

EFLU-SCHOOL OF LANGUAGE SCIENCES
MA LINGUISTICS PROGRAMME (CAFETERIA MODE) TIMETABLE SEMESTER II/IV
JAN – April 2019

MA Linguistics (Cafeteria Mode)

Core Courses

LS 101 - Introduction to Sociolinguistics	-	Dr. Hemanga Dutta
LS 121 - Phonology I	-	Dr. Hemanga Dutta
LS 211 - The Phonetics of English	-	Dr. Komali Prakash
LS 241 - Syntax II	-	Prof. P. Madhavan

Elective Courses

LS 165 - An Introduction to Psycholinguistics	-	Prof. Shruti Sircar
LS 186 - Introduction to Corpus Linguistics	-	Dr. Atreyee Sharma
LS 188 - Introduction to HPSG	-	Prof. M Hari Prasad
LS 252 - Advanced Semantics	-	Dr. Utpal Lahiri
LS 269 - Advanced English Grammar	-	Dr. Dominic Savio
LS 281 - NLP II	-	Dr. Rahul Balusu
LS 282 - Digital Signal Processing for Linguistics	-	Dr. Indranil Dutta
LS 288 - Introduction to Human Sentence Processing	-	Dr. Atreyee Sharma
LS 289 - Natural Language Understanding and Knowledge Representation	-	Dr. Rahul Balusu
LS 291 - Introduction to Neurolinguistics	-	Prof. Hemalatha Nagarajan
IND 304 - Phonetics: Indian Tradition	-	Dr. Nilakantha Dash
LS 354 - Topics in Syntax and Semantics	-	Dr. Utpal Lahiri
LS 363 - Seminar in Psycholinguistics: Sentence Processing	-	Prof. Shruti Sircar
LS 387 - Artificial Neural Networks and Deep Learning for NLP	-	Dr. Indranil Dutta

Course Descriptions

Course Title	Introduction to Sociolinguistics
Course Code	LS 101
Semester / Intake	II/IV - 30
No. of Credits	5
Name of Faculty Member(S)	Dr. Hemanga Dutta
Course Descriptions:	This course deals with the following topics: Linguistic Variables and Social factors Interface of Language and Society, Language, dialect continuum, Language Planning, Tribal and Endangered Languages, Bilingualism and Multilingualism, Speech Community, Language and Gender, Language and Education, Language Caste and Class, Pidgin and Creole, English in India: Pre Independence and Post Independence, Language and advantage, Sociolinguistic aspects of non native varieties of English (with special reference to Indian English) Phonological, syntactic, lexical, and cultural; the users and uses of Indian English.
Evaluation Scheme	One Mid Term – 20% One Term Paper and Presentation – 20% End Sem Final Test – 60%

Course Title	Phonology I
Course Code	LS 121
Semester / Intake	II/IV - 35
No. of Credits	5
Name of Faculty Member(S)	Dr. Hemanga Dutta
Course Descriptions:	<p>This course deals with the following topics: Phonetics Phonology interfaces; Sounds and their distinctive feature specifications, natural class; binary and private features; natural rule; predicative power of phonology rules; rule ordering; types of rule ordering, types of phonological rule. Phonological structure. Phonological Alternation, Abstract – Concrete Hypothesis, Syllabification, Stress, Prosodic and Metrical Phonology, Auto segmental Phonology and well formedness condition, Natural Phonology, CV Phonology, Lexical Phonology and Stratum Ordering. Basic Issues in Optimality Theory – Faithfulness and Markedness rules.</p>
Evaluation Scheme	<p>Mid Term – 20 Term Paper and Presentation – 20 End Term Test - 60</p>

Course Title	The Phonetics of English
Course Code	LS-211
Semester / Intake	II/IV – 30 students 15 students (MA Specialized) 15 students (MA Cafeteria)
No. of Credits	5
Name of Faculty Member(s)	Dr. Komali Prakash
Course Description: 150/200 words	Accents of English: native and non-native; allophonic variants of English vowels and consonants; phonetic transcription; suprasegmental features; features of connected speech; phonetic features that effect intelligibility
Prerequisite	LS 111
Evaluation Scheme	Internal - 40% External – 60%

Course Title	Syntax - II
Course Code	LS 241
Semester/ Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Prof. P. Madhavan
Course Description: 150/200 words	<p>This course begins with Government and Binding theory and leads the learners to basics of Minimalism. The topics covered in this course are as follows:</p> <p>Morphosyntactic features Theta roles and constituency Building Phrase Structure Functional category - TP Subjects and Objects Functional category – DP Functional category – CP Wh Movement Locality principles</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	An Introduction to Psycholinguistics
Course Code	LS 165
Semester/Intake	II/IV – 20
No. of Credits	5
Name of Faculty Member(s)	Prof. Shruti Sircar
Course Description: 150/200 words	<p>This course is an introduction to psycholinguistics, the study of how individuals comprehend, produce, and acquire language. As part of the larger field of cognitive science, psycholinguistics is an interdisciplinary field shaped by research in psychology, linguistics, artificial intelligence, neuroscience, and Philosophy. We will primarily be concerned with questions such as: what does it mean to know a language? What are the cognitive processes involved in language use? What social rules are associated with language use? What brain mechanisms are active in language use?</p>
Evaluation Scheme	40= Assignment, 60= Written test

