



## Norway grants Working together for a green, competitive and inclusive Europe

	Enternational Summer School on 5D Frinting in Dio-incentationes – 12-25 September 2022												
h	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	h	
	12.09.2022	13.09.2022	14.09.2022	15.09.2022	16.09.2022	17.09.2022	19.09.2022	20.09.2022	21.09.2022	22.09.2022	23.09.2022		
10	Opening ceremony and project presentation	CAD - Lecture	CAE - Lecture	3D printing and Rapid Tooling for mechatronics	Applications of 3D printing in pre- and inter-operative surgery	Progress report (preparing of the interim report for Monday	General progress of W1 and objectives of W2 Students' presentation (interim report + scientific presentations)	Intelligent (smart) materials	Metrology of mechatronic systems	Finalizing progress report, preparing final presentation	Presentations made by students for companies involved in the summer school - evaluation and feedback on behalf of the	10	
11	Participants' presentation and program guidelines for summer school	Workshop 3D / Launching of case studies	Workshop 3D CAE	Workshop 3D Printing	Enterprise dynamics (workshop)	smaller groups)	Feedback on behalf of the EMERALD experts and guidelines for W2	Admittance vs impedance control	Case studies particularities and specific tests related to Bio- mechanics	Final test, final questionnaires and feedbacks	companies, defining of common ideas of future diploma projects	11	
12	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	Lunch & free time	12	
13	Introduction to Biomechatronics	Workshop 3D CAD	VR and AR programming applications presentation, case studies	Actuators: theory	Presentation on behalf of Leycom company and Admasys companies from Romania	Preparing of scientific presentations for Monday (working in smaller groups)	Self-study of documentation (robotic arm) + interaction with student assistants	Admittance vs impedance control (programming)	Assembly and testing control	Final student presentations, live demonstrations, test corrections	Closing and awarding ceremony, future perspectives of the EMERALD project	13	
14	Visiting of MIL laboratories	Sensors: theory	Developing of VR /AR applications	Actuators: programming (robotic arm)	Presentation on behalf of OMNI 3D company from Poland	groups)	Bio-mechatronics: programming		Finalizing work on assembly, preparing final			14	
15	Visiting of i4Helse laboratories	Sensors: programming (robotic arm)		Progress report and summary	Presentation on behalf of Blatchford company in Norway	Boat trip in Kristiansand region, visiting of fiords		Programming case studies	presentation		Free time, sightseeing	15	
			WEEK 1				WEEK 2						

EMERAL D. International Summer School on 3D Printing in Pie mechatronics 12 23 Sentember 2022

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