Politechnika Krakowska
Wydział Informatyki
i Matematyki

Course title	Introduction to Machine Learning
Institute/Division	Faculty of Computer Science and Mathematics/ Department of Computer Science
Course code	F-1.ML
Erasmus subject code*	11.4
Number of contact hours**	45 lecture hours (45h)
Course duration	1 semester (Spring)
ECTS credits	6
Course description (max 100 words)	The main aim of this course is to acquire students' knowledge of basic machine learning (ML) methods. Upon completion, students should be able to implement basic machine learning algorithms and demonstrate knowledge of popular libraries in their chosen programming environment (recommended: Python). The theoretical part focuses on the backgrounds of popular ML algorithms, such as k-NN, SVN, decision trees, etc. In practical work, the students will learn how to implement and use the Scikit-learn,pandas, keras, seaborn, and numpy frameworks.
Literature	O. Theobald: Machine Learning for Absolute Beginners: Scatterplot Press, 2017
Course type/organization	Lectures (15h), Computer labs (15h), Projects (15h)
Assessment method	Attendance at lectures, practical exercises at labs and passing individual projects
Prerequisites	Good programming skills in Python
Primary target group	Computer science students: 2nd or 3rd-year Bachelor's students with good programming skills.
Contact person	Joanna Kołodziej (PhD, DsC, Prof.PK)
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