

Subject Description Form

Subject Code	SO4009
Subject Title	General and Ocular Pharmacology 2
Credit Value	3
Level	4
Pre-requisite	Students are required to have attended Ocular Pathology 2 (SO4002) and General and Ocular Pharmacology 1 (SO4008)
Objectives	To familiarise the student with the use of ophthalmic pharmaceutical agents
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a. evaluate different anti-infective pharmaceutical agents and apply them for the treatment of ocular diseases b. evaluate and apply different medications for the treatment of glaucoma c. select appropriate pharmaceutical agents for the management of dry eye, contact lens related problems, and problems associated with refractive surgery d. identify the systemic side effects of ocular pharmaceutical agents, and ocular side effects of systemically administered pharmaceutical agents e. demonstrate appropriate skills on epilation, punctal occlusion and irrigation of the lacrimal system f. develop management strategies for different ocular diseases g. make appropriate clinical referrals when necessary in managing ocular conditions
Subject Synopsis/ Indicative Syllabus	<p>Anti-infective pharmaceuticals for ocular diseases Medical treatment of glaucoma Medical treatment of dry eye, contact lens related problems, and problems associated with refractive surgery Systemic side effects of ocular pharmaceutical agents Ocular side effects of systemically administered pharmaceutical agents Practical on epilation, punctal occlusion and irrigation of the lacrimal system</p>
Teaching/Learning Methodology	<p>Lecture: Signs and symptoms of eye diseases, and their management with pharmaceutical agents will be covered. Real examples will be used to illustrate different presentation of the diseases.</p> <p>Tutorial: Student-centred tutorial so students, as a group, can share problems among themselves and try to solve them together. It also helps students to consolidate what they have learned from the lectures.</p> <p>Laboratory: To practice epilation, punctal occlusion and irrigation of the lacrimal system.</p>

Assessment Methods in Alignment with Intended Learning Outcomes	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)	45	✓	✓	✓	✓		✓	✓
	2. Practical	5					✓		
	3. Examination	50	✓	✓	✓	✓		✓	✓
Total	100								
<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Several written tests will be arranged during the course to examine students' knowledge on the treatment of ocular conditions. This can help students build up their knowledge gradually.</p> <p>Practical examination for students to demonstrate their competency on treatment of abnormalities involving the eyelid margin and the lacrimal system. Final examination will be arranged to examine students' knowledge on all the topics covered because patients could have more than one problem requiring more than one pharmaceutical agents prescribed. Students have to be familiar with all of them.</p>									
Student Study Effort Required	Class contact:								
	▪ Lecture								35 Hrs.
	▪ Tutorial								2 Hrs.
	▪ Laboratory								2 Hrs.
	Other student study effort:								
	▪ Self-study								82 Hrs.
	Total student study effort:								
Reading List and References	<p><u>Prescribed Reading:</u> Hopkins G, Pearson R. Ophthalmic Drugs. Diagnostic and therapeutic uses. 5th ed. 2007 Butterworth-Heinemann. Bartlett J, Jaanus SD. Clinical Ocular Pharmacology. 5th ed. 2008 Butterworth-Heinemann. Onofrey BE, Skorin Jr. L, Holdeman NR. Ocular therapeutics handbook. 3rd ed. 2011 Lippincott Williams & Wilkins. Gerstenblith AT, Rabinowitz MP. The Wills Eye Manual. 6th ed. 2012 Lippincott Williams & Wilkins.</p>								