Objective and Course Outline
The structure of the information found on the web will be discussed in detail. The students will learn to represent, describe and access this information. The student will study some of the current distributed databases over the internet.

Topics to be covered in (40) Lectures
- Introduction: Data on the Web (2)
- Traditional Web Search and Search Engines (2)
- Basics of Distributed Database (4)
- Web Data Models: XML, RDF, OWL (8)
- Web Data Integration and Mapping (4)
- Ontologies and Ontology Tools (3)
- Intelligent Web Search (2)
- Querying Web Data (2)
- Web Databases: Semantic Data, Social Data, Sensor Data, Cloud Data, main memory databases (6)
- Large Scale Data Management (4)
- Research Issues (3)
Resources

- Research papers

Evaluation Scheme

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<th>Component</th>
<th>Weight</th>
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<tr>
<td>Assignments</td>
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<tr>
<td>MidSem Exam</td>
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