Course Title	Introduction to Corpus Linguistics
Course Code	LS 186
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Atreyee Sharma
Course Description: 150/200 words	<p>Corpus linguistics is a method of carrying out linguistic analyses. Tentatively the following topics are to be covered (but changes based on the students' background/need shall be made after enrollment):</p> <ul style="list-style-type: none"> i. Corpora (Text, Speech & Sign): Concept & Classification ii. Encoding (Concept of Font & Encoding; ASCII, ISCII & Unicode) iii. Balanced Corpus: Concept, Development & Challenges iv. Linguistic knowledge & Corpus: Annotation & Extraction v. Corpus Utilities & Corpus analysis tools (Transliteration, Frequency, N-gram, KWIC-KWOC, Concordances, etc) <p>Articles will be assigned from various textbooks, journals, and research surveys</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	Introduction to HPSG
Course Code	LS 188
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Prof. M. Hari Prasad
Course Description: 150/200 words	<p>Corpus linguistics is a method of carrying out linguistic analyses. Tentatively the following topics are to be covered (but changes based on the students' background/need shall be made after enrollment):</p> <ul style="list-style-type: none"> i. Corpora (Text, Speech & Sign): Concept & Classification ii. Encoding (Concept of Font & Encoding; ASCII, ISCII & Unicode) iii. Balanced Corpus: Concept, Development & Challenges iv. Linguistic knowledge & Corpus: Annotation & Extraction v. Corpus Utilities & Corpus analysis tools (Transliteration, Frequency, N-gram, KWIC-KWOC, Concordances, etc) <p>Articles will be assigned from various textbooks, journals, and research surveys</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	Advanced Semantics
Course Code	LS 252
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Utpal Lahiri
Course Description: 150/200 words	<p>This course is a continuation of Formal Semantics I (LS 152), and is intended to give a basic introduction to advanced topics not covered in LS 152. Topics include: Generalized Quantifier Theory; Lambda Calculus; Intensional Phenomena including but not limited to: modality, propositional attitudes, tense, aspect; Anaphora and Indexicals.</p> <p>Prerequisite: LS 152 or equivalent.</p> <p>Recommended texts: Chierchia, G. and S. McConnell-Ginet (2000). <i>Meaning and Grammar</i>. MIT Press (2nd Edition)</p> <p>Heim, I. and von Stechow (2007). <i>Notes on Intensional Semantics</i>. Ms., MIT (downloadable)</p>
Evaluation Scheme	Homeworks (25%), Midterm Exam (25%), Final Exam (50%).

Course Title	Advanced English Grammar
Course Code	LS 269
Semester / Intake	II/IV – 10 students
No. of Credits	5
Name of Faculty Member(S)	Dr. Dominic Savio
Course Descriptions:	<p>This is an introductory course in English grammar and usage. Familiarity with the categorical labels, functional labels and basic concepts of English grammar is a prerequisite for this course. Those who have already studied the basic grammar of English can opt for this course. The entire course is based on</p> <p>“ A comprehensive grammar of the English Language” by Radolph Quirk.</p>
Evaluation Scheme	Mid-term: Final::40:60

Course Title	LS 281
Course Code	NLP- II
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(S)	Dr. Rahul Balusu
Course Prerequisites:	NLP I
Course Descriptions:	We will cover topics in Computational Syntax like CFGs, Tree banks, HPSG, Parsing; topics in Computational Semantics like Vector Semantics, Word Sentiment, Word Senses, and Word Net; topics in Information Retrieval and Extraction like NER, Index construction, Term weighting and optimization, Search systems, Text classification and clustering.
Evaluation Scheme	Midterm: Final::40:60

Course Title	LS 282
Course Code	Digital Signal Processing for Linguistics
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(S)	Dr. Indrani Dutta
Course Descriptions:	<p>This course will bring together information from the engineering discipline of Digital Signal Processing (DSP), such as is relevant for linguistics, especially speech processing. We will simultaneously review material from both DSP and acoustic phonetics that will help advance our understanding of not only speech production and perception but also help us examine how our understanding of the basic mechanisms of digital and analog processing impacts current approaches to Automatic Speech Recognition (ASR) and Text-to-Speech Synthesis (TTS). The topics that we will cover will include the following: Discrete Fourier Transform (DFT), Fast Fourier Transform (FFT), Quantization and Sampling, Digital Filters: High-Pass, Band-Pass and Band-Reject Filters, Glottal and Supra-glottal source modeling, Acoustics of vocal tract resonators, Basic auditory processing, Basic introduction to quantal theory, perturbation theory and source-filter theory, Noise spectra</p>
Evaluation Scheme	Midterm: Final::40:60

