

NEW

NEW PROJECTS

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NEW PRODUCT

An ICARUS Node offers the following user configurable modes:

LAN Router , Switch , Bridge

Wireless LAN Router

Wireless WAN - 2,8 Ghz

Wireless WAN -5.0 Ghz

SUBJECTS OF ICARUS IDEA

TCP/IP and Networks

Single LAN
Switches
Bridges

Network Routing

UDP and its applications

Multicasting

HTTP / DHCP / NTP

NAT / IP Tables /Firewalls

Structured cabling / UTP
Fiberoptics –InstallationsWireless WAN /LAN -
WiFi, IEE 802.11, Bluetooth ,
Broad band -WiMAX and LTE

Voice over IP (VoIP)

QoS

Multi-Cell Wireless Networks

ICARUS : The Modern TELECOMMUNICATIONS Laboratory

Larissa 19.2.2014

POLYTECH announces its New Educational Laboratory **ICARUS**, a completely integrated modern telecommunications lab. ICARUS is designed to meet the need requirements ranging from technical and vocational schools as well as University level coursework.



ICARUS provides to the Communication Technicians and Engineers a **BASIC** and **ADVANCED** training, in the area of *State of the Art* Digital Telecommunications Technologies, and consists of 3 modules:

1. The ICARUS Multimode Digital Telecom Node

2. The ICARUS Network Control & Monitor SW

3. The ICARUS Educational Software Application

All modern Networks and Equipment used in Digital communications, from **Fast** to **Gbit Ethernet** routers, bridges, switches and wireless LAN to Mobile Network **GSM, 3G or 4G** can be configured and operated by a **single ICARUS node**. Multiple Interconnected nodes can implement any LAN, WAN or Mobile Antenna WAN (GSM, 3G or 4G) and create any typical Digital Telecom network Test-Bed for students to perform experiments.

The Management of

ICARUS Nodes as modules, the Interconnection configurations amongst different nodes and the set up of experiments is performed by the user using a proprietary integrated application.

The **ICARUS IDEA** (Integrated Digital Educational Application) is a CAI (Computer Assisted Instruction) system, where the student performs all activities and classroom interactions using the

PC. **IDEA** is an integral part of the laboratory, familiarizes and trains students on widely used network architectures, protocols and mechanisms. In **IDEA**, emphasis is given to practical issues related to the implementation of networking systems, dealing with network operation and management challenges.

