



**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY,
EAST DELHI CAMPUS,
SURAJMAL VIHAR-110092**

Semester: 6th												
Paper code: AIML316P								L	T/P	Credits		
Subject: Natural Language Processing Lab								0	2	1		
Marking Scheme												
1. Teachers Continuous Evaluation: As per university examination norms from time to time												
2. End term Examination: As per university examination norms from time to time												
INSTRUCTIONS TO EVALUATOR: Maximum Marks: As per university norms												
1. This is the practical component of the corresponding theory paper.												
2. The practical list shall be notified by the teacher in the first week of the class commencement under the intimation to the office of the HOD/ Institution in which they appear is being offered from the list of practicals below.												
3. Instructors can add any other additional experiments over and above the mentioned in the experiment list which they think is important.												
4. At least 8 experiments must be performed by the students.												
Course Objectives:												
1	To provide students with hands-on experience in applying NLP techniques to real-world problems. Students will learn to implement and evaluate various NLP algorithms, such as text classification, sentiment analysis, named entity recognition, and machine translation.											
2	To foster critical thinking and problem-solving abilities in NLP											
Course Outcomes:												
CO1	Develop proficiency in implementing and evaluating NLP techniques through practical exercises and projects.											
CO2	Enhance critical thinking and problem-solving abilities in NLP by analyzing, designing, and optimizing NLP models.											
Course Outcomes (CO) to Programme Outcomes (PO) Mapping												
(Scale 1: Low, 2: Medium, 3: High)												
CO/PO	PO01	PO02	PO03	PO04	PO05	PO06	PO07	PO08	PO09	PO10	PO11	PO12
CO1	2	2	1	1	1	1	-	2	2	-	1	1
CO2	2	2	2	3	3	2	1	2	2	1	-	2

LIST OF EXPERIMENTS:

- 1) Installation and set-up of Natural Language Tool Kit (NLTK)
- 2) Installation and set-up of WordNet libraries
- 3) Perform text tokenization using NLTK
- 4) Perform Part of Speech Tagging using NLTK
- 5) Analyzing unstructured data using Natural Language Tool Kit
- 6) Perform sentiment analysis on real-life data
- 7) Perform word sense disambiguation using WordNet
- 8) Perform text summarization using WordNet