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| 45 | Provost: | | | (attach if necessary) | |

Email this form and syllabus to <u>UGPC@fau.edu</u> one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

FAUnewcrseGrad—Revised September 2013

Department of Computer and Electrical Engineering and Computer Science Florida Atlantic University Course Syllabus

| 1. Course title/number, number of credit hours | | | | | |
|--|---|---|----------------------------------|--|--|
| COT 3000 - Semantic Web Programming 5316 | | 3 credit | hours | | |
| 2. Course prerequisites, corequisites, and where the course fits in the program of study | | | | | |
| Prerequisites: Graduate or sen | ior undergraduate stud | dent. Familiarity with | Java. | | |
| 3. Course logistics | 3. Course logistics | | | | |
| Term: TBA Class location and time TBA | | | | | |
| Open Source tools: You may | use a subset of these b | ased on your project | needs: Eclipse IDE, Java SDK, | | |
| Lucene, and Jena semantic we | eb framework. | , | | | |
| Our Web Reference: http://se | manticweb.fau.edu/ ar | nd slides at: http://csi | fau.edu/courses/semantic- | | |
| web/ | | | | | |
| Students will use Github or Bitbucket for their project documentation. | | | | | |
| 4. Instructor contact informa | tion | | | | |
| Instructor's name | Dr. R. Shankar | | | | |
| Office address | 512 FF | | | | |
| Office Hours | TBA | | | | |
| Contact telephone number | 561-297-3470 | | | | |
| Email address | shankar@fau.edu | | | | |
| | G | | | | |
| 5. TA contact information: None | | | | | |
| 6. Course description | | | | | |
| Semantic web building blocks | (standards, languages | , and framework). Op | en source tools. Integrated | | |
| flow with our examples. Build | an infrastructure to de | velop personal and p | ractical Apps. Open to majors in | | |
| computer science and enginee | ering (CSE) and others | with consent of the ir | istructor | | |
| 7. Course objectives/student learning outcomes/program outcomes | | | | | |
| Course objectivesSemantic Web, aptly labeled Web 3.0 by many, offers a powerful approach to gain mastery over the multitude of information and information services. Mr. Tim Berners-Lee (TBL), the visionary behind the World Wide Web, has said that " if properly designed, the Semantic | | | | | |
| | | | | | |
| Five Tool or Topic Assignment | ts (choose): 40% | | | | |
| Mid-term and Final Exam 30% | | | | | |
| Project (report, presentation a | Project (report, presentation and demo, with or | | | | |

Department of Computer and Electrical Engineering and Computer Science Florida Atlantic University Course Syllabus

| without code): 20% Semantic web community service (develop a tool, review, blog, etc.) 10% | | | | |
|--|--|--|--|--|
| 9. Course grading scale | | | | |
| Grading Scale: 90 and above: "A", 87-89: "A-", 83-86: "B+", 80-82: "B", 77-79 : "B-", 73-76: "C+", 70-72: "C", 67-69: "C-", 63-66: "D+", 60-62: "D", 51-59: "D-", 50 and below: "F." | | | | |

10. Policy on makeup tests, late work, and incompletes

There will be two exams in this course. The students will demonstrate their functioning systems at the end of the semester in front of a group of professors and/or industry professionals. During the semester, the same group of professors from different disciplines (engineering, linguistics, operational management, and urban planning) will review progress and advise. These other professors will help students in the course, as appropriate. Dr. Shankar is responsible for all the teaching and course project coordination.

A grace period of 1 week is allowed for submission of assignments.

A grade of *incomplete* will be assigned only in the case of solid evidence of medical or otherwise serious emergency situation.

11. Special course requirements

Students will need access to a laptop

12. Classroom etiquette policy

University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions.

13. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton campus, SU 133 (561) 297-3880 and follow all OSD procedures.

ure to be added.

14. Honor code policy

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001 Code of Academic Integrity.pdf

15. Required texts/reading

Hebeler, J., Fisher, M., et al., Semantic Web Programming, Wiley, 2009
 Supplementary/recommended readings

Department of Computer and Electrical Engineering and Computer Science Florida Atlantic University Course Syllabus

17. Course topical outline, including dates for exams/quizzes, papers, completion of reading

Topics to be covered (the number of 80 minute lectures is listed in parentheses):

Intro to Semantic Web: Build a semantic web App to gain exposure to standards and Jena (4 lectures) Databases: Relational, XML, and Semantic (RDF, RDFS and OWL) approaches (4 lectures)

Project topics: Discussion and Definition (2 lectures)

Intelligent Web: Algorithms for Search and ranking with Lucene (8 lectures)

Rules, Querying, and Reasoning: SPARQL and Pellet (6 lectures)

Putting it together: Jena and Lucene (4 lectures)

Five Tool or Topic Assignments (choose): 40% - during the semester Mid-term and Final Exam 30% - during the 7th and final week Project (report, presentation and demo, with or without code): 20% - during the second half of the semester and end of the semester

Semantic web community service (develop a tool, review, blog, etc.) 10% - anytime