



**स्वामी राम हिमालयन विश्वविद्यालय**  
**Swami Rama Himalayan University**

## **Criterion 1 - Curricular Aspects**

**1.1.1 Outcome Analysis of POs, COs**  
**BACHELOR OF AUDIOLOGY AND SPEECH-LANGUAGE**  
**PATHOLOGY (BASLP) (2019-2023)**

**Himalayan Institute of Medical Sciences**


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**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:

<b>PO1</b>	Clinician, who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
<b>PO2</b>	Leader & member of health care system.
<b>PO3</b>	Communicator with patients, families, colleagues, and community.
<b>PO4</b>	Lifelong learner committed to continuous improvement of skills and knowledge.
<b>PO5</b>	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

Following are the list of courses and the mapping factors between COs and POs:

Course Code		Course Name	CO-PO Mapping				
B1.1		Communication Sciences					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe basic concept of speech, language & communication development in children		2		1	2	
CO 2	Describe basic concept of hearing sensitivity and acoustics		2		1	2	
CO 3	Describe basic concept of speech production mechanism		2		1	2	
CO 4	Describe the scope of practice in the field of Audiology & SLP		2		1	2	
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>-</b>	<b>1.000</b>	<b>2.000</b>	<b>-</b>

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1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B1.2		Anatomy and Physiology of Speech and Hearing					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the anatomy of auditory system		2		2	2	
CO 2	Describe the anatomy of speech mechanism		2		2	2	
CO 3	Explain the physiology of hearing mechanism		2		2	2	
CO 4	Explain the function of speech mechanism		2		2	2	
CO 5	Explain the function of swallowing mechanism		2		2	2	
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>-</b>	<b>2.000</b>	<b>2.000</b>	<b>-</b>

Course Code		Course Name	CO-PO Mapping				
B1.3		Clinical Psychology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe scope of clinical psychology and its significance for speech and hearing		2		1	2	
CO 2	Describe concept of normality and abnormality		2		2	2	
CO 3	Classify abnormal behavior		2		2	2	
CO 4	Discuss the cognitive, motor, emotional and social development		2		1	2	
CO 5	Discuss the theories of learning and therapy techniques based on learning principles		2		2	2	
CO6	Explain neuropsychological assessment and rehabilitation		2		2	2	
CO7	Discuss the application of neuropsychology in the field of speech and hearing		2		3	2	
CO8	Apply basics of counseling		2		3	2	
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>-</b>	<b>2.000</b>	<b>2.000</b>	





1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B1.4		Linguistics and Phonetics					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Differentiate branches and aspects of linguistics		2		3	3	
CO 2	Explain the characteristics and functions of language		2		3	3	
CO 3	Differentiate the branches of phonetics, applied linguistics and phonology		2		3	3	
CO 4	Discuss morphology, syntax, semantics, pragmatics		2		3	3	
CO 5	Explain language acquisition and factors affecting it		2		3	3	
CO6	Discuss bi/multilingualism and related issues		2		3	3	
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>-</b>	<b>3.000</b>	<b>3.000</b>	<b>-</b>

Course Code		Course Name	CO-PO Mapping				
B1.5		Electronics and Acoustics					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the types of power supply for biomedical instruments		1			2	
CO 2	Describe the basic aspects of digital signal processing		2		2	2	
CO 3	Explain the theoretical basis of acoustics required for audiologists		2		1	2	
CO 4	Explain the functioning of computers and computing systems		2		1	2	
<b>Course-wise PO Average</b>			<b>1.750</b>	<b>-</b>	<b>1.000</b>	<b>2.000</b>	<b>-</b>

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1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B1.6		Research Methods and Statistics					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Basic concept of research in the field of audiology and speech-language pathology		2			2	
CO 2	Explain the design and execution of research		2			2	
CO 3	Explain the ethical guidelines for conducting research		2		2	2	
Course-wise PO Average			2.000	-	0.667	2.000	-

