**CIS 525 Software Development of Parallel and Distributed Systems Fall 2008**

**Lecture 25, December 2, 2008**

1. **Rapid Prototyping for Parallel and Distributed Systems (chapter 19 of the course textbook; pages 405-415) - continued:**

a). what it does?

b). steps of prototyping process

c). illustrating example of rapid prototyping with Petri net as methodology for rapid prototyping.

**2. Homework #4 – handouted and discussed.**

**3. Petri nets in Workflow Management Systems (textbook, pp.507-540):**

**-** WfMC **–** Workflow Management Coalition

- WfMC architecture

- workflow analysis and design.

**Lecture 26, December 4, 2008:**

1. **IOWFs – Inter-organizational Workflows (not covered in the textbook):**

* e-Commerce vs. IOWFs
* Review and analysis of six architectures of IOWFs
* Soundness of IOWFs
* Consistency of IOWFs.

1. **Course Summary:**

* Course objectives
* Course outcomes
* Petri nets as mathematical model/tool of concurrent systems
* CPNTools – rich research platform of Colored Petri nets
* Analysis methods of Petri nets – static and dynamic
* Direct software and hardware implementation from Petri nets
* Application of Petri nets in software development and in workflow management systems
* Rapid prototyping of software development for Parallel and Distributed Systems.