課程大綱 (Course Description)
This course provides an overview of information retrieval algorithms and techniques. The most aspects of information retrieval, focusing on representation, storage, organization of, and access to information items as well as on retrieval effectiveness are discussed. The purpose of this course is to introduce the students to the concepts and approaches of classical and web information retrieval.

授課方式 (Course Activities)
1. Lecture  
2. Discussion  
3. Case study

評分標準 (Grades)
1. Midterm exam (25%)  
2. Final exam (25%)  
3. Homework (40%)  
4. Participation (10%)

參考書/教科書 (Textbooks)
主要教科書：(Required)

參考書目：(Other Good IR Books)

課程內容、進度、與閱讀文獻 (Course Topics)
1. Introduction  
2. Vector Space Model  
3. Retrieval Evaluation – Recall and Precision  
4. Query Operations – Relevance Feedback  
5. Probabilistic Model  
6. Global Query Expansion - Statistical Thesaurus  
7. Global Query Expansion - Similarity Thesaurus  
8. Retrieval Evaluation – Text Collections  
9. Latent Semantic Indexing Model  
10. Hidden Markov Model  
11. Fuzzy Set Model  
13. Searching the Web  
14. Trends and Research Issues

All course requirements are subject to change.
Changes will be announced during class sessions.