

**First Year  
Semester 1**

BSLT. 1101	Introduction to Communication Studies
BSLT. 1102	Language skill Development: Bangla and English
BSLT. 1103	Language Acquisition and Cognitive Development
BSLT. 1104	Linguistics for Clinicians: Articulatory and Acoustics Phonetics

**Semester 2**

BSLT. 1205	Human Communication and Disorders
BSLT. 1206	Anatomy and Physiology of Speech and Language
BSLT. 1207	Linguistics for Clinicians: Phonology and Morphology
BSLT. 1208	Psychology: Abnormal and Counseling Psychology

**Second Year  
Semester 3**

BSLT. 2301	Introduction to Nonverbal Communication
BSLT. 2302	Neurology of Language and Communication
BSLT. 2303	Linguistics for Clinicians: Syntax, Semantics and Pragmatics
BSLT. 2304	Information and Communication Technology (ICT)

**Semester 4**

BSLT. 2405	Sign Language
BSLT. 2406	Psycholinguistics, Neurolinguistics and Clinical Linguistics
BSLT. 2407	Bangladesh Studies
BSLT. 2408	Audiology-1: Hearing Science and Psychoacoustics
BSLT. 2409	First Comprehension (theoretical aspects)

**Third Year  
Semester 5**

BSLT. 3501	Statistics and Research Methods
BSLT. 3502	Developmental and Child Language Disorders
BSLT. 3503	Audiology-2: Hearing Disorders and Aural Rehabilitation
BSLT. 3504	Clinical Practicum-1: Pediatrics and Audiology

**Semester 6**

BSLT. 3605	Diagnostic Methods: Speech and Language Therapy
BSLT. 3606	Neurogenic Communication Disorders
BSLT. 3607	Clinical Phonetics and Motor Speech Disorders
BSLT. 3608	Clinical Practicum-2: Neurology

**Fourth Year  
Semester 7**

BSLT. 4701	Alternative and Augmentative Communication
BSLT. 4702	Stuttering and Other Fluency Disorders
BSLT. 4703	Voice Disorders and Dysphagia
BSLT. 4704	Clinical Practicum-3: Vocology

**Semester 8**

BSLT. 4805	Professional Development: Therapy and Treatment
BSLT. 4806	Medical Speech-Language Pathology (Theory + Practical)
BSLT. 4807	Second Comprehensive (clinical aspects) And (Oral Examination)

**Non-credit Course**

BSLT. 0001	A Modern Language
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## 16.22 Course Number and Title

BSLT. 3605: Diagnostic Methods: Speech and Language Therapy  
(রোগ নির্ণয় পদ্ধতি: বাচন ও ভাষা থেরাপি)

### 16.22.1 Credit Hours: 04

### 16.22.2 Course Description

This course is introduced to provide students different methods and techniques used to diagnose pathological linguistic data. In this course students, will learn various appropriate diagnostic methods and techniques of analysis to make the data suitable for further interpretation.

### 16.22.3 Course Objectives

After completing this course, students will be able to-

- a. describe methods and techniques suitable for data analysis;
- b. apply these methods and techniques to interpret different pathological linguistic data;
- c. identify respective disorders with the help of these pathological data.

### 16.22.4 Course Content

Diagnostic method: introduction and concept

Importance of diagnostic method in speech and language therapy

Medical technology and pathological linguistic data

Necessity, relation, neurohistorical procedures

Techniques of speech processing and analysis

Tools and techniques for diagnostic methods

Event related potentials (ERP) techniques

Behavioral measures (Dichotic listening)

Magnetic Imaging (MRI, fMRI, MEG)

Electrophysiological procedures (evoked potentials, EEG, EMG etc)

Imaging of brain metabolism (RCBF, SPECT, PET etc)

CSF studies

Tachistoscopic presentation

Laryngeal stroboscopy

### 16.22.5 References

Daube, J.R. Rubin, D.I. (2009). *Clinical Neuropsychology*. Oxford University Press

Devinsky, O. & D'ESPOSITO, M. (2004), *Neurology of Cognitive and Behavioral Disorders*. Oxford University Press

Hall, J. W. (1992). *Handbook of Auditory evoked responses*. Massachusetts: Allyn & Bacon

Handy, T.C. (ed.) (2005). *Event-Related Potentials A Methods Handbook*. Cambridge: The MIT Press

Millman. II (1972). *Integrated Electronics*. Tokyo: McGraw Hill

Oppenheim and Schafer .(1989). *Digital signal processing*. New Delhi: Prentice Hall of India

Rabinette, M. S. & Slanke. L. L. (eds.).(1997). *Otoacoustic emissions Clinical applications*. New York: Thieme.

