**Course Title:** Aircraft design I

**Type of course:** undergraduate

**Field of study (Programme), specialization** AEROSPACE ENGINEERING

<table>
<thead>
<tr>
<th>Faculty course (module) code</th>
<th>Semester 5</th>
<th>ECTS: 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANK307</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Level of course (module):** 1  
**Compulsory:** yes

**Format (Teaching methods):**
- Lectures: 2 hours/week
- Guided Project: 1 hour a week

**Lecturers (Course leader):** dr hab. inż. Cezary Galiński

**Objective:** To learn about creating the airplane concept


**Abilities:** After completing his course the students will be able to specify technical requirements, analyse costs and weights, create initial sketches of the airplane and modify design parameters to achieve desired flight performances.

**Assessment method:** e.g., 50% continuous assessment based on the project work, 50% colloquium

**Practical work:** Guided Project, where each student will design his own airplane

**Recommended texts (reading):**
1) Book 1 Raymer, Daniel P. “Aircraft design”
2) Book 2 Corke, Thomas C. „Design of Aircraft”
3) Book 3 Roskam, Jan. „Airplane design”

**Further Readings:**
5) - Book 3 Roskam, Jan. „Airplane design”
- Will be provided by lecturer

**Prerequisites:** Mechanics of flight 1

**Additional remarks**