| | | STUDY MODULE D |)ES | CRIPTION FORM | | | |
|---|----------------------------|--|---|---|--------|---|--|
| Name of the module/subject Network Operating Systems | | | | Code 1011105211011100851 | | | |
| Field of study Engineering Management - Part-time studies | | | | Profile of study (general academic, practical (brak) |) | Year /Semester | |
| Elective path/specialty Communication Management in | | | | Subject offered in: Polish | | Course (compulsory, elective) elective | |
| Cycle of | | | For | m of study (full-time,part-time) | | | |
| Second-cycle studies | | | | part-time | | | |
| No. of hours | | | | No. of credits | | | |
| Lectur | e: 12 Classes | s: - Laboratory: - | | Project/seminars: | - | 2 | |
| Status c | of the course in the study | program (Basic, major, other) | | university-wide, from another | field) | | |
| | | (brak) | | | (bra | ak) | |
| Education areas and fields of science and art | | | | | | ECTS distribution (number and %) | |
| Responsible for subject / lecturer: Responsible for subject | | | | | ct / | lecturer: | |
| dr Ryszard Danecki email: Ryszard.Danecki@put.poznan.pl tel. (+4861)6653388 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań | | | 1 | dr inż. Zbigniew Włodarczak email: Zbigniew.Wlodarczak@put.poznan.pl tel. (+4861) 665 33 87 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań | | | |
| | | s of knowledge, skills an | | | | nan | |
| | | First cycle study courses on con | mpute | er science and information | tech | inology. | |
| 1 | Knowledge | | | | | | |
| 2 | Skills | Experience in runnuing applicati | ations and file management in MS Windows. | | | | |
| 3 | Social competencies | Interest in understanding compu | understanding computer technologies. | | | | |
| Assu | mptions and obj | ectives of the course: | | | | | |
| -The purpose of this course is to give understanding of operating systems as the most advanced computer software. Students should know the main challenges in operating systems design and the ideas behind solutions. The emphasis is on network architecture and the impact of the Internet and mobile computing on operating systems design. | | | | | | | |
| Know | Study outco /ledge: | mes and reference to the | edu | ucational results for | ' a f | ield of study | |
| | | the structure and the main tasks | | perating systems lavers on | nd tor | ols - [K2A \//08] | |
| | lents should describe | the evolution of operating systems | | • • • | | | |
| [K2A_V | V08] | th typical elements of user interfa | | - | | | |
| and ho | w this is related to ope | e understending how Application erating systems [K2A_W17] | n Proę | grammers Interfaces (API- | s) fa | cilitate software developmen | |
| Skills | | | | · | | | |
| 1. Student should be able to do typical network configuration tasks in Windows and Linux operating systems [K2A_U06] | | | | | | | |
| They should plan and set users accounts and access rights and formulate security policy [K2A_U06] They should be able to prepare examples of programs that work in different operating environments [K2A_U06] | | | | | | | |
| Social competencies: | | | | | | | |
| 1. Students should be aware of responsible use and configuration of file systems and other computer systems resources [K2A_K05 K2A_K06] | | | | | | | |
| | | | | | | | |
| Assessment methods of study outcomes | | | | | | | |

| Forming rating: | | | | | | | |
|--|-------|-------------------------|--|--|--|--|--|
| - exercises - assessment of laboratory exercises | | | | | | | |
| | | | | | | | |
| Summary rating: | | | | | | | |
| - exercises - the average of partial grades | | | | | | | |
| - lecture - exam | | | | | | | |
| Course description | | | | | | | |
| -Lectures: | | | | | | | |
| The layers and tasks of operating systems. Short explanation of terms: process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), file system. The network architecture of Windows and Unix/Linux. The Application Programmers Interface for network operation - simple examples. Graphical User Interfaces and the impact of the Internet and Web Applications. Virtual computing environment and cloud computing. | | | | | | | |
| -Laboratories: | | | | | | | |
| Depending on students experience laboratory exercises provide more or less advanced illustrative material to lecture subjects. This may include: configuring Windows and Linux users access rights, FTP and HTTP servers, simple shell scripting. | | | | | | | |
| Teaching methods: | | | | | | | |
| - information lecture | | | | | | | |
| - Works with a book | | | | | | | |
| - The case method | | | | | | | |
| - workshop method | | | | | | | |
| Basic bibliography: | | | | | | | |
| 1. A. Silberschatz, P. B. Galvin, Operating Systems | | | | | | | |
| 2. W. Stallings, Introduction to Operating Systems | | | | | | | |
| Additional hibliography | | | | | | | |
| Additional bibliography: | | | | | | | |
| 1. Web pages on virtual and cloud computing | | | | | | | |
| | | | | | | | |
| Result of average student's workload | | | | | | | |
| Activity | | Time (working hours) | | | | | |
| 1. Participation in lectures | | 12 | | | | | |
| 2. Literature studying | | 20 | | | | | |
| 3. Consultation | | 10 | | | | | |
| 4. Preparation for the exam | | 5 | | | | | |
| 5. Exam | | 2 | | | | | |
| Student's workload | | | | | | | |
| Source of workload | hours | ECTS | | | | | |
| Total workload | 49 | 2 | | | | | |
| Contact hours | 24 | 1 | | | | | |

Practical activities

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