Sekerina, I.A. Fernández, E.M. & Clahsen, H. (2008). *Developmental Psycholinguistics*. Amsterdam / Philadelphia: John Benjamins Publishing Company

Silverman, D.H.S. (2009). *PET in the Evaluation of Alzheimer's Disease and Related Disorders*. New York: Springer

## 16.23 Course Number and Title

BSLT. 3606: Neurogenic Communication Disorders (শ্রাব্যুষ্টিত সংজ্ঞাপন বৈকল্য)

### 16.23.1 Credit Hours 04

### 16.23.2 Course Description

This course is introduced to provide the students a description of neurogenic or acquired language disorders. In this course, they will learn types, characteristics and symptoms of different language impairments adult people usually develop after acquiring their normal language ability.

### 16.23.3 Course Objectives

Upon completion of this course, the students will be able to-

- be familiar with symptoms, cause and characteristics of different acquired language disorders;
- explain various types of these disorders;
- identify adults who are suffering from these disorders.

### 16.23.4 Course Content

Neurogenic language disorders: definition, goal, scope

Essential features of neurogenic language disorders

Types of brain injury: stroke, TBI, trauma

Types of neurogenic language disorders

Aphasia and aphasiology

Definitions, characters, history

Types of aphasia

Linguistics impairments of aphasia

Investigations and assessment procedures

Management and rehabilitation

Other neurogenic language disorders

Cerebral palsy, Dyslexia, Dysgraphia

### 16.23.5 References

Arif, H. (2014). *Clinical Linguistics and Child Language*. Baden-Baden: Deutscher Wissenschafts-Verlag (DWV)

DEVINSKY, O. & D'ESPOSITO, M. (2004), *Neurology of Cognitive and Behavioral Disorders*. Oxford University Press

Duchan, J. F. and Byng, S. (2004). *Challenging Aphasia Therapies*. Psychology Press

Goodglass, H. (1993). *Understanding Aphasia: Foundations of Neuropsychology series*. California: Academic Press Inc.

MODY, M. & SILLIMAN, E.R. (2008). *Brain, Behavior and Learning in Language and Reading Disorders*. New York and London: The Guildford Press

Papathanasiou, I., Coppens, P. & Potagas, C. (2013). *Aphasia and Related Neurogenic Communication Disorders*. Burlington, MA: Jones & Bartlett Learning

PARADIS, M. (ed.) (1998). *Pragmatics and Neurogenic Communication Disorders*. Pergamon

Paradis, M.(ed.) (1995). *Aspects of Bilingual Aphasia*. Great Yarmouth: Galliard (Printers) Ltd.

Peach, R.K. & Shapiro, L.P. (2012). *Cognition and Acquires Language Disorders An information processing approach*. Elsevier Mosby

Whitaker, A.H., (ed.) (1997). *Agrammatism*. California: Singular Publishing Group Inc.

Whitworth A. Webster J. & Howard D. (2005). *Assessment & Intervention in Aphasia*. Psychology Press

আরিফ, হাকিম [সম্পা.]। ২০১৫। অ্যাফেজিয়া ও বাংলাভাষা: ভাষাতাত্ত্বিক সমীক্ষা। ঢাকা: বুকস ফেয়ার

### 16.24 Course Number and Title

BSLT. 3607: Clinical Phonetics and Motor Speech Disorders

(চিকিৎসা ধ্বনিবিজ্ঞান ও পেশি-সঞ্চালক বাচন বৈকল্য)

#### 16.24.1 Credit Hours: 04

#### 16.24.2 Course Description

This course is concerned about the study of speech disorders caused by disability of motor speech organs. In this course, the students will learn the characteristics, types, causes and classifications of different motor speech disorders and related pathological phonetic features.

