

SSN COLLEGE OF ENGINEERING, KALAVAKKAM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject : NATURAL LANGUAGE PROCESSING
 Sub. Code : CS6011
 Staff Incharge: D. Thenmozhi & B. Senthil Kumar

Class : VIII Sem A/B Sec
 Acad. Year: 2016-2017
 Batch : 2013-17

LESSON PLAN

Content Delivery Methods (CDM) : Powerpoint presentations\Projector\Use of ICT\Chalk and Blackboard (for all topics); T: Tutorial

SNo	Topic	CDM	No of Periods		Deviations if any
			Proposed	Actual	
UNIT – I [OVERVIEW AND LANGUAGE MODELING]			9		
1	Overview: Origins and challenges of NLP		2		
2	Language and Grammar		1		
3	Processing Indian Languages		1		
4	NLP Applications		1		
5	Information Retrieval		1		
6	Language Modeling: Various Grammar- based Language Models		2		
7	Statistical Language Model		1		
UNIT – II [WORD LEVEL AND SYNTACTIC ANALYSIS]			11		
8	Word Level Analysis: Regular Expressions		1		
9	Finite-State Automata	T	2		
10	Morphological Parsing	T	1		
11	Spelling Error Detection and correction		1		
12	Words and Word classes		1		
13	Part-of Speech Tagging		1		
14	Syntactic Analysis: Context-free Grammar		1		
15	Constituency Parsing	T	1		
16	Probabilistic Parsing	T	2		
UNIT – III [SEMANTIC ANALYSIS AND DISCOURSE PROCESSING]			10		
17	Semantic Analysis: Meaning Representation		1		
18	Lexical Semantics		1		
19	Ambiguity		1		
20	Word Sense Disambiguation		2		
21	Discourse Processing - cohesion		1		
22	Reference Resolution	T	2		
23	Discourse Coherence and Structure		2		
UNIT – IV [NATURAL LANGUAGE GENERATION AND MACHINE TRANSLATION]			9		
24	Natural Language Generation: Architecture of NLG Systems		1		
25	Generation Tasks and Representations		2		

26	Application of NLG		1		
27	Machine Translation: Problems in Machine Translation		1		
28	Characteristics of Indian Languages		1		
29	Machine Translation Approaches		2		
30	Translation involving Indian Languages		1		
UNIT – V [INFORMATION RETRIEVAL AND LEXICAL RESOURCES]			9		
31	Information Retrieval: Design features of Information Retrieval Systems		1		
32	Classical & Non-classical IR		1		
33	Alternative Models of Information Retrieval		1		
34	Evaluation of IR systems		1		
35	Lexical Resources: World Net , Frame Net		2		
36	Stemmers		1		
37	POS Tagger		1		
38	Research Corpora		1		

Total Periods: 48

Prepared by

Verified by

Approved by

D. Thenmozhi

PAC team

HOD-CSE