

FME TUL

**IMPLEMENTATION PLAN
FOR THE STRATEGIC PLAN
OF EDUCATIONAL AND CREATIVE
ACTIVITIES
OF FME TUL

FOR 2025**

The Scientific Council of the Faculty of Mechanical Engineering of the TUL,
discussed this on December 4, 2024.
The Academic Senate of the Faculty of Mechanical Engineering of the TUL,
approved on February 4, 2025.

INTRODUCTION

The Implementation Plan for the FME TUL Strategic Plan for 2025 is based on the Strategic Plan for Educational and Creative Activities of the FME TUL for the period 2021–2025 with a outlook to 2030.

It presents a set of specific measures and steps for 2025 that are intended to fulfill the key tasks set out in the Faculty of Mechanical Engineering of the TUL Strategic Plan for 2021–2025.

In 2025, the Faculty of Mechanical Engineering of the will evaluate the 2021–2025 period and discuss the faculty’s goals and tasks of the faculty for the years 2026–2030.

All of the points presented below are geared toward this mid-term review.

In 2025, standard activities will be carried out in individual areas of operation, and established and proven activities and measures evaluated in the Annual Reports on the Activities of the Faculty of Mechanical Engineering of the TUL.

In specific areas, activities defined in the Faculty of Mechanical Engineering of the TUL Implementation Plans for 2021, 2022, 2023, and 2024 will be initiated or continued.

The measures and activities listed below will be implemented in a targeted manner in specific areas.

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A / EDUCATION AND STUDY

- Continue activities that strengthen institutional accreditation standards.
- Respond to changes associated with the amendment to the Higher Education Act.
- Continue activities initiated, implemented, and established in the years 2021–2024.
- Evaluate the development of existing study programs in response to today's new challenges with the aim of ensuring the long-term employability of graduates in the labor market. Revise syllabi, evaluate the success of study programs, and involve program and course coordinators, students, graduates, and employers in the process.
- Continue preparing the professional bachelor's degree program in Sustainable Engineering.
- Discuss and address the content and preparation of accredited courses leading to micro-certificates – link to C/Social Responsibility.
- Continue to organize external workshops/seminars to expand students' knowledge and skills of students, including their education in innovation and entrepreneurship in cooperation with industry partners, the Lipo.Ink business incubator and the Regional Development Agency.
- Continue with established activities to strengthen partnerships with industry partners, with secondary schools in the Liberec Region and the wider region, including universities in the Oberlausitz region.
- With the support of the TUL, enhance the pedagogical and professional competencies of doctoral students and academic staff, with a focus on didactic support, new trends in teaching, presentation skills, artificial intelligence, etc.
- Continue with the established teaching evaluation system at the Faculty of Mechanical Engineering of the TUL. Develop cooperation with TUL and the Center for Higher Education Studies, utilizing the findings from focus group interviews with students, instructors, and program directors.
- Continue analyzing the causes of early withdrawal from studies.
- Support an increase in academic success and the proportion of students who successfully complete their studies, as well as the development and innovation of study materials.
- Support students' creative activities.
- Support departments in establishing networks of partner universities with similar focuses—particularly in EU countries—and organize webinars for students and staff.
- Continue to organize webinars and joint workshops with foreign universities.
- Analyze the feasibility and value of introducing a TUL double degree program, in light of the interest expressed by foreign universities.
- Continue cooperation with foreign agencies for the promotion and recruitment of self-paying students.
- Continue creating materials for international promotion: video content, laboratory presentation materials, and banners.
- Continue the international promotion of the faculty: personal participation in international student fairs, online presentations of English-language study

programs, and the organization of joint workshops on selected topics to showcase research activities and laboratory facilities within the context of teaching.

- Establish and maintain contact and cooperation with TUL Faculty of Mechanical Engineering alumni abroad, e.g. as part of Alumni Day at the Faculty of Mechanical Engineering of the TUL.
- Establish and maintain activities and contacts within the Faculty of Mechanical Engineering's LinkedIn network.
- Increase the level of activity on the part of the FME TUL departments toward the internationalization of activities within established contacts and networks.
- Submit applications under the Erasmus+ KA171 call for the Malaysia, Bosnia and Herzegovina in the 2025 call.

