SYLLABUS & REGULATIONS

Course name: **Machine design 6**
Course name in other language: **Podstawy Konstrukcji Maszyn 6**
Short name: **MD6**
Course code: **1130-AERO0-ISA-6009 // ML.ANK368**
Course language: **English**

ECTS: 3
Hours: 2h/week, 30h/semester - project

Contents:
Designing of an aircraft subassembly or other devices (with the similar way of working to an aircraft subassembly) . Proposals of shapes and dimensions of components. Choosing of available materials. Kinematic, static and strength calculations. Engineering drawings - assembly and several components (CAD system is required).

Bibliography:
1. Machine Design – An Integrated Approach, Second or Third edition, by Robert L.Norton, Prentice Hall 2000-2006.
2. Machine Elements in Mechanics and Design – Fourth Edition, by Robert L. Mott, Prentice Hall 2006.
3. Design of Machine Elements – seventh edition, by M.F.Spotts and T.E.Shoup, Prentice Hall 1998.
4. Leonid Kurmaz – Projektowanie Węzłów i Części Maszyn

Grading criteria:
1. Discussion during classes.
2. Checking and evaluating of the technical documentation i.e. drawings and calculations.
3. Faults analysis of the checked project (individual discussion with tutor).

The basic points of regulations associated with grading are as follows:
1. Only the student who is registered for this course can complete it.
2. The presence at the classes of the course is obligatory and can be checked.
3. There will be homeworks (graded) and final project (graded).

In extraordinary cases the Head of the Fundamentals of Machine Design Division takes the decision about completing the course.

Meetings:

The course will be hybrid and will take place live in classroom AC or on-line with the Microsoft Teams platform. There will be dedicated MD6 course group. All the materials will be available there. The meeting will be on Wednesdays 2 – 8 pm (there will be group division). Office hours (on-line, at MS Teams) are on Wednesdays 8:15-9:00 and 13:15 to 14:00. Please make an appointment earlier via e-mail.

Course Teacher & Coordinator:
Rafał Perz, PhD