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Fall 2007

### CS 790-01: Semantic Web-Course

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# SemanticWeb-Course

CS 790 01

Dr. Amit Sheth Fall 2007

**Lecture Plan** (each phase are roughly one month long)

## **First phase: Overview**

- Languages: RDF, OWL
- Introduction to Ontology design/development, semantic annotation (metadata extraction) and reasoning

## **Second Phase: indepth**

- Techniques for ontology design and extraction/annotation
- Hands for one or two of these
- Review of representative projects/tools

## **Third phase: State of the art and research**

- Selected paper presentations and discussions
- Project discussions

For more detials, see the example of what was covered during the last time I taught this class:

<http://lsdis.cs.uga.edu/courses/SemWebFall2005>

**Grading:** (may be adjusted by 5 to 10% among different categories)

- **Project 30%**
  - Individual to a group of 3
  - Select one from list we supply or create your own
  - Timeline
    - Form groups and select general topic: first 3 weeks
    - Formal Proposal: first month
    - Agreed-upon concrete set of deliverables: Midpoint
    - Report and demo: last week of class
- **Midterm 25%**
  - Will be based on a fixed set of papers chosen from the reading list
  - Questions will be directly from these papers or from direct pertinent references in these papers
- **Homework and Quizes 25%**
  - Assignments

- Reviews of seminal and fundamental papers to be presented in class
  - Guidelines for how to do a review is to be handed out before first review is assigned
  - Reviews will be discussed in class with each person requiring to come prepared to class and contribute to the discussion.
- Small programming / tool demo projects
  - For example, create an ontology in protege and export it to OWL or RDFS.
- **Presentations 10%**
  - 1 presentation about a topic from a general topic/paper list which will be provided on the course page worth 10%
  - 1 presentation relating to the topic on which your project is based (literature survey) since there will be a substantial amount of literature survey papers for this should be relatively easy to find. worth 5%
- **Attendance and Participation 10%**
  - 1 mark will be subtracted for each absence not related to emergency or significant health reason
  - 0.5 marks will be deducted for each time you come to class after 10 minutes)

**Office Hours: Any time by appointment or 12:30 tp 1:30 on the day of the class**