

Aircraft Design

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Aircraft Design

Learning outcomes:

- Student knows components of the aircraft design process.
- Student is capable to design simple airplane.
- Student knows functions, characteristics and loads of an airplane components.
- Student is capable to analyze flight characteristics and loads of an airplane, select and evaluate the propulsion system and equipment.

Aircraft Design

Learning outcomes:

- Student knows how to conduct trends analysis in aeronautics.
- Student is capable to analyze costs.
- Student knows selected rules of current airworthiness regulations.
- Student is capable to prepare the documentation of his/her engineering work.
- Student is aware of deadlines importance.

Rules of crediting

Colloquium 1	Colloquium 2	5 projects
max. 25 pt.	max. 25 pt.	max. 50 pt. (5 x 10)

Maximum amount of points for each project decreases by 2 every week after it's deadline.

0 pt. from any project is equivalent to the overall course failure.

Possible exceptions:

- important and documented accident or sickness**
- active and documented work in students' scientific clubs or students union.**

Project deadlines

Project 1	18.10.2022
Project 2	08.11.2022
Project 3	13.12.2022
Project 4	03.01.2023
Project 5	17.01.2023

Rules of positive crediting

- 1. More than 51 pt. altogether
and**
- 2. more than 13 pt. from colloquium 1
and**
- 3. more than 13 pt. from colloquium 2
and**
- 4. all 5 projects accepted (together, no
less than 25 pt.)**

Marks

No. of points	mark
$N < 51$	2,0
$51 \leq N < 68$	3,0
$68 \leq N < 79$	3,5
$79 \leq N < 88$	4,0
$88 \leq N < 95$	4,5
$95 \leq N$	5,0

References:

T. C. Corke „Design of Aircraft”

http://wps.prenhall.com/esm_corke_aircraft_1

D.P. Raymer „Aircraft Design, a Conceptual Approach”

J. Roskam „Airplane Design”

D. Stinton „The Design of the Aeroplane”

E.Torenbeek „Synthesis of Subsonic Airplane Design”

J.D. Anderson „Aircraft Performance & Design”

J.P. Fielding „Introduction to Aircraft Design”

L.R. Jenkinson, J.F.Marchman III „Aircraft Design Projects”