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| Title of the course: Risk analysis | NEPTUN-code: RMXKO1ABNE | Weekly teaching hours: <i>l+cw+lb</i> 2+1+0 | Credit: 3 Exam type: <i>e</i> |
| Course leader: Sándor Pekker, Dr. | Position: research professor | Required preliminary knowledge: | |
| Curriculum: | | | |
| <p>Definition and types of risk</p> <p>The risk-taking</p> <p>Risk measures</p> <p>The controllability of risk</p> <p>Environmental risks and environmental functions of companies</p> <p>Health Risk Assessment (HRA)</p> <p>Ecological Risk Assessment (ERA)</p> <p>The risk of natural hazards, disasters</p> <p>The environmental risk of toxic elements</p> <p>Environmental risks in the information society</p> <p>Special and border areas.</p> | | | |
| Professional competencies: | | | |
| <p>Knowledge of general and specific mathematical, natural and social scientific principles, rules, relations, and procedures as required to pursue activities in the special field of environment protection.</p> <p>In possession of state-of-the-art IT skills, being able to use professional databases and certain design, modelling, and simulation software depending on their specialty.</p> <p>Knowledge of the learning, knowledge acquisition, and data collection methods of the special fields of environment protection, their ethical limitations and problem solving techniques.</p> <p>Knowledge of the methodology and legal regulations for performing environmental impact assessments and for compiling impact studies.</p> <p>Able to perform environmental impact assessments and to participate in compiling impact studies.</p> <p>Able to perform public administrative and authority tasks related to environment protection after getting acquainted with the duty assigned to them.</p> | | | |
| Literature: | | | |
| 1. Marvin Rausand: Risk Assessment: Theory, Methods, and Applications (Statistics in Practice), 1st Edition, Wiley, 2011, ISBN-13: 978-0470637647; ISBN-10: 0470637641 | | | |
| 2. Thomas Simon: Edition: Fundamentals of Applied Risk Assessment – eBook, Edition: 2; Copyright: 2013 , Kendall Hunt, Pages: 532; ISBN 9781465229373 | | | |
| 3. Ian Lerche, Walter Glaesser: Environmental Risk Assessment: Quantitative Measures, Anthropogenic Influences, Human Impact, Springer Science & Business Media, 2007, 343 pages; ISBN: 9783540297093 | | | |