

**Department of Speech Language & Hearing Sciences, SRIHER (DU)**  
**B.ASLP**

**Program Outcome**

The outcomes of the B.ASLP program are to equip the students with knowledge and skills to

- function as audiologists and speech-language pathologists in different work settings
- understand concepts in speech, language, communication, hearing and disability
- screen, evaluate, diagnose and assess the severity of different disorders related to speech, language, swallowing and hearing,
- manage speech, language, swallowing and hearing disorders across life span
- counsel persons with disorders of communication and their family members
- rehabilitate persons with speech, language, swallowing and hearing disorders
- prevent speech, language, swallowing and hearing disorders
- liaise with professionals in allied fields and other stake holders
- implement public awareness and education program,
- undertake advocacy measures on behalf of and for persons with speech language and hearing disorders

**Course Outcome**

**Semester - I**

**B 1.1 Introduction to Speech Language Pathology**

**Outcomes:** After completing this course, the student will be able to

Demonstrate knowledge of fundamental concepts related to speech, language and communication

Demonstrate knowledge of normal aspects of speech and language development and identify disorders of communication in children and adults.

**B 1.2 Introduction to Audiology**

**Outcomes:** After completion of this course, the student will be able to

Demonstrate knowledge about the origin of audiology

Give examples of physical properties of sound and its psychophysical correlates

Demonstrate knowledge about the different types of hearing loss and give examples of pathological conditions that would cause hearing loss

**B 1.3 Anatomy and Physiology related to Speech and Hearing Organs**

**Outcomes:** After completing this course, the student will be able to

To use and explain the concepts in anatomy and physiology of speech and hearing organs for communication

**B 1.4 Clinical Psychology related to Communication Sciences**

**Outcomes:** After completing this course, the student will be able to

Demonstrate understanding of application of clinical psychology for communication sciences

**B 1.5 Linguistics and Phonetics**

**Outcomes:** After completing this course, the student will be able to apply basic principles in linguistics and phonetics for analysis of speech and language.

#### **B 1.6 Electronics and Acoustics**

**Outcomes:** After completing this course, the student will be able to apply basic principles of electronics and acoustics to signals and instrumentation in speech and hearing

#### **B 1.7 Epidemiology, Research Methods and Statistics**

**Outcomes:** After completing this course, the student will be able to give examples of conduct of research and use of statistics in research related to speech and hearing

### **Semester - II**

#### **B 2.1 Neurology**

**Outcomes:** After completing this course, the student will be able

To demonstrate knowledge about neuroanatomy and physiology related to speech and hearing

To give examples of various neurological conditions affecting communication

#### **B 2.2 Otorhinolaryngology**

**Outcomes:**

After completing this course, the student will be able to demonstrate knowledge about the diseases of ear, nose and throat.

#### **B 2.3 Speech Language Diagnostics and Therapeutics**

**Outcome:** After completing this course, the student will be able to demonstrate knowledge about fundamental principles of speech-language diagnostics and therapeutics for assessment and management of communication disorders

#### **B 2.4 Audiological Evaluation**

**Outcomes:** After completion of this course, the student should be able to

Take case history, perform otoscopy and tuning fork tests.

Carryout pure tone audiometry including masking

Carryout different tests involved in speech audiometry

Carryout subjective calibration and daily listening checks of the audiometer

#### **B 2.5. Speech-language Pathology – Lab**

**Outcomes:** After completing this course, the student will be able to

Transcribe speech using IPA

Perform analysis of speech and language

Administer tests to assess speech and language abilities

To prepare diagnostic report, write therapy goals, plan activities for therapy and develop an appropriate therapy kit

#### **B 2.6 Audiology- Lab**

**Outcomes:** After completing this course, the student will be able to

Perform calculations applying concept of dB

Perform basic psychophysical experiments to calculate RETSPL, MCL, UCL, equal loudness contours

Carry out basic hearing tests including puretone audiometry, speech audiometry with masking

## **Semester - III**

### **B 3.1 Language Disorders in Children**

**Outcomes:** After completing this course, the student will be able to

Explain the process of acquisition of language and factors that influence its development in children.

Identify and assess language delay and disorders in children.

Select appropriate strategies for intervention.

Counsel and provide guidance to parents/caregivers of children with language disorders.

### **B 3.2 Speech Sound Disorders**

**Outcomes:** After completing this course, the student will be able to

Describe normal speech sound development and characterization of individuals with speech sound disorders.

Perform phonological analysis and assessment of speech sound disorders.

Plan intervention for individuals with speech sound disorders.

### **B 3.3 Diagnostic Audiology - Behavioural Tests**

**Outcomes:** After completing this course, the student will be able to

Select individualized test battery for assessing cochlear pathology, retro cochlear pathology, functional hearing loss, CAPD, vestibular dysfunctions, tinnitus and hyperacusis

Demonstrate knowledge of the procedures to carry out the above tests

Make appropriate diagnosis based on the test results and suggest referrals.

Select test parameters to improve sensitivity and specificity of tests.