Course Code		Course Name	CO-PO Mapping				
B2.1		Neurology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe anatomy of nervous system related to speech & hearing		2		2	3	2
CO 2	Explain physiology of nervous system related to speech and hearing		2		2	3	2
CO 3	Discuss the neurosensory controls in speech, language & hearing mechanism		1		1	3	2
CO 4	Describe neuromotor controls in speech, language and hearing mechanisms		1	1	1	3	2
CO 5	Describe cerebral plasticity and its relevance for speech, language and hearing disorders		2	1	2	3	2
CO6	Describe various neural diseases, lesions, nutritional and metabolic conditions affecting speech, language and hearing		2	1	2	3	2
CO7	Describe principles and assessment procedures for speech, language and hearing disorders associated with neurological conditions		2	1	2	3	3
CO8	Describe principles of management procedures for speech, language and hearing disorders associated with neurological conditions		2	1	2	3	3
Course-wise PO Average			1.750	0.625	1.750	3.000	2.250



1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B2.2		Otolaryngology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Able to describe causes & symptoms of hearing disorders		2	1	2	3	3
CO 2	Explain the pathophysiology of hearing disorders		2	1	2	3	3
CO 3	Able to identify diseases of external, middle and inner ear leading to hearing loss		2	1	2	3	3
CO 4	Describe causes & symptoms of laryngeal and articulatory system		2	1	2	3	3
CO 5	Explain the pathophysiology of laryngeal and articulatory system.		2	1	2	3	3
CO6	Identify diseases of laryngeal and articulatory systems		2	1	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.000</b>	<b>2.000</b>	<b>3.000</b>	<b>3.000</b>

Course Code		Course Name	CO-PO Mapping				
B2.3		Speech Language Pathology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Classify different speech and language disorders		3	3	3	3	3
CO 2	Describe tools required for diagnosing speech and language disorders		3	3	3	3	3
CO 3	Discuss the assessment procedures for speech and language disorders		3	3	3	3	3
CO 4	Describe principles and intervention procedures for speech and language disorders		3	3	3	3	3
CO 5	Describe clinical requirements to practice		2	3	3	3	3
CO6	Explain the different laws, social-cultural and ethical issues		2	1	1	2	3
CO7	Identify speech and language disorders		2	2	2	3	3
CO8	Apply principles of counselling and guidance to clients and caregivers		3	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.625</b>	<b>2.500</b>	<b>2.500</b>	<b>2.875</b>	<b>3.000</b>





I.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B2.4		Audiology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Experiment to measure differential sensitivity loudness and pitch		1		1	3	2
CO 2	Determine case history for adults & children		3	2	3	3	3
CO 3	Determine the tuning fork tests and interpret the results		3	2	3	3	3
CO 4	Estimate pure tone audiometry including masking on clinical population		3			3	
CO 5	Estimate subjective calibration and daily listening checks of the audiometer		3	3		3	3
CO6	Discuss objective calibration		2	1	1	3	
CO7	Determine tests involved in speech audiometry		3			3	
CO8	Discuss masking procedure used in pure tone audiometry					3	
<b>Course-wise PO Average</b>			<b>2.250</b>	<b>1.000</b>	<b>1.000</b>	<b>3.000</b>	<b>1.375</b>

Course Code		Course Name	CO-PO Mapping				
B3.1		Voice & its disorders					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe characteristics of normal voice		3	2	2	3	3
CO 2	Identify voice disorders.		3	2	2	3	3
CO 3	Explain etiology related to voice problems		2	2	2	3	3
CO 4	Assess voice disorders		3	3	2	3	3
CO 5	Apply counselling on individuals with voice disorders.		3	2	3	3	3
CO6	Apply therapy to individuals with voice disorders.		2	2	3	3	3
<b>Course-wise PO Average</b>			<b>2.667</b>	<b>2.167</b>	<b>2.333</b>	<b>3.000</b>	<b>3.000</b>





1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B3.2		Speech sound disorders					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe speech sound development		3	3	3	3	3
CO2	Describe the characteristics of speech sound disorders		3	2	3	3	3
CO3	Assess speech sound disorders		3	3	3	3	3
CO4	Apply treatment approaches of speech sounds disorders		3	2	3	3	3
<b>Course-wise PO Average</b>			<b>3.000</b>	<b>2.500</b>	<b>3.000</b>	<b>3.000</b>	<b>3.000</b>

