**Switch Features Investigation**

* Have a look into the switch cabinet in R200 and see what model of Cisco switches are being used.
* Note the cabling, interface types, patch panel, labelling.
* Research the functionality/specs/cost for the switch in question.
* Prepare a short report (2 page max) to document your findings.
* [Cisco Switches](http://www.cisco.com/en/US/products/hw/switches/index.html)

Cisco stack power: Cisco StackPower provides a revolutionary alternative to power redundancy for the Cisco access switches.  **StackPower pools the available power supplies in all the switches and makes it available to all of them**.

Cisco stack power has the following features:

1) 48 ports GBS

2) 10 ports GBS

Cisco Catalyst:

Ranging from 2500 euros and up the cisco catalyst 9300-NM-8X contains a number of features including:

1) Highest wireless scale with Wave 2 access points supported on a single switch with select models

2)  UADP 2.0 Application-Specific Integrated Circuit (ASIC) with programmable pipeline and microengine capabilities, along with template-based, configurable allocation of Layer 2 and Layer 3 forwarding, Access Control Lists (ACLs), and Quality of Service (QoS) entries

3)   USB 2.0 slot to load system images and set configurations

4) Flexible and dense uplink offerings with 1G, Multigigabit, 10G, 25G, and 40G

5)    Flexible downlink options with 1G and Multigigabit links

Patch Panel:

The R200 practical room contained the following patch panels which were used for connecting and merging outgoing LAN cables.

1) Chrome 12 port patch panel.

2) Chrome fibre patch panel.

3) Chrome voice patch panel.

Ranging from 50 euros and up the chrome 12 port patch panel contains 12 outlets across 1 rack (RU) with a chrome colouring. It also had 15-inch mounting, a height of 40mm, a width of 470mm and a depth of 110mm.

Ranging from 35 euros and up the chrome fibre port patch panel contains 6 outlets across 1 rack (RU) with a chrome colouring. It also had 17-inch mounting, a height of 65mm, a width of 500mm and a depth of 144mm.

Ranging from 75 euros and up the chrome voice port patch panel contains 24 outlets across 2 racks (RU) with a chrome colouring. It also had 12-inch mounting, a height of 120mm, a width of 475mm and a depth of 145mm.