

EFLU-SCHOOL OF LANGUAGE SCIENCES
MA LINGUISTICS PROGRAMME (SPECIALISED) SEMESTER III Aug – Nov 2018

MA Linguistics II Year

Core Courses

LS 194 - Language Acquisition	-	Prof. Shruti Sircar
LS 221 - Phonology II	-	Prof. Hemalatha Nagarajan

Elective Courses

LS 161 - Applied Linguistics	-	Dr. Hemanga Dutta
LS 175 - Quantitative Methods in Linguistics	-	Dr. Indranil Dutta
LS 176 - NLP with Python	-	Dr. Atreyee Sharma
LS 181- Natural Language Processing I	-	Dr. Rahul Balusu
LS 202 - Language Universals and Linguistic Typology	-	Dr. Anish Koshy
LS 212 - Syllable in Phonetic Theory	-	Prof. S. Jayaraju
LS 286 - Quantitative Corpus Linguistics	-	Dr. Rahul Balusu
LS 311 - Linguistic Phonetics	-	Prof. S. Jayaraju / Dr. Komali Prakash / Dr. Didla Grace
LS 341- Syntax III	-	Prof. M. Hari Prasad
LS 351 - Semantics III	-	Dr. Utpal Lahiri

Course Title	Language Acquisition
Course Code	LS 194
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Prof. Shruti Sircar
Course Descriptions:	<p>Language Acquisition is an introductory course designed to enable students to acquire an understanding of the process of language acquisition, including how children learn words, learn sounds and learn how to construct grammatically correct sentences. It provides students with the basic skills for carrying out child language acquisition research. Issues covered include collecting, describing and interpreting children's data and reporting research findings. Students will be given an opportunity to analyze some data from a child who is in the process of learning language.</p> <p>Preliminary Reading O'Grady (2005) <i>How Children Learn Language</i>. Cambridge University Press. Maria Teresa Guasti (2003) <i>Language Acquisition: the Growth of Grammar</i>. MIT Press.</p> <p>Students will be given a full reading list at the beginning of the semester.</p> <p>Journals that publish child language acquisition research include, <i>First Language</i>, <i>Language Acquisition</i>, <i>Journal of Child Language</i>, <i>Language Acquisition</i>, <i>Journal of Verbal Learning and Verbal Behaviour</i>.</p>
Evaluation Scheme	<p>Assessment</p> <ul style="list-style-type: none"> • Three quizzes (MCQ, short/long answers) 30% of the internal assessment • Short presentations – 10% of the internal assessment • Final examination – 60% of the final assessment

Course Title	Phonology II
Course Code	LS 221
Semester	III
No. of Credits	5
Name of Faculty Member(s)	Prof. Hemalatha Nagarajan
Course Descriptions:	<p>This course aims to familiarize students with:</p> <p>a. Lexical phonology and b. Optimality theory</p> <p>Lexical phonology examines the interaction between morphology and phonology and explains the morphologically-conditioned phonological rules in terms of different strata or levels.</p> <p>Optimality theory was introduced in the early 1990s as an alternative model of the organization of natural human language sound systems. This model does not have rules or rule-ordering but instead introduces <i>constraints</i> that are <i>ordered</i> and which are <i>violable</i>. In this course, the basic principles of optimality theory will be introduced and explained (GEN, CON, and EVAL). Three important constraint families will be explored (Faithfulness, Alignment, and Markedness). The course examines recurring issues in phonological theory and shows how optimality theory might account for them.</p> <p>This course will give you hands-on experience in analyzing data (from known and unknown languages) and equip you for research in the area of phonology.</p> <p>Pre-requisite: Basic Issues in Phonology (but not mandatory)</p>
Evaluation Scheme	<p>40 % Internal: 3 Tests (Open Book)</p> <p>60% External-Semester-end examination- (Open Book)</p>

