

COURSE: Simulation of dynamical systems		
DEGREE: Industrial electronics and automation engineering	YEAR: 4	TERM: 1

				WEE	KLY PLANN	ING			
WEE	SESSIC	GRI (ma DESCRIPTION		GROUPS (mark X) DESCRIPTION		Indicate YES/NO If the	WEEKLY PROGRAMMING FOR	R STUDENT	
~	ON		LECTURES	SEMINARS	class room, audio-visual class room)	needs 2 teachers	DESCRIPTION	CLASS HOURS	HOMEWO HOURS (Max. 7h week)
1	1	Introduction to modeling and simulation	x		Computer class room with Matlab	No		1,6	
1	2	Definition and basic concepts	x		Computer class room with Matlab	No		1,6	3
2	3	Basic types of models of dynamical systems	x		Computer class room with Matlab	No		1,6	3

2	4				Computer class			1.6	
2	4				room with			1,0	
		Modeling and simulation languages review	Х		Matlab	No			
					Computer				
3	5				class			1,6	
		Introduction to block oriented languages for simulation		x	Matlah	No	Programming exercises		
				~	Computer	NO			
	_				class				
3	6				room with			1,6	
		Vectors and matrix handling		х	Matlab	No	Programming exercises		4
					Computer				
4	7				class			16	
-	,				room with			1,0	
		Exercises on vector and matrices definition		Х	Matlab	No	Programming exercises		
					Computer				
4	8				class			1,6	
		Programming and flow control (I)		x	Matlab	No	Programming exercises		4
					Computer	110			
_	_				class				
5	9				room with			1,6	
		Programming and flow control (II)		х	Matlab	No	Programming exercises		
					Computer				
5	10				class			1.6	
					room with			_,.	_
		Evaluation test (I)	-	X	Matlab	No	Test exercises		5
					Computer				
6	11				room with			1,6	
		Functions and libraries (I)		x	Matlab	No	Programming exercises		
					Computer				
6	4.2				class			1.5	
6	12				room with			1,6	
		Functions and libraries (II)		х	Matlab	No	Programming exercises		4
7	13				Computer			1.6	
	10	Evaluation test (II)		Х	class	No	Test exercises	1,0	5

				room with				
				Computer				-
				class				
7	14			room with			1,6	
		Libraries for diferential ecuations solving (I)	х	Matlab	No	Programming exercises		
				Computer				
				class				
8	15			room with			1,6	
		Libraries for diferential ecuations solving (II)	Х	Matlab	No	Programming exercises		
				Computer				
Q	16			class			16	
0	10			room with			1,0	
		Evaluation test (III)	Х	Matlab	No	Test exercises		6
				Computer				
9	17			class			1.6	
				room with			,-	
		Graphics (I)	X	Matlab	No	Programming exercises		
				Computer				
9	18			class			1,6	
		Graphics (II)	x	Matlab	No	Programming exercises		6
		Graphics (ii)	^	Computer	NO			0
				class				
10	19			room with			1,6	
		Graphics (III)	х	Matlab	No	Programming exercises		
				Computer				
10	20			class			1.0	
10	20			room with			1,6	
		Case study implementation (I)	Х	Matlab	No	Model development		6
				Computer				
11	21			class			1.6	
	~-			room with			1,0	
		Case study implementation (II)	Х	Matlab	No	Model development		
				Computer				
11	22			class			1,6	
		Coco study implementation (III)	v	room with	No	Madalimplamentation		_
		Case study implementation (III)	Х	ממוזהויו	INO	iviouel implementation		/

