



Since 2011, the Faculty of Mechanical and Power Engineering at Wrocław University of Science and Technology in Poland, has offered a full-time Master's program in Refrigeration and Cryogenics (conducted in English). Graduates of the program acquire detailed knowledge of devices and installation methods dedicated to the cooling of temperatures down to -150°C and, in the case of cryogenics, to lowering temperatures below 120 K, down to fractions of Kelvin. Each student finishes the program with skills in the design, implementation and operation of both refrigeration and cryogenic devices and systems. Our graduates are prepared to work in all industrial branches of applied refrigeration and cryogenic technologies. Additionally, the program also prepares students for further Ph.D. studies, also offered within our

Faculty.

The length of the MSc program is 1.5 years (3 semesters). The curriculum includes lectures, exercises, labs, projects and seminars, and covers topics such as:

- Thermodynamic fundamentals of refrigeration, cryogenics and low temperature physics,
- Vapor-compression and sorption refrigeration systems,
- Air conditioning systems,
- Refrigerants, coolants and cold chain technologies,
- Cryogenic materials and fluids,
- Cryogenic systems and applied superconductivity,
- LNG production and applications.



For more information please visit our web site: <https://wme.pwr.edu.pl/en/rac/program-overview>

or scan the QR code: