



<b>Course title</b>	<b>Recommender Systems</b>
<b>Institute/Division</b>	Faculty of Computer Science and Telecommunication/ Department of Computer Science
<b>Course code</b>	F-1.RS
<b>Erasmus subject code</b>	11.3
<b>Number of contact hours**</b>	45 lecture hours (45h)
<b>Course duration</b>	1 semester (Spring/Fall)
<b>ECTS credits</b>	6
<b>Course description</b> (max 100 words)	This course offers a comprehensive introduction to recommender systems, which are essential in many domains. <ul style="list-style-type: none"><li>- Linear algebra</li><li>- Content-Based Filtering</li><li>- Collaborative Filtering: user-based nearest neighbor recommendation, item-based nearest neighbor recommendation, model-based and preprocessing-based approaches</li><li>- Matrix Factorization Techniques</li><li>- Hybrid Recommender Systems</li><li>- Session-based &amp; knowledge-based recommendation</li><li>- Evaluating recommender systems</li><li>- Deep learning for recommender systems</li></ul>
<b>Literature</b>	1. Recommender Systems Handbook, Ricci F., Rokach L., Shapira D., Kantor B.P., Springer (2011). 2. Recommender Systems For Learning, Manouselis N., Drachsler H., Verbert K., Duval E., , Springer (2013).
<b>Course type/organization</b>	Lectures, Computer labs, Projects
<b>Assessment method</b>	Laboratories, assignments, project, exam
<b>Prerequisites</b>	Python language, basic calculus and algorithms, machine learning basics
<b>Primary target group</b>	Computer science students in the 3rd or 4th year
<b>Contact person</b>	dr inż. Mariam Zomorodi, prof. PK
<b>Course application deadline</b>	
<b>Remarks</b>	N/A

\*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