

## **UNIVERSITI TEKNOLOGI MARA**

## **OPT425: OPHTHALMIC OPTICS I**

Course Name (English)	OPHTHALMIC OPTICS I APPROVED			
Course Code	OPT425			
MQF Credit	2			
Course Description	no description provided			
Teaching Methodologies	Lectures, Lab Work			
CLO	CLO1 Explain the physical and optical characteristics of spherical, cylinder, sherocylindrical, and toric lenses CLO2 Calculate the base curves, lens thickness and prismatic effects of spherical, cylinder, spherocylindrical, and toric lenses. CLO3 Explain the advantages and disadvantages of each of the lens' materials. CLO4 Verify the spherical, cylinder, sherocylindrical, bifocal and multifocal lenses. CLO5 Measure pupil height and interpupillary distance (IPD) of the subjects and explain the usage of prismatic effect calculation.			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Spherical lenses 1.1) n/a				
2. Cylinder and sph 2.1) n/a	nero cylinder lenses			
3. Toric lens 3.1) n/a				
4. Design and size (4.1) n/a	of lenses			
5. Prismatic effect 5.1) n/a				
6. Bifocal lenses 6.1) n/a				
7. Multifocal lenses 7.1) n/a				
8. Test 8.1) n/a				
9. Skill Test 9.1) n/a				
<b>10. Final Exam</b> 10.1) n/a				

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Start Year : 2014

Review Year : 2017

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Lab Exercise	n/a	20%	CLO1 , CLO2 , CLO3 , CLO4 , CLO5
	Practical	Practical Test	20%	CLO1 , CLO2 , CLO3 , CLO4 , CLO5
	Test	n/a	10%	CLO1 , CLO2 , CLO3 , CLO4 , CLO5

Reading List	Recommended Text  Reference Book Resources	Salie M 2003, Ophthalmic lenses & Dispensing, 2 Ed., London: Association of British Dispensing Opt  Shukla A.V. 2009, Clinical Optics Primer for Ophthalmic Medical, Oxford: Butterworth Heinemann  Brooks C.W. 2006, System for Ophthalmic Dispensing, Elsevier Science Health Science  Dowaliby M 2000, Practical aspects of ophthalmic optics, 4 Ed., Boston: Butterworth-Heinemann  Fowler C & Latham K 2000, Spectacle lenses, Oxford Butterworth Heinemann		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			

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