

CMJ UNIVERSITY
SHILLONG, MEGHALAYA.
Recognized by UGC

DETAILED SYLLABUS

Under Graduate Degree Program
SPEECH AND HEARING

(YEARLY SYSTEM)

COURSE TITLE : B.Sc(SPEECH AND HEARING)

DURATION : 03 YEARS (Semester System)

TOTAL DEGREE MARKS : 2400

FIRST YEAR

<i>COURSE TITLE</i>	<i>Paper Code</i>	<i>MARKS</i>		
		THEORY	PRACTICAL	TOTAL
LINGUISTICS I	BSH110	100	00	100
ACOUSTICS OF SPEECH AND HEARING	BSH120	100	00	100
HEARING SCIENCES	BSH130 BSH130P	50	50	100
ANATOMY AND PHYSIOLOGY	BSH140	100	00	100
BEHAVIOUR SCIENCE	BSH210	100	00	100
COMMUNICATION DISORDER	BSH220	100	00	100
PSCHOLOGY OF LANGUAGE AND COMMUNICATION	BSH230	100	00	100
FOUNDATION INTERPERSONAL AND CLINICAL SKILLS	BSH240/P	00	100	100

SECOND YEAR

<i>COURSE TITLE</i>	<i>Paper Code</i>	<i>MARKS</i>		
		THEORY	PRACTICAL	TOTAL
PHONETIC SCIENCE	BSH310	100	00	100
PRACTICAL PHONETICS	BSH320/P	00	100	100
LINGUISTICS-II	BSH330	100	00	100
FUNDAMENTALS OF AUDIOLOGY	BSH340/P	00	100	100
ACQUIRED LANGUAGE DISORDER	BSH410	100	00	100
EXPERIMENTAL PHONETICS	BSH420P	00	100	100
REHABILITATION: PRINCIPLES AND PRACTICES	BSH430	100	00	100
HEALTH AND HEALTH PSYCOLOGY	BSH440	100	00	100

THIRD YEAR

<i>COURSE TITLE</i>	<i>Paper Code</i>	<i>MARKS</i>		
		THEORY	PRACTICAL	TOTAL
DEVELOPMENTAL PHONETICS AND PHONOLOGY	BSH510	100	00	100
CLINICAL LAB-I	BSH520P	00	100	100
CLINICAL LAB-II	BSH530P	00	100	100
LANGUAGE DEVELOPMENT AND DISORDERS IN THE SCHOOL YEARS	BSH540	100	00	100
ADVANCED SPEECH SCIENCE	BSH610	100	00	100
CLINICAL LAB-III	BSH620P	00	100	100
ADVANCED HEARING SCIENCE –I	BSH630/P	00	100	100
PROJECT	BSH640	--	--	100

Note:

Theory Paper: 30% Continuous Internal Assessment and 70% University examination.

Practical Paper:30% Continuous Internal Assessment and 70% University examination.

Continuous Internal Assessment:

- | | |
|--|---------------------------------------|
| 1) Two or three tests out of which minimum two will be considered for Assessment | 60% of Continuous Internal Assessment |
| 2) Seminars/Assignments/Quizzes | 30% of Continuous Internal Assessment |
| 3) Attendance, class participation and behavior | 10% of Continuous Internal Assessment |

FIRST YEAR

BSH-110

LINGUISTICS I

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	:30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Language and communication; language in context; pragmatic principles; subsystems of language; constituent structure; the lexicon; meaning properties and relations; the lexicon; phonological and morphological properties; syntactic categories; phrasal categories; subcategorization. Introduction to the analysis and assessment of 'pathological' language.

BSH -120

ACOUSTICS OF SPEECH AND HEARING

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	:30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

This course seeks to explain the processes of spoken language communication by which a message is encoded in sounds, transmitted and then decoded by a listener. Taking as a basis a knowledge of articulatory phonetics and basic anatomy, the course describes the acoustics of speech production, common tools for analysing speech and processes of hearing and perception.

