DON BOSCO INSTITUTE OF TECHNOLOGY, MUMBAI - 400 070

Department of Computer Engineering

(Academic Year ODD Semester 2023–2024)

Course Code and Name: CSDC7013 – Natural Language Processing (BE 7th Sem)

IA-2 SYLLABUS

NLP	Module No.	Topics
	1	Module 4: Semantic Analysis Introduction, meaning representation; Lexical Semantics; Corpus study; Study of Various language dictionaries like WorldNet, Babelnet; Relations among lexemes & their senses Homonymy, Polysemy, Synonymy, Hyponymy; Semantic Ambiguity; Word Sense Disambiguation (WSD); Knowledge based approach(Les's Algorithm), Supervised(Naive Bayes, Decision List),Introduction to Semi-supervised method (Yarowsky) Unsupervised (Hyperlex)
	2	Module 5: Pragmatic & Discourse Processing Discourse: Reference Resolution, Reference Phenomena, Syntactic & Semantic constraint on coherence; Anaphora Resolution using Hobbs and Cantering Algorithm
	3	Module 6: Applications of NLP Case studies on (preferable in regional language): Machine translation; Text Summarization; Sentiment analysis; Information retrieval; Question Answering system