MB9 Department of Fundamentals of Machinery Design Aircraft Design





Silesiar niversit echnolog





RMT6@polsl.pl

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Characteristics of the specialty

Aircraft Design is a multidisciplinary specialization where students acquire knowledge in the field of building and designing aircraft such as airplanes, rotorcrafts and unmanned aerial vehicles. This specialization covers a wide range of engineering fields: from the structural design and manufacturing, through the aircraft maintenance and operation to flight dynamics and simulations. Obtaining a master's degree in this specialization provides expertise and skills in the area of the construction, design and operation of flying ships, their energy requirements, and ensuring an appropriate level of reliability. Our specialty gives you the possibility to obtain knowledge of the cutting-edge design, analysis and simulation software.

Program of specialties, forms of education

- English in aviation, implemented as language speaking classes
- Aerodynamics and flight dynamics, implemented as lectures, classes and laboratories
- Flight simulators, implemented as lectures and laboratories
- Aircraft design methodology, implemented as lectures and a project
- Airframe design and construction, carried out as lectures and laboratories
- Group project implemented as PBL (Project Based Learning)
- Flight mechanics, implemented as lectures and laboratories

Master's degree studies (MSc)



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Specialization at the 2nd degree of studies for the field of: Mechanical Engineering

Why our speciality is worth choosing?

- possibility of a collaboration with specialists from the aviation industry from Poland and abroad,
- specialization is taught in English ,
- meeting interesting people from all over the world and making friends with peers from around the world who have also chosen this specialization,
- internships in aviation companies and trips to such companies,
- participation in seminars and student conferences, as well as the possibility of being active in student scientific associations,
- innovative education program tailored to the needs of companies from aviation industry.

Contact:

- rmt6@polsl.pl
- www.polsl.pl/rmt6
- www.aerospace.engineering.polsl.pl

Graduate profile and employment prospects

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A graduate of the specialization may apply for positions in the field of research and development, testing and design in the aviation industry. In addition, the basics of aerodynamics, thermodynamics, materials science and 3D modeling allow for career development also in other industries, such as: automotive, machine industry and other sectors of the engineering and manufacturing industry. By taking part in group projects joining students with different experience and nationality, the graduate will be able to manage various responsibilities in the team, incl. Running a project and solving engineering problems similar to once found in the industry field.

www.rekrutacja.polsl.pl