

Ph.D. in Social Work
Syllabus- 2020 onwards

**Central
University of
Kerala**



CENTRAL UNIVERSITY OF KERALA
Department of Social Work, School of Social Sciences
Established by the Parliament of India vide the Central University Act, 2009 (No.25 of 2009)
Tejaswini Hills, Periyar P.O., Kasaragod District, Kerala, INDIA - 671 320

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WWW.cukerala.ac.in

GENERAL INFORMATION FOR THE PHD STUDENTS

1. DEPARTMENT OF SOCIAL WORK

The Department of Social Work was started with a Master Programme in 2012. It was started as one among the department initiated at the university during its inception. The department hopes to become a center of excellence in developing social work professionals for promoting justice and empowerment. With a judicious mix of theory and practice, the department has geared itself to be strong in teaching, research and learning. In the year 2016 the Ph. D programme is initiated at the department. In 2018 department has established Centre for Gerontology.

1.1 VISION

- To become a center of excellence of learning, experience, research, training and services

1.2 MISSION

- To provide a conducive environment for participatory learning
- To promote a just and equitable society through research and provisioning of professional services

1.3 PROGRAMME OUTCOME

The learners completing the Ph.D Programme in Social Work of the Central University of Kerala will be able to obtain knowledge and skills in theory and practicum. The programme emphasises on learning the contemporary social work practices, research methods and statistical applications, research ethics and plagiarism. As it is a practicing method the programme gives more importance to experiential learning through action research and intervention studies. The programme helps to conduct research on social work methods and prepare modules to bring social change and transformation in the society. It makes the students an independent researcher to work on the societal problems at large. As an outcome of the programme it helps to achieve a just and equitable society and provide appropriate policy interventions.

1.4 OBJECTIVES OF THE PROGRAMME

The syllabus of Ph.D in Social Work is developed in consultation with national and international experts in the subject and with the feedback from the stakeholders and academicians from other universities across India. The objectives of the programme are

1. To provide knowledge on social work research and statistical applications to enhance the experiential learning through action research and intervention studies.

2. To acquire knowledge on the contemporary social work methods and theories.
3. To enable the students to understand the current social issues/problems, identify the specific area of research to bring positive required changes in the society.
4. To enable the students to understand the importance on the research ethics, integrity, values, principles of practice, plagiarism and publication ethics.

1.5. PROGRAMME-SPECIFIC OUTCOMES

On completion of the programme, students should be able to achieve the following programme specific outcomes:

1. Learners are enabled to apply the research concepts, design, sampling techniques, tools and approaches for further research work.
2. Design and develop research methods to study specific research problem.
3. Enabled to use the experimental research design prepare modules and provide policy implications in their research work.
4. Capable to predict and apply the appropriate statistical tools and techniques to get significant results.
5. Able to employ the Social Work Methods and demonstrate practice in the various relevant areas and settings
6. Enable to apply the knowledge of various theories and Models of Social Work education to deal with problems
7. Construct critical understanding on the use of various methods for identifying, assessing and dealing with social problems so as to bring social change and development.
8. Learners will develop an in-depth knowledge in their chosen area of research.
9. Capable to apply analytical skill to critically review the literature and policies documents to identify the gap, scope and need in the research area.
10. Have knowledge on the basics philosophy of science, ethics, research integrity, and publication ethics.
11. Have knowledge to identify the research misconduct and predatory publications.
12. Able to understand journal indexing, citation databases, research metrics and plagiarism tools.

Course structure and credit allocation:

Basic courses of PhD in Social Work includes:

Couse Code	Title	Credits
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PHDSW101	Social Work Research and Statistical Applications	4
PHDSW102	Contemporary Social Work	6
PHDSW103	Course on Specific Research **	4
PHDSW104	Research and Publication Ethics	2
Total		16

**Course code will change according to specific area of the research of student

The aim of these paper is to get a thorough understanding of the theoretical and methodological aspects of Social Work and specific area of the research. Based on these papers, the researcher can sharpen their knowledge and skills. During the course work the research scholars will be enabled towards specific area of research.

All other matters not referred specifically in these regulations shall be governed as per the regulations of the University as revised from time to time.