	Total	Hours of class plus studen	thomowork	hours hotw	pon wooks 1-11)			
						Subtotal 1	48,33	81
	Simulation Project implementation (IV)	X	Matlab	No	Personal work for evaluation			
29			room with				1,0	/
20			class				1.6	7
			Computer					
	Simulation Project implementation (III)	x	Matlab	No	Personal work for evaluation			
28			room with				1,6	
			class					
	Simulation Project implementation (II)	^	Computer	NU				- /
	Simulation Project implementation (II)	v	room with	No	Personal work for evaluation		-	7
27			class				1,6	
			Computer					
	Simulation Project implementation (I)	X	Matlab	No	Personal work for evaluation			7
20			room with				1,0	
26			class				16	
			Computer	-				
	Evaluation test (IV)	x	Matlab	No	Test exercises			
25			room with				1,6	
			class					
	Case study implementation (V)	X	Matiab	NO	Model implementation			/
			room with				, -	-
24			class				1.6	
			Computer					
	Case study implementation (IV)	X	Matlab	No	Model implementation			
23			room with				1,6	
			class					
	23 24 25 26 27 28 29	23 Case study implementation (IV)   24 Case study implementation (V)   25 Evaluation test (IV)   26 Simulation Project implementation (I)   27 Simulation Project implementation (II)   28 Simulation Project implementation (II)   29 Simulation Project implementation (IV)	23 Case study implementation (IV) X   24 Case study implementation (V) X   25 Evaluation test (IV) X   26 Simulation Project implementation (I) X   27 Simulation Project implementation (II) X   28 Simulation Project implementation (III) X   29 Simulation Project implementation (IV) X	23 Computer class room with X Matlab   24 Computer class room with X Matlab   24 Case study implementation (V) X Matlab   25 Case study implementation (V) X Matlab   25 Computer class room with X Matlab   26 Computer class room with X Matlab   26 Computer class room with X Matlab   27 Simulation Project implementation (I) X Matlab   28 Computer class room with X Matlab   28 Simulation Project implementation (III) X Matlab   29 Simulation Project implementation (IV) X Matlab	23 Computer class room with Matlab   24 X Matlab No   24 Case study implementation (IV) X Matlab No   24 Case study implementation (V) X Matlab No   25 Case study implementation (V) X Matlab No   25 Evaluation test (IV) X Matlab No   26 Simulation Project implementation (I) X Matlab No   27 Simulation Project implementation (II) X Matlab No   28 Simulation Project implementation (III) X Matlab No   29 Simulation Project implementation (IV) X Matlab No   29 Simulation Project implementation (IV) X Matlab No	23 Computer class room with X Matlab No Model implementation   24 Case study implementation (IV) X Matlab No Model implementation   24 Case study implementation (V) X Matlab No Model implementation   25 Evaluation test (IV) X Matlab No Test exercises   26 Evaluation test (IV) X Matlab No Test exercises   26 Simulation Project implementation (I) X Matlab No Personal work for evaluation   27 Simulation Project implementation (II) X Matlab No Personal work for evaluation   28 Simulation Project implementation (III) X Matlab No Personal work for evaluation   29 Simulation Project implementation (III) X Matlab No Personal work for evaluation   29 Simulation Project implementation (IV) X Matlab No Personal work for evaluation	23 Case study implementation (IV) X Computer class room with Matlab No Model implementation   24 Case study implementation (V) X Matlab No Model implementation   24 Case study implementation (V) X Matlab No Model implementation   25 Case study implementation (V) X Matlab No Model implementation   25 Evaluation test (IV) X Matlab No Test exercises   26 Computer class room with Computer class room with Computer class room with Computer class   26 Simulation Project implementation (I) X Matlab No Personal work for evaluation   27 Simulation Project implementation (II) X Matlab No Personal work for evaluation   28 Simulation Project implementation (III) X Matlab No Personal work for evaluation   29 Simulation Project implementation (IV) X Matlab No Personal work for evaluation   29 Simulation Project implementation (IV) X Matlab No Personal work for evaluation	23 Computer class room with No Model implementation 1,6   24 Case study implementation (IV) X Mataba class room with No Model implementation 1,6   24 Case study implementation (V) X Mataba voor with room with No Model implementation 1,6   25 Case study implementation (V) X Mataba voor with class room with No Model implementation 1,6   25 Evaluation test (IV) X Mataba voor with class room with voor with No Test exercises 1,6   26 Simulation Project implementation (I) X Mataba voor with room with voor with voor with simulation Project implementation (II) X Mataba voor with voor with voor with voor with voor with voor with voor with voor with voor with simulation Project implementation (III) X Matab voor with voor voor with voor voor with voor with voor voor with voor with voor with

15	Tutorials, handing in, etc				10	
16						
17	Assessment				3	
18						21
				Subtotal 2	13	21

<b>Total 2</b> (Hours of class plus student homework hours between week
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TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>)

33, 163

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