



Instituto Politécnico Nacional
"La Técnica al Servicio de la Patria"



Centro de Investigación en Computación(CIC)
Instituto Politécnico Nacional - México.

Internet of Things

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Internet of things Course

□ Instructor

- Dr Ponciano Jorge Escamilla Ambrosio
- pescamilla@cic.ipn.mx, pjorgeea@gmail.com
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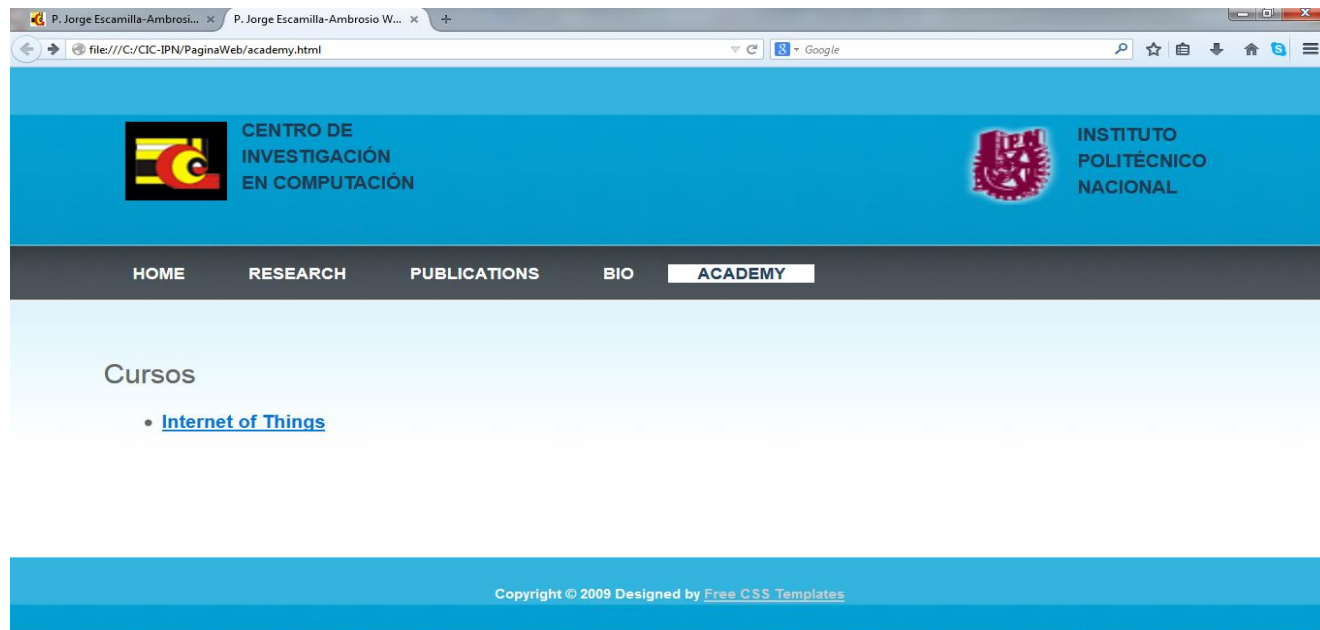
□ Course schedule

- Tuesdays 16:00 – 18:00 hrs and Fridays 12:00 – 14:00 hrs.

Course web site

□ Course web site:

➤ <http://www.cic.ipn.mx/~pescamilla/academy.html>



➤ Papers and reading material to be provided

Course Objective

- At the end of the course the student will have a comprehensive understanding of the most important topics about the emerging field of "Embedded Internet", "Internet of Things (IoT)", and "Future Internet

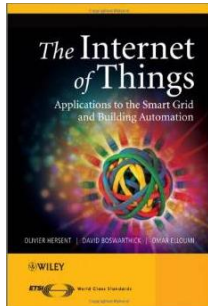
Course content

1. Introduction to the Internet of things
2. Platforms and technology
3. Physical layer
4. MAC protocols
5. Network Layer
6. 6LoWPAN
7. Transport layer

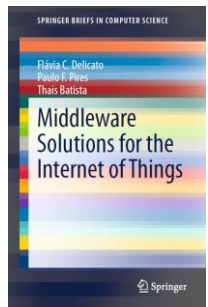
Course content

8. Application layer
9. Security
10. Testbeds and experimentation

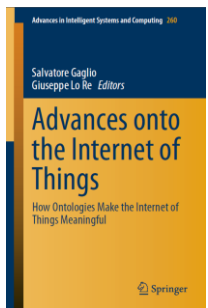
Course text books



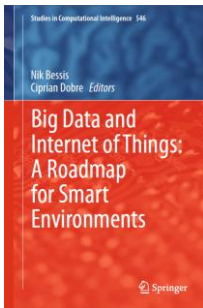
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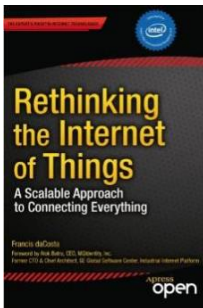
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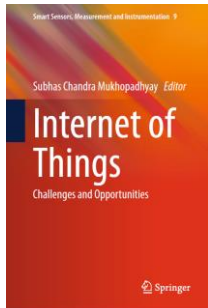
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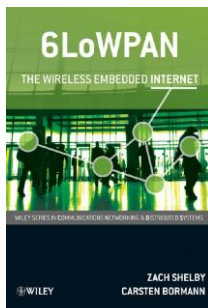


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<http://iotcomicbook.org/>

Grading

- ❑ Midterm exam 30%
- ❑ Final exam 20%
- ❑ Homework 20%
- ❑ Final Project 30%

