

# Advance Distributed Sysmtes (ADS)

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| SECURELY

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# Course Description

- ▶ Introduction of Distributed Systems
- ▶ Distributed System - Architecture
  - ▶ Grid
  - ▶ Clusters
  - ▶ Clouds
- ▶ Cloud Computing
  - ▶ Openstack, AWS
  - ▶ Containers (Dockers)
  - ▶ Microservices
- ▶ Synchronization and Consistency
- ▶ Fault Tolerance
- ▶ Distributed File Systems
  - ▶ PVFS
  - ▶ Google FS
- ▶ Hadoop
- ▶ Location
- ▶ Lectures: Wed-Thu at 06:30 pm
- ▶ Prerequisites: Networks, Operating Systems, Distributed Systems

# Additional Topics

Based on setup and time availability

- ▶ Hands on
  - ▶ Openstack
  - ▶ Amazon Web Services
  - ▶ Containers
- ▶ MongoDB

Link to slides:

<http://www.cs.iit.edu/~iraicu/teaching/CS550-S11/index.html>

# Marking Scheme

Test Name	Weightage	Tentative Dates*
Quiz 1	10 Marks	15 <sup>th</sup> Feb
Mid-Sem	30 Marks	10 <sup>th</sup> March
Quiz 2	10 Marks	10 <sup>th</sup> April
End Semester	50 Marks	2nd May

\*Dates are tentative and subject to change

Questions?