Jan Kochanowski University of Kielce

Academic year 2022/2023

Faculty of Natural Sciences

Institute of Physics

Fields of study: Data Engineering / ICTs

Academic coordinator: Tomasz Ruść, PhD

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| DATA ENGINEERING / ICTs |
| Course unit | Przedmiot | Type | ECTS | Completion requirements  | Academic hours per semester |
| WINTER SEMESTER (1) |
| Internet Applications | Aplikacje internetowe | Lecture/ Laboratory | 5 | graded credit | 30/30 |
| Programmer’s Environment | Środowisko programisty | Laboratory | 2 | graded credit | 30 |
| Diploma Seminar | Seminarium dyplomowe | Seminar | 2 | graded credit | 30 |
| Diploma Laboratory | Pracownia dyplomowa | Laboratory | 4 | graded credit | 60 |
| Team Project | Projekt zespołowy | Project | 4 | graded credit | 60 |
| Java Programming | Programowanie w języku Java | Lecture/ Laboratory/Project | 5 | graded credit | 30/30/15 |
| Object Oriented Programming in Python | Programowanie obiektowe w języku Python | Lecture/ Laboratory/Project | 5 | graded credit | 30/30/15 |
| Physical laboratory | Pracownia fizyczna  | Laboratory | 4 | graded credit | 45 |
| Electronic laboratory | Laboratorium elektroniki | Laboratory | 4 | graded credit | 45 |
| SUMMER SEMESTER (2) |
| Data Visualization Techniques | Techniki wizualizacji danych | Lecture/ Laboratory | 5 | graded credit | 30/30 |
| Electronic laboratory | Laboratorium elektroniki | Laboratory | 3 | graded credit | 30 |
| Physical laboratory | Pracownia fizyczna  | Laboratory | 4 | graded credit | 45 |
| Embedded Systems | Systemy wbudowane | Lecture/ Laboratory/Project | 6 | graded credit | 30/30/30 |
| Digital Image Processing | Przetwarzanie obrazów | Lecture/ Laboratory/Project | 5 | graded credit | 30/30/15 |
| .NET Technology | Technologia .NET | Lecture/ Laboratory/Project | 5 | graded credit | 30/30/15 |
| Team Project | Projekt zespołowy | Project | 4 | graded credit | 60 |