Course Code		Course Name	CO-PO Mapping				
B3.3		Diagnostic Audiology-Behavioural tests					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Choose individualized test battery for assessing audiological disorders		2	2	2	3	3
CO 2	Evaluate independently and interpret the results to identify audiological disorders		2	2	3	3	3
CO 3	Apply suitable test parameters to improve sensitivity and specificity of		1		1	3	2
CO 4	Apply appropriate referrals		3	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.500</b>	<b>2.000</b>	<b>3.000</b>	<b>2.750</b>

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1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B3.4		Amplification Devices					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Assess the candidacy for hearing aids		3	3	3	3	3
CO 2	Evaluate the listening needs and select the appropriate hearing aid		3	3	3	3	3
CO 3	Apply programming of digital hearing aids as per the listening needs of the client		3	3	3	3	3
CO 4	Assess the benefit from the hearing aid using subjective and objective methods		2	2	2	3	3
CO 5	Prepare all types of ear molds		1		2	2	3
<b>Course-wise PO Average</b>			<b>2.400</b>	<b>2.200</b>	<b>2.600</b>	<b>2.800</b>	<b>3.000</b>

Course Code		Course Name	CO-PO Mapping				
B4.1		Motor Speech Disorders in Children					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the characteristics of motor speech disorders in children		2	1	2	3	3
CO 2	Assess the speech and non-speech aspects associated with the motor speech disorders		2	1	2	3	3
CO 3	Apply therapy strategies for children with motor speech disorders		2	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.333</b>	<b>2.000</b>	<b>3.000</b>	<b>3.000</b>

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1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name		CO-PO Mapping				
B4.2		Language disorders in children						
At the end of the course student will be able to:				PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Explain the process of acquisition of language and factors that influence its development in children			2	2	2	3	3
CO 2	Identify language delay and deviance in children			3	3	3	3	3
CO 3	Assess language delay and deviance in children.			3	3	3	3	3
CO 4	Apply appropriate strategies for intervention of language disorders in children			3	2	2	3	3
CO 5	Apply counselling and provide guidance to parents/caregivers of children with language disorders			3	3	3	3	3
<b>Course-wise PO Average</b>				<b>2.800</b>	<b>2.600</b>	<b>2.600</b>	<b>3.000</b>	<b>3.000</b>

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I.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B4.3		Diagnostic Audiology-Physiological tests	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Discuss the need for using the different physiological tests in the Audiological assessment		2	2	2	3	3
CO 2	Assess independently and interpret the results to detect hearing disorders		2	2	2	3	3
CO 3	Select appropriate test protocols in immittance, AEPs and OAEs as per the clinical needs		2	1	2	3	3
CO 4	Analyze appropriate diagnosis based on the test results and suggest referrals		2	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.750</b>	<b>2.000</b>	<b>3.000</b>	<b>3.000</b>

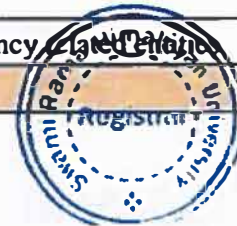
Course Code		Course Name	CO-PO Mapping				
B4.4		Implantable hearing devices	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Assess candidacy for bone anchored hearing devices		2		2	3	3
CO 2	Assess candidacy for middle ear implants		2		2	3	3
CO 3	Assess candidacy for cochlear implants and ABI		2		2	3	3
CO 4	Select the appropriate device depending on the audiological and non-audiological findings		3	2	3	3	3
CO 5	Manage Audiological rehabilitation in post-implantation		2	2	2	3	3
CO6	Assess the benefit derived from implantation		2	2	2	3	3
CO7	Apply counselling of parents/care givers during different stages of implantation		3	2	3	3	3
<b>Course-wise PO Average</b>			<b>2.286</b>	<b>1.143</b>	<b>2.286</b>	<b>3.000</b>	<b>3.000</b>



