

University Politehnica of Timișoara
Faculty of Engineering Hunedoara

**Master Degree Programme: MECHANICAL SYSTEMS ENGINEERING AND
MANAGEMENT**

The mission of the master's degree programme *Mechanical Systems Engineering and Management* framed in the *Engineering and Management* field, is part of the overall mission of the Faculty of Engineering Hunedoara, namely to train specialists with high technical-economics education for manufacturing, design and research sectors, through initial and continuing professional training at university and postgraduate level, in engineering and interdisciplinary fields. It is intended that graduates of this master program, through scientific, technical-economics and technological knowledge as well as specific skills acquired, to provide for the country's western region, a part of the necessary specialists.

The master degree program *Mechanical Systems Engineering and Management* has been designed to provide graduates to deepen their knowledge and to obtain additional skills in the *Engineering and Management* field, enabling both application of modern concepts regarding manufacture, testing, commissioning and operation of equipment and mechanical systems, and designing, implementing and improving the management systems of company and of resource management. The master degree program meets the growing demand of specialists with technical-engineering and economic knowledge for industry, research and design, including addressing issues of modeling, simulation and analysis of processes by current computer means. The program aims is specializing at high quality standards, needed to ensure the competitiveness of master graduates in the European economic area.

Professional competences:

- The methods and means of advanced design.
- Current methods for the design and manufacture of mechanical systems.
- Technical, economic and financial management of manufacturing and integrated management.
- Management innovation, quality and sustainability.