



Jodhpur Institute of Engineering & Technology
SYLLABUS
Branch: CSE (AI and ML)

Syllabus - VI Semester
6AIML4-22: Natural Language Processing Lab

Credits: 1.5
0L+0T+3P

Max. Marks: 75 (IA:45, ETE: 30)
End Term Exam: 3 Hours

S.No.	Objectives
1	Convert the text into tokens
2	Find the word frequency
3	Demonstrate a bigram language model
4	Demonstrate a trigram language model
5	Generate regular expressions for a given text.
6	Perform Lemmatization
7	Perform Stemming
8	Implement RNN for sequence labeling
9	Build a Chunker
10	Find the synonym of a word using WordNet
11	Implement semantic role labeling to identify named entities
12	Translate the text using First-order logic
13	Implement RNN for sequence labelling
14	Implement POS tagging using LSTM
15	Word sense disambiguation by LSTM/GRU

Suggested References/Books:

1. Jurafsky, D. and J. H. Martin, Speech and language processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition (2nd Edition). Prentice-Hall, 2008
2. Natural Language understanding by James Allen, Pearson Education 2008
3. NLP: A Paninian Perspective by Akshar Bharati, Vineet Chaitanya, and Rajeev Sangal, Prentice Hall 1995
4. Natural language processing in Prolog by Gazdar, & Mellish, Addison-Wesley 1989