Scheme of Examination Semester I

Code No	Credits	Title	Duration of Exam (Hours)	Maximum Marks (End of semester Exam)	Internal assessment	Total Mrksa
PHDSW101	4	Social Work Research and Statistical Application	03	60	40	100
PHDW102	6	Contemporary Social Work	03	60	40	100
PHDW103*	4	Course on Specific Research	03	60	40	100
PHDSW104	2	Research and Publication Ethics	03	60	40	100
Total				240	160	400

* Course code PHDSW103 Final exam will be conducted through presentation and interaction with Subject experts.

Course Code: PHDSW101

SOCIAL WORK RESEARCH & STATISTICAL APPLICATIONS

COURSE OBJECTIVES:

- To acquaint learners about the research concepts and ethics of Social Work Research.
- To gain the knowledge on research methodology and approaches.
- To develop the knowledge and skills of using different methods in conducting the quantitative, qualitative and mixed methods of research.
- To understand the statistical tools and techniques in Social Work Research and its application

COURSE CONTENT:

Unit I: Social Science Research: An Introduction

Meaning, Definition, and Scope

Scientific Method: Use of Scientific Method in Social Science

Research. Approaches to Social Science Research:

Quantitative, Qualitative and Integrated Concepts,

Constructs, Variables, Hypothesis and Testing Hypothesis, Cause and Effect Relationship.

Research Problem, Identification, and

Formulation. Review of Literature, Citation

and Referring Styles. Ethical consideration in

Social Work Research

Difference between Social Research and Social Work

Research Process of Social Work Research and Format of

Research Proposal

Unit II: Research Design and Types:

Meaning and definition, Need for Research Design in Social Work Research

Types: Explanatory Research Designs, Exploratory Research Designs, Descriptive Research Designs, Experimental Research Designs, Survey Research Designs, Action Research Evaluation Research.

Unit III: Sampling and Data Collection:

Meaning, Definition, and advantages of Sampling
The universe, Population, Sample unit, Determination of Sample Size & Sampling error.

Types of Sampling: Probability sampling & Non probability sampling. Sources of data: Primary and secondary, online journals and resources, Methods and Tools of Data Collection: Interview, Guide, Observation Questionnaire, Case Study and Focus Group Discussion
Scaling techniques and its types
Need for Pre-testing and Pilot Study and its advantages

Unit IV: Data Processing & Analysis:

Data coding, Master Sheet, Editing, and Tabulation
Data types, summation, organization, and presentation of data, frequency
Testing parametric and non- parametric tests.
Data Analysis: Univariate, Bivariate and Multivariate Data Analysis, Software for Social Research Analysis
Reporting: Meaning, Principles of reporting and Format of Good Report

Unit V: Application of Statistics in Social Work Research:

Meaning, definition, Scope. Uses of Statistics in Social Work
Basic Statistical Application: Mean, Median, Mode and standard Deviation
Parametric: t- test, Z-test ANOVA, Pearson coefficient of correlation
Non- Parametric Test: One sample tests, 1-sample Wilcoxon signed rank test. Spearman Rank Correlation
Uses of SPSS in Social Work Research

COURSE OUTCOMES:

- Learners are enabled to apply the research concepts and ethics of Social Work Research in undertaking research.
- Design and develop research methods to study specific research problem.
- Apply different methods quantitative, qualitative and mixed methods in conducting research.
- Predict and apply the appropriate statistical tools and techniques to get significant results.

References:

