

## Subject Description Form

<b>Subject Code</b>	SO4005																																																		
<b>Subject Title</b>	Clinical Binocular Vision																																																		
<b>Credit Value</b>	3																																																		
<b>Level</b>	4																																																		
<b>Pre-requisite</b>	Students are required to have attempted Visual Science 3 (SO3004)																																																		
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. To provide knowledge and understanding of the development of sensory and motor anomalies in binocular vision</li> <li>2. To allow the student to effectively analyze, evaluate and manage binocular vision anomalies</li> </ol>																																																		
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a. identify different types of binocular vision anomalies</li> <li>b. discuss the sensory adaptations in binocular vision anomalies</li> <li>c. investigate the presence of any sensory and motor adaptations</li> <li>d. describe the different methods of vision therapy</li> <li>e. apply vision therapy for a particular binocular vision anomaly</li> <li>f. evaluate the prognosis for a particular binocular vision anomaly</li> <li>g. apply and critique different strategies for managing binocular vision anomalies</li> </ol>																																																		
<b>Subject Synopsis/ Indicative Syllabus</b>	<p>Vision therapy concepts  Heterophoria and its management  Accommodation and convergence anomalies  Sensory adaptations  Amblyopia  Comitant strabismus  Incomitant strabismus  Management of strabismus  Nystagmus</p>																																																		
<b>Teaching/Learning Methodology</b>	<p><b>Lecture</b>  <b>Tutorial</b></p>																																																		
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Specific assessment methods/tasks</th> <th rowspan="2" style="width: 10%;">% weighting</th> <th colspan="7">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th style="width: 5%;">a</th> <th style="width: 5%;">b</th> <th style="width: 5%;">c</th> <th style="width: 5%;">d</th> <th style="width: 5%;">e</th> <th style="width: 5%;">f</th> <th style="width: 5%;">g</th> </tr> </thead> <tbody> <tr> <td>1. Coursework (tests)</td> <td style="text-align: center;">50</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>2. Examination</td> <td style="text-align: center;">50</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td><b>Total</b></td> <td style="text-align: center;"><b>100</b></td> <td colspan="7"></td> </tr> </tbody> </table>								Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)							a	b	c	d	e	f	g	1. Coursework (tests)	50	✓	✓	✓	✓	✓	✓	✓	2. Examination	50	✓	✓	✓	✓	✓	✓	✓	<b>Total</b>	<b>100</b>							
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2. Examination	50	✓	✓	✓	✓	✓	✓	✓																																											
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<b>Student Study Effort Required</b>	Class contact:	
	▪ Lecture	26 Hrs.
	▪ Laboratory	12 Hrs.
	▪ Tutorial / Seminar	8 Hrs.
	Other student study effort:	
	▪ Self-study	74 Hrs.
	<b>Total student study effort:</b>	<b>120 Hrs.</b>
<b>Reading List and References</b>	<p><u>Prescribed Reading</u>  Scheiman M, Wick B. Clinical management of binocular vision: heterophoric, accommodative and eye movement disorders. 4th ed., Philadelphia, PA: Wolters Kluwer Health/Lippincott Williams &amp; Wilkins, 2014.</p> <p>Evans BJW. Pickwell's binocular vision anomalies: Investigation and treatment. 5<sup>th</sup> ed., Butterworth-Heinemann, 2007.</p> <p>Griffin JR, Grisham JD. Binocular anomalies: diagnosis and vision therapy. 4<sup>th</sup> ed., Amsterdam; Boston: Butterworth-Heinemann, 2002.</p> <p><u>Recommended Reading</u>  Stidwill D, Fletcher R. Normal binocular vision: theory, investigation and practical aspects. Wiley-Blackwell, 2011 [online].</p> <p>Caloroso EE, Rouse MW. Clinical management of strabismus, Butterworth-Heinemann, 1993.</p>	