#### 16.24.3 Course objectives

Upon completion of this course, the students will be able to:

- acquaint with nature, scope and basic concepts of motor speech disorders;
- analyze appropriate causes of these disorders;
- describe pathological phonetic features associated with these disorders.

#### 16.24.4 Course Content

##### 1. Clinical Phonetics

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###### Clinical Phonetics

Characteristics and basic properties

Transcribing phonetic data

Transcribing disordered speech

Articulatory instrumentation

Articulatory analysis of disordered speech

Acoustic instrumentation

Acoustic analysis of disordered speech

Auditory and perceptual instrumentation

Auditory and perceptual analysis of disordered speech

IPA for transcribing pathological speech

##### 2. Motor Speech Disorders

50

Motor speech disorder: definition, characteristics

Causes of motor speech disorders

Models of speech processing in motor speech disorders

Types of motor speech disorders

Dysarthria

Characteristics; assessment; differential diagnosis; management-

(Prosthetic, surgical, medical and Behavioral – facilitatory and compensatory)

Issues related vegetative therapy/sensory motor training for oral musculature

Role of AAC in dysarthria

Apraxia

Characteristics; assessment; differential diagnosis; management

Acquired apraxia of speech for adults

Children apraxia of speech

Current issues and trends regarding apraxia prognosis

Role of AAC in apraxics

#### 16.24.5 References

Ball, M, J. and Lowry O. M. (2001). *Methods in Clinical Phonetics*. London and Philadelphia: Whurr Publishers.

Caruso. F. J. and Strand, E. A. (1999). *Clinical management of motor speech disorders in children*. New York: Thieme

Crary, M. (1993). *Developmental Motor Speech Disorders*. London: Whurr/San Diego: Singular

Duffy, J.R (2005). *Motor Speech Disorders: substrates, differential diagnoses and management*. Second edition. St. Louis: Elsevier Mosby.

G. G. Weismer (ed). (2007). *Motor Speech Disorders: Essays for Ray Kent*. San Diego: Plural Publishers.

Marquardt. T. P. (1982). *Acquired Neurogenic Disorders*. New Jersey: Prentice-Hall, Inc.

Massen et. al (ed.) (2004). *Speech Motor Control in normal and disordered Speech*. New York: Oxford University Press

Rothi, G. J. I. & Heilman, K. M. (eds.) (1997). *Apraxia of Speech in Adults*. San Diego: Singular Publishing Group

Yorkston, K.M. et al (2010). *Management of motor speech disorders in children and adults*. Austin, Tex.: Pro-Ed.

#### 16.25 Course Number and Title

BSLT. 3608: Clinical Practicum-2: Neurology (ক্লিনিক শিক্ষানবিশি-২: স্নায়ুতত্ত্ব)

##### 16.25.1 Credit Hours: 04

##### 16.25.2 Course Description

This course is designed to give students a practical experience of speech and language disorders related to neurology. Students of this course will go to the respective clinic or hospital to encounter the patients with neurogenic and motor speech disorders to get practical experience of theories and information they have learnt in the classroom.

### **16.25.3 Course objective**

Upon completion of the this practical course, students will be able to-

- a. identify the patients of given speech and language disorder;
- b. explain the causes, types and symptoms of these disorders;
- c. provide appropriate therapies and treatment modules for patients with these impairments.

### **16.25.4 Learning outcome**

At the end of this practicum students will be able to—

1. Acquire knowledge of the facilities and activities of the clinical set up.
2. Acquire knowledge of the terminology used in the assessment and therapy in the clinical set up and develop proficiency in usage.
3. Acquire knowledge about normative aspects of speech and language and develop skills for perceptual and instrumental measurement.

### **16.25.5 What to do**

Students will spend 10 hours per week in hospital/clinic not only to observe clinical conditions but also collect pathological linguistic data of patients with neurogenic and motor speech disorders.

### **16.21.6 Required Assignment**

1. Assess 6 clients with neurogenic and motor speech disorders.
2. Offer therapy for these patients.