**Training Requirements and Learning Outcomes for  
the Postgraduate Diploma in Strategic Engineering and Sustainability Leadership**

1. **Course name:**  
   Postgraduate Diploma in Strategic Engineering and Sustainability Leadership
2. **Qualification:** Strategic Engineering and Sustainability Manager
3. **Field of training:** Engineering
4. **Application requirements:**

at least a bachelor’s degree with the following requirements:

1. professional engineering qualification, or
2. in the case of no professional engineering qualification:

ba) qualification in the fields of technical studies, Economics, Science, or Informatics; or qualification as an English teacher

bb) in the case of other qualifications, 3 years of relevant leadership experience is required

1. **Duration:** 2 semesters
2. **Required credits:** 60 credits
3. **The competencies, knowledge, skills, and personal abilities to be acquired in the course, and applying the qualification in a specific environment and a system of activities.**
   1. **Competencies to be acquired:**

Self-management and personal skills development:

* management of personal resources and professional development.
* networking.

Sustainable organizational management:

* management of engineering organizations;
* social responsibility;
* applying modern EU standards;
* mapping the organization’s operating environment
* development of the organization's strategic business plan
* compliance with legal, regulatory, ethical, and social requirements;
* risk management.

Cooperation:

* developing productive working relationships with colleagues and other stakeholders;
* team-building.

Resource management:

* financial management of engineering organizations;
* organization of additional funding.

Result-orientedness:

* knowing the market and the customer base;
* creating a user-centric organization;
* improving organizational performance.
  1. **Knowledge and skills to be acquired:**
* solving the organizational management tasks of engineering organizations;
* applying management techniques and approach;
* social responsibility at a strategic level;
* applying financial planning methods;
* information management and decision making at a strategic level;
* risk management.

**Skills to be acquired:**

* organizational management skills;
* sustainable strategic planning of engineering organizations and enterprises;
* engineering management skills;
* tools and methods of sustainability;
* tools and methods of project design;
* enhancing professional language skills.
  1. **Personal abilities:**
* a high level of compliance with planning and leadership challenges in organizational leadership;
* analytical ability, problem solving, system approach, assessment of the possibility of sustainability developments, assessment of market competition;
* effective communication and collaboration with colleagues, employees, customers and clients, professional communication in English.
  1. **Applying the qualification in a specific environment and a system of activities:**

Students who complete the course are able to:

* independently lead a specific engineering organization, enterprise, or organizational unit;
* review, implement, and control strategic plans;
* effectively manage the engineering organization, enterprise, or organizational unit;
* make decisions, and plan for social responsibility and risk management with sustainability in mind
* meet the requirements of an international workplace by completing the subjects in English.

1. **Major areas of knowledge of the qualification and their credit values**

**Fundamental knowledge: 18 credits**

Personal development of the strategic engineering manager; Strategic performance management; Financial management of engineering organizations

**Professional knowledge: 21 credits**

Strategic information management; Analysis of the strategy, plans, and performance of engineering organizations; Carrying out strategic management projects

**Supplementary professional knowledge: 16 credits**

Development of risk management strategies, Strategic social responsibility

1. **Credit value of the thesis:** 5 credits