Course Title	Applied Linguistics
Course Code	LS 161
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Hemanga Dutta
Course Descriptions:	<p>The course intends to focus on the applied aspects of linguistics such as Neurolinguistics, Sociolinguistics and Policy making and Language teaching</p> <ol style="list-style-type: none"> 1. Language and Brain: connectionist, hierarchical, global and process model 2. Language disorders: Aphasia, Dyslexia, Schizophrenia, Autism, Cerebral Palsy, Stuttering, Acalculia, Mothers depression, Dysarthria etc. 3. Developmental milestones of Language acquisition 4. Language and society with special reference to dialectology, language attitude and linguistic landscape studies 5. Language Planning, Tribal and endangered language studies 6. Language advantage and Indian constitution 7. Language teaching methods: direct, indirect, audio lingual, communication method etc 8. Syllabus, materials and techniques of language teaching.
Evaluation Scheme	1 mid sem + 1 term paper + Final exam Assignments 40% 60%

Course Title	Quantitative Methods in Linguistics
Course Code	LS 175
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Indranil Dutta
Course Descriptions:	<p>This course is an introduction to using statistical methods for linguistic analysis. In the past decade or so, linguists of all persuasions have relied extensively on statistical methods, both for unearthing patterns and seeking generalizations. This includes attempts to model linguistic behavior in quantitative terms, and also using model-theoretic approaches along with empirical methods. In that respect, the primary goal of this course is for us to learn statistical methods, tests and techniques to further this ‘statistical’ turn in linguistic analyses. We will follow the primary textbook that outlines the uses of statistical 1 methods for most all sub-disciplines of linguistics. In addition, we will read supplementary material from the recommended readings. The expectation at the conclusion of the course is that you will be able to design your own studies, perform statistical analyses, present your results and use advanced data visualization techniques to advance your arguments. The topics that we will cover will include the following but are not limited to:</p> <ul style="list-style-type: none"> • Central limit function • Normal, chi-square and F-distribution • Analysis of Variance (ANOVA) • Linear and logistic regression • Principal component analysis (PCA) • Multi-dimensional scaling (MDS) • Mixed-effects modeling
Evaluation Scheme	Weekly quiz 10%, Weekly homework 10%, Midterm examination 20%, Final examination 60%

Course Title	NLP with Python
Course Code	LS 176
Semester	III
No. of Credits	5
Name of Faculty Member(s)	Dr. Atreyee Sharma
Course Description: 150/200 words	<p>The aim of this course is to learn basic natural language data manipulation using the Natural Language Toolkit (NLTK), a set of open source libraries which are a part of the Python development environment. Students will learn basic Python functions to achieve simple text processing and manipulation tasks. These will involve regular expressions for normalizing and tokenizing text; word and sentence level segmentation of large unannotated corpora; Part-of-Speech (POS) tagging algorithms and implementation; supervised classification of text and evaluation of classification methods.</p> <p>Reading list: Bird, Steven, Ewan Klein, and Edward Loper. 2009. Natural Language Processing with Python. O'reilly Publishing. Perkins, Jacob. 2010. Python Text Processing with NLTK 2.0 Cookbook. Packt Publishing.</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	Natural Language Processing I
Course Code	LS 181
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Rahul Balusu
Course Descriptions:	<p>A largely non-technical introduction to computational morphology, syntax & semantics, and information retrieval. Survey of natural language processing applications for parsing and information processing. Presentation of tools and resources needed for NLP applications.</p> <p>Topics: Essential algorithms for processing word classes and structured relationships among words, part-of- speech taggers based on HMMs and transformation-based learning, CYK and Early algorithms for parsing, unification and typed feature structures, lexicalized and probabilistic parsing, analytical tools like the Chomsky hierarchy and the pumping lemma, first order predicate calculus and other ways of representing meaning, applications to information retrieval, extraction, speech understanding, and machine translation.</p>
Evaluation Scheme	Mid term: Final: 40: 60

