



UNIVERSITÀ DI PISA

NETWORKS AND TECHNOLOGIES FOR TELECOMMUNICATIONS

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Anno accademico	2017/18
CdS	INFORMATICA E NETWORKING
Codice	158II
CFU	9

Moduli	Settore/i	Tipo	Ore	Docente/i
RETI E TECNOLOGIE PER LE TELECOMUNICAZIONI	ING-INF/03	LEZIONI	72	ALESSIO GIORGETTI BARBARA MARTINI LUCA VALCARENGHI

Prerequisiti per studi successivi

Network management and Configuration (GCR)

Programma (contenuti dell'insegnamento)

Network Management and Services (30 hours) – B. Martini

- What is Network Management and how it works in IP and transport networks
- Management protocols (i.e., SNMP, NETCONF, CMIP)
- Data modeling and data syntax languages (i.e., SMI, GDMO)

Lab of Network Software (25 hours) – A. Giorgetti

- Introduction to network and protocol modeling
- Network and protocols modeling with OPNET
- Network and protocols simulation with OPNET

FPGAs for Communications Networks Prototyping (20 hours) - L. Valcarenghi

- What is an FPGA and what can be used in communications networks
- FPGA design flows: schematic-based design flow, HDL-based design flow, modular and incremental design
- Design Tools: simulation, synthesis, verification

Modalità d'esame

Project/Final test

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