

स्वामी राम हिमालयन विश्वविद्यालय Swami Rama Himalayan University

Criterion 1 - Curricular Aspects

1.1.1 Outcome Analysis of POs, COs MS Ophthalmology (2019-2022)

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A. Program Outcomes

After successful completion of the program, the student will able to be a:

PO1	To attain basic knowledge of the structure, function, development and common eye diseases and their epidemiology
PO2	To practice and handle day-to-day problems independently in ophthalmology including diseases in rural areas. The student should recognize the limitations of his/her own clinical knowledge and know when to seek further help.
PO3	To be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease including working of mobile ophthalmic unit.
PO4	To be familiar with the current developments in ophthalmic sciences, medico-legal aspect and patient counselling.
PO5	To be able to plan research project and educational programmes in ophthalmology in association with senior colleagues and be familiar with the modern methods of research, teaching and evaluation.

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B. Course-wise CO-PO Mapping

Mapping factor or Correlational level between Course Outcome (CO) and Program Outcomes (PO) indicates to what extent the teaching and assessment method of CO correlates/contributes the PO at the level defined below:

Corelation Level	Particulars			
3 Substantial/high contribution of CO towards PO				
2 Moderate contribution of CO towards PO				
1	Slight/low contribution of CO towards PO			

Course Name Ophthalmology								
Course Outcomes (COs)			CO-PO Mapping (Articulation Matrix)					
At the end of the course the students will be able to:			PO-2	PO-3	PO-4	PO-5		
CO 1	Demonstrate sufficient understanding of the basic sciences relevant to ophthalmology specialty through a problem based approach.	3		2		1		
CO2	Describe the principles of ocular emergency, its mechanism, clinical presentation, medicolegal implication and plan & interpret appropriate laboratory and radio diagnostic imaging investigations & institute appropriate management including rehabilitation of patient.	3	2	1		3		
CO3	Discuss the aetiopathogenisis, clinical presentation of congenital, developmental, inflammatory, Infective, metabolic, neuromuscular, degenerative and oncological ocular disorders and plan & interpret appropriate laboratory and radio diagnostic imaging investigations & institute appropriate management including rehabilitation for the same	3	2	2	3	2		
CO4	Demonstrate sufficient knowledge regarding the recent advances taking place in the field of Ophthalmology.		Hime	and and a start	3			
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	Course-wise PO Average	1.833	1.750	1.167	1.333	2.083
CO12	Understands the importance of medical ethics, integrity & responsibility in the profession as well as professional boundaries between patient's colleagues and society as proposed by the National Medical Commission of India.		2		2	3
CO11	Work effectively and appropriately with colleagues in an inter-professional health care team respecting diversity of roles, responsibilities and competencies of other professionals.		3		2	2
CO10	Demonstrate ability to communicate adequately, sensitively, effectively and respectfully with patients in a language that the patient understands and in a manner that will improve patient satisfaction and health care outcomes.		1	3	1	2
CO9	Perform basic ophthalmology procedures & surgeries as applicable to a primary, secondary care centres and assist advance and complex ophthalmic surgeries as applicable to secondary and tertiary care centres.	3	3			2
CO8	Diagnosis and develop individualized management plans that include preventive, promotive & therapeutic goals for Ophthalmology disease.	3	2	1	2	3
CO7	Perform and demonstrate effective clinical problem solving, judgment, ability to interpret and integrate available data in order to address patient for disease identification, prevention and health promotion.	3	3	3	3	3
CO6	Elicit and record from the patient, and other relevant sources including relatives and caregivers, a history that is complete and relevant to ophthalmology.	2	3	2		1
CO5	Identify a problem, prepare a research protocol, conduct a study, record observation, analyses data, interpret result, discuss and disseminate the finding.	2				3

C. Program outcome Target Value:

Following table calculates the overall average of all POs of the Courses and is referred as average PO Reference values.

Course Title	PO-1	PO-2	PO-3	PO-4	PO-5
Ophthalmology		1.750	1.167	1.333	2.083
Combined Average PO Reference values	1.833	1.750	1.167	1.333	2.083

D. Assessment of CO and PO Attainment Value

The attainment of the course outcome is measured at the level of 3 as follows:

Attainment Levels	Criteria				
3 If 80% of student achieves marks greater than threshold percentage of the total score of assessment					
2	If 70% of student achieves marks greater than threshold percentage of the total score of assessment				
1	If 60% of student achieves marks greater than threshold percentage of the total score of assessment				
0	If 60% of student achieves marks less than threshold percentage of the total score of assessment				

Attainment level of COs is measured through direct attainment of COs depending on the performance of the students in University Examination (UE) individually. For the MS program the threshold percentage is set at 50% for University Examination.

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Course Title		D	Derived Attainment of POs Course-wise					
Course Title	Attainment of COs	PO-1	PO-2	PO-3	PO-4	PO-5		
Ophthalmology	3.00	1.833	1.750	1.167	1.333	2.083		
Average PO Achievement Through Results		1.833	1.750	1.167	1.333	2.083		
Average PO Reference values			1.750	1.167	1.333	2.083		
Percentage Attainment of PO's			100%	100%	100%	100%		

From the Attainment level of CO, the Derived PO's value for course is calculated as follows:

 $Derived PO Value = \frac{CO \ attaintment \times respective PO \ average}{3}$

Depending on derived PO values of the courses, calculate the average PO achievement for each PO.

Calculate the percentage attainment of PO's as follows:

Percentage attainment of $PO's = \frac{Average PO Attainment through}{average PO refrenece value} \times 100$

