स्वामी राम हिमालयन विश्वविद्यालय
Swami Rama Himalayan University

Criterion 1 - Curricular Aspects

1.1.1 Outcome Analysis of POs, COs

MD Psychiatry (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 the relevance of mental health and should be able to identify the biological, psychological, social, environmental, economic and other determinants of mental health and should apply appropriate diagnostic, therapeutic and rehabilitative procedures to mentally sick patients
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							
Psychiatry							
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	Explain etiology, assessment, classification and management and prognosis of various psychiatric disorders (including psychiatric sub-specialties including Neuroanatomy, Neurophysiology, Neurochemistry, Neuroimaging, Electrophysiology, Psycho-neuroendocrinology, Psychoneuroimmunology, Chronobiology and Neurogenetics.	3			2	2	2
CO2	Discuss short term and long term care of persons with acute and chronic mental health (including child and geriatric mental health disorders) and neurocognitive problems.	3		2	3	1	
CO3	Acquire knowledge of pharmacokinetics & pharmacodynamics of drugs involved in psychiatric management of patients.	3			2	2	
CO4	Acquire knowledge and be able to explain mechanism(s) for rehabilitation of psychiatric patients.	3		3	2		2
CO5	Be conversant with recent advances in Psychiatry	3			3	3	2

CO6	Be Aware with various policy related aspects of Psychiatric practice in India (e.g. Mental Health Act, National Health Mental Health Programs etc.)	1	2	3	3		2
CO7	Be conversant with research methodologies.				3	3	2
CO8	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.		2	3			2
CO9	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	1	2	3	1		1
CO10	Obtain a proper relevant history and perform thorough clinical examination including detailed mental state examinations using proper communication skills.	3			2		2
CO11	Able to do risk assessment and mental capacity assessment.	3	2	1			
CO12	Provide a clinical formulation, arrive at a logical working diagnosis and differential diagnosis after clinical examination.	3	2	1			
CO13	Order appropriate investigations keeping in mind their relevance and cost effectiveness and obtain additional relevant information from family members to help in diagnosis and management.	3			2		3
CO14	Identify psychiatric situations calling for urgent or early intervention and refer at the optimum time to appropriate center.	3			2		3
CO15	Write a complete case record and proper discharge summary with all relevant information.	3					2
CO16	Obtain informed consent for any examination/procedure.	2		3			2
CO17	Perform clinical audit.	1					2

CO18	Perform modified neuromodulation	3		1	2		2
CO19	Assess the gender identity of an individual	3		3			3
CO20	Understand how to evaluate and manage (including psychoeducation of attendants) issues related to sexual orientation, sexuality identity, gender identity, as well as intersex identity (differences in sex development) as part of routine practice	3		3	1		2
CO21	Perform various types of psychotherapies in patient	3		3			3
	Course-wise PO Average	**2.381**	**0.476**	**1.381**	**1.333**	**0.524**	**1.762**

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	PO-6
Psychiatry	2.381	0.476	1.381	1.333	0.524	1.762
Combined Average PO Reference values	**2.381**	**0.476**	**1.381**	**1.333**	**0.524**	**1.762**

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	PO-6
Psychiatry	2.625	2.083	0.417	1.208	1.166	0.459	1.542
Average PO Achievement Through Results		**2.083**	**0.417**	**1.208**	**1.166**	**0.459**	**1.542**
Average PO Reference values		**2.381**	**0.476**	**1.381**	**1.333**	**0.524**	**1.762**
Percentage Attainment of PO's		**88%**	**88%**	**88%**	**88%**	**88%**	**88%**

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:

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