journal of Management & Entrepreneurship Research*, 6(2), 322-335.

- [18] Farayola, O. A., & Olorunfemi, O. L. (2024). Ethical decision-making in IT governance: A review of models and frameworks. *International Journal of Science and Research Archive*, 11(2), 130-138.
- [19] Khreisat, M. N., Khilani, D., Rusho, M. A., Karkkulainen, E. A., Tabuena, A. C., & Uberas, A. D. (2024). Ethical Implications Of AI Integration In Educational Decision Making: Systematic Review. *Educational Administration: Theory and Practice*, 30(5), 8521-8527.
- [20] Khazen, M. (2024). Fostering Decision-Making and Ethics: Problem-Based Learning for Female Tertiary Learners in Israel. *European Journal of Educational Research*, 13(3).