



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 Opensource 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/openfwf>
 - <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