

Division: *Institute of Engineering and Technology, Department of Thermal Power Engineering*

Academic programme: *13.04.01 Heat and Power Engineering, Master's programme in Heat Power Engineering*

Mode of study: *full-time*

Programme length: *2 years*

Programme level: *Master's degree*

Language of instruction: *English*

Programme description: *The programme was developed for specialists in heat power engineering and the thermal component of renewable energy sources. The foundation of the programme is applied engineering disciplines, wherein students study heat exchangers for ventilation and air conditioning systems and computer modelling of thermal processes. Students also study wind turbines and combined heat and power production systems. Heat power engineering is a universal specialty which is not tied to any specific type of company. Thermal power engineers are in demand everywhere: thermal power stations, thermal networks, boilers. At factories and plants, thermal power engineers service compressor and pumping stations, air separation units, gas and air supply systems, industrial air conditioning systems, and heating and water supply systems. At thermal power plants, thermal power engineers work as boiler and turbine operators, steam and gas plant operators, linemen, installers, and repairmen. In housing and communal services, thermal power engineers work in heat supply and management companies. In addition, no building or industrial facility can be designed without thermal power engineers: only thermal power engineers can design heating networks, thermal boiler houses, gas piston plants, and heating, ventilation, and gas supply systems.*

Main programme-specific classes:

- *Heat Exchangers*
- *Refrigeration*
- *Wind Power*

Programme manager: *(Head of the Department of Industrial Thermal Engineering, Candidate of Sciences (Engineering), Associate Professor Konstantin V. Osintcev)*