BSH-130

HEARING SCIENCES

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	:50	Continuous Internal Assessment	:30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

This course aims to give students an understanding of the processes involved in the perception of speech by human listeners with normal and impaired hearing. Also to inform students about hearing impairment by introducing the principles and techniques of clinical audiology and by including information on current speech and hearing research and technology. The syllabus includes:

- the hearing mechanism
- auditory processing of speech
- speech and hearing in special circumstances
- clinical audiology
- current developments in speech and hearing technology.

BSH-130 P

HEARING SCIENCES

Maximum Time : 3 Hrs.
Total Marks :50
Minimum Pass Marks : 40%

University Examination :70 %
Continuous Internal Assessment :30 %

Clinical audiology

BSH-140

ANATOMY AND PHYSIOLOGY

Maximum Time : 3 Hrs.
Total Marks : 100
Minimum Pass Marks : 40%

University Examination :70 %
Continuous Internal Assessment :30 %

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Cell biology and tissues of the body; body systems; gross anatomy of the thorax; respiratory systems; head and neck; neuroanatomy; growth and form; the physiological and neurophysiological mechanisms involved in the production and perception of speech.

BSH-210

BEHAVIOUR SCIENCE

Maximum Time	: 3 Hrs.	University Examination	: 70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed.

COURSE CONTENTS

Introduction to cognitive psychology; development across the age-span; psychosocial development; methods of data collection; descriptive statistics.

BSH-220

COMMUNICATION DISORDER

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Causal factors: effects on the development of speech and language in children and adults, the aetiology and diagnosis of hearing impairment in children and adults

BSH-230

**PSYCHOLOGY OF LANGUAGE AND
COMMUNICATION**

Maximum Time : 3 Hrs. University Examination :70 %
Total Marks : 100 Continuous Internal Assessment : 30 %
Minimum Pass Marks : 40%

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

This course provides an introduction to psycholinguistics and the cognitive neuropsychology of language. Through workshops and tutorials the course will also enable students to develop their data analysis skills. The syllabus includes:

- approaches to the study of human language in psycholinguistics and cognitiveneuropsychology
- auditory comprehension
- mental lexicon and speech processing
- theories of reading, spelling and writing
- theories of semantic organisation
- sentence processing.

BSH-240 P**FOUNDATION INTERPERSONAL AND
CLINICAL SKILLS**

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

This unit introduces and explores the concepts underlying the study of communication and communication disorders. It allows students to develop awareness, understanding and practical skills for the study of communication and for the application of communication studies in professional settings. The syllabus includes:

- variety in communication,
- observation, recording and reporting skills
- interpersonal skills
- communication breakdown
- communication in health and educational contexts.
- conducting hypotheses-led investigations, report writing and compiling professional portfolios.

SECOND YEAR

BSH-310

PHONETIC SCIENCE

Maximum Time	: 3 Hrs.	University Examination	: 70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

This course provides a rigorous introduction to the analysis, description and classification of speech sounds (Phonetics) and to their systematic use in spoken language (Phonology). The descriptive emphasis is on articulatory phonetics (sound production). The pronunciation of normal adult English is studied in some detail. Students also learn about a range of sounds found in other languages, about child speech and about the speech associated with some pathological conditions

BSH-320P

PRACTICAL PHONETICS

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

To develop the practical phonetic skills that are essential prerequisites for clinical applications. These include skills of analytic listening and speech sound identification; speech sound performance; and techniques for the phonetic representation of speech, using symbolic transcription where appropriate.

BSH-330**LINGUISTICS- II**

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Syntactic realisation of arguments/non-arguments; x-syntax; thematic roles; semantics of non-arguments; grammatical relations; meaning and the linguistic representation of events; complex arguments/non-argument embedded sentences; empty categories; distribution and properties, principles and constraints; auxiliary system; tense, mood and aspect.

BSH-340P**FUNDAMENTALS OF AUDIOLOGY**

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

Causes, identification and assessment of hearing impairment; hearing screening, basic audiologic test procedures, interpretation of results, and rehabilitation options.

