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# Communications networks C

## Finalità

This course focus on the main mechanisms and protocols for multimedia communications and for new generation networks. It will present extensions/evolutions of the current Internet architecture and of UMTS/3GPP network.

## Programma

1) IPv6

protocol details

2) IP multicast

protocol details

multicast routing

3) IP Telephony architecture and protocols

Introduction to VoIP (Voice over IP) and IP telephony

RTP/RTCP

H.323

SIP

Media and signaling gateways

4) Quality of Service (QoS)

QoS on IP networks

Integrated services architecture and protocols (RSVP, NSIS)

Differentiated services architecture

5) UMTS/3GPP

UMTS network architecture

IP Multimedia Subsystem (IMS)

3GPP/WLAN interworking

## Attività d'esercitazione

Laboratory activities on VoIP/IP Telephony applications, QoS, IPv6 and IP multicast.

## Modalità d'esame

To be defined

## Propedeuticità

Reti di Telecomunicazioni A