1	e from the academic	PROCESSING year 2018 -2019)	
Course Code	SEMESTER - 18CS743	The same of the sa	- 146
Number of Contact Hours/Week	3:0:0	CIE Marks	40
Total Number of Contact Hours	40	SEE Marks	60
of contact Hours	CREDITS -3	Exam Hours	03
Course Learning Objectives: This co	UNITED (1905742)	11	
Module – 1	ouise (18C3743) Will 6	enable students to:	
			Contac
Overview and language modeling: (Overview: Origins an	d challenges of MLD I -	Hours
and Grammar-Processing Indian La. Language Modeling: Various Gramm Model. Textbook 1: Ch. 1,2 RBT: L1, L2, L3			
Module – 2			
Word level and syntactic analysis: State Automata-Morphological Person			
Word classes-Part-of Speech Taggi Constituency- Parsing-Probabilistic Par Textbook 1: Ch. 3,4 RBT: L1, L2, L3	no Syntactic Apal		
Module – 3			
Extracting Relations from Text: Fron Introduction, Subsequence Kernels for Relation Extraction and Experimental E Mining Diagnostic Text Reports Introduction, Domain Knowledge and Role Labeling, Learning to Annotate Can Case Study in Natural Language I	Relation Extraction, A valuation. by Learning to A Knowledge Roles, Fr ses with Knowledge R	nnotate Knowledge R ame Semantics and Sem	Roles:
A Case Study in Natural Language I GlobalSecurity.org Experience. Textbook 2: Ch. 3,4,5 RBT: L1, L2, L3	Based Web Search: 1	nFact System Overview,	, The
Cextbook 2: Ch. 3,4,5		InFact System Overview,	

Module - 5

INFORMATION RETRIEVAL AND LEXICAL RESOURCES: Information Retrieval: Design features of Information Retrieval Systems-Classical, Non classical, Alternative Models of Information Retrieval - valuation Lexical Resources: World Net-Frame Net-Stemmers-POS Tagger- Research Corpora.

Textbook 1: Ch. 9,12

RBT: L1, L2, L3

Course outcomes: The students should be able to:

- Analyze the natural language text.
- Define the importance of natural language.
- Understand the concepts Text mining.
- Illustrate information retrieval techniques.

Question paper pattern:

- The question paper will have ten questions.
- There will be 2 questions from each module.
- Each question will have questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

- Tanveer Siddiqui, U.S. Tiwary, "Natural Language Processing and Information Retrieval",
- 2. Anne Kao and Stephen R. Poteet (Eds), "Natural LanguageProcessing and Text Mining",

Reference Books:

- 1. Daniel Jurafsky and James H Martin, "Speech and Language Processing: Anintroduction to Natural Language Processing, Computational Linguistics and SpeechRecognition", 2nd Edition, Prentice Hall, 2008.
- 2. James Allen, "Natural Language Understanding", 2nd edition, Benjamin/Cummingspublishing
- 3. Gerald J. Kowalski and Mark.T. Maybury, "Information Storage and Retrieval systems", Kluwer

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