

# Era University

## Department of Medical Education & Technology

### Thesis Protocol Writing Workshop

<b>Session</b>
<b>Basic Concepts in research - I:</b> Logic-Reasoning in Science; Uncertainty-Probability; Variability- SD; Types of Research;
<b>Basic Concepts in research - II:</b> Measurement scales; Constants-variables; Error-Bias, Validity- Consistency-Reliability.
<b>Literature Search:</b> Problem statement; rational, novelty & application;
<b>Research Question &amp; Hypothesis:</b> Primary and Secondary Objectives; Inclusion- Exclusion criteria.
<b>Study Designs:</b> Lab & Animal experimentation settings; Clinical trials; Population based observational studies.
<b>Sampling and Sample Size:</b> Advantages of Sampling Techniques, Probability and Non-Probability Sampling Methods; Calculation of Sample Size.
<b>Ethics in Research:</b>
<b>Reference writing:</b>
<b>Designing and Standardizing Research Tools:</b> Interview & Questionnaire;
<b>Selecting Test of Significance:</b> Testing of Hypothesis; Type-I & Type-II Errors; Parametric and non-Parametric tests.
<b>Protocol Writing Structured Format:</b>
<b>Protocol writing demonstration:</b> Open hour