

## 23022 Discrete Structures for Computer Science (3)

### **Knowledge**

The students should learn discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling.

### **Comprehension**

Should understand the notions of logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

### **Application**

The main and most important application is to solve many different problems related to the subject.

### **Analysis**

N/A

### **Synthesis**

Should combine the “discrete and analytic” thinking.

### **Evaluation**

Should complete homeworks, pass midterm tests and a final exam.

### **Class Activities**

To solve problems in class and discuss theorems.

### **Out of class Activities**

To submit homework assignments.