Obuda University			Inst	Institute of Applied Mathematics			
John von Neumann Faculty of Informatics							
Name and code:				Credits:			
NAMSC1EVND Scientific Computing							
				2022/23 year II. semester			
¥							
Subject lecturers: Dr Kósi Krisztián							
Prerequisites (wit	h						
code):							
Weekly hours:	Lecture:	Seminar.:		Lab. hours:4	Consultation:		
Way of							
assessment:	<u> </u>						
Course description:							
<i>Goal</i> : trol. The course contains the necessary mathematical tools, and extends the basic ideas							
of the Non-Linear systems to the Adaptive Non-Linear control.							
Course description: To give the students an overview of mathematical methods used in							
Control Theory. The course contains a programming part that shows the algorithms in Julia							
language and discusses the coding efficiency in sense of efficient code writing, and efficient							
code running time.							
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Lecture schedule							
Education week	Торіс						
1.	Introduction to LaTeX typesetting						
2.	Intrroduction to Julia language						
3.	Mathematical background						
4.	Mathematical	Mathematical background					
5.	Numerical methods						
6.	Fractals						
7.	Introduction to Machine Learning						
8.	Metric Space						
9.	Genetic algori	Genetic algorithms					
10.	Modelling and simulations						
11.	Adaptive Control SISO						
12.	Adaptive Control MIMO						
13.	Extra content						
14.	Project Presentation						
Midterm requirements							
E	ducation week	Торіс					
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Final grade calculation methods

The final grade calculated from the homeworks, or can be done a home project. If someone absent at lecture and lab, more than 30% will have denied from the course.

Achieved result	Grade
89%-100%	excellent (5)
76%-88<%	good (4)
63%-75<%	average (3)
51%-62<%	satisfactory (2)
0%-50<%	failed (1)

Type of exam

Type of replacement

References

Mandatory: Lecutre Notes Recommended: