

# CS60092: Information Retrieval

**Instructors:**

**Prof. Debaditya Roy**

**Prof. Sourangshu Bhattacharya**

**CSE, IIT Kharagpur**

# Course organization

Classroom: CSE-120

Slots:

Monday (11:00 – 11:55)

Tuesday (8:00 – 9:55)

Website:

[https://dchakravorty2000.github.io/Information\\_Retrieval\\_CS60092\\_2026/](https://dchakravorty2000.github.io/Information_Retrieval_CS60092_2026/)

Moodle (for assignment, term project, class tests):

<https://moodlecse.iitkgp.ac.in/moodle/course/view.php?id=108>

You need to be registered for the course. Registration key will be sent via email.

# Teaching Assistants

Debamalya Chakraborty  
Yaswanth Bangde

# Evaluation

## Grades:

Midsem, Endsem: 50 - 60

Class Tests: 20 - 30

**Term Project:** 20 - 30

Class tests will be **surprise** ! If you miss it, you loose marks.

List of **Term Projects** will be share with you this week. You need to form groups of size 3 – 4 and select one project.

Both **Term Project** and assignment will require you to write code.

Assignments will not be graded.

# Tentative Schedule (Changeable)

Week	Topics	Dates
1	Introduction to IR, Boolean Retrieval, Term Vocab & Postings List	Mon Jan 5, Tue Jan 6
2	Skip Pointers & Pos Index, Extent Lists & Result Set Size Estimation, Dictionaries and tolerant retrieval	Mon Jan 12, Tue Jan 13
3	Scoring, Weighting and the Vector Space Model, Index Compression, Posting Compression	Mon Jan 19, Tue Jan 20
4	Evaluation (MAP, NDCG), Relevance Feedback, Probabilistic Information Retrieval	Mon Jan 26, Tue Jan 27
5	Language Models for IR, Text Classification	Mon Feb 2, Tue Feb 3
6	Recap	Mon Feb 9, Tue Feb 10
7	Mid-sem	Mon Feb 16, Tue Feb 17
8	Mid-sem	Mon Feb 23, Tue Feb 24
9	Learning to Rank, PageRank, LSI (Latent Semantic Indexing)	Mon Mar 2, Tue Mar 3
10	Text Summarization, BLEU, ROUGE, ROUGE-N, ROUGE-L, ROUGE-S, pros and cons, and ROUGE vs BLEU	Mon Mar 9, Tue Mar 10
11	The Web as Corpus	Mon Mar 16, Tue Mar 17
12	Information Extraction	Mon Mar 23, Tue Mar 24
13	Relation Extraction (Graph IE)	Mon Mar 30, Tue Mar 31
14	Distant Supervision / Multi-modal IR	Mon Apr 6, Tue Apr 7
15	Recap	Mon Apr 13, Tue Apr 14

End of Slides