

(MT-610) RESEARCH METHODOLOGY

Research Process: Objectives of Research, Identification and selection of a research topic/problem, Methods of problem identification and refinement, understanding and identifying concept, developing research questions/hypothesis, Research approaches and methodologies, developing research design and selecting plausible methods, types of research, various stages of research, critical review of literature (accessing relevant literature, reading critically), ensuring reliability and validity of the research design, data collection selecting plausible methods, ensuring reliability and validity of the research design, data collection tools and process, data analysis and interpretation.

Research Writing: ways to write about the reviewed literature, Publishing writing research proposals and scientific papers, writing and preparing papers for journals and conferences, writing thesis/dissertation, styles of writing, Typing the Report/thesis, presenting the research in a conference, thesis/dissertation defense.

Plagiarism policy: Understanding plagiarism policy and avoiding plagiarism in professional and scientific writings, types of plagiarism.

Ethical Concerns & Issues: Research Understanding issues related to authorship, ownership of data, intellectual property, copyright; patents; maintaining confidentiality, anonymity, safety and well-being of research subjects, sites, resources, data transferring, the ownership of data and research findings.