



Politechnika Krakowska  
im. Tadeusza Kościuszki

<b>COURSE TITLE:</b>	C++ Programming
<b>Institute/Division:</b>	Faculty of Electrical and Computer Engineering, - E13
<b>Course code:</b>	
<b>Erasmus subject code:</b>	
<b>Number of contact hours:</b>	45 (20h lectures, 20h laboratory, 5h project)
<b>Course duration:</b>	1 semester (fall)
<b>ETCS credits:</b>	6

**Course description:**

The course covers the latest, key developments in Object Oriented Programming with C++ language:

- OO Principles and environments
- Development Approaches
- Structural Programming vs Object Programming
- Objects and Classes, Associations and Multiplicity
- Generalization and Inheritance,
- Advanced Relationships and Aggregation
- Polimorphism
- Overloading Operators

Computer laboratory and Project extend topics from lecture

**Course type:**

Lectures, computer laboratory and project

**Literature:**

1. Bruce Eckel „Thinking in C++”.
2. Stanley B. Lippman, Josee Lajoie, Barbara E. Moo „C++ Primer (5th Edition).

**Assessment method**

Project and laboratory exercises

**Contact person:**

mgr inż. Sławomir Bąk, email [sbak@pk.edu.pl](mailto:sbak@pk.edu.pl)