

Subject Description Form

Subject Code	SO4013
Subject Title	Contact Lens Practice 1
Credit Value	3
Level	4
Pre-requisite	Students are required to have attempted: Ocular Anatomy and Physiology 1 (SO2005), and Visual Science 2 (SO3003)
Objectives	To help students to learn essential knowledge and skills to prepare them to become independent, professional and ethical contact lens practitioners
Intended Learning Outcomes	<p>On completion of this subject, the student will demonstrate knowledge and understanding of contact lenses, particularly, the ability to</p> <ol style="list-style-type: none"> a. assess/measure corneal integrity/parameters with clinical equipment (e.g. slit lamp and keratometer) b. assess the characteristics of human tears c. diagnose/interpret information from assessments made in a & b d. explain the roles of blinking, tears and the cornea, and the effect of contact lens wear. e. explain the indications and contraindications of contact lens wear f. compare different (major) types of lens material with respect to their advantages, disadvantages, indications and contraindications g. explain the function/effect of lens parameter on lens fitting h. verify the main parameters of contact lenses i. insert/remove soft and rigid contact lenses in/from the eye efficiently and safely j. assess/evaluate the fitting of soft lenses on the eye k. understand the role of care solutions in contact lens wear and possible adverse effects of solutions on the eyes l. understand the purposes and procedures of each type of contact lens consultations m. design or create instructions and procedures related to lens handling, care and wear
Subject Synopsis/ Indicative Syllabus	<p>Corneal shape and measurements Tears and contact lens wear Corneal physiology and lens wear Properties of contact lens materials Lens verification (Lab) Optics of contact lenses (General) Solutions and stains Contact lens consultations Soft lens fitting</p>

<p>Teaching/Learning Methodology</p>	<p>Lectures will be used to provide factual information, to introduce and explore key issues of main topics in contact lens practice. They will also be the primary forum for staff to encourage critical thinking using cases, examples and evidence from the literature and also for students and staff to explore ideas.</p> <p>Tutorials/Class discussions/Presentations will be the main platform for students to play an active role in their learning by raising questions to clarify and expand what they learn from lectures and notes. Students will be also be given cases to encourage discussion and/or debate, clinical reasoning, critical thinking and application of theory to practice. They will provide the opportunity for students to learn to take responsibility for their own learning.</p> <p>Practical sessions will give students the opportunity to develop practical skills and techniques relevant to contact lens practice. They will also allow students to work with each other and to experiment, explore, discuss, reflect and draw appropriate conclusions from their work.</p>																																																																																												
<p>Assessment Methods in Alignment with Intended Learning Outcomes</p>	<table border="1" data-bbox="475 958 1430 1352"> <thead> <tr> <th rowspan="2">Specific assessment methods/tasks</th> <th rowspan="2">% weighting</th> <th colspan="13">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> <th>g</th> <th>h</th> <th>i</th> <th>j</th> <th>k</th> <th>l</th> <th>m</th> </tr> </thead> <tbody> <tr> <td>1. Coursework (quizzes, class discussion, presentation)</td> <td>50</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2. Practical test</td> <td>20</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3. Examination</td> <td>30</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Total</td> <td>100</td> <td colspan="14"></td> </tr> </tbody> </table> <p><i>Note: Students must pass all 3 elements to pass this subject</i></p> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Quizzes will be conducted to encourage students to learn as they progress. MCQ and/or short-answer questions used to assess students' mastery of details and specific knowledge.</p> <p>Class discussion/presentations will encourage students to discuss and reflect on issues or ideas about e-learning topics and cases</p> <p>Practical test for students to demonstrate their competency on practical skills and techniques relevant to contact lens practice.</p> <p>Final examination will be conducted to allow students to demonstrate a thorough understanding of the subject</p>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)													a	b	c	d	e	f	g	h	i	j	k	l	m	1. Coursework (quizzes, class discussion, presentation)	50	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	2. Practical test	20	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	3. Examination	30	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	Total	100														
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Student Study Effort Required	Class contact:	
	▪ Lecture (+ e-learning)	26 Hrs
	▪ Tutorial	5 Hrs
	▪ Laboratory	39 Hrs
	Other student study effort:	
	▪ Self learning	50 Hrs
	Total student study effort	120 Hrs
Reading List and References	<p><u>Prescribed Reading:</u></p> <ul style="list-style-type: none"> • Bennett, ES, Hom MM (eds). Manual of gas permeable contact lenses. St. Louis, Butterworth-Heinemann, 2004. • Douthwaite, William A. Contact Lens Optics and Lens Design. 3rd ed, Elsevier Butterworth-Heinemann, Edinburgh, 2006. • Efron, N. Contact lens complications. 3rd ed, Butterworth-Heinemann, 2012 • Gasson, A, Morris J. The Contact Lens Manual. A Practical Guide to Fitting. 3rd Ed, Butterworth-Heinemann, Oxford. 2003. • Tomlinson, A. Complications of Contact Lens Wear. St. Louis, Mosby, 1992. <p><u>Recommended Reading:</u></p> <ul style="list-style-type: none"> • Larke J. The Eye in Contact Lens Wear. 2nd ed, Butterworth-Heinemann, 1997. • Phillips AJ, Speedwell L. Contact Lenses. 5th Ed, Butterworth-Heinemann, 2007. 	