1. Anderson, J. Durtson H.S & Pooram (1992) Thesis and Assignment writing; Wiley Eastern Ltd, New Delhi.

2. Antony Giddens & Jonathan H Turner (1987) Social Theory today, (eds) Polity press in assn with basil Blac, Cambridge.
3. Baper, L.T (1998) Doing Social Research, McGraw Hill, Singapore, Beverly Hills
4. Brymen, Alan & Duncan Cramer (1990) Qualitative Data Analysis for Social Scientists, Rutledge London
5. Champion,D.J. (2000) Basic Statistics for Social Research (Section, Chandler)
6. Denzin K Norman & Lincoln S Yuonna (2000), Hand Book of Qualitative research, sage publications, New Delhi
7. Denzin Norman & Lincoln S Yuonna, Collecting and interpreting qualitative materials, sage publications, New Delhi
8. Denzin Norman (1978) The research Act, MCGraw Hill
9. Goode & Hatt (1952) Methods in social research, MCGraw Hill
10. Gupta S.P (1992) Elementary Statistical methods, sultan chand & sons, New Delhi
11. Klaus Klippendorff (1996) content analysis, An introduction to its methodology sage
12. Kothari.C. R(2013) Research methodology, methods and technique, New Age Pub.
13. Laldas D.K (2000) Practice of Social Research Rawat, Jajpur
14. Morgan David. L (1996) Focus Group, Annual Review of Sociology.Ramachandran, P. (1993) Survey research for social work: A Primewr, TISS, Bombay
15. Richard. G..., et al, (2004) Scaling Procedure – issues and applications, sage publications New Delhi
16. Singleton, Royee JR., et al, (1986) Approaches to Social Research, Oxford University Press, New Delhi
17. Singh. K (2007) Qualitative Social research method, Sage publishers
18. Wilkinson & Bandarker (1984) Methodology and Techniques of Social Research, Himalaya, Bombay
19. Young Pauline V (1960) Scientific social surveys and research, Prentice Hall, New Jersey
20. Sampathkumar, K,Panneerselvam, A.&Santhanam,S.1984.Introduction to educational technology 2nd revised ed. Sterling Publishers, New Delhi.
21. Sharma, S.R.2003. Effective classroom teaching modern methods, tools and techniques. Mangal Deep publishers, Jaipur.
22. Vedanayagam, E.G.1989. Teaching technology for college Teachers, Sterling publishers, New York.

Course Code: PHDSW102

Contemporary Social Work

COURSE OBJECTIVES:

- Understand the Social Work Practice and its importance in the current scenario
- To enhance knowledge on the application of various theories and Models of Social Work
- To enrich the knowledge on contemporary and advanced social work
- To enhance critical understanding of the models and strategies for community organization and social action

COURSE CONTENT:

Unit I: Social Work Profession:

Social Work Profession: History and Ideologies, Values and Principles, Ethics in social work and Code of Ethics for social workers,

Social Work Education and practice, Challenges of professional Social Work

Social Work Profession in changing contexts, Micro, Meso and Macro level contexts.

Concepts related to Social Work – Charity & Philanthropy, Voluntary Action, Social

Service, Social Welfare, Social Reform, Social Security, Social Policy,

Social Justice

and Human Rights

Unit II: Theories and Models of Social Work:

Theories of Social Work: Systems theory, Social learning theory, Psychosocial development theory, Psychodynamic theory, Transpersonal theory, Rational choice theory, Marxist Theory, Feminist theory, Cognitive-behavioral theory, Ecosystem theory, Gestalt theory, Attachment theory and Social relationship.

Models of Social Work: Problem-solving, Task-centered, Crisis intervention, Solution Focused, Narrative, Cognitive-Behavioral, Psycho-social therapy, Functional, Holistic The Afrocentric and Chinese Model

Bharatyakaran of Social Work, Vivekananda, Gandhi, Ambedkar, Aurobindo, Mother Teresa and their contribution

Unit III: Emerging Trends in Social Work:

Interdependence, Reciprocity, Citizenship and social justice. Radical social work, roots, radical social work diaspora, feminist social work practice and issues.

Intervention paradigms: The four forces of social work:

Psychodynamic Paradigms,

Cognitive/Behavioral/Communication Paradigms,

Experiential/Humanistic/Existential/Paradigm,

Transpersonal Paradigms

Unit IV: Approaches to Social Work Practice and Analysis:

Guidelines for strength assessment process: Defining the problem situation, framework for assessment, the strength model - Approach with the individual, group and community.

