'3D Printing a	and Biofabri	cation' July 2024	Program	
1	Time	Location	Торіс	Speaker
Monday 15-Jul	9.30 - 10.00		Check in and coffee	
	10.00 - 10.15	-	Welcome & Course Overview	Jos Malda (UMCU, Netherlands)
	10.15 - 10.40	Yellow college room	Student Introductions	Alba (UMCU, Netherlands)
	10.40 - 11.10		Basics of Additive Manufacturing	Riccardo Levato (Utrecht University, Netherlands)
	11.10 - 11.45		UltiMaker, a multidisciplinary company to unlock new applications	ТВА
	11.45 - 12.45		Lunch (Included)	
	12.45 - 13.15		3D technology in modern healthcare	Chien Nguyn (UMCU, Netherlands)
	13.15 - 13.45		Integrating additive manufacturing & AI	Bianca Maria Colosimo (Politecnico Milano, Italy)
	13.45 - 14.15		Coffee break	
	14.15 - 14.45		Medical 3D Planning and Printing: Optimal Medical Solutions for Better Clinical	Arsham Makaryan (Materialise NV, Belgium)
	14.45 - 16.00		Generation of 3D anatomical models using medical data	Arsham Makaryan (Materialise NV, Belgium)
	16.00 - 16.30		Hydrogels to bioprint functional tissue mimics	Oksana Dudaryeva (UMCU, Netherlands)
	16.30 - 17.30		Explaining assignments	Jos Malda / Riccardo Levato
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esday 16-Jul	8.15 - 9.00	University of Applied Scie	nce	
Workshop 3D Printing		Location: Padualaan 99	Introduction fablab	Joris van Tubergen
			1 Getting to know the firmware: introduction to gcode and using it on bioprinting z-	1. Gabriel Groesbacher
	10.00 - 12.00	Start workshops, choosing	corp) 2. workflow introduction, 3D drawing (tinkercad) & printing	2. Marry Bassa
		1 out of 3.	3. Hands-on machinework with different material (porcelain, chocolate, PLA)	3. Joris van Tubergen
	12.00 - 13.00		Lunch with lecture about scanning for protheses	in the second se
	12.00 - 13.00		1. Getting to know the firmware: introduction to gcode and using it on bioprinting, z-	1. Gabriel Groesbacher
	13.00 - 15.30	Start workshops, choosing		
	13.00 - 15.30	1 out of 3.	corp) 2. workflow introduction, 3D drawing (tinkercad) & printing	2. Marry Bassa
			3. Hands-on machinework with different material (porcelain, chocolate, PLA)	3. Joris van Tubergen
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	15.45 - 17.45	1 out of 3.	corp) 2. workflow introduction, 3D drawing (tinkercad) & printing	2. Marry Bassa
			3. Hands-on machinework with different material (porcelain, chocolate, PLA)	3. Joris van Tubergen
	17.45 - 18.00		Wrap-up	
Wednesd 17-Jul		имс		
	08.30 - 09.00	Heidelberglaan 100	Introduction to Regenerative Medicine & Stem Cells	Bernard Roelen (Utrecht University, Netherlands)
	09.00 - 09.45	Yellow college room	From biomedical bioprinting to biotechnology and towards space exploration	Michael Gelinsky (TU Dresden, Germany)
	09.45 - 10.10		Coffee break	
	10.10 - 10.45	1	Multiphoton Lithography for Biomedical Applications	Aleksandr Ovsianikov (TU Wien, Austria)
	10.45 - 11.45		High resolution printing and 4D biomaterials functionalization	Cole DeForest (University of Washington, USA)
Applications of 3D	11.45 - 13.00		Meet the experts lunch	
biofabrication	13.00 - 13.40		Biossembly of cells and materials for biofabrication	João Mano (University of Aveiro, Portugal)
	13.40 - 14.10		Regulatory aspects in biofabrication and medical 3D printing	Hanneke Later Nijland (Genome Lawyers)
	14.10-14.40			Andries van der Meer (Twente University, Netherlands)
			Organ on-a-chip technologies	Andries van der Meer (Twente Oniversity, Nethenands)
	14.40 - 15.00		Coffee break	Transition Common (Mathematical Common)
	15.00 - 15.30		Electrowriting in tissue engineering	Tomasz Jungst (Wuerzburg University, Germany)
	15.30 - 17.00		Work on assignment	
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hursday 18-Jul		Hubrecht / RMCU		
	8.45 - 09.15	Uppsalalaan 8	Volumetric Bioprinting for Fabrication of Highly Complex Living Structures	Paulina Nunez Bernal (UMCU, Netherlands)
	09.15 - 9.45		Biofabrication to boost cellular agriculture	Matt Baker (Maastricht University, Netherlands)
pplicatio	9.45 - 10.00		Coffee break	
s of 3D		Auditorium 08.30 -12.45		
	10.15. 10.50		Printing cartilage	Mylene de Ruijter (UMCU, Netherlands)
	10.50 - 11.15		Adult Stem Cells for Advanced In Vitro Models and Whole Organ Engineering.	Bart Spee (Utrecht University, Netherlands)
	11.15 - 11.45		How to advance myocardial repair - Printing cardiac tissue?	Alain van Mil (UMCU, Netherlands)
	11.45 - 12.15		Building a (vascularized) proximal tubule	Anne Metje van Genderen (Utrecht University, Netherland
	12.15 - 13.00	1	Lunch (included)	
	10.00	1		Jasper van Hoorik (BioINX), Fabien Guillemot (Poietis),
	13.00 - 14.15	Room 3	Perspectives in the biofabrication industry	Mauro Petretta (regenHu), Cathrin Schuly (Cellink),
	10.00 14.10			Guilleaume Feliksdal (Felix robotics)
	14.00 47.00		Laboratory to us and 2D biopyinting workships	
	14.00 - 17.30	-	Laboratory tour and 3D bioprinting workshop	Devide Diferent
	L		Station 1 - Extrusion printing	Davide Ribezzi
			Station 2 - Melt Electrowriting	Gabriel Groessbacher
			Station 3 - Volumetrci printing and DLP	Sammy Florczak
	ļ	1	Station 4 - LIFT printing	Fabien Guillemot
		1	Station 5 - Microfluidics and Organ-on-a-chip	Nuria Rodriguez
		•	Station 6 - Meet the Industry (BioINX, Poietis, BICO, Felix robotics, RegenHU)	Industry representatives + booth in the green area
	17.30 - 18.00		Station 6 - Meet the Industry (BioINX, Poietis, BICO, Felix robotics, RegenHU) Work on assignment	Industry representatives + booth in the green area
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iday 19-Jul	17.30 - 18.00 9.00 - 9.30			Industry representatives + booth in the green area Riccardo Levato
iday 19-Jul	9.00 - 9.30	UMC	Work on assignment Key collection	
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	9.00 - 9.30 9.30 - 10.30 10.30 - 12.00	UMC Heidelberglaan 100 Yellow college room	Work on assignment Key collection Student presentations New frontiers in extrusion, light-based and ultrasound-based biofabrication	
Presentations	9.00 - 9.30 9.30 - 10.30 10.30 - 12.00 12.00 - 12.15	UMC Heidelberglaan 100 Yellow college room	Work on assignment Key collection Student presentations New frontiers in extrusion, light-based