1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B5.1		Structural anomalies and speech disorders					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Discuss the characteristics of disorders with structural anomalies including speech		3	2	2	3	3
CO 2	Evaluate the speech characteristics seen CLP		3	2	2	3	3
CO 3	Apply techniques for the management of CLP		2	1	2	3	3
CO 4	Evaluate the speech characteristics seen in structural anomalies of tongue & mandible		1		1	2	2
CO 5	Apply techniques for the management of structural anomalies of tongue and mandible		1			2	2
CO6	Organize camps, awareness program, and community-based rehabilitation activities		2	2	2	3	3
CO7	Evaluate the speech characteristics seen in Laryngectomy		2	1	2	3	3
CO8	Apply techniques for the management of Laryngectomy		2	1	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.125</b>	<b>1.625</b>	<b>2.750</b>	<b>2.750</b>

Course Code		Course Name	CO-PO Mapping				
B5.2		Fluency & its disorders					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Discuss the characteristics of fluency		3	2	2	3	3
CO 2	Evaluate the speech characteristics seen in Stuttering		3	2	2	3	3
CO 3	Apply therapy techniques for the management of Stuttering		2	1	2	3	3
CO 4	Evaluate the speech characteristics seen in cluttering		1		1	2	2
CO5	Apply therapy techniques for the management of Cluttering		1		1	2	2
CO 6	Differentially diagnose various fluency disorders		2	1	2	3	3
CO7	Apply various therapy techniques in management of fluency		2	1	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.000</b>	<b>1.714</b>	<b>2.714</b>	<b>2.714</b>

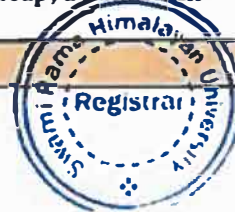




1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B5.3		Paediatric Audiology					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe auditory development		2	1	2	3	3
CO 2	Identify etiology in different types of auditory disorders		2	1	2	3	3
CO 3	Explain different hearing screening procedures and their application		3	2	3	3	3
CO 4	Assess different aspects of paediatric behavioural and electrophysiological tests		2	2	2	3	3
CO 5	Differentially diagnose various paediatric hearing disorders		2	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.200</b>	<b>1.600</b>	<b>2.200</b>	<b>3.000</b>	<b>3.000</b>

Course Code		Course Name	CO-PO Mapping				
B5.4		Aural Rehabilitation in Children					
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the different communication options available for young children with hearing impairment		2	2	2	3	3
CO 2	Explain the impact of hearing impairment on auditory development and spoken language communication		3	3	2	3	3
CO 3	Describe factors that affect acoustic accessibility and strategies to manage them at home and in classroom		2	2	2	3	3
CO 4	Design activities for auditory learning at different levels		2	2	2	3	3
CO 5	Assess the needs of individuals with hearing impairment using sign language and spoken language as form of communication in India		2	2	2	3	3
CO6	Identify strategies used with the older adult to implement a successful aural rehabilitation program		2	2	2	3	3
CO7	Administer different tools for assessment of hearing handicap, attitudes and beliefs that can impact aural rehabilitation		2	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.143</b>	<b>2.143</b>	<b>2.000</b>	<b>3.000</b>	<b>3.000</b>





Course Code		Course Name	CO-PO Mapping				
B6.1		Motor Speech Disorders in Adults	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Discuss the characteristics of acquired motor speech disorders in adults		2	1	2	3	3
CO 2	Evaluate speech characteristics in Dysarthria		2	2	2	3	3
CO 3	Apply therapy techniques for the management of speech and related errors in Dysarthria		1		1	2	1
CO 4	Evaluate speech characteristics in Verbal Apraxia		2	1	2	2	2
CO 5	Apply therapy techniques for the management of speech and related errors in Apraxia		1		1	2	1
<b>Course-wise PO Average</b>			<b>1.600</b>	<b>0.800</b>	<b>1.600</b>	<b>2.400</b>	<b>2.000</b>

Course Code		Course Name	CO-PO Mapping				
B6.2		Language disorders in Adults	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Discuss neural bases of language		2	1	2	3	2
CO 2	Discuss the characteristics of language disorders in adults		2	1	2	3	2
CO 3	Evaluate speech characteristics in adults with language disorders		2	1	2	3	2
CO 4	Apply therapy techniques for the management of speech and related errors in language disorders seen in adults		2	1	2	3	2
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>1.000</b>	<b>2.000</b>	<b>3.000</b>	<b>2.000</b>