Course Title	Introduction to Human Sentence Processing
Course Code	LS 288
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Dr. Atreyee Sharma
Course Description: 150/200 words	<p>This course is a continuation of Formal Semantics I (LS 152), and is intended to give a basic introduction to advanced topics not covered in LS 152. Topics include: Generalized Quantifier Theory; Lambda Calculus; Intensional Phenomena including but not limited to: modality, propositional attitudes, tense, aspect; Anaphora and Indexicals.</p> <p>Prerequisite: LS 152 or equivalent.</p> <p>Recommended texts: Chierchia, G. and S. McConnell-Ginet (2000). <i>Meaning and Grammar</i>. MIT Press (2nd Edition)</p> <p>Heim, I. and von Stechow (2007). <i>Notes on Intensional Semantics</i>. Ms., MIT (downloadable)</p>
Evaluation Scheme	Homeworks (25%), Midterm Exam (25%), Final Exam (50%).

Course Title	Natural Language Understanding and Knowledge Representation
Course Code	LS 289
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Dr. Rahul Baulusu
Course Description: 150/200 words	We will span the lexical semantics, compositional semantics and semantics-discourse continuum of understanding natural language and constructing semantic representations of sentences, dialogues, discourses, and other large chunks of text from the semantic representations of much smaller and basic building blocks of text by using continuous and scalar tools in the NLP toolbox like vectors, relation instances, and logical forms in the larger context of vector space models, relation extraction, semantic modelling and knowledge representations, especially ontologies, and thus learn how to build explicit models for semantic interpretation from knowledge contained in words, sentences, dialogue, and documents written in natural language, and ultimately benefit from the interlinked nature of these pieces.
Evaluation Scheme	Midterm: Final::40:60

Course Title	Introduction to Neuro Linguistics
Course Code	LS 291
Semester / Intake	II/IV – 30
No. of Credits	5
Name of Faculty Member(S)	Prof. Hemalatha Nagarajan
Course Descriptions:	Biological foundations of language, the brain mechanisms involved in the acquisition and use of language; phenomena like the ‘tip of the tongue’ state, slips of the tongue, aphasia; specific language impairment. (provides guidance for carrying out research projects in the area.)
Evaluation Scheme	Mid term: Final: 40: 60

Course Title	Phonetics: Indian tradition
Course Code	IND.304
Semester	II/IV
Class Hours:	3-5 pm Tuesday &Thursday
No. of Credits	5
Name of the faculty member	Dr. Nilakantha Dash
Course Description	<p>This course aims at discussion of phonetics as presented by Panini and ancient Indian texts of pratisakhya. A close reading of these texts will be done.</p> <p>Paniniyasiksha Taittiriya-Pratishakhya.</p>
Evaluation Scheme	Assignment: final written test (40:60).

Course Title	Topics in Syntax and Semantics
Course Code	LS 354
Semester / Intake	II/IV - 30
No. of Credits	5
Name of Faculty Member(s)	Dr. Utpal Lahiri
Course Description: 150/200 words	This course deals with advanced topics in semantics and the syntax-semantics interface, intended for research scholars and advanced MA/MCL students who have the relevant background. The choice of topics will depend on the interests of the tutor and the students taking the course, and varies from year to year. The topics could include (partial list): modality, adjectival and adverbial modification, questions, imperatives, quantification theory, tense and aspect and their interactions with modality.
Evaluation Scheme	Term Paper

Course Title	Seminar in Psycholinguistics: Sentence Processing
Course Code	LS 363
Semester / I take	II/IV – 10
No. of Credits	5
Pre-Requisite	An Introduction to Psycholinguistics or Basic Issues in Syntax
Name of Faculty Member(s)	Prof. Shruti Sircar
Course Description: 150/200 words	This is a seminar on the acquisition and processing of language by children and adults. We will discuss the acquisition and processing of morpho-syntax and semantics. We will discuss both the process of acquisition and the competing theoretical explanations of that process. Particular emphasis will be placed on discovering the mechanisms children possess that enable them to learn language, and the resulting impact of those mechanisms on languages themselves. The course will also include the psycholinguistics of sentence processing with emphasis on syntactic parsing, semantic understanding, (3) anaphora resolution, including special foci on the role of prosody and on the semantics of space.
Evaluation Scheme	Grades will be based on the facilitation of the group discussion (10%), weekly class presentation and contribution of discussion questions (10%), quiz (20%) and a final paper (60%).

Course Title	Artificial Neural Networks and Deep Learning for NLP
Course Code	LS 387
Semester / I take	II/IV – 30
No. of Credits	5
Name of Faculty Member(s)	Dr. Indranil Dutta
Course Description: 150/200 words	Artificial neural networks have near revolutionized big data analytics. In this course we will apply deep learning to some speech and natural language processing tasks. Students will be exposed to various types of network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, Autoencoders, LSTMs, Generalized Adversarial Networks. We will also learn to execute training and testing data with these architectures with Tensor Flow.
Evaluation Scheme	Mid term: Final: 40: 60