Course Title	Language Universals and Linguistic Typology
Course Code	LS 202
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Anish Koshy
Course Descriptions:	<p>This course is an introduction to the principles and practices of linguistic typology, i.e. the cross-linguistic comparison of languages independent of their historical and geographical connections. Typologists examine variation between languages in terms of their structural characteristics and account for the distribution of the variation encountered. The course will help students understand the key methodological principles of typology and have a greater understanding of the ways in which languages are similar (linguistic universals) and different (linguistic diversity). The course covers half of the prescribed syllabus for Unit IX of Paper (III) of the UGC NET (Linguistics) examination.</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	Syllable in Phonetic Theory
Course Code	LS 212
Semester	III
No. of Credits	05
Name of Faculty Member(S)	Prof. S. Jayaraju
Course Descriptions:	(SPT) offers the certain basic research-oriented insights into the concept of syllable-- a basic suprasegmental unit. The course exposes the participants to different linguistic treatments of syllable. It requires four contact hours a week, where classroom instruction, interaction, and presentations are paramount. The tentative topics targeted to be covered on the course are – <i>The concept and History of Syllable, Segments and their Role in Syllable Structure, Syllabification, Syllable and Connected Speech, Syllable Phonotactics, and Different Treatments of syllable.</i>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	Quantitative Corpus Linguistics
Course Code	LS 286
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Rahul Balusu
Course Descriptions:	<p>This course is a comprehensive introduction to corpus linguistics and corpus-based methods using R. A part of the course will be devoted to learning about usage-based investigations of linguistic representations. Additionally, while learning about how to collect and work with available text and speech corpora, we will also learn corpus based methods that have enriched our understanding of semantics, pragmatics, sociolinguistics, discourse analysis, forensics, statistical methods in speech and language processing, diachronic linguistics, lexicographic and lexical studies, and second language studies. To that end, apart from familiarizing ourselves with various text and speech analysis softwares we will also learn minimal programming in R and Perl. This course will also involve using the tools and techniques learnt in the course to develop projects where linguistically-informed hypotheses will be put to test on large Indian language corpora.</p> <p><i>Prerequisite: LS181</i></p>
Evaluation Scheme	Mid term: Final: 40: 60

Course Title	Linguistic Phonetics
Course Code	LS 311
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Prof. S.Jayaraju / Dr.Komali Prakash / Dr. Didla Grace
Course Descriptions:	Initiation: air stream mechanism; phonation: phonatory stricture types, combination of stricture types, locations for phonation, and voicing and aspiration; articulation; stricture types, location and co-articulation; prosodic features: stress, rhythm and intonation; acoustic properties of speech sounds: frequency, resonance and amplitude; spectrographic analysis: formants, harmonics, duration, broad-band and narrow-band, section; acoustic descriptions of vowels, consonants; practice in ear training; instrumental work in the laboratory
Evaluation Scheme	Mid term: Final: 40: 60

Course Title	Syntax III
Course Code	LS 341
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Prof. M. Hari Prasad
Course Descriptions:	This course aims at introducing fundamental goals and techniques of current syntactic theory. It mainly focuses on the Minimalist theory. It puts the students in a position to pursue more advanced study of the structure of human languages and provides a foundation for research. The course also helps students continue to develop hypothesis setting and problem solving skills. As part of the course, the students are expected to critically read some original papers on syntax published, specifically, in 1990s.
Evaluation Scheme	Midterm: Final: 40: 60

Course Title	Semantics III
Course Code	LS 351
Semester	III
No. of Credits	5
Name of Faculty Member(S)	Dr. Utpal Lahiri
Course Descriptions:	<p>Tentatively the following topics are to be covered (but changes based on the students' background/need shall be made after enrolment):</p> <ol style="list-style-type: none"> 1. The syntax of adverbs (Jackendoff, Lisa Travis, G. Cinque) 2. Connections between the syntax of adverbs and the semantics of adverbs (Stalnaker and Thomason, McConnell-Ginet, Higginbotham) 3. The syntax of the left periphery with special attention to modals, especially epistemic vs. root modals (Jackendoff, Picallo, Cinque) 4. The semantic consequences of (3) (works by Kratzer, Hacquard, Homer) <p>Articles will be assigned from various textbooks, journals, and research surveys.</p>
Evaluation Scheme	Term Paper