



Course Title:	Computer Networks
Institute/Division:	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
Course code:	E-CN
Erasmus subject code:	0612 Database and network design and administration
Number of contact hours:	45
Course duration:	1 semester (Fall/Winter)
ECTS credits:	6
Course description:	Introduction to network protocols through practical hardware configuration:  Introduction to communication networks – requirements and basic concepts;  Computer networks architectures, OSI and TCP/IP models;  Ethernet based protocols;  Network layer protocols using IPv4 as an example;  Applications of static and dynamic routing protocols;  VLAN, routing on-the-stick;  TCP and UDP as examples of transport layer protocols;  Network management protocols like DNS, DHCP, ARP, ICMP;  Selected application layer protocols like HTTP, email, telnet.  Laboratory exercises using CISCO equipment available on campus. Individual project is aimed to supply practical knowledge in the area of computer networks protocols and fundamental network administration.
Course type:	Lectures (20h), Laboratory (20h), Project (5h)
Literature:	Selected reviews from scientific literature
Assessment method:	Project, laboratory exercises and exam
Prerequisites:	-
Contact Person:	Paweł Król, PhD Eng., pawel.krol@pk.edu.pl