MEC-E1010 Dynamics of Rigid Body (Period I, 2022): preliminary schedule (12.8.2022)

Calculation hours (CH) and

XA7 1	ъ.,		T		nours (CH) and	
Week	Dat		Lectures	Exercises	demos	Topics of the lecture
36	5.9.2022	Mon	Lecture 1	Ex 0 & 1 =>		Basic considerations, relative and absolute observations, coordinate systems, rates of change of vectors, EOMs for particle
	6.9.2022	Tue			СН о	
	7.9.2022	Wed				
***************************************	8.9.2022	Thu	Lecture 2	Ex o <=	Demo o	Spherical coordinate system, rates of change of vectors
	9.9.2022	Fri				
	10.9.2022	Sat				
	11.9.2022	Sun				
37	12.9.2022	Mon	Lecture 3			Kinematics of rigid bodies: body fixed coordinate frame, orientation of a body (Euler angles)
	13.9.2022	Tue			CH 1	
••••••	14.9.2022	Wed		Ex 2 =>	••••••	
	15.9.2022	Thu	Lecture 4	Ex 1 <=	Demo 1	Kinematics of rigid bodies: relative motion, relative motion of rigid bodies
	16.9.2022	Fri			•••••	······································
	17.9.2022	Sat				
	18.9.2022	Sun				
38	19.9.2022	Mon	Lecture 5			Kinetics of rigid bodies: angular momentum, conservation of angular momentum, mass properties
	20.9.2022	Tue			CH 2	
•••••	21.9.2022	Wed		Ex 3 =>		
	22.9.2022	Thu	Lecture 6	Ex 2 <=	Demo 2	Kinetics of rigid bodies: EOMs for rotational motion - examples and special cases for EOMs
	23.9.2022	Fri	Lecture o	LA 2 \-	Dellio 2	Tallettes of right bottles. Bottle for routeful invitoir - examples and operations and operations and operations are also for the bottles.
	24.9.2022 25.9.2022	Sat Sun				
20	26.9.2022	Mon				NOTE: no lectures on week 39
39	• • • • • • • • • • • • • • • • • • • •	Tue			CH 3	NOTE. NO lectures on week 37
	27.9.2022	Wed			C11 3	
	28.9.2022	Thu		Ev.0. <-	Domoo	NOTE: no lectures on week 39
	29.9.2022			Ex 3 <=	Demo 3	NOTE: no rectures on week 39
	30.9.2022	Fri				
	1.10.2022	Sat				
	2.10.2022	Sun	T I			A = 1 t - 1 1 2
40	3.10.2022	Mon	Lecture 7	Ex 4 & Ex 5=>		Analytical mechanics
	4.10.2022	Tue			CH 4	
	5.10.2022	Wed				
	6.10.2022	Thu	Lecture 8		CH 5	Analytical mechanics
	7.10.2022	Fri				
••••••	8.10.2022	Sat				
	9.10.2022	Sun	•••••			
41	10.10.2022	Mon	Lecture 9			Analytical mechanics
	11.10.2022	Tue			CH 6	
	12.10.2022	Wed				
	13.10.2022	Thu	Lecture 10	Ex 4 & Ex 5<=	Demo 4 & 5	Review lecture
	14.10.2022	Fri				
	15.10.2022	Sat				
	16.10.2022	Sun				
42	17.10.2022	Mon				
	18.10.2022	Tue				
	19.10.2022	Wed	EXAM			
	20.10.2022	Thu				
	21.10.2022	Fri				
	22.10.2022	Sat				
	23.10.2022	Sun				

Lectures: Mondays 12:15 (lecture hall announced later)
Thursdays 12:15 (lecture hall announced later)
Calculation hours (CH): Tuesdays 12:15 (lecture hall announced later)

Thursdays 14:15 (lecture hall announced later)

Calculation hours (C Demo sessions:

Exam: Wednesday 19.10. 9-13 (K1, 215)

There will be 1+5 rounds of exercises with tagged home assignments.

[&]quot;=>" = exercise handed out

[&]quot;<=" = deadline for an exercise