



MS Degree Computer Science and Networking

Routing Architectures and Protocols Lab (LPA)

Davide Adami





About LPA

- Teacher name: Davide Adami
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- Semester: First
- Exam mode: Oral
- Pre-requisites:
 - Networking fundamental
 - Understanding of destination-based, hop-by-hop IP routing in a Classless Inter-Domain Routing (CIDR) environment
- Area: Networking



Course Overview

- The course provides the basic knowledge and the key concepts to understand the functional components required to design and implement **intra** and **inter-domain routing**
- Main theoretical and practical topics:
 - design and deployment of networks with IGP (RIP/OSPF) and **EGP (BGP) routing protocols, Routing Policy, Firewall Filters, Class-of-Services, IPv6**
- **Traditional lectures** are coupled with **hands-on lectures** which provides students with the possibility to work with **Juniper Networks routers**.
- Basic concepts concerning the **configuration, management and monitoring of Juniper Networks routers** are recalled
- At the end of the course, students may obtain Juniper Certification (**JNCIA-Junos** exam).
- **Required Skills**
 - Networking fundamental
 - Understanding of destination-based, hop-by-hop IP routing in a Classless Inter-Domain Routing (CIDR) environment



Lab equipment at UNIP I



9 J4350 Router with Gigabit Ethernet Interfaces



9 SRX-240 Router with Gigabit Ethernet and Serial Interfaces



Layer 2 switches with
24 10/100/1000 Ethernet
Interfaces

4 Fiber Optic Gigabit Ethernet
Interfaces

