


Annamalai University
Centre of Advanced Study in Linguistics

P.G. Diploma Course in Phonetic Training & Lab Techniques (Part Time)
Programme Code: LLIN15

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

Programme Outcomes

PO1:	Apply the knowledge of language fundamentals and various literatures in society, computers, psychology, cognitive science and medicine.
PO2:	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.
PO3:	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.
PO4:	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.
PO5:	Select and apply appropriate modern theories and techniques including cognitive, psychological, biological, cultural, and social factors for language study and research.
PO6:	Gain exposure to attain knowledge and understand interdisciplinary and multidisciplinary linguistic and literary approaches.
PO7:	Acquire professional and intellectual integrity, code of conduct and ethics on communicational practices, understanding responsibilities and norms for sustainable development of society.
PO8:	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.
PO9:	Understand the aesthetic and scientific concepts of language and demonstrate the knowledge as a skilled person in teams and multidisciplinary tasks in their profession.
PO10:	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

PSO1:	Helps to know different registers in Tamil
PSO2:	Makes students a better understanding of Tamil
PSO3:	Ambiguous sentences are aimed at Tamil
PSO4:	Different genres are introduced
PSO5:	Medical varieties of Tamil is introduced

Course-1. ACOUSTICS AND INSTRUMENTAL PHONETICS

Learning Objectives

- ❖ To provide the concepts of phonetic description and phonological analysis
- ❖ To drive current research in general phonetics, experimental phonetics and phonetics of English and Major Indian Languages
- ❖ To emphasize the current issues in phonetics of English and Major Indian Languages
- ❖ To get exposure on the nature of research questions and how to evaluate relevant literature.
- ❖ To enhance students' knowledge in understanding of research methods.

UNIT - 1 Basic concepts:

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, 1965, Direct palatography studies in phonetics and Linguistics. London: OUP.

2. Firth, J. 1951, Word palatogram and articulation, papers in Linguistics. London: OUP.
3. Fry, D.B. 1979. The Physics of Speech. Cambridge: Cambridge University Press
4. Ladefoged, P., 1966. Elements of Acoustic Phonetics. London: Oliver and Doy.
5. Pike, K. L. 1964, *Phonetics*. USA: The University of Michigan Press.

Supplementary Readings:

1. Bloch, B. & Trager, G. L. 1972, *Outline of Linguistic analysis*, USA Baltimore, USA.
2. Catford, J. C. 1990, *A practical introduction to phonetics*, Edinburgh: Edinburgh University Press.
3. Cruttenden, A. 1986, *Intonation*, Cambridge: Cambridge University Press.
4. Heffner, R. M. S. 1950, *General Phonetics*, London: Wisconsin University Press.
5. Jones, D. 1964, *An outline of English phonetics*, Cambridge: Heffner & sons Ltd.

Outcome

After having trained , the students will be able to:

CO1:Justify the reason critically with logical arguments

CO2:Identify and classify the research problems and organization

CO3:Pose a cogent research questions and frame hypotheses

CO4:Exercise independence of thought

CO5: To describe acoustic characteristics of the speech in general

Outcome Mapping

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