

CY-511 RESEARCH METHODOLOGY

Research Process and Methods: Problem identification and refinement, understanding and identifying concept, construct and variables, developing research questions/hypothesis, critical review of literature (accessing relevant literature, reading critically, and ways to write about the reviewed literature), research approaches and methodologies, developing research design and selecting plausible methods, ensuring reliability and validity of the research design, data collection tools and process, data analysis and interpretation.

Research Writing and Publishing: Writing research proposals and scientific papers, writing and preparing papers for journals and conferences, writing thesis / dissertation, styles of writing, Vancouver Group style guidelines, understanding plagiarism policy and avoiding plagiarism in professional and scientific writings, presenting the research in a conference, thesis / dissertation defense.

Ethical Concerns & Issues in 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, and data; transferring the ownership of data and research findings.

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