### **B 3.4 Paediatric Audiology**

**Outcomes:** After completing this course, the student will be able to

Describe auditory development

List etiologies and relate them to different types of auditory disorders that may arise

Explain different hearing screening/identification procedures and their application

Elaborate on different aspects of paediatric behavioural, physiological/ electrophysiological evaluation

## **Semester - IV**

### **B 4.1 Motor Speech Disorders in Children**

**Outcomes:** After completing this course, the student will be able to

Describe the characteristics of motor speech disorders in children such as cerebral palsy, childhood apraxia of speech and other childhood dysarthrias

Assess the speech and non-speech aspects associated with the above conditions

Plan and execute therapy strategies for children with motor speech disorders

### **B 4.2 Voice and its Disorders**

**Outcomes:** After completing this course, the student will be able to

Describe characteristics of normal voice

Explain etiology related to voice problems, and its pathophysiology

Identify and assess voice disorders

Provide counseling and therapy to individuals with voice disorders

### **B.4.3 Amplification Devices**

**Outcomes:** After completing this course, students will be able to

Assess the candidacy for hearing aids and counsel the client accordingly

Evaluate the listening needs and select appropriate hearing aid

Program digital hearing aids as per the listening needs of client and assess the benefit from hearing aid using subjective and objective methods

Make different types of ear molds

Counsel the parents/caregivers

#### **B 4.4 Diagnostic Audiology - Physiological Tests**

**Outcomes:** After completing this course, the students will be able to

Justify the need for using the different physiological tests in the audiological assessment

Interpret the results to detect the middle ear, cochlear and retro cochlear pathologies and also differentially diagnose among these pathologies

Design tailor-made test protocols in immittance, AEPs and OAEs as per the clinical need

Make appropriate diagnosis based on the test results and suggest referrals

#### **Semester V**

##### **B 5.1 Structural Anomalies and Speech Disorders**

**Outcomes:** After completing the course, the student will be able to

Demonstrate knowledge about speech characteristics of persons with cleft lip and palate, anomalies of tongue and mandible and laryngectomy

Evaluate and diagnose the speech characteristics seen in individuals with oro-facial anomalies and laryngectomy

Learn about the techniques for the management of speech disorders in these conditions

##### **B 5.2 Fluency and its Disorders**

**Outcomes:** After completing the course, the student will be able to

Demonstrate knowledge about speech characteristics of persons with developmental stuttering and other fluency disorders

Evaluate and diagnose the speech characteristics seen in individuals with stuttering and other fluency disorders

Learn about the techniques for the management of speech disorders in these conditions

##### **B 5.3 Aural Rehabilitation in Children**

**Outcomes:** After completing this course the student will be able to

Describe the different communication options available for young children with hearing impairment

Explain the impact of hearing impairment on auditory development and spoken language communication

Describe factors that affect acoustic accessibility and strategies to manage them at home and in classroom

Design activities for auditory learning at different levels

Enumerate how the needs of individuals with hearing impairment using sign language and spoken language as form of communication in India are being met

##### **B 5.4 Implantable Hearing Devices**

**Outcomes:** After completing this course, the students will be able to

Assess candidacy for bone anchored hearing devices, middle ear implants, cochlear implants, and ABI

Select the appropriate device depending on the audiological and non-audiological findings

Handle post-implantation audiological management

Assess the benefit derived from implantation

Counsel the parents/care givers during different stages of implantation

#### **Semester VI**

##### **B 6.1 Motor Speech Disorders in Adults**

**Outcomes:** After completing this course, the student will be able to

Describe the characteristics of motor speech disorders in adults such as dysarthria and apraxia of speech

Assess the speech and non-speech aspects associated with the above conditions  
Plan and execute therapy strategies for adults with motor speech disorders and dysphagia

### **B 6.2 Language Disorders in Adults**

**Outcomes:** After completing this course, the student will be able to  
Describe the characteristics of language disorders in adults  
Assess the speech, language and non-speech aspects associated with the above conditions  
Plan and execute therapy strategies for adults with language disorders

### **B 6.3 Aural Rehabilitation in Adults**

**Outcomes: After completing this course, the student will be able to**  
Describe the impact on the quality of life of adults with hearing impairment  
Explain the principles, benefits and limitations of auditory training and speech reading  
Recognize factors that impair communication and suggest facilitative and repair strategies  
Identify components of aural rehabilitation program for adults and older adults  
Identify strategies used with older adult to implement a successful rehabilitation program  
Administer different tools for assessment of hearing handicap, attitudes and beliefs that can impact aural rehabilitation

### **B 6.4 Audiology in Practice**

**Outcomes:** After completing the course, the student will be able to  
List and describe the highlights of legislations relating to hearing impairment and other disabilities  
Incorporate ethical practices in professional service delivery.  
Provide information on welfare measures, policies of government schemes  
Describe different strategies to create awareness of hearing impairment and programs to address them  
Explain the different clinical practice settings in audiology with reference to their requirement, protocols and role and responsibility of audiologist  
Describe methods to measure the impact of noise on humans and strategies to address excessive noise exposure in industries and the community  
Describe terminology, technology and methods used in tele practice, and their application in audiological service delivery