

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology

Lesson plan of faculty member for the academic year 2016–17

Class: IV B Tech

Branch-Section: IT-B

Semester: I

Subject: Information Retrieval Systems

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
UNIT-I: Introduction, Retrieval Strategies		
1	Introduction	14 June 2016
2	Document Retrieval and Routing	16 June 2016
3	Vector Space Model	17 June 2016
4	Vector Space Model	18 June 2016
5	Tutorial (G1, G2, G3) - Examples for Retrieval Systems	15, 16, 18 June 2016
6	Probabilistic Retrieval Strategies	21 June 2016
7	Probabilistic Retrieval Strategies	23 June 2016
8	Simple Term Weights	24 June 2016
9	Non binary Independence model	25 June 2016
10	Tutorial (G1, G2, G3) - Retrieval Strategies	22, 23, 25 June 2016
11	Non binary Independence model	28 June 2016
12	Language Models	30 June 2016
13	Language Models	01 July 2016
14	Language Models	02 July 2016
15	Tutorial (G1, G2, G3) - Examples for Language Models	29, 30 June, 02 July 2016
16	Unit I Revision	05 July 2016
17	Class Test on Unit I	08 July 2016
UNIT-II: Retrieval Utilities		
18	Retrieval Utilities	09 July 2016
19	Tutorial (G3) - Retrieval Utilities	09 July, 2016
20	Retrieval Utilities	12 July 2016
21	Relevance Feedback	14 July 2016
22	Relevance Feedback	15 July 2016
23	Clustering	16 July 2016
24	Tutorial (G1, G2, G3) - Test on Language Models	13, 14, 16 July 2016
25	Clustering	19 July 2016
26	N-Grams	21 July 2016
27	N-Grams	22 July 2016
28	Regression Analysis	23 July 2016
29	Tutorial (G1, G2, G3) - Explanation of Relevance Feedback	20, 21, 23 July 2016
30	Regression Analysis	26 July 2016
31	Regression Analysis	28 July 2016
32	Thesauri	29 July 2016
33	Thesauri	30 July 2016
34	Tutorial (G1, G2, G3) - Explanation of Topics on N-Grams	27, 28, 30 July 2016
35	Revision of Unit II	02 August 2016
36	Class Test on Unit II	04 August 2016
UNIT-III: Retrieval Utilities		
37	Semantic Network	05 August 2016
38	Parsing	06 August 2016
39	Tutorial (G1, G2, G3) - Clarification of Doubts on previous topics	03, 04, 06 August 2016
40	Cross Language Information Retrieval	16 August 2016
41	Introduction	18 August 2016
42	Crossing the language barrier	19 August 2016
43	Crossing the language barrier	20 August 2016
44	Tutorial (G1, G2, G3) - Cross Language Examples	17, 18, 20 August 2016

45	Examples on Cross language Information retrieval	23 August 2016
46	Unit III Revision	26 August 2016
47	Class test on Unit III	27 August 2016
48	Tutorial (G1, G3) - Clarification of Doubts on previous topics	24, 27 August 2016
UNIT-IV: Efficiency		
49	Efficiency	30 August 2016
50	Inverted Index	01 September 2016
51	Inverted Index	02 September 2016
52	Query Processing	03 September 2016
53	Tutorial (G1, G2, G3) - Algorithms on Efficiency	31 August, 01, 03 September 2016
54	Signature files	06 September 2016
55	Signature files	08 September 2016
56	Duplicate Document detection	09 September 2016
57	Duplicate Document detection	10 September 2016
58	Tutorial (G1, G2, G3) - Test on class topics	07, 08, 09 September 2016
59	Unit IV revision	13 September 2016
60	Class test on Unit IV	15 September 2016
UNIT-V: Integrated Structured Data and Text		
61	Integrating structured data and text	16 September 2016
62	A Historical Progression	17 September 2016
63	Tutorial (G1, G2, G3) - Details about Structured Data	14, 15, 17 September 2016
64	A Historical Progression	20 September 2016
65	Information retrieval as a relational application	22 September 2016
66	Information retrieval as a relational application	23 September 2016
67	Semi structured search using a relational schema	24 September 2016
68	Tutorial (G1, G2, G3) - Retrieval as a relational application	21, 22, 24 September 2016
69	Semi structured search using a relational schema	27 September 2016
70	Distributed information retrieval	29 September 2016
71	A Theoretical model of distributed retrieval	01 October 2016
72	Tutorial (G1, G2, G3) - Discussion of previous question papers	28, 29 September, 01 October 2016
73	A Theoretical model of distributed retrieval	04 October 2016
74	Web search	27 October 2016
75	Revision on Unit V	28 October 2016
76	Discussion of previous question papers	29 October 2016
77	Tutorial (G2, G3) - Discussion of previous question papers	27, 29 October 2016
78	Revision on Unit I	01 November 2016
79	Revision on Unit II	03 November 2016
80	Tutorial (G1, G2) - Discussion of previous question papers	02, 03 November 2016

Text books:

1. David A.Grossman, Ophir Frieder, Information Retrieval-Algorithms and Heuristics, Springer, 2nd Edition (Distributed by Universities Press), 2004.
2. Gerald J Kowalski, Mark T Maybury, Information Storage and Retrieval Systems, Springer, 2000.

Name and signature of the faculty: S.J Bhargav Kumar ----

Name and signature of Head of the Department: G. Srinivas Rao ----