

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology

Lesson plan of faculty member for the academic year 2017–18

Class: IV B Tech

Branch-Section: IT-A

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	12 July 2017
2	Document Retrieval and Routing	13 July 2017
3	Vector Space Model	15 July 2017
4	Tutorial (G2, G3) - Examples for Retrieval Systems	12, 15 July 2017
5	Vector Space Model	18 July 2017
6	Probabilistic Retrieval Strategies	19 July 2017
7	Probabilistic Retrieval Strategies	20 July 2017
8	Simple Term Weights	22 July 2017
9	Tutorial (G1, G2, G3) - Retrieval Strategies	18, 19, 22 July 2017
10	Non-binary Independence model	25 July 2017
11	Language Models	26 July 2017
12	Language Models	27 July 2017
13	Language Models	29 July 2017
14	Tutorial (G1, G2, G3) - Examples for Language Models	25, 26, 29 July 2017
15	Unit I Revision	01 August 2017
16	Class Test on Unit I	02 August 2017
UNIT-II: Retrieval Utilities		
17	Retrieval Utilities	03 August 2017
18	Relevance Feedback	05 August 2017
19	Tutorial (G1, G2, G3) - Retrieval Utilities	01, 02, 05 August 2017
20	Relevance Feedback	08 August 2017
21	Clustering	09 August 2017
22	Clustering	10 August 2017
23	N-Grams	12 August 2017
24	Tutorial (G1, G2, G3) - Test on Language Models	08, 09, 12 August 2017
25	N-Grams	16 August 2017
26	Regression Analysis	17 August 2017
27	Regression Analysis	19 August 2017
28	Tutorial (G2, G3) - Explanation of Relevance Feedback	16, 19 August 2017
29	Regression Analysis	22 August 2017
30	Thesauri	23 August 2017
31	Thesauri	24 August 2017
32	Revision of Unit II	26 August 2017
33	Tutorial (G1, G2, G3) - Explanation of Topics on N-Grams	22, 23, 26 August 2017
34	Class Test on Unit II	29 August 2017
UNIT-III: Retrieval Utilities		
35	Semantic Network	30 August 2017
36	Parsing	31 August 2017
37	Tutorial (G1, G2) - Explanation of Doubts on previous topics	29, 30 August 2017
38	Cross Language Information Retrieval	05 September 2017
39	Tutorial (G1, G3) - Cross Language Examples	05, 09 September 2017
40	Introduction	12 September 2017
41	Crossing the language barrier	13 September 2017
42	Crossing the language barrier	14 September 2017
43	Unit III Revision	16 September 2017
44	Tutorial (G1, G2, G3) - Clarification of Doubts on previous topics	12, 13, 16 September 2017

UNIT-IV: Efficiency		
45	Efficiency	19 September 2017
46	Inverted Index	21 September 2017
47	Inverted Index	23 September 2017
48	Tutorial (G1, G3) - Algorithms on Efficiency	19, 23 September 2017
49	Query Processing	03 October 2017
50	Query Processing	04 October 2017
51	Signature files	05 October 2017
52	Duplicate Document detection	07 October 2017
53	Tutorial (G1, G2, G3) - Test on class topics	03, 04, 07 October 2017
54	Duplicate Document detection	10 October 2017
55	Duplicate Document detection	11 October 2017
56	Unit IV revision	12 October 2017
57	Class test on Unit IV	14 October 2017
58	Tutorial (G1, G2, G3) – Clarification of Doubts on previous topics	10, 11, 14 October 2017
UNIT-V: Integrated Structured Data and Text		
59	Integrating structured data and text	17 October 2017
60	A Historical Progression	19 October 2017
61	Information retrieval as a relational application	21 October 2017
62	Tutorial (G1, G3) - Details about Structured Data	17, 21 October 2017
63	Information retrieval as a relational application	24 October 2017
64	Semi structured search using a relational schema	25 October 2017
65	Distributed information retrieval	26 October 2017
66	A Theoretical model of distributed retrieval	28 October 2017
67	Tutorial (G1, G2, G3) - Retrieval as a relational application	24, 25, 28 October 2017
68	Retrieval as a relational application	31 October 2017
69	A Theoretical model of distributed retrieval	01 November 2017
70	Web search	02 November 2017
71	Tutorial (G1, G2) - Discussion of previous question papers	31 October 2017, 01 November 2017
72	Revision on Unit V	07 November 2017
73	Tutorial (G1) - Discussion of previous question papers	07 November 2017

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: K Sandeep Kumar ----