

Syllabus for Research methodology

- Definition, Types & Methods of Research in Health
- Literature search strategy
- Using reference manager/ endnote
- Research/study design options
- Survey Techniques & Data collection methods
- Design of survey and data collection instruments – relevance to study objectives; development and types of questions; length order, layout and coding of survey instrument
- Instrument adaptation and validation
- Introduction to data quality assessment
- Data triangulation
- Double method of data collection and management
- Data base manipulations
- Research on Diagnostic Tests
- Critical appraisal of Journal Article and Writing a Research Paper
- Sample Size Consideration in Medical Research
- Facility based Vs population based health statistics
- Statistical Methods in Research

Qualitative research methods

- Approaches, main qualitative methods (unstructured observation, structured observation, unstructured and semi-structured interviewing, systematic interviewing, multiple informant interviewing (FGD, PRA etc)
- Representativeness, reliability and validity

- Qualitative methods for community health need assessment - Community health needs assessment in the context of population-based methods,
- Management and analysis of qualitative data

Ethics in Research

- Nuremberg code, Helsinki declaration, ICMR guidelines, accepted ethical principles concerning research on human subjects, informed consent, confidentiality, obtaining communal consent for field trials
- Online research ethics certification course
- Report writing, Protocol Development
- Citation ,referencing and bibliography
- Data driven management / program implementation