Subject Code	RS517				
Subject Title	Research Methods & Data Analysis				
Subject The					
Credit Value	3				
Level	5				
Pre-requisite / Co-requisite/ Exclusion	Nil Recommended: Basic knowledge of research methods equivalent to the final year of a recognized undergraduate programme of a health care discipline.				
Objectives	The subject is designed to provide students with an in-depth knowledge of research methodologies and data analysis. It equips students with theoretical knowledge and analytical skills required to design or critique research studies.				
Intended Learning Outcomes	<ul> <li>Upon completion of the subject, students will be able to:</li> <li>a. Develop a researchable question.</li> <li>b. Describe the various study designs and their pros and cons.</li> <li>c. Explain the principles involved in measurement and instrumentation.</li> <li>d. Develop a conceptual model in outcomes research.</li> <li>e. Select appropriate statistical methods to analyze data and interpret research findings, including the use of software packages (e.g. SPSS).</li> <li>f. Critically evaluate scientific research publications.</li> </ul>				
Subject Synopsis/ Indicative Syllabus	<ol> <li>Developing research         <ul> <li>developing a researchable question, study designs, conceptual modeling, research proposal writing</li> <li>Measurement issues             <ul></ul></li></ul></li></ol>				

Teaching/Learning Methodology	The online lectures and the methodologies and statistic						ated to	research	
Assessment Methods in Alignment with	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						
Intended Learning Outcomes			а	b	c	d	e	f	
	1. Online quizzes	20			$\checkmark$	$\checkmark$	$\checkmark$		
	2. Written test	50			$\checkmark$		$\checkmark$		
	3. Presentation	30				$\checkmark$	$\checkmark$	$\checkmark$	
	Total	100 %			-1	-			
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:								
	Online quizzes: This assessment aims to evaluate the student's understanding of the material covered each week.								
	Written test: This assessment aims to evaluate the student's understanding of all the major concepts learned in the semester.								
	Presentation: The students are required to integrate what is learned throughout the semester and present a research proposal.								
Student Study Effort Required	Class contact:						(39 Hrs.)		
	• Tutorial						27 Hrs.		
	Online lectures						12 Hrs.		
	Other student study effort:						(78 Hrs.)		
	• Self-study						48 Hrs.		
	Course works (presentation)						(30 Hrs.)		
	Total student study effort						117 Hrs.		
Reading List and References	Required textbook: Portney LG (2020) Founda Practice. 4th ed. Philadelph <u>Reference texts:</u> Barbour RS. (2013) Intro London: Sage Publications Line H, Berg BL. (2017) London: Pearson. Huizingh E. (2007) Applie	nia: F. A. Davi oducing Quali ) Qualitative	is. itative	Researc ch Met	h: a St	tudent's or the S	Guide. Social S	2 <sup>nd</sup> ed.	