स्वामी राम हिमालयन विश्वविद्यालय
Swami Rama Himalayan University

Criterion 1 - Curricular Aspects

1.1.1 Outcome Analysis of POs, COs

MD Community Medicine (2019-2022)

Himalayan Institute of Medical Sciences

Swami Rama Nagar, Jolly Grant, Dehradun 248016, Uttarakhand, India

A. Program Outcomes

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

PO1	Clinician, who understands 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, community
PO4	Lifelong learner committed to continuous improvement of skills and knowledge
PO5	Researcher who plans and conducts experiments and analyses results, with the aim of increasing scientific knowledge in public health.
PO6	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	Community 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	PO-6
CO1	Describe conceptual (and applied) understanding of Public Health, Community Medicine, clinical and disease-oriented approach, preventive approach & health promotion, disease control & promotion.	1		2	2	2	1
CO2	Have knowledge about communicable and non-communicable diseases, emerging and re- emerging diseases, their epidemiology, control, and prevention.	3			3		
CO3	Apply the principles of epidemiology, health research and Bio-statistics, application of qualitative research methods	1			2	3	
CO4	Plan awareness programmes at various levels on environmental issues and mobilize community resources and participation to safeguard from local adverse environmental conditions		3	2			1
CO5	To keep abreast of recent advances in Public Health & formulate feasible, optimal, sustainable, cost-effective strategies in response to the advances in public health & development.	2			3		
CO6	Always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient including the right to information and second opinion.	3		3	2		3

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CO7	Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.	2		3			2
CO8	Conduct community surveys for assessment of health & morbidity profile, epidemiological determinants, assessment of health needs, disease surveillance, evaluation of health programmes and community diagnosis	2	1			3	
CO9	Demonstrate clinical skills of preparing case history, examination, provisional diagnosis, treatment and clinical case management and interpretation of laboratory findings. Conduct common procedures such as incision, drainage, dressings & injections.	3		1	1		
CO10	Do data collection, compilation, tabular and graphical presentation, analysis and interpretation, applying appropriate statistical tests, using computer-based software application for validation of findings	1				3	
CO11	Conduct clinical screening of various diseases and organize community health camps involving community participation in urban and rural settings. Use of Snellen charts for vision, Ischiara's chart for colour blindness, tourniquet tests for dengue diagnosis in fever, BMI and other physical measurements of infants, children and adults etc., copper-T insertions and preparation of pap smear.	3	2	1			
CO12	Identify family level and community level interventions and facilitate the implementation of the same e.g. food hygiene, food storage, cooking demonstrations, community kitchen, kitchen garden, empowerment of women for promoting nutritional health etc.	3	2	1			
CO13	Conduct dietary surveys, assessment of nutritional status, nutritive values of common food menus, detection of food adulterants, use of lactometer, recording and interpretation of growth and development charts.	1			2	3	
CO14	Develop appropriate IEC Material, assessment of community communication needs, training skills, counselling skills, conduct Health Education Programmes in urban and rural settings	1	1	3			
CO15	Conduct tests for assessment of chlorine demand of water (Horrock's Apparatus), procedure of well-water and urban water-tank chlorination, assessment of chlorination levels, physical examination of water, methods domestic water purification, oriented in use of water filters.	1					
	Course-wise PO Average	**1.800**	**0.600**	**1.067**	**1.000**	**1.133**	**0.467**

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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 Title	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
Community Medicine	1.800	0.600	1.067	1.000	1.133	0.467
Combined Average PO Reference values	**1.800**	**0.600**	**1.067**	**1.000**	**1.133**	**0.467**

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.

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Course Title	Attainment of COs	Derived Attainment of POs Course-wise					
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
Community Medicine	2.625	1.575	0.525	0.934	0.875	0.991	0.409
Average PO Achievement Through Results		1.575	0.525	0.934	0.875	0.991	0.409
Average PO Reference values		**1.800**	**0.600**	**1.067**	**1.000**	**1.133**	**0.467**
Percentage Attainment of PO's		**87.5%**	**87.5%**	**87.5%**	**87.5%**	**87.5%**	**87.5%**

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:

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

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