| Course title | Parallel and Distributed Programming |
|---|---|
| Institute/Division | Faculty of Computer Science and Telecommunication/ Department of Computer Science |
| Course code | F-1.PDP |
| Erasmus subject code | 11.3 |
| Number of contact hours** | 45 lecture hours (45h) |
| Course duration | 1 semester (Fall) |
| ECTS credits | 6 |
| Course description (max 100 words) | The course focuses on concurrent, parallel and distributed programming. The students will be acknowledged with the low-level Posix thread programming, parallel programming with OpenMP and distributed programming with Message Passing Interface. The base programming language used is C, but students can use C++. |
| Literature | G. Coulouris et al., “Distributed Systems. Concepts and Design” (4th ed.), Addison Wesley, 2005A.<br>S. Tanenbaum, “Distributed Systems. Principles and Paradigms” (2nd ed.), Prentice Hall 2002<br>Grama A. et al., „Introduction to Parallel Computing” (2nd ed.), Addison-Wesley, 2003 |
| Course type/organization | Lectures and Laboratories |
| Assessment method | Attendance, laboratories reports, small projects, exam |
| Prerequisites | Advanced C or C++ programming language, Basic knowledge of Linux operating system. |
| Primary target group | 3-rd – 4-th year computer science students |
| Contact person | Filip Krużel, PhD filip.kruzel@pk.edu.pl |
| Remarks | |

*please insert one of the following codes:
11.0 Mathematics, Informatics
11.1 Mathematics
11.2 Statistics
11.3 Informatics, Computer Science
11.4 Artificial Intelligence
11.5 Actuarial Science
11.9 Others Mathematics, Informatics

**1 lecture hour=45 minutes