| Course title | Recommender Systems |
|---|---|
| Institute/Division | Faculty of Computer Science and Mathematics/ Department of Computer Science |
| Course code | F-1.RS |
| Erasmus subject code* | 11.3 |
| Number of contact hours** | 45 lecture hours (45h) |
| Course duration | 1 semester (Spring/Fall) |
| ECTS credits | 6 |
| Course description (max 100 words) | This course offers a comprehensive introduction to recommender systems, which are essential in many domains.<br>- Linear algebra<br>- Content-Based Filtering<br>- Collaborative Filtering: user-based nearest neighbor recommendation, item-based nearest neighbor recommendation, model-based and preprocessing-based approaches<br>- Matrix Factorization Techniques<br>- Hybrid Recommender Systems<br>- Session-based & knowledge-based recommendation<br>- Evaluating recommender systems<br>- Deep learning for recommender systems |
| Literature | 1. Recommender Systems Handbook, Ricci F., Rokach L., Shapira D., Kantor B.P., Springer (2011).<br>2. Recommender Systems For Learning, Manouselis N., Drachsler H., Verbert K., Duval E., , Springer (2013). |
| Course type/organization | Lectures, Computer labs, Projects |
| Assessment method | Laboratories, assignments, project, exam |
| Prerequisites | Python language, basic calculus and algorithms, machine learning basics |
| Primary target group | Computer science students in the 3rd or 4th year |
| Contact person | dr inż. Mariam Zomorodi, prof. PK |
| Course application deadline | |
| Remarks | 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