Evidence-based Social Work Practice, Generalist Social Work Practice, Strengths-based social work practice, Empowerment based social work practice

GANT Chart, Web Chart Force field Analysis, Felt Need Analysis, Situation Analysis, Snapshot Analysis

Unit V: Social Action and Advocacy:

Concepts of Social Action and Advocacy

Understanding Community Power

Structure Principles of Social Action

Western Models of Social Action: Saul Alinsky and Paulo

Friere Methods and Strategies in Indian Models of Social

Action: Birsa Munda, M.K.Gandhi,Ambedkar,Vinoba

Bhave,JayaPrakash Narayan, Medha Patkar, Daya Bhai

COURSE OUTCOMES:

- Employ the Social Work Methods and demonstrate practice in the various relevant areas and settings
- Apply the knowledge of various theories and Models of Social Work to deal with problems
- Construct critical understanding on the use of various methods for identifying, assessing and dealing with social problems so as to bring social change and development.
- Create consciousness and empower the marginalized section to have a better standard of life and well-being.

References:

1. Alinsky, Saul (1971). Rules for Radicals. Chicago: Knopf Doubleday Publishing Group.
2. Allan, & Linda Briskman (ed.) (2003). Critical Social Work – An Introduction to Theories and Practices. Jaipur: Rawat Publications.
3. Bhanti, Raj (1996). Field Work in Social Work Perspective. New Delhi: Himanshu Publications.
4. Choudhary, D. Paul (1983). Introduction to Social Work. New Delhi: Atmaram & Sons.
5. Cox, D. & Pawar, M. (2006). International Social Work – Issues, Strategies and Programs. New Delhi: Vistar Publications.
6. Dasgupta, S. (1967). Towards a philosophy of Social Work in India. New Delhi: Popular Book Services.
7. Desai, M. (2002). Ideologies and Social Work: Historical and Contemporary Analyses. Jaipur: Rawat Publications.
8. Divekar, V.D. (1992). Social Reform Movements in India: A Historical Perspective, New Delhi, South Asian Books.
10. Dinitto, Diana, M. (2008). Social Work Issues and Opportunities in a challenging profession (3rd edition). Chicago: Lyceum Books.
11. Dominelli, L. (2004). Social Work: Theory and Practice for a Changing Profession. London: Polity Press.
12. Fink, Arthur et al. (1985). The fields of Social Work. Beverly Hills, California: Sage Publications.
13. Freire, P. (2000). Pedagogy of Oppressed. New York: Continuum.
14. Gangrade, K.D. (1969) Community Organization in India : Popular Prakashan, Bombay
15. Gilbert, Neil. et. al. (2002). An Introduction to Social Work Practice. New Jersey: Prentice Hall.
16. Gore, M. S. (1965). Social Work and Social Work Education, P. S. Jayasinghe, Bombay: Asia Publication House.
17. Gore, M. S. (1993). The Social Context of Ideology, Ambedkar's Social and Political Thought. New Delhi: Sage Publication.

18. Government of India (1987). Encyclopedia of Social Work. New Delhi: Publication Division (Social Welfare Ministry).
19. Heiman, B. (1964). Facets on Indian Thought, London, George Allen and Unwin.
20. Hepworth, Dean H (2010). Direct Social Work Practice - theory and skills (8th edition).New York: Brooks/Cole.
21. Joshi, S. C. (2004). The Handbook of Social Work. New Delhi: Akansha Publishing House.
22. Mclunis-Dittrich, Kathlee (1994). Integrating Social Welfare Policy and Social Work Practice. New York: Brooks/Cole.
23. Palackappilly, George & Felix T.D. (1998). Religion & Economics, Gandhism,Buddhism. AIDBES, Stroup SPCI House.
24. Patel, Chhaya. (Ed.) (1999). Religion – Philosophy of Social Work in India. New Delhi.
25. Richmond, M. E. (1917). Social diagnosis. New York: Russell Sage Foundation.
26. Ross, Murray G.(1954) Community Organization Theory, Principles and Practice, New York: Harper and Row Publishers
27. Roy, Bailey and Phil, Lee (1982). Theory and Practice in Social Work. London: Oxford Pub. Ltd.
28. Shah, G. (2004). Social Movements in India. New Delhi, Sage
29. Siddiqui, H.Y. (1997) Working with Community, New Delhi: Hira Publication
30. Siddiqui, H.Y. (Ed.) 1984 Social Action, New Delhi: Harnam Publication.
31. Singh, R.R. (1985). Field Work in Social Work Education, a Perspective for Human Service Profession. New Delhi: Concept Publishing Company.
32. Singh, S. (2016). Encyclopedia of Social Work in India,(edit. Singh, S.), Vol.1, Lucknow, New
33. Royal Book Publisher.
34. Siporin, M. (1975).Introduction to Social Work Practice. New York: Macmillan Publishing Inc.
35. Thomas, G. (2010). Origin and Development of Social Work in India,” (edit. Thomas, G.),New Delhi, Indira Gandhi National Open University

