**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering Faculty |
| Field of study | Computers and Information Technology |
| Level | Bachelor |
| Program of study | Computers Engineering |

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| Course | **Communication Protocols** |
| Code | 2CC8OS56 |
| Year of study (semester) | IV (II) |
| Number of hours | 56 |
| Number of credits | 4 |
| Professor | Lecturer eng. Simona Rîurean, Ph.D. |

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| **No.** | **Topic** |
|  | Network Models and Network Architectures, Protocol Design Issues, Network Building Blocks: Transmission, Multiplexing and Switching |
|  | Protocol Layering and Protocol Framework (SP3), Link Level Protocols, IETF and the Internet Standards Process |
|  |  Internet Protocol (IP) Design, Internet Addressing |
|  | Transport Layer Protocol Design, TCP and UDP |
|  | TCP Congestion Control, Connection Management, Network Address Translation (NAT) |
|  |  Application Layer Protocols, Domain Name System (DNS |
|  | Network Architectures for Cloud Computing and SDN |
|  | Networking for the Internet of Things (IoT) |