

**COMMUNICATIONS NETWORK ARCHITECTURES (5 ECTS,
S1 93001373):**

1. Introduction to Communications Network Architecture
2. Fixed/Mobile, Public/Private, Physical/Virtual Network Architecture.
3. Enabling technologies
4. Deployment technologies. Data and Control Plane. SDN, NFV, MEC, Network Slicing
5. Development of Network Services. VPN, Service Platforms, QoS
6. Introduction to optical systems and networks. WDM Systems and Networks, ITU standards and amplified optical systems
7. Optical Transport Networks: Topologies, switching and routing. Future trends
8. Practical cases. Group-based PBL project development in coordination with the SCOM module