

Theory of Machines and Automatic Control - project class

The Faculty of Automotive and Construction Machinery Engineering

Winter 2018/2019

teachers: Sebastian Korczak, PhD Eng.; Paweł Wawrzyniak, PhD Eng

<http://myinventions.pl/lectures/>

Group 1 – Wednesday, 8:15-10:00, room 3.14

Group 2 – Wednesday, 10:15-12:00, room 3.11

date	topics	assessment
7.11.2018	Introduction. 1st project topics distribution. Graphical methods.	---
14.11.2018	---	---
21.11.2018	1st project consultations. Analytical method.	---
28.11.2018	---	---
5.12.2018	1st project commitment. 2nd project topics distribution.	1st project evaluation.
12.12.2018	2nd project consultations.	---
19.12.2018	2nd project commitment. 3rd project topics distribution. Characteristics of basic automatic control elements. Block diagram algebra.	2nd project evaluation.
26.12.2018	---	---
2.01.2019	---	---
9.01.2019	3rd project consultations. PID control.	---
16.01.2019	3rd project consultations. Stability criteria.	---
23.01.2019	3th project commitment.	3rd project evaluation.
25.01.2019: Final class evaluation.		
28.01.2019 – 10.02.2019: exam session		

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Class regulations

During the course students perform three individual projects according to class schedule. To pass the class all projects must be accepted by teacher and total number of 13 points must be achieved. Two absences will cause negative final mark. A week project delay will cause minus one point. A two-week project commitment delay will cause negative final mark.

Class scoring:

- 1st project: 0-10pts
- 2nd project: 0-5pts
- 3rd project: 0-10pts

Final mark evaluation based on total number of points:

2,0 (unsatisfactory): <13,0

3,0: 13,0-15,0

3,5: 15,5-17,5

4,0: 18,0-20,0

4,5: 20,5-22,5

5,0: 23,0-25,0

Project topics

1. Kinematics of mechanisms.
2. Machine dynamics.
3. PID control systems' characteristics. Stability analysis.