

Subject Description Form

Subject Code	SO4039
Subject Title	Project
Credit Value	4
Level	4
Pre-requisite	Students are required to have attempted Applied Statistics and Research Methodology (SO3009)
Objectives	<p>In Semester 7, to assign students to different groups and supervisors and arrange for small group meetings between students and supervisors; to conduct a literature search and review and to plan/write up/submit a project protocol. Students will therefore work together to develop the ability to apply problem-solving skills (e.g. identify research gaps, propose a study to fill one or more gaps, etc.) and foster skills, habits, and attributes of lifelong learners.</p> <p>In Semesters 8 and 9, to allow students to continue to apply problem-solving skills and prepare/submit a literature review on the selected project topic, discuss and complete a proposed research project, and to conduct and conclude a research project.</p>
Intended Learning Outcomes	<p>Upon completion of Semester 7, students will be able to:</p> <ol style="list-style-type: none"> a. draw relevant information from the literature to identify gap(s) of knowledge with regard to a research area b. demonstrate problem-solving skills and devise a preliminary protocol to address the research question <p>Upon completion of Semester 8, students will be able to apply problem-solving skills to:</p> <ol style="list-style-type: none"> c. draw relevant information from the literature with regard to the research topic d. pursue a research topic conscientiously and rationally <p>Upon completion of Semester 9, students will be able to apply problem-solving and lifelong learning skills to:</p> <ol style="list-style-type: none"> e. interpret, present and discuss information and results logically and clearly f. orally defend own work clearly and logically, showing deep understanding of the researched topic and bridge theories and practice
Subject Synopsis/ Indicative Syllabus	There is no formal syllabus for this subject. A detailed description of the operation of Project will be provided to students and project supervisors.
Teaching/Learning Methodology	<p>In Semester 7:</p> <p>Lecture: Introduce the schedule and requirements for the Project</p> <p>Tutorial: Meeting with perspective supervisors and discuss topics of interests and writing up of a literature review (LR)</p> <p>In Semester 8:</p>

	<p>Project supervision – monitoring progress and learning by regular small group meetings between students and supervisors</p> <p>In Semester 9:</p> <p>Project supervision by supervisors</p> <ul style="list-style-type: none"> supervisors to give feedback to students on their LR and to recommend further action where appropriate Monitoring progress and learning by regular small group meetings with students. Discussion of data and method of analysis and production of a final project report 																					
<p>Assessment Methods in Alignment with Intended Learning Outcomes</p>	<table border="1" data-bbox="496 629 1445 972"> <thead> <tr> <th rowspan="2">Specific assessment methods/tasks</th> <th rowspan="2">% weighting</th> <th colspan="3">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th>a - b</th> <th>c - d</th> <th>e - f</th> </tr> </thead> <tbody> <tr> <td>Coursework</td> <td>100</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Total</td> <td>100</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Students must pass all elements of coursework (LR, final report, and viva) to pass the subject</p> <p><i>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</i></p> <p>Assessment will be based on LR, protocol, and a research study investigating optometry-related topic/problem.</p> <p>Groupwork will help students to develop teamwork and leadership abilities, giving them opportunity to learn to work as a team.</p> <p>Coursework, involving LR, report, and viva aim for higher-order learning outcomes (e.g. critical thinking, analysis, synthesis, etc.) and encourage active learning, problem-solving, as well as application of theory to practice.</p>				Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)			a - b	c - d	e - f	Coursework	100	✓	✓	✓	Total	100			
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		a - b	c - d	e - f																		
Coursework	100	✓	✓	✓																		
Total	100																					
<p>Student Study Effort Required</p>	Class contact:																					
	<ul style="list-style-type: none"> Project (in Semesters 7, 8 and 9) 		15 + 45 + 100 Hrs.																			
	Total student study effort:		160 Hrs.																			
<p>Reading List and References</p>	<p><u>Prescribed Reading</u></p> <ul style="list-style-type: none"> Polgar S and Thomas SA. Introduction to Research in the Health Sciences. 6th ed. New York: Churchill Livingstone, 2013. <p><u>Recommended Reading</u></p> <ul style="list-style-type: none"> Montgomery, D. C. Design and Analysis of Experiments. 9th ed. New York: John Wiley, 2017 																					

	<ul style="list-style-type: none">• Motulsky H. Intuitive Biostatistics: a nonmathematical guide to statistical thinking. 3rd ed. New York, Oxford University Press, 2014• Portnoy, L.G. and Watkins, M. P. Foundations of Clinical Research: Applications to Practice. 3rd ed. Upper Saddle River, NJ: Prentice Hall Health, 2009
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