

Course syllabus for ERASMUS+ incoming students

Course Title	
Software, Programming and Application Systems	
Academic Teacher	mgr inż. Przemysław Grobelny
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ECTS credits	5
Number of hours	120
Course code	INT-IPI-SPAS-26
Course description	
The course provides fundamental knowledge of software and operating systems, including their types, functions, and applications. It introduces the basics of application development, web and mobile applications, databases, cloud computing, and software security. Students develop an understanding of modern software solutions and acquire basic IT communication skills and technical terminology used in professional IT environments.	
Learning outcomes - course content	
Types of software Operating systems basics Application development Web & mobile apps Databases Cloud computing Software security IT communication	
Student workload (self-study description)	
Preparation – 20 hours Lectures and exercises – 20 hours Programming project – 30 hours Presentation – 10 hours Preparation for the final exam – 20 hours	
Literature	
McConnell S., Code Complete Sommerville I., Software Engineering	

Downey A., Think Python

Flasiński M., Wstęp do inżynierii oprogramowania

Grębosz J., Symfonia C++