## Program for the CAS course on "Mechanical & Materials Engineering" June 2024

Opening Introduction to begin and structure set in general Mechanical		2	3	4	5	6	7	8	9	10	11	12
Ge30 9930   Opening Introduction to Design for Accelerators Introd. to Mechanics and Computational Tools I Introd. to Mechanics and Structures I Introd. to Mechanics and Comfeet Introd. t			Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	We
0   0	08:00											
Introd. to Mechanics and Computational Tools II   Machining   NC magnets   Large structures II   Forming   Beam instrumentation     10:00 11:00   Coffee   C	08:30		Opening	-			Composite materials	Additive Manufacturing				
Introductions in Generatics and Computational Tools II (design)   Machining   NC magnets   Large structures II   Forming   Beam instrumentation     10:30 11:00 11												
11:00   Introd. to Mechanics and Structures II   Computational Tools II (fabrication)   Non Ferrous Materials     12:00   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design     13:00   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design     14:30   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)	09:30			•	Machining		NC magnets			Forming	Beam instrumentation	
11:00   Introd. to Mechanics and Structures II   Computational Tools II (fabrication)   Non Ferrous Materials     12:00   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design     13:00   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design     14:30   Metroduction to Engineering Materials   Non destructive testing   Sustainable and Affordable Design   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)   NDT (Group A)   NDT (Group A)   NDT (Group A)   NDT (Group B)												
12:00   Method: Sand Computational Tools II Non Ferrous Materials (fabrication)   Non Ferrous Materials (fabrication)   Non Ferrous Materials   Accelerators and Detectors   Medsurement Uncertainty     12:00   Method: Sand Computational Tools II Non destructive testing   Sustainable and Affordable Design   Design for Additive Manufacturing   Welding I   Welding I     13:00   Method: Sand Computational Tools II Non destructive testing   Sustainable and Affordable Design   Mech. Meas (Group D)   Not (Group D)				Coffee	_	Free study time				Coffee		Free stud
I 3:00   Meda	11:00				Non Ferrous Materials		SC magnets	Accelerators and		Vacuum brazing		
I 3:00   Methology   Mechanical testing   Mech. Meas.(Group A)   Mech. Meas.(Group B)												
Instruction   Mechanical testing   Mech. Meas.(Group B)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas.(Group B)   Mech. Meas.(Group B)   Mech. Meas.(Group B)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas.(Group B)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas	12:00	egistratio		Non destructive testing			-	Welding I		Welding II	RF Power and Couplers	
Link   Physical properties & Mechanical testing   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   Mech. Meas.(Group B)   Metrology (Gr. A)   Metrology (Gr. A)   Metrology (Gr. C)   Metrology		and re							cursio			
14:30   P   Physical properties & testing   Mechanical testing   Mech. Meas.(Group A)   Mech. Meas.(Group D)   Metrology (Gr. A)   Metrology (Gr.	13:00	day			Lur	ch			Ш			Lund
15:30   Introduction to Metrology   Mechanical measurements   NDT (Group C) Visit Firm 3 (Group B) Visit Firm 3 (Group C)   NDT (Group A) Visit Firm 3 (Group B)   NDT (Group A) Visit Firm 3 (Group A)   Visit Firm 1 (Groups C & D)   Visit Firm 1 (Groups C & B)   Visit Firm 1 (G	14:30	<b>o</b> Arrival (		Mechanical testing	Mech. Meas.(Group A)							Metrology
15:30   Introduction to Metrology   Mechanical measurements   Visit Firm 3 (Group D)   Visit Firm 3 (Group B)   Visit Firm 3 (Group A)   D)   B)   D												Fabrication Visit Firm 2 (0
16:30   Coffee   Mech. Meas.(Group A)   Mech. Meas.(Group A)   Mech. Meas.(Group B)   NDT (Group B)   Visit Firm 3 (Group D)   Visit Firm 3 (Group A)   Disit Firm 3 (Group A) <td>15:30</td> <td></td> <td></td> <td></td> <td>Visit Firm 3 (Group D)</td> <td>Visit Firm 3 (Group C)</td> <td>Visit Firm 3 (Group B)</td> <td>Visit Firm 3 (Group A)</td> <td></td> <td>D)</td> <td>В)</td> <td>D)</td>	15:30				Visit Firm 3 (Group D)	Visit Firm 3 (Group C)	Visit Firm 3 (Group B)	Visit Firm 3 (Group A)		D)	В)	D)
Image: control in the control in th	16:00					Coffee					Cot	ffee
17:00   Standards and Safety   Steels & Stainless Steels I   Design (Group B) NDT (Group C) Visit Firm 3 (Group B) Visit Firm 3 (Group D)   Design (Group C) NDT (Group D) Visit Firm 1 (Groups C & B) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 1 (Groups A & B)   Fabrication (Group D) Visit Firm 2 (Group D)   Visit Firm 2 (Group A)   D   Eabrication (Group D)   Visit Firm 2 (Group A)   D   Fabrication (Group D)   Visit Firm 2 (Group A)   D   D   Eabrication (Group B)   Visit Firm 2 (Group A)   Visit Firm 2 (Group A)   D   Eabrication (Group B)   Visit Firm 2 (Group A)   Visit Firm 2 (Group A)   D   Eabrication (Group B)   Visit Firm 2 (Group A)   D   Eabrication (Group B)   Visit Firm 2 (Group A)   D   Eabricat Group A)   Eabr	16:30				Mech Meas (Group D)	Mech Meas (Group C)	Mech Meas (Group B)		Metrolomy (Gr. A)	Metrology (Gr. C)	Metrology	
IS:00	17:00		Standards and Safety	Steels & Stainless Steels I	Design (Group B) NDT (Group C)	Design (Group A) NDT (Group B)	Design (Group D) NDT (Group A)	Design (Group C) NDT (Group D)		Fabrication (Group B) Visit Firm 1 (Groups C &	Fabrication (Group D) Visit Firm 1 (Groups A &	Fabrication Visit Firm 2 (0 D)
18:30 1-Slide-1-Minute Contamination Control (Groups C & D) Contamination (Groups A & Dinner   19:30 Dinner								visit i i i i s (Group A)			5)	
Seminar I Seminar II (Groups C & D) (Groups A &   19:30 Dinner								-				
	18:30		1-Slide-1-Minute		Seminar I		Seminar II					Contamination (Groups A & B
	19:30							Dinner				

cinema evening

2	13	14	15						
/ed	Thu	Fri	Sat						
	Cryostats and cryomodules	Detectors							
	Undulators	Collider basics							
udy time	Coffee								
	RF Applications	Beam Intercepting Devices							
	Fabrication summary	Alignment and Metrology							
			e day						
nch			ture						
gy (Gr. B)	Metrology (Gr. D)	Medical Applications with Accelerators	Departure day						
n (Group A)	Fabrication (Group C)								
(Groups C & D)	Visit Firm 2 (Groups A & B)	Accelerator Technology Highlights							
gy (Gr. B)	Metrology (Gr. D)	Coffee							
n (Group A) (Groups C & O)	Fabrication (Group C) Visit Firm 2 (Groups A & B)	Closing							
,	Вј								
on Control B)									
		gala dinner							