Laboratory of Nomadic Communication

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Course Overview

- ## Introduction to 802.11 (YAI)
  - General concepts, frame format, MAC, rate controller
- ## Summary of Linux Kernel Network Stack
  - From very high level… ☹
- ## 802.11 Opensourc Firmware review
  - General concepts, tx + rx code paths
- ## Survey of recent research works
- ## Hands on firmware
  - Several Lab sessions with facilitators

Course Notes

- One Day per Week: Monday, 14:00-18:00
  - Facilitator always in lab
- Course documents:
  - Slides, check also here:
    - http://netweb.ing.unibs.it/~gringoli
  - Online documentation
    - http://netweb.ing.unibs.it/openfwwf
    - http://bcm-v4.sipsolutions

Exam

- To prepare for the final examination students have
  - To attend these lab lectures
    - Very important to understand the firmware
  - To have an assignment from the facilitator
    - It is a project on some "hot" research topic
    - Need to modify the default firmware to adapt to a given behaviour
    - Meet regularly in the lab, initially facilitator will be present
    - Set up a measurement system to collect performance indicators
    - Write a final report
  - To schedule a meeting with Prof. Lo Cigno and myself
    - Discuss the report