



स्वामी राम हिमालयन विश्वविद्यालय
Swami Rama Himalayan University

Criterion 1 - Curricular Aspects

1.1.1 Outcome Analysis of POs, COs
MD Respiratory Medicine (2019-2022)

Himalayan Institute of Medical Sciences

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A. Program Outcomes

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

PO1	Clinician, who can understand and provides preventive, promotive, curative, palliative, and holistic care with compassion.
PO2	Leader & member of health care team and system.
PO3	Communicator with patients, families, colleagues, and community.
PO4	Lifelong learner committed to continuous improvement of skills and knowledge.
PO5	Professional who is committed to excellence, is ethical, responsive and accountable to patients, community and the profession.




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		Respiratory Medicine				
Course Outcomes (COs)		CO-PO Mapping (Articulation Matrix)				
At the end of the course the students will be able to:		PO-1	PO-2	PO-3	PO-4	PO-5
CO1	Ability to elicit and record from the patient, and other relevant sources including relatives and caregivers, a history that is complete and relevant to a respiratory case.	3	3	3	3	3
CO2	Demonstrate ability to perform clinical examinations of respiratory system that is complete and relevant to respiratory disease identification, disease prevention, and health promotion.	3	3	2	3	3
CO3	Ability to choose the appropriate diagnostic tests and interpret these (tests) based on scientific validity, cost effectiveness related to a respiratory case.	3	3	3	2	3
CO4	Ability to do effective clinical problem solving, judgment, ability to interpret and integrate available data in order to address patient problems, generate differential diagnoses and develop individualized management plans that include preventive, promotive & therapeutic goals for a respiratory case.	3	3	3	3	3
CO5	Demonstrate knowledge of common chest diseases their clinical manifestations, diagnosis and management	3	2	3	3	3
CO6	Ability to recognize, diagnose and manage pulmonary tuberculosis as contemplated in National Tuberculosis Control programme.	3	3	3	3	3



CO7	Demonstrate ability to manage common respiratory emergency.	3	3	2	3	3
CO8	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	3	3	3	3	3
CO9	Work effectively and appropriately with colleagues in an inter-professional health care team respecting diversity of roles, responsibilities and competencies of other professionals.	3	3	3	3	3
CO10	Ability to perform an objective self-assessment of knowledge and skills, continue learning, refine existing skills and acquire new skills. Demonstrate ability to apply newly gained knowledge or skills to the care of the patient	3	3	3	3	3
Course-wise PO Average		3.000	2.900	2.800	2.900	3.000

C. Program outcome Reference Value:

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

Course Name	PO-1	PO-2	PO-3	PO-4	PO-5
Respiratory Medicine	3.000	2.900	2.800	2.900	3.000
Combined Average PO Reference values	3.000	2.900	2.800	2.900	3.000



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 MD program the threshold percentage is set at 50% for University Examination.

Course Name	Attainment of COs	Derived Attainment of POs Course-wise				
		PO-1	PO-2	PO-3	PO-4	PO-5
Respiratory Medicine	3.000	3.000	2.900	2.800	2.900	3.000
Average PO Achievement Through Results		3.000	2.900	2.800	2.900	3.000
Average PO Reference values		3.000	2.900	2.800	2.900	3.000
Percentage Attainment of PO's		100%	100%	100%	100%	100%

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

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

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:

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


