

Branch Name:	Artificial Intelligence & Data Science
Program Code:	ET108
Semester/Year:	Semester VI/ Third Year
Course Name:	Information Retrieval Practical
Course Code:	2ET1080603P
Pre-requisite:	Basics of Machine Learning

Course Objective:

1. Learn to write code for text indexing and retrieval.
2. Learn to evaluate information retrieval systems
3. Learn to analyze textual and semi-structured data sets
4. Learn to evaluate information retrieval systems
5. Learn about text similarity measure
6. Understanding about search engine
7. Text Classification

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	SEE		CCE		SEE		CCE						
	L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
	1	-	-	2	2	-	-	-	-	10	25	10	

Sr. No	List of Practical	Content Hours
1.	Implementation of various classification algorithm on text	2
2.	Implementation of various Clustering algorithm on text	2
3.	Implement Domain specific Search Engine	2
4.	Social media analytic	2
5.	Design and development of Question/Answering System	2
6.	IR from Micro blog	2
7.	Various track at TREC 2015 conference (students will be encouraged to participate in such track) • Clinical Decision Support Track • Contextual Suggestion Track • Microblog Track • Temporal Summarization Track • Tasks Track	2
8.	Various track at CLEF 2015 Conference(students will be encouraged to participate in below track) • Linked Data Track • Tweet Contextualization track • Relevance Feedback Track	2

List of Reference Books:

1. Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to Information Retrieval, Cambridge University Press. 2008. <http://nlp.stanford.edu/IR-book/information-retrieval-book.html>
2. ChengXiang Zhai, Statistical Language Models for Information Retrieval (Synthesis Lectures Series on Human Language Technologies), Morgan & Claypool Publishers, 2008.
3. <http://www.morganclaypool.com/doi/abs/10.2200/S00158ED1V01Y200811HLT 001>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Understand comprehend the key concepts of clustering algorithm	1. Remembering 2. Understanding
CLO2	Learn representation of Various track at CLEF 2015	2 Understanding 5. Evaluate
CLO3	Learn IR from Micro blog	4. Analyze
CLO4	Learn Implement Domain specific Search Engine	2 Understanding 5. Evaluate

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4
CLO1					L	H	L				L	H	H	M	L	
CLO2	H		M	M	L					L	L	M		M	L	
CLO3		M	L		L		L							H		L
CLO4	H	M			L			L					L		M	H

H: High, M: Medium, L: Low