

  
**Annamalai University**  
**Centre of Advanced Study in Linguistics**

**PG. Diploma in Phonetics (Part Time)**  
**Programme Code: LLIN11**

**Curriculum**

**(For students admitted from the academic year 2019-2020)**

**Programme Outcomes**

<b>PO1:</b>	Apply the knowledge of language fundamentals and various literatures in society, computers, psychology, cognitive science and medicine.
<b>PO2:</b>	Formulate, solve and analyze complex problems in variety of domains that constitute the core of language and literature knowledge, including familiarity with diverse questions of interest in the areas of (and interfaces between) structures of language and aesthetics of literature.
<b>PO3:</b>	Apply the acquired knowledge for analyzing language and writing in appropriate genres and modes for a variety of purposes and audiences and provide solutions to societal and environmental contexts for problems related to language change, policy and planning.
<b>PO4:</b>	Design and conduct research, analyse and interpret data to provide valid conclusions in the field of literature and in the descriptive as well as applied language studies.
<b>PO5:</b>	Select and apply appropriate modern theories and techniques including cognitive, psychological, biological, cultural, and social factors for language study and research.
<b>PO6:</b>	Gain exposure to attain knowledge and understand interdisciplinary and multidisciplinary linguistic and literary approaches.
<b>PO7:</b>	Acquire professional and intellectual integrity, code of conduct and ethics on communicational practices, understanding responsibilities and norms for sustainable development of society.
<b>PO8:</b>	Interact with the specific linguistic community and with society at large, through critical conversations and prepare, organize, and deliver their work to the public through speaking and writing.
<b>PO9:</b>	Understand the aesthetic and scientific concepts of language and demonstrate the knowledge as a skilled person in teams and multidisciplinary tasks in their profession.
<b>PO10:</b>	Appreciate the need for self-preparation and life-long learning independently in the broadest context of language challenges in the context of multilingualism and globalization.

**Programme Specific Outcomes**

<b>PSO1:</b>	The student will be able to: understand how speech sounds are used to create meaning.
<b>PSO2:</b>	Apply their knowledge of phonetics and phonology to improve their own pronunciation, in further studies of languages and linguistics and in teaching.
<b>PSO3:</b>	Ability to analyze specific sounds & understand systematic properties of sound system of English.
<b>PSO4:</b>	Ability to recognize and analyze the grammatical system of English and other languages.

## Course – I ARTICULATORY PHONETICS

### Learning Objectives of the course Articulatory Phonetics

- ❖ Understand the general principles of phonetics for describing various sounds in human languages
- ❖ Describe the phonetic system of human language and differentiate the sounds of native language from other language
- ❖ Eliminate phonemic errors (wrong sounds) and refine their own pronunciation
- ❖ Use IPA (International Phonetic Alphabet) to transcribe the native as well as other languages
- ❖ Employ the tools learned in class to both evaluate and improve their own pronunciation of native language as well as the pronunciation of others.

### UNIT – 1 Introduction to Phonetic Study:

Branches of Phonetics – Articulatory, Acoustic and Auditory – Speech organs – Ear – Anatomical Structure of Speech organs – Air Stream Mechanisms – Stricture types – Glottis – Phonation types – Active and Passive articulators.

### UNIT – 2 Classification of Speech Sounds:

Segmentals – contoids – vocoids – approximants – phonetic symbols – IPA Chart - Supra segmentals – Intonation – Pitch – Stress – Duration.

### UNIT – 3 Co-articulation and sequences:

Syllables – syllable types and numbers – Transcription – Phonetic Vs Phonemic – Narrow Vs Broad.

### UNIT – 4 Sounds in Sequence:

Co-articulation and sequences – Co-ordinate or Double articulation – primary and secondary articulation – Homorganic sound sequences – Lateral plosive, Nasal plosive, Pre-nasalized stops – Heterogenic sequences – Diphthongs - close and open transition.

### UNIT – 5 Basic Analytic Concepts:

Relation between settings and segments – suprasegmental or prosodic features: pitch, length, stress and rhythm – tone and intonation – pitch – accent languages – function of intonation, juncture, voice quality.

