



## DEÜ DEPARTMENT OF GEOPHYSICAL ENGINEERING PROGRAMME OBJECTIVE and OUTCOMES

### Programme Objective

Our graduates are the engineers, who can work in earth science and engineering-related private or governmental organisations, can take part in studies in the field of Geophysical Engineering with the fundamental skills they have gained, develop and manage new studies, and have the competence to pursue an academic career at postgraduate level.

### Programme Outcomes [MÜDEK (Version 2.2.)]

**PO1:** Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in the solution of complex engineering problems.

**PO2:** Ability to formulate, and solve complex engineering problems in Geophysical Engineering; ability to select and apply proper analysis and modeling methods for this purpose.

**PO3:** Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.

**PO4:** Ability to select and use modern techniques and tools needed for analyzing and solving complex problems encountered in Geophysical engineering practice; ability to employ information technologies effectively.

**PO5:** Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or discipline of Geophysical Engineering specific research questions.

**PO6:** Ability to work individually; ability to work efficiently in intra-disciplinary and multi-disciplinary teams.

**PO7:** Ability to communicate effectively, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.

**PO8:** Awareness of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.

**PO9:** Knowledge on behavior according ethical principles, professional and ethical responsibility and standards used in engineering practices.

**PO10:** Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.

**PO11:** Knowledge about the global and social effects of Geophysical engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.