Topics Covered

1. DATALOG model and query processing using DATALOG
2. Object oriented and Object-oriented deductive models (LOGOB), their physical storage structures and query processing (processing of basic operations)
3. Fundamental concepts of data models
   * Abstractions: Aggregation, generalization, relations and their applications to database structures
   * Representations of structures
   * Constraints
4. Basic concepts in deductive databases
5. XML data definition, querying & storage
6. R-tree, Bitmap index, Grid file storage structures
7. Important and relatively recent topics in database storage and modelling

Grading Policy

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| **Exam** | **Description** | **Weigth** |
| Midterm 1 | In class presentation | 34% |
| Midterm 2 | [Take-home (implementation)](http://www2.cmpe.boun.edu.tr/courses/cmpe422/fall2010/CMPE_422_Exam_II.pdf) | 33% |
| Final | In class written | 33% |