

## CORE 33324- Research Methodology

<b>Status</b>	<b>Core</b>
<b>No of Hours</b>	60 hours
<b>No of Credits</b>	4
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Demonstrate an understanding of the concepts of descriptive statistics</li> <li>• Demonstrate an understanding of the concepts of inferential statistics</li> <li>• Collect qualitative data using interviews and focus groups discussions</li> <li>• Demonstrate understanding of when and how to use qualitative methods to investigate disability related issues 13</li> <li>• Demonstrate an understanding of the different stages of the research process</li> <li>• Demonstrate a basic understanding of developing a research proposal</li> </ul>
<b>Methods of Teaching and Learning</b>	Lectures Small Group Discussions & Practical sessions
<b>Module content</b>	<p><b>Unit 1: Introduction</b></p> <ul style="list-style-type: none"> <li>• Introduction to Sri Lankan health system</li> <li>• Natural history of disease</li> </ul> <p><b>Unit 2: Basic quantitative methods</b></p> <ul style="list-style-type: none"> <li>• Scales of measurements</li> <li>• Descriptive statistics (Measures of central tendency, Measures of dispersion, graphical presentation of data)</li> <li>• Probability</li> <li>• Normal distribution</li> <li>• Inferential Statistics-Significance tests (parametric)</li> <li>• Introduction to non-parametric tests</li> <li>• Measurement Errors</li> <li>• Design and use of questionnaires</li> </ul> <p><b>Unit 3: Basic Epidemiology</b></p> <ul style="list-style-type: none"> <li>• Introduction to epidemiology</li> <li>• Descriptive epidemiology</li> <li>• Measures of disease</li> <li>• Measures of risk</li> <li>• Study designs</li> <li>• Sampling methods</li> </ul> <p><b>Unit 4: Basic qualitative methods</b></p> <ul style="list-style-type: none"> <li>• Introduction to qualitative research methods: background and characteristics</li> <li>• Qualitative research approaches and application in disability related research</li> <li>• Qualitative data collection techniques: Interviews and focus group discussions</li> <li>• Analysis and interpretation in qualitative research; common strategies and ensuring trustworthiness</li> <li>• Representing, writing and presenting qualitative results</li> <li>• An overview of mixed methods research design</li> </ul> <p><b>Unit 5: Understanding of proposal writing</b></p>

	<ul style="list-style-type: none"><li>• Introduction to Research Process</li><li>• Identification and analysis of research problem</li><li>• Literature review</li><li>• Formulation of objectives</li><li>• Methodology a research study</li><li>• Sampling techniques</li><li>• Ethics in Research</li><li>• Data collection tools</li><li>• Data Analysis</li></ul>
<b>Assessment</b>	Written examination (100%) :MCQ and SEQ