36. Thomas, G. (2016). Social work-A Value based profession' Rawat Publications, Jaipur,
37. Wadia, A. R. (Ed.) (1961). History and Philosophy of Social Work in India. Bombay : II Allied Publisher Private Ltd.
38. Woodrofe, K. (1962). From Charity to Social Work. London: Routledge and Kegan Paul.
39. Zastrow, C (1995). The Practice of Social Work (5th ed.). California: Brooks/Cole Publishing Company.

Course Code: PHDSW103

COURSE ON SPECIFIC AREA OF RESEARCH

The course involves the development of theoretical understanding in a specialized area of interest. This course will be prepared, monitored and conducted by the assigned research supervisor/Guide according to the chosen area of interest of the research scholar. The research scholars will be placed in chosen area to practice social work research and develop a firsthand understanding of the context and learn research skills through practice.

COURSE OBJECTIVES

- To enhance the knowledge base of the research scholars in their chosen area of interest.
- To equip the scholars with skills in review of literature and policies relevant to the research area.
- To enhance their skills in application of qualitative, quantitative and participatory research methods in the area of interest.
- To acquire first hand field exposure on specific area of research

Unit I: Theoretical Frameworks

Concepts Related to the Area of Study
Theoretical Frameworks

Unit II: Policies and Programmes

Appraisal of policies related to the topic of study.
Review of Programme
Social work practice in the related special area at Multilevel.

Unit III: Formulation of Research Design

Review of literature related to the topic

Identification of Substantive, Theoretical, Conceptual and Methodological Issues.
Draft Research Proposal

Unit IV: Application of Research Methods

Understanding Social Context
Qualitative Methods: Participant Observation/ Interviews/FGDs
Quantitative Methods: Field Survey/ Content Analysis/Analysis of Secondary Data
Participatory Methods: Time Related, Space Related and Relational Methods.

Unit V:

Field work related to area of the study (Minimum of 15 days)

COURSE OUTCOMES:

- Learners will have in-depth knowledge in their chosen area of research.
- Analytical skill to critically review the literature and policies documents to identify the gap, scope and need in the research area.
- Skills to apply qualitative, quantitative and participatory research methods in the area of interest.
- Demonstrable knowledge and First hand field exposure on specific area of research.

Reference:

1. ASSWI (1978) Report of the Seminar on Fieldwork in Social Work Education. Waltair: Association of Schools of Social Work in India Beckett,
2. Chris (2003) *Child Protection: An Introduction*, Sage Publications
3. Bracht, N. (1978) *Social Work in Health Care: A Guide to Professional Practice*, the Haworth Press
4. Brandell, J.R. (1997) *Theory and Practice of Clinical Social Work*, Free Press.
5. Desai, A. R.(1969) *Rural Sociology in India*, Bombay: Popular Prakashan
6. Furer-Heimendorf, Christoph von (1982) *Tribes of India: The Struggle for Survival*, Delhi: Oxford University Press
7. Hall, Anthony and Midgley, James (2004) *Social Policy for Development*, New Delhi: Sage Publications
8. James A.L. and Wilson, Kate, and Parry, Martin L. (Eds.) (1988)*Social Work in Family Proceedings: A Practice Guide*, Routledge

