

CSE 521 S Syllabus

Objectives

Upon completion of this course, students should be able to do the following:

- Understanding software architecture of Internet of Things.
 - Evaluating wireless sensor network technologies and protocols.
 - Analyzing sensor data to extract information.
 - Applying Internet of Things to diverse domains from healthcare to industry.
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Topics

- Embedded Operating Systems
 - Wireless Sensor Networks
 - Data Analytics and Machine Learning
 - Cloud and edge computing
 - Internet of Medical Things and Mobile Health
 - Industrial Internet of Things
 - Smart Infrastructure
 - Cyber-Physical Systems
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Grading

- Projects 60%
 - Proposal and presentation: 10%
 - Demo 1: 5%
 - Demo 2: 5%
 - Final demo & report: 40%
- Critiques 30%
- Participation 10%

Note: Scores will be curved.

Collaboration Policy

- All critiques should be completed independently. No collaboration is allowed.
 - The project proposal, presentations, demos and report should be completed collaboratively by the project team.
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Office Hours and Contact Information

Please make appointments by email.

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