B / RESEARCH, DEVELOPMENT, INNOVATION

- Continue the activities initiated, implemented, and established in the years 2021–2024.
- Complete the preparation of materials for the M2025+/Module 4,5 evaluation. Prepare for evaluation by an international panel.
- Continue the activities initiated and proven effective from 2021–2024.
- Complete the evaluation of research programs and establish a plan for further activities.
- Update the FME TUL R&D&I Strategy +2030 for the years 2026 to 2030.
- Intensify cooperation with the Czech Academy of Sciences research institutes.
- Complete and commission the new hydrogen technology laboratory.
- Integrate AI (artificial intelligence) and ML (machine learning) tools into research activities.
- Conduct an analysis and establish recommended criteria for habilitation and professorial proceedings in relation to strengthening the international dimension of scientific and research activities.
- Take into account changes in the funding of doctoral studies in relation to the requirements for supervisors.

C / SOCIAL RESPONSIBILITY

- Continue the activities initiated, implemented, and established in the years 2021–2024.
- Discuss the role of micro-certificates in the FME TUL's educational offerings, particularly in light of the growing necessity of lifelong learning, including the perspective of employers' requirements for certified positions.
- Continue cooperation with regional agencies, associations, and professional chambers.
- Strengthen the faculty's image and awareness among the younger generation, employers, and the general public.
- Evaluate the first year of the "Kick-off (for) Engineering" project and, if appropriate, develop in cooperation with IAESTE LC.

- Continue to promote and showcase technical education in the areas and topics addressed at the faculty.

D / ACADEMIC COMMUNITY AND FACULTY COMMUNITY

- Continue the activities initiated and proven effective from 2021–2024, with priority given to:
 - Continue the so-called Diamond Graduation Ceremonies and any gatherings with other graduating classes.
 - Organize specialized lectures to promote R&D&I activities
 - Continue holding regular annual meetings with members of the academic community on the occasion of their work and life anniversaries.
- Organize a meeting of the Faculty of Mechanical Engineering academic community.
- Prepare and conduct elections for the Dean of the Faculty of Mechanical Engineering of the TUL, for the 2026–2029 term.

E / ACTIVITY MANAGEMENT

- Continue the activities initiated, implemented, and established in 2020–2024.
- Utilize the “application” for determining/allocating funds from the DKRVO (Dean’s Directive No. 1/2024) and integrate it into activity management.
- Implement TISSAX – a quality system for operating the KVM Department’s laboratory – so that it meets information security requirements for information exchange within the automotive industry supply chain. A prerequisite for further cooperation with entities.
- Begin preparing and establishing activity standards leading to the acquisition of the HR Award.

F / INFRASTRUCTURE

- Equip the faculty computer labs with sufficient capacity, particularly for teaching in BSP.
- Continue the renewal and acquisition of new infrastructure within the FRIM of individual departments.

FINANCIAL RESOURCES

- Contribution from the Czech Republic’s state budget
- Grant from the Czech Republic’s state budget
- Investment Program for the Development of University Infrastructure, Ministry of Education, Youth and Sports of the Czech Republic
- Development and grant programs of the Ministry of Education, Youth and Sports of the Czech Republic – Program to Support Strategic Management

at the Technical University of Liberec for 2023, National Recovery Plan for Higher Education, Centralized Development Program for Public Universities

- Grant programs of the regions and Prague
- Programs of the Czech Academy of Sciences, the Czech Science Foundation, the Technology Agency of the Czech Republic, and Czech ministries
- OP JAK, OP TAK, and other EU Operational Programs
- Horizon Europe Program
- International cooperation programs in research and development
- Programs to support the mobility of students and academic staff
- TUL's own resources
- Contract research
- Supplementary Activities
- Donations