

## Subject Description Form

<b>Subject Code</b>	SO4021
<b>Subject Title</b>	Optometry Specialisms
<b>Credit Value</b>	3
<b>Level</b>	4
<b>Pre-requisite</b>	NIL
<b>Objectives</b>	To introduce specific knowledge and optometric skills for providing specialized vision care services for three special populations - paediatric, geriatric and low vision.
<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. describe the development and the effects of age on the visual system and visual function</li> <li>b. identify the normal visual development in young children and to differentiate from the premature and special need population</li> <li>c. recognize the problems faced by the geriatric and low vision clients and the importance of being a caring and listening practitioner</li> <li>d. differentiate the pathological and the non-pathological visual or ocular changes in geriatric population and formulate management plans for the common ocular problems in this population</li> <li>e. demonstrate and apply specific knowledge in the investigation, evaluation and management of paediatric, geriatric and low vision patients</li> <li>f. identify and differentiate clients who require basic low vision services, advanced low vision services and referral services</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	<p><u>Paediatric Optometry (10 hours)</u>            Visual and refractive development and norms            Clinical examination of children            Management of visual problems in children and children with special needs</p> <p><u>Geriatric Optometry (12 hours)</u>            Changes in anatomical and physiological structures, and visual functions with age            Clinical examination of ageing patients            Common systemic diseases and ocular manifestations            Optometric management for patients with cataract</p> <p><u>Low Vision (12 hours)</u>            Definition of visual impairment            Clinical examination of low vision patients            Optical aspects and prescription techniques of low vision aids            Management of low vision patients            Adaptive technology for low vision patients            Low vision services in Hong Kong</p>

<b>Teaching/Learning Methodology</b>	<p><b>Lecture:</b> Different lectures on various topics on paediatric, geriatric and low vision eye cares will be covered.</p> <p><b>Laboratory:</b> 2 hours of laboratories/practical work on paediatric optometry and 10 hours on low vision for hands-on experience on special assessment tools and devices.</p> <p><b>E-learning:</b> Interactive learning materials for self-study and revision will be provided.</p>																																																													
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	<table border="1"> <thead> <tr> <th rowspan="2">Specific assessment methods/tasks</th> <th rowspan="2">% weighting</th> <th colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>1. Coursework (test)</td> <td>20</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>2. Coursework (Practical)</td> <td>15</td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>3. Coursework (Lab quiz)</td> <td>5</td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>4. Examination</td> <td>60</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td><b>Total</b></td> <td><b>100</b></td> <td colspan="6"></td> </tr> </tbody> </table> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <ul style="list-style-type: none"> <li>- One written test will be arranged during the course to examine students' knowledge on various topics individually.</li> <li>- Laboratory reports on paediatric and low vision will be required to demonstrate their knowledge on different assessment tools and prescribing different low vision devices.</li> <li>- Five short lab quizzes will be arranged to examine students' knowledge through participating in different low vision labs.</li> <li>- Final examination will be arranged to examine students' knowledge on all the topics covered.</li> </ul>								Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d	e	f	1. Coursework (test)	20	✓	✓	✓	✓			2. Coursework (Practical)	15	✓		✓		✓		3. Coursework (Lab quiz)	5	✓		✓		✓		4. Examination	60	✓	✓		✓	✓	✓	<b>Total</b>	<b>100</b>						
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<b>Student Study Effort Required</b>	<p>Class contact:</p> <ul style="list-style-type: none"> <li>▪ Lecture</li> <li>▪ Laboratory</li> </ul> <p>Other student study effort:</p> <ul style="list-style-type: none"> <li>▪ e-learning</li> <li>▪ Field Study</li> <li>▪ Self-study</li> </ul> <p><b>Total student study effort:</b></p>							<p>30 Hrs.</p> <p>12 Hrs.</p> <p>10 Hrs.</p> <p>4 Hrs.</p> <p>50 Hrs.</p> <p><b>106 Hrs.</b></p>																																																						

**Reading List and  
References**

Prescribed Reading

- Aston SJ, Maino JH (eds). Clinical Geriatric Eye Care. Butterworth-Heinemann, 1993.
- Bruce D. Moore. Eye Care for Infants and Young Children. Butterworth-Heinemann. 1997.
- Brilliant RL. Essentials of Low Vision Practice. Butterworth-Heinemann, 1999.
- Leat S, Shute RH, Westall CA. Assessing Children's Vision. Butterworth-Heinemann, 1999.
- Rosenbloom A, Morgan M. Rosenbloom & Morgan's Vision and Aging. Butterworth-Heinemann, St Louis, 2007.
- Rosner J. and Rosner J. Pediatric Optometry. 2<sup>nd</sup> ed. Butterworths, US, 1990.

Recommended Reading

- Amos JF. Diagnosis and Management in Vision Care. 2<sup>nd</sup> ed. Butterworth-Heinemann, 1998.
- Buckingham T. (Ed.) Visual Problems in Childhood. Butterworth-Heinemann, 1993.
- Christine Dickinson. Low Vision: Principles and Practice. 4<sup>th</sup> ed. Butterworth-Heinemann, 1998.
- Kanski JJ. Clinical Ophthalmology – A Systematic Approach. 6<sup>th</sup> ed. Butterworth-Heinemann, 2007.
- Kooijman AC, Looijestijn OL, Welling JA and Van der Wildt GJ. Low Vision: Research and New Developments in Rehabilitation. Amsterdam: IOS Press, 1994.
- Lee AG, Beaver HA (eds). Geriatric Ophthalmology: A Competency-based Approach. Springer, 2009.
- Nowakowski RW. Primary Low Vision Care. Appleton and Lange, 1995.
- Ratnaik RN (ed). Practical Guide to Geriatric Medicine. McGraw-Hill, Australia 2002.
- Woo G. Low Vision: Principles and Applications. Springer Verlag, 1987.