RESEARCH AND PUBLICATION - ETHICS AND METHODOLOGY (FOU09)

Duration 45 hours

COMPULSORY FOUNDATION COURSE for POST GRADUATE STUDENTS

About the Course

The course is designed to prepare postgraduate students before they start their dissertation works. Many of the students lack clarity during their dissertation/project works. This short course should help them to gain basic understandings on the ethics on research and publication. Also, students should gather some basic tools before they endeavor to active research. This course should also motivate them to publish their results and also should attract them to pursue a career in research.

The course will be provided online as MOOC with doubt clearing online sessions and hands on training sessions on research methodology tools. Examinations will be conducted online through lms.christci.in

Prerequisites

Graduation in any discipline

Learning Outcomes

After successfully completing the course, the postgraduate students will be able to

a. Identify the ethical issues in research and types of ethical issues
b. Identify and be aware of ethics of publishing the research works
c. Plan a research work scientifically
d. Document and present the research works in scientific way
e. Protect the ideas and identity suitable journals for publishing the research works

SYLLABUS (45 hours)

UNIT 1. RESEARCH ETHICS (5 Hours)

Ethics: Definition, moral philosophy, nature of moral judgements and reactions. Concepts Related with Research Originality, Five principles of research ethics, Subject specific ethical issues on research.

UNIT 2. PUBLICATION ETHICS (5 Hours)

Authors and Contributors, General Responsibilities of Authors (Originality, Good Record-keeping and Maintenance of Data, Plagiarism, Honesty, Objectivity and Integrity, Conflict of Interest, Respect for Intellectual Property, Copyright Agreement, Creative Commons, Consent for Reuse of Published Material)

Guidelines of COPE & WAME. Journal finder/journal suggestion tools viz. JANE (Journal/Author Name estimator), Elsevier Journal Finder, Springer Journal Suggester, etc.

UNIT 3. RESEARCH AND RESEARCH DESIGN (8 Hours)

Meaning, significance of Research, Identifying gap areas by literature review. Selection and formulation of Research problem. Inductive, Deductive and Development of models, Formulation of Research design, Types of Research Design, Conclusive- Descriptive – Exploratory-Casual and Experimental.

UNIT 4. RESEARCH DOCUMENTATION (7 Hours)

Types of reports- Technical report and Thesis, Scientific writing (Paper, dissertation) and presentation (oral presentation and visual displays). Content of research papers. Style of referencing (API and MLA). Reference management tools: Mendeley and Zotero

UNIT 5. DOCUMENTATION, COMPUTATION AND PRESENTATION TOOLS (10 Hours)

Microsoft Word Basics, Work with Text, Format Documents, Work with Text Objects, References, Illustrations, Specialized Documents, Table of contents. Microsoft Excel-Enter and edit data, Modify a worksheet and workbook. Learn to use functions and formulas. Create and edit charts and graphics. Creating a Microsoft PowerPoint Presentation**,** selecting a Slide Layout, Adding Text, Adding Text from a Text File or Word Outline, Editing Text, Formatting Text, Formatting Text as WordArt, Creating Bulleted and Numbered Lists, Adding Slides to a Presentations, Arranging Slides and saving as PDF

UNIT 6. PROTECTING YOUR RESEARCH (10 Hours)

Intellectual property rights, Patent laws, copyright and royalty (Basics only). Reproduction of published documents: citation pattern. Journal ranking Citation Index and Impact factor. Various Research Databases (Scopus, Web of Science). Plagiarism check by Grammarly, PlagiarismX and Ouriginal.

References:

(Unit 2)

Ethics of Publication (Subhash Chandra Lakhotia and Srinivasan Chandrasekaran), Ethics in SCIENCE EDUCATION, RESEARCH AND GOVERNANCE, Edited by K Muralidhar, Amit Ghosh, AK Singhvi, Indian National Science Academy New Delhi, 2019

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

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Committee on Publication Ethics (COPE): Guidelines on good publication practice

(https://publicationethicsorg/resources/guidelines).

Recommendations on Publication Ethics Policies for Medical Journals
https://wame.org/recommendations-on-publication-ethics-policies-for-medical-journals