

## INFORMATION RETRIEVAL SYSTEM

### **UNIT-1:-**

1. Explain about domain analysis of IR systems and other types of IR systems.
2. Describe IR system evolution
3. Describe and explain algorithms related to information retrievals.

### **UNIT-2:-**

1. Explain inverted file with an example.
2. What are the modifications of inverted files?
3. Explain how to build an inverted file using sorted array.

### **UNIT-3:-**

1. Explain the concept of signature files.
2. Explain horizontal and vertical partitioning.
3. Give brief description about compression with example.

### **UNIT-4:-**

1. Explain the structure of PAT Tree?
2. Explain the algorithms for text searching from PAT Tree?
3. Discuss the representation of PAT tree as arrays?
4. Write the steps in building PAT Tree?
5. Explain Semi infinite string?

### **UNIT-5:-**

1. Explain porter stemming algorithm?
2. Describe the similarities and differences between term stemming algorithms and n-grams.
3. Explain Successor variety Stemmer?
4. Discuss how stemming is done to compress inverted files?
5. Write a short notes on evaluation of Stemming algorithms

### **UNIT-6:-**

1. Explain the following thesaurus construction techniques
  - a) Manual Thesaurus Construction
  - b) By merging existing thesaurus
2. Explain the features of Thesauri?
3. Discuss thesaurus construction from texts?
4. Explain the following thesaurus construction techniques
  - a) Automatic Thesaurus construction
  - b) User generated Thesaurus