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1.1.1 Outcome Analysis of POs, COs - B.ASLP (2019-2023)

Course Code		Course Name	CO-PO Mapping				
B6.3		Aural rehabilitation in Adults	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the impact on the quality of life of adults with hearing impairment		2	2	2	3	3
CO 2	Explain the principles and limitations of auditory training		2	2	2	3	3
CO 3	Recognize factors that impair communication		2	2	2	3	3
CO 4	Identify components of aural rehabilitation program for adults		2	2	2	3	3
CO 5	Identify strategies used with the older adult to implement a successful aural rehabilitation program		2	2	2	3	3
CO 6	Administer different tools for assessment of hearing handicap		2	2	2	3	3
<b>Course-wise PO Average</b>			<b>2.000</b>	<b>2.000</b>	<b>2.000</b>	<b>3.000</b>	<b>3.000</b>

Course Code		Course Name	CO-PO Mapping				
B6.4		Audiology in Practice	CO-PO Mapping				
At the end of the course student will be able to:			PO-1	PO-2	PO-3	PO-4	PO-5
CO 1	Describe the highlights of legislations relating to hearing impairment and other disabilities		2	1	2	3	2
CO 2	Apply ethical practices in professional service delivery		3	2	2	3	3
CO 3	To identify information on welfare measures, policies of government		2	1	2	3	2
CO 4	Describe different strategies to create awareness of hearing impairment		2	1	2	3	2
CO 5	Explain the different clinical practice settings in audiology		2	1	2	3	2
CO 6	Describe methods to measure the impact of noise on humans		2	1	2	3	3
CO 7	Describe technology and methods used in tele practice and their application in audiological service delivery		2	1	2	3	3
<b>Course-wise PO Average</b>			<b>2.143</b>	<b>1.143</b>	<b>2.000</b>	<b>3.000</b>	<b>2.429</b>



**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.

Sr. No.	Course Code	Course Title	PO-1	PO-2	PO-3	PO-4	PO-5
1	B1.1	Communication Sciences	2.000	-	1.000	2.000	-
2	B1.2	Anatomy and Physiology of Speech and Hearing	2.000	-	2.000	2.000	-
3	B1.3	Clinical Psychology	2.000	-	2.000	2.000	-
4	B1.4	Linguistics and Phonetics	2.000	-	3.000	3.000	-
5	B1.5	Electronics and Acoustics	1.750	-	1.000	2.000	-
6	B1.6	Research Methods and Statistics	2.000	-	0.667	2.000	-
7	B2.1	Neurology	1.750	0.625	1.750	3.000	2.250
8	B2.2	Otolaryngology	2.000	1.000	2.000	3.000	3.000
9	B2.3	Speech Language Pathology	2.625	2.500	2.500	2.875	3.000
10	B2.4	Audiology	2.250	1.000	1.000	3.000	1.375
11	B3.1	Voice & its disorders	2.667	2.167	2.333	3.000	3.000
12	B3.2	Speech sound disorders	3.000	2.500	3.000	3.000	3.000
13	B3.3	Diagnostic Audiology-Behavioural tests	2.000	1.500	2.000	3.000	2.750
14	B3.4	Amplification Devices	2.400	2.200	2.600	2.800	3.000
15	B4.1	Motor Speech Disorders in Children	2.000	1.333	2.000	3.000	3.000





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16	B4.2	Language disorders in children	2.800	2.600	2.600	3.000	3.000
17	B4.3	Diagnostic Audiology-Physiological tests	2.000	1.750	2.000	3.000	3.000
18	B4.4	Implantable hearing devices	2.286	1.143	2.286	3.000	3.000
19	B5.1	Structural anomalies and speech disorders	2.000	1.125	1.625	2.750	2.750
20	B5.2	Fluency & its disorders	2.000	1.000	1.714	2.714	2.714
21	B5.3	Paediatric Audiology	2.200	1.600	2.200	3.000	3.000
22	B5.4	Aural Rehabilitation in Children	2.143	2.143	2.000	3.000	3.000
23	B6.1	Motor Speech Disorders in Adults	1.600	0.800	1.600	2.400	2.000
24	B6.2	Language disorders in Adults	2.000	1.000	2.000	3.000	2.000
25	B6.3	Aural rehabilitation in Adults	2.000	2.000	2.000	3.000	3.000
26	B6.4	Audiology in Practice	2.143	1.143	2.000	3.000	2.429
<b>Combined Average PO Reference values</b>			<b>2.139</b>	<b>1.556</b>	<b>1.957</b>	<b>2.752</b>	<b>2.713</b>