### Text Books:

1. Abercrombie, D. Elements of General phonetics, Edinburgh: Edinburgh University Press. 1967,
2. Bloch, B. & Trager, G. L. Outline of Linguistic analysis, USA Baltimore, USA. 1972,
3. Catford, J. C. A practical introduction to phonetics, Edinburgh: Edinburgh University Press. 1990,
4. Heffner, R. M. S. General Phonetics, London: Wisconsin University Press. 1950,
5. Jones, D. An outline of English phonetics, Cambridge: Heffner & sons Ltd. 1964,

### Supplementary Readings:

1. Catford, J. C. *Fundamental problems in phonetics*. Edinburgh: Edinburgh University Press. 1977,
2. Ladefoged, P., *A course in phonetics*. London: CUP. 1972
3. Laver, John. *Principles of phonetics*. Cambridge: Cambridge University Press. 1994,
4. *Handbook of International phonetic Association*, Cambridge: Cambridge University Press. 1999,
5. O'connor, J. D. *Phonetics*, Harmonds worth: Penguin Books. 1973,

## Outcome

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

- CO:1. Describe the basic sounds of human language and their realization of various Symbols
- CO.2. Understand the types of phonation.
- CO.3. Get exposure on acoustic and auditory phonetics.
- CO.4. Explain prosodic features related to settings and segments
- CO.5.** Differentiate sounds in sequences

## Outcome Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	√	√	√		√	√	√		√	√	√			√	√
CO2	√		√	√		√		√	√	√	√	√		√	
CO3		√		√	√		√		√			√	√		√
CO4	√		√		√	√		√		√		√	√	√	
CO5	√	√		√	√		√	√		√	√			√	√

## Course–2: ACOUSTICS AND INSTRUMENTAL PHONETICS

### Learning Objectives of the course Instrumental Phonetics

- ❖ To interpret basic patterns in a spectrogram.
- ❖ To describe acoustic characteristics of the speech in general
- ❖ To provide an account of general acoustic elements and the source-filter perspective of language sounds, and be aware of methods used to produce spectra and spectrograms
- ❖ To distinguish the acoustic patterns of vowel and consonant categories and theories of the links between these patterns and production and perception;
- ❖ To get exposure on main dimensions of the voice, from articulatory, acoustic and perceptory viewpoints: pitch, voice power, voice qualities

#### UNIT - 1 Basic concept:

Physics of speech sounds – Frequency – Amplitude – Pitch – Intensity – Quality – Timbre – Musical sounds – Vibration of air column – Wave form – Wave analysis – Resonance.

#### UNIT - 2 The carrier nature of speech:

Some properties of glottal sounds source – vowel production – consonant production – spectrographic analysis; spectral properties of vowels – Stops – Nasals – Fricatives – Glides – Prosodic features.

#### UNIT - 3 Anatomy and Function of the Ear:

Non – linearity of Ear – Hearing range – Perception cues for identification, Place, Manner and voicing.

#### UNIT - 4 Spectrographic Analysis:

Spectral properties of vowels, stops, nasals, fricatives, glides and prosodic features.

#### UNIT - 5 Instrumental Analysis:

Palatographic, kymographic and oscillographic analysis, visipitch. Investigating articulatory contact and nature of air flow and wave shape – softwares for acoustic analysis.

**Text Books:**

1. Abercrombie, Direct palatography studies in phonetics and Linguistics. London: OUP. 1965,
2. Firth, J. Word palatogram and articulation, papers in Linguistics. London: OUP.
3. 1951,
4. Fry, D.B. The Physics of Speech. Cambridge: Cambridge University Press,1979.
5. Ladefoged, P., Elements of Acoustic Phonetics. London: Oliver and Doy. 1966.
6. Ladefoged, P., Three areas of Experimental Phonetics. London: OUP. 1967.

**Supplementary Readings:**

1. Catford, J. C. Fundamental problems in phonetics. London: Edinburgh University Press. 1977.
2. Ladefoged, P.. Preliminaries to Linguistics, Phonetics. Chicago: Chicago University Press. 1971
3. Ladefoged, P., A Course in Phonetics. New York. 1975
4. Ladefoged, P. Use of palatography. (JSHD). 1957.
5. Laver, John. Principles of phonetics. Cambridge: Cambridge University Press. 1994,

**Outcome:**

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

- CO:1. Describe basic speech sounds in human languages
- CO.2. Explain various properties of vowels
- CO.3. Develop softwares for acoustic analysis.
- CO.4. Explain place and manner of articulation and voicing.
- CO.5.** Differentiate vowels and consonants production

**Outcome Mapping**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	√	√	√	√	√	√		√		√	√		√	√	
CO2	√	√	√		√		√		√		√	√		√	
CO3	√	√		√		√	√	√		√		√		√	√
CO4		√	√		√		√		√		√			√	√
CO5	√		√	√		√		√	√	√		√		√	√

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