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| 1. | **Course title** | Recommender Systems, Virtual Guidance and Self-Help in Knowledge Mastery |
| 2. | **Course code** | ЕДУ-И-04 |
| 3. | **Semester** | 10 |
| 4. | **Unit offering the course** | Faculty of Computer Science and Engineering |
| 5. | **ECTS** | 6 |
| 6. | **Goals of the study programme** | |
| | The aim of the course is to acquaint the student with advanced methods and technologies that enable virtual guidance in knowledge mastery, recommending topics of interest, recommending paths of interest and self-help systems in order to prevent potential problems. Apart from the educational sphere, the course is also useful for students from the commercial spheres, especially in improvement of the organization of human resources based on knowledge mastery assessment.Competencies that the student is expected to acquire after completing the course:- Understanding methods and techniques for knowledge mapping- Understanding methods and techniques for assessing success and risk in mastering knowledge- Use of data analysis technologies in knowledge mapping, performance and risk assessment- Use of technologies for visualization of the knowledge space- Implementation of integrated systems for mapping, visualization, navigation, referral, guidance and self-help using ready-made technologies | |
| 7. | **Contents of the study programme** | |
| | Topics covered within this course:- Introduction to automated interest detection and virtual guidance.- Methods for mapping areas, areas, topics and competencies in one area of interest.- Methods for assessing success in mastering knowledge.- Methods for discovering interest in mastering knowledge.- Navigation through the space of knowledge.- Social navigation and collaborative definition of interests.- Methods for spatial self-orientation through the space of knowledge.- Methods for recommending paths of movement through the space of knowledge.- Methods for recommending areas of interest and learning topics personalized to the user.- | |

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| | Evaluation of the quality of mapping of the knowledge space.- Assessment of the quality of recommendations.- Career guidance.- Indicators of problematic regions in the knowledge space, impact assessment.- Implementation of integrated virtual guidance systems through knowledge mastery, recommenders and self-help. |