BSH-410**ACQUIRED LANGUAGE DISORDER****Maximum Time : 3 Hrs.****University Examination : 70 %****Total Marks : 100****Continuous Internal Assessment : 30 %****Minimum Pass Marks : 40%****A) Instructions for paper-setter**

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Language impairment resulting from acquired brain damage; aphasia and head injury; assessment, interpretation of results, intervention planning and procedures, family/client counselling.

BSH-420**EXPERIMENTAL PHONETICS****Maximum Time : 3 Hrs.****University Examination :70 %****Total Marks : 100****Continuous Internal Assessment : 30 %****Minimum Pass Marks : 40%****A) Instructions for paper-setter**

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Acoustic phonetic and acoustic prosodic features observed in speech analysis, particularly in spectrographic displays, and their relation to production and perception; experimental findings and theories pertaining to the most important of these features.

BSH-430

REHABILITATION

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Current approaches to assessment and rehabilitation of communication problems arising from hearing impairment.

BSH-440

HEALTH AND HEALTH PSYCOLOGY

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	:30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

The course includes health and health psychology, psychological reactions to grief and loss, anxiety, depression, schizophrenia, speech and language therapy in psychiatry, the rehabilitation process, the professional client relationship, current perspectives in neurological management, the psychiatry of old age and care of the elderly.

THIRD YEAR

BSH-510

DEVELOPMENT PHONETICS AND PHONOLOGY

Maximum Time	: 3 Hrs.	University Examination	: 70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Theories of speech sound development, with emphasis on English; analysis of methodology and research techniques; phonetic transcription.

BSH-520P

CLINICAL LAB I

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

Principles and procedures of audiometric testing and calibration; emphasis on basic audiologic and pediatric test procedures.

BSH-530P

CLINICAL LAB II

Maximum Time : 3 Hrs.
Total Marks : 100
Minimum Pass Marks : 40%

University Examination :70 %
Continuous Internal Assessment : 30 %

Principles and procedures of special audiologic tests; integration of etiologies of hearing loss, effects on the auditory system and audiologic test battery.

BSH-540 LANGUAGE DEVELOPMENT AND DISORDERS IN SCHOOL YEARS

Maximum Time : 3 Hrs.
Total Marks : 100
Minimum Pass Marks : 40%

University Examination :70 %
Continuous Internal Assessment : 30 %

A) Instructions for paper-setter

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Demands on the language of school age children; classroom discourse; language and curriculum content; bilingualism and cultural diversity; description, identification, and management of language disorders related to academic performance.

BSH-610**ADVANCE SPEECH SCIENCE****Maximum Time : 3 Hrs.****University Examination :70 %****Total Marks : 100****Continuous Internal Assessment : 30 %****Minimum Pass Marks : 40%****A) Instructions for paper-setter**

1. The question paper will be divided into two parts. Part-I will contain subjective questions. This part will carry 60% of the total marks.
2. Part-II will comprise of 10-15 short questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for the candidates

1. Candidates are required to attempt Part-I as defined in the question paper and the entire part-II.
2. Use of non-programmable scientific calculator is allowed

COURSE CONTENTS

Theories and models of speech production, with particular emphasis on coarticulation, timing control, invariance and motor equivalence.

BSH-620P**CLINICAL LAB III****Maximum Time : 3 Hrs.****University Examination :70 %****Total Marks : 100****Continuous Internal Assessment : 30 %****Minimum Pass Marks : 40%****COURSE CONTENTS**

Treatment of aphasic, head-injured and/or dysarthric individuals: current approaches to intervention, their efficacy and practical application.

BSH-630 P**ADVANCED HEARING SCIENCES**

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

Consideration of critical bodies of data, current theories, and recent advances in auditory physiology and psychoacoustics.

BSH-640**PROJECT**

Maximum Time	: 3 Hrs.	University Examination	:70 %
Total Marks	: 100	Continuous Internal Assessment	: 30 %
Minimum Pass Marks	: 40%		

Students would normally undertake a project that explores a particular aspect of speech science or communication. Staff in the departments involved in speech science teaching supervise a wide variety of clinical and laboratory based projects in these fields