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| Title of the course: Basic of energetics | NEPTUN-code: RKWEG1EBNE | Weekly teaching hours: $l+cw+lb$ 2+1+0 | Credit: 4 Exam type: tm |
| Course leader: Konrád Lájér, Dr. | Position: associate professor | Required preliminary knowledge: RKXEL1EBNE | |
| Curriculum: | | | |
| <p>The principle and possibilities of electricity production in a traditional and alternative way.</p> <p>Discussing and demonstrating the individual structural elements.</p> <p>Operation of electric generators.</p> <p>Basic energy solutions to connect with renewable systems.</p> <p>Temporary energy storage.</p> | | | |
| Professional competencies: | | | |
| <p>Knowledge of the concepts and tools of economics and environmental economics, project and environment management in environment protection.</p> <p>Knowledge of major environmental technologies, equipment and structures associated with each technology, including the functioning and operation thereof.</p> <p>Knowledge of the basics of energy management, options for energy production, their advantages and disadvantages, as well as the concept and feasibility options of sustainable development.</p> <p>Able to participate in project and proposal implementation and audit tasks based on their knowledge.</p> <p>Able to participate creatively in engineering work based on their multidisciplinary skills, as well as to adapt to continuously changing circumstances.</p> | | | |
| Literature: | | | |
| 1. Vaclav Smil: Energy in Nature and Society: General Energetics of Complex Systems (MIT Press) First Edition (1st printing) Edition, ISBN-13: 978-0262693561; ISBN-10: 0262693569 | | | |
| Comment: | | | |