*[Handwritten Signature]*



### D. Assessment of Program Outcome and 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 Internal Assessment (IA) and End Semester Examination (ESE) individually. The average attainment level of both assessment is calculated depending on the proportional weightage of IA and ESE according to the academic regulation or marks distribution of the assessment.

For the program the threshold percentage is set at 50% for IA and 50% for ESE Assessments.

Sr. No.	Course Code	Course Title	Attainment of COs	Derived Attainment of POs Course-wise				
				PO-1	PO-2	PO-3	PO-4	PO-5
1	B1.1	Communication Sciences	0.50	0.33	-	0.17	0.33	-
2	B1.2	Anatomy and Physiology of Speech and Hearing	0.00	0.00	-	0.00	0.00	-
3	B1.3	Clinical Psychology	3.00	2.00	-	2.00	2.00	-
4	B1.4	Linguistics and Phonetics	0.50	0.33	-	0.50	0.50	-
5	B1.5	Electronics and Acoustics	3.00	1.75	-	1.00	2.00	-
6	B1.6	Research Methods and Statistics	1.50	1.00	-	0.33	1.00	-



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7	B2.1	Neurology	0.25	0.15	0.05	0.15	0.25	0.19
8	B2.2	Otolaryngology	0.50	0.33	0.17	0.33	0.50	0.50
9	B2.3	Speech Language Pathology	2.25	1.97	1.88	1.88	2.16	2.25
10	B2.4	Audiology	1.88	1.41	0.63	0.63	1.88	0.86
11	B3.1	Voice & its disorders	2.75	2.44	1.99	2.14	2.75	2.75
12	B3.2	Speech sound disorders	2.88	2.88	2.40	2.88	2.88	2.88
13	B3.3	Diagnostic Audiology-Behavioural tests	3.00	2.00	1.50	2.00	3.00	2.75
14	B3.4	Amplification Devices	2.75	2.20	2.02	2.38	2.57	2.75
15	B4.1	Motor Speech Disorders in Children	3.00	2.00	1.33	2.00	3.00	3.00
16	B4.2	Language disorders in children	3.00	2.80	2.60	2.60	3.00	3.00
17	B4.3	Diagnostic Audiology-Physiological tests	2.63	1.75	1.53	1.75	2.63	2.63
18	B4.4	Implantable hearing devices	3.00	2.29	1.14	2.29	3.00	3.00
19	B5.1	Structural anomalies and speech disorders	3.00	2.00	1.13	1.63	2.75	2.75
20	B5.2	Fluency & its disorders	3.00	2.00	1.00	1.71	2.71	2.71
21	B5.3	Paediatric Audiology	3.00	2.20	1.60	2.20	3.00	3.00
22	B5.4	Aural Rehabilitation in Children	3.00	2.14	2.14	2.00	3.00	3.00





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23	B6.1	Motor Speech Disorders in Adults	3.00	1.60	0.80	1.60	2.40	2.00
24	B6.2	Language disorders in Adults	2.35	1.57	0.78	1.57	2.35	1.57
25	B6.3	Aural rehabilitation in Adults	3.00	2.00	2.00	2.00	3.00	3.00
26	B6.4	Audiology in Practice	3.00	2.14	1.14	2.00	3.00	2.43
<b>Average PO Achievement Through Results</b>				<b>1.66</b>	<b>1.39</b>	<b>1.53</b>	<b>2.14</b>	<b>2.35</b>
<b>Average PO Reference values</b>				<b>2.139</b>	<b>1.556</b>	<b>1.957</b>	<b>2.752</b>	<b>2.713</b>
<b>Percentage Attainment of PO's</b>				<b>77.8%</b>	<b>89.4%</b>	<b>78.1%</b>	<b>77.8%</b>	<b>86.6%</b>

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:

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

