DAYANAND SAGAR COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to VTU, Belagavi)

2nd Semester MTech.(Computer Science and Engg.)

Natural Language Processing

20SCS253

QUESTION BANK

	UNIT-1	Marks
1	Discuss the challenges of NLP or Discuss what makes natural language processing difficult	10
2	Explain in brief LFG with its structure types.	4
3	Explain Grammar concepts in NLP.	6
4	Explain the major applications of Natural Language processing with examples.	10
5	What makes Natural language processing difficult?	4
6	Distinguish Grammar based Language Models with statistical language Models	6
7	Summarize NLP levels of processing.	10
8	List and discuss various grammar based language models.	10
9	Classify different regular expressions used in NLP	6
10	Define deterministic finite state automation (DFA) Illustrate the same with an example	6
11	Define FSA, Design FSA that accepts the following language aa*bb* , ab*aa+b	6
12	Define FST and Illustrate generalized FST for regular and irregular noun stem as input.	6
13	List and Explain spelling error detection and correction algorithms.	6
14	Write an algorithm to compute the minimum edit distance between two words and also find the minimum edit distance between INTENTION and EXECUTION (such similar problems)	10
15	Summarize the working of morphological parser.	10
16	Distinguish between FSA and FST and construct FST for regular and irregular noun stem as input.	