9. Lawani (2009). *Social Work Education and Field Instructions*. Vedams eBooks (P) Ltd, New Delhi, India.
10. Mane, P. and Gandevia, K.Y. (Eds.) 1991 *Mental Health Concerns in India: Issues and Concerns*,
11. Bombay: Tata Institute of Social Sciences
12. Manis, Francis (1921) Education for Social Work: Fieldwork in Developing Nations. *International Social Work*, 14(2),17-20
13. Pfeffer, George and Behera, Deepak Kumar (Eds.) (1994) *Contemporary Society: Tribal Studies*, New Delhi: Concept Publishing Company
14. Rose S.R., Fatout M.F. (2003) *Social Work Practice with Children and Adolescent*, Boston: Allyn & Bacon
15. Sekar, K. (Ed.) *Handbook of Psychiatric Social Work*, Bangalore: National Institute of Mental Health and Neuro Sciences
16. Seth, M. (2001) *Women and Development: The Indian Experience*. New Delhi: Sage Publications
17. Singh, R.R.(Ed.) (1985) *Fieldwork in Social Work Education A Perspective for Human Service Professions*. New Delhi: Concept Publishing Company
18. Srinivas, M.N. (1979) *The Fieldworker and the Field*. New Delhi: Oxford University Press
19. UGC (1978) *Review of Social Work Education in India: Retrospect and Prospect*. New Delhi: University Grants Commission
20. Villaruel F.A., Perkins D.F. & Border L.M., etal (Eds) *Community Youth Development – Programmes, Policies and Practice*, New Delhi: Sage Publications
21. Wolman, B.W. and Stricker, George (Ed.) 1983 *Handbook of Family and Marital Therapy*, Plenum Press

Course Code- PHDSW104

RESEARCH AND PUBLICATION ETHICS

COURSE OBJECTIVES:

- To provide the basics philosophy of science and ethics, research integrity, publication ethics.
- To give hands on experiences to access open access and online resources available
- To identify research misconduct and predatory publications.
- To learn about indexing and citation databases, research metrics (citations, h-index, impact factor, etc.) and plagiarism tools.

UNIT I: Philosophy and Ethics

1. Introduction to Philosophy: definition, nature and scope, concept, branches
2. Ethics: Definition, moral philosophy, nature of moral judgments and reactions.

UNIT 2: Scientific Conduct

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

UNIT 3: Publication Ethics

1. Publication ethics: definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: The Committee on Publication Ethics (COPE), World Association of Medical Editors (WAME) etc.
3. Conflicts of interest
4. Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

UNIT 4: Open Access Publishing Open access publications and initiatives

1. SHERPA/RoMEO online resource to check publisher copyright & self- archiving policies
2. Software tool to identify predatory publications developed by Savitribai Phule Pune University (SPPU): UGC-CARE list of journals
3. Journal finder/journal suggestion tools viz. Journal Author Name Editor (JANE), Elsevier Journal Finder, Springer Journal Suggester, etc.

UNIT 5: Publication Misconduct, Databases and research metrics

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad
4. Use of reference management software like Mendeley, Zotero etc. and anti-plagiarism software like Turnitin, Urkund
5. Indexing databases
6. Citation databases: Web of Science, Scopus etc.
7. Impact factor of journal as per Journal Citation Report, Source- normalized Impact per Paper (SNIP), The Impact per Publication (IPP), SCImago Journal Rank (SJR), CiteScore
8. Metrics: h-index, g-index, i-10 index, altmetrics

COURSE OUTCOMES:

- Have knowledge on the basics philosophy of science and ethics, research integrity, publication ethics.
- Trained in accessing the available open access and online resources
- Have knowledge to identify the research misconduct and predatory publications.
- Know indexing and citation databases, research metrics (citations, h- index, impact factor, etc.) and plagiarism tools.

References:

1. Bird, A. (2006). Philosophy of Science. Routledge.
2. MacIntyre, Alasdair (1967). A short History of Ethics. London
3. P. Chaddah, (2018). Ethics in Competitive Research: Do not get scooped; do not get plagiarized. Self Published
4. National Academy of Science, National academy of Engineering and Institute of Medicine. (2009). On being a scientist: A guide to responsible conduct in research: Third edition, National Academies Press.
5. Resnik, D.B.(2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10. Retrieved from https://online225.psych.wisc.edu/wp-content/uploads/225-Master/225-UnitPages/Unit-10/Resnik_NIH_2015.pdf
6. Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. Retrieved from https://www.nature.com/news/polopoly_fs/1.11385!/menu/main/topColumns/topLeftColumn/pdf/489179a.pdf

7. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), Retrieved from <https://www.insaindia.res.in/pdf/>