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# Internet Engineering: course overview

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2019

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# Faculty members in charge

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- Youki Kadobayashi
    - Professor, Laboratory for Cyber Resilience
  - Yuzo Taenaka
    - Associate Professor, Laboratory for Cyber Resilience
  - Doudou Fall
    - Assistant Professor, Laboratory for Cyber Resilience
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# Course Overview

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- Learn technical components for computer networks.
    - There are several vital components for computer networks as the social infrastructure.
      - Network architecture, Internet technology, and their histories.
    - Our goal is to understand technical aspect of those components and how the computer networks work.
      - Mainly concentrated on Internet technology
      - Learn more about technical evolution of computer networks in the last 50 years.
  - Learn basic knowledge & skills required for your research in CS graduate school.
    - The way of thinking as CS / IS researchers
    - Acquire skills to mobilize your knowledge
    - Ways to examine and analyze technology and engineering.
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# Course components & evaluation criteria

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- Components

- Class, Assignment/Report, Hands-on exercises, and Exam.
- Teaching Assistant (TA)
  - Contact them via e-mails.
  - `internet-eng-2019_at_is.naist.jp`
- Office Hour
  - Afternoons of Tuesday and Thursday - room A314
  - You can consult the TAs

- Evaluation criteria

- Exam (40%), Assignments (60%)
  - Anticipate approximately 6 assignments in total
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# Course materials

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- Presentation materials for this class are available via our web site at:
    - <https://iplab.naist.jp/class/2019/>
    - PDF
      - Use Acrobat Reader or the other PDF reader program
  - Other supplementary materials will be made available as necessary on the same web site
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# On video archival and open access

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- This class is recorded and provided via “class archive” by our library.
  - Please use the microphone for Q&A.
  - Unlimited access allowed.
    - Everybody can see via the Internet.
  - Let’s make this class better!
    - Active discussions and questions are always welcomed!

# Lecture schedule (as of June 5<sup>th</sup>)

Day		Topic			Day	Topic	
(1)	Jun 5	Course Overview, Internet Architecture			(5)	July 3	Transport Layer
(2)	Jun 12	Physical Layer and Data Link Layer			(6)	July 17	Upper Layer Protocols and Application
(3)	Jun 19	Network Layer			(7)	July 24	Network Management
(4)	Jun 26	Routing			(8)	July 31	Exam

- 2<sup>nd</sup> period 11:00 – 12:30
  - Lecture plus some Hands-on by TAs

*Please bring your PC and make sure you check the instructions provided on:*

<https://iplab.naist.jp/class/2019/>

# Exam

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- July 31, 2019 (Wednesday)
    - 90 minutes
  - Remarks
    - You can bring whatever materials / resources (except human) you want.
    - No communication with other people.
      - The exam is an evaluation method on each person's understanding of the specific knowledge, domain/space.
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