Advanced Internet Networking Technologies

Academic Year: (2018 / 2019)   **Review date: 11-04-2018**

Department assigned to the subject: Telematic Engineering Department

Coordinating teacher:

Type: Electives ECTS Credits : 6.0

Year : 4 Semester :

DESCRIPTION OF CONTENTS: PROGRAMME

1. IPv6
· Introduction
· Addressing model for IPv6.
· IPv6 Packet format
· ICMPv6
· Other layers and its relation with IPv6
· DNS in IPv6
· IPv4/IPv6 coexistence
2. Border Gateway Protocol (BGP)
· Introduction to interdomain routing.
· Business model of the Internet. Possible relationships among communication networks
· BGP route processing. BGP attributes. Route selection rules.
· Configuring BGP routers
· Traffic engineering for interdomain routing
3. Analysis of the current Internet: roles and strategies of Internet networks

% end-of-term-examination: 60

% of continuous assessment (assigments, laboratory, practicals…):   40