



**FACULTY OF MECHANICAL
ENGINEERING, TRANSPORT AND
AERONAUTICS**

**INSTITUTE OF MECHANICS AND
MECHANICAL ENGINEERING**

FMETA Institute of Mechanics and Mechanical Engineering (IMME) implements **project** of LCS (Latvian Council of Science) «**Carbon-Rich Self-Healing Multifunctional Nanostructured Smart Coatings (NSC) for High-Tech Applications Using High-Power Confined Plasma Technology for their Deposition**» (Nr. lzp-2019/1-0385).

The project is implemented from Januray 1, 2020 to December 31, 2022.



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The aim of the project: to develop innovative wear-resistant and corrosion-resistant nanostructured smart coatings (NSC) for high-tech applications. NSC will significantly reduce friction between machineparts in relative motion and increase their wear resistance, machine productivity and safety.

The new type NSC will exhibit **coefficient of friction $<0,1$ and ultra-low wear rate**. Therefore, NSC increases the overall productivity and safety of machines. **The service life of machine components will be increased 2-3 times.**

PROJECT OF LCS



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