ITE3008	Information Retrieval	L T P J C
		3 0 0 4 4
Pre-requisite	ITE2006	Syllabus version
		1.0
Course Objective		
	assical techniques of Information Retrieval and extract n	• 1
•	ght into practical algorithms of textual document inde	xing, relevant ranking, web
	nalytics and their performance evaluations.	1: .: T.C:
•	e necessary experience to design, and implement app	lications using Information
Retrieval syste	SHIS	
Expected Course	Outcome:	
	ormation retrieval principles to locate relevant informa	tion in large collections of
data	simulation retrievant principles to receive relevant informa-	with in large concentions of
2) Implement	features of retrieval systems for web-based search tasks.	
3) Apply the	common algorithms and techniques for information re	etrieval related to document
	nd query processing	
4) Demonstra	te a thorough understanding and solid knowledge of the	principles and techniques of
human-cor	mputer interaction	
5) Implement	graphical user interfaces with modern software tools	
6) Develop ar	nd design interactive software systems applications for re	eal time applications
7) Design and	develop web applications for the effective informational	l retrieval
Student I comine	g Outcomes (SLO): 2, 14	
	ear understanding of the subject related concepts and of c	aantamnarary issuas
[14] An ability to	o design and conduct experiments, as well as to analyze a	and interpret data
Module:1 Intro	oduction	6 hours
Basic Concepts -	Retrieval Process – Modeling – Classic Information	
Algebraic and Pro	_	
	ieval Techniques	6 hours
Structured Text Ro	etrieval Models –Retrieval Evaluation –Word Sense Disa	ambiguation.
Module:3 Quei	ving	6 hours
_	Word based Querying – Pattern Matching – Structural Q	
	Feedback – Local and Global Analysis.	Qualify operations

1 <b>71</b> 0U	lule:4	Text Operations			6 hours
Docu	ıment I	Pre-processing – Clustering	g – Text Compress	sion - In	dexing and Searching – Inverted files
-Bo	olean (	Queries – Sequential search	ning – Pattern matc	hing.	
	lule:5	User Interface			6 hours
					1 – Access Process – Starting Points –
Quer	y Spec	ification - Context – User	relevance Judgmer	nt – Inte	face for Search.
Mod	lule:6	Applications			6 hours
Searching the Web – Challenges – Characterizing the Web					Search Engines – Browsing – Meta-
	_	Online IR systems – Onlin	•		
			Digital Libraries		
Mod	lule:7	Digital Libraries			6 hours
		0	Document Models,	Repres	6 hours entations and Access – Prototypes and
Intro		0	Document Models,	Repres	
Intro	ductior dards.	0	Document Models,	Repres	
Intro	duction	0	Document Models,	Repres	
Intro	ductior dards.	n – Architectural Issues – I	Document Models,	Repres	entations and Access – Prototypes and  3 hours
Intro	ductior dards.	n – Architectural Issues – I	Document Models,	Repres	entations and Access – Prototypes and  3 hours
Introd Stand	ductior dards.	Contemporary issues:  Total Lecture hours:	Document Models,	Repres	entations and Access – Prototypes and
Introd Stand Mod	duction dards.	Contemporary issues:  Total Lecture hours:			and Access – Prototypes and  3 hours  45 hours
Mod  Text  1. ]	duction dards. dule:8	Contemporary issues:  Total Lecture hours:  s)  Baeza-Yate, Berthier Richard Contemporary issues:			entations and Access – Prototypes and  3 hours
Mod  Text	duction dards. lule:8 Book( Ricardo Asia, 2	Contemporary issues:  Total Lecture hours:  Baeza-Yate, Berthier Ri			3 hours 45 hours
Mod  Text  1.   ]	duction dards. dule:8 Book( Ricardo Asia, 2	Contemporary issues:  Total Lecture hours:  s) Description: Baeza-Yate, Berthier Richards.  Books	ibeiro-Neto, Mode	ern Info	3 hours 45 hours  Tmation Retrieval, Pearson Education
Mod  Text  1.   1	Book( Ricardo Asia, 2 erence l	Contemporary issues:  Total Lecture hours:  Baeza-Yate, Berthier Richard Books howdhury, Introduction to	ibeiro-Neto, Mode	ern Info	3 hours 45 hours  Tmation Retrieval, Pearson Education
Text 1. 1 Refe:	Book(Ricardo Asia, 2	Contemporary issues:  Total Lecture hours:  Books  howdhury, Introduction to ders, 2010.	ibeiro-Neto, Mode	ern Info	3 hours 45 hours  Tmation Retrieval, Pearson Education
Text  1.   1  Reference of the second	Book( Ricardo Asia, 2 Prence I G.G. C Publish	Contemporary issues:  Total Lecture hours:  Baeza-Yate, Berthier Richard Books howdhury, Introduction to	ibeiro-Neto, Mode	ern Info	and Access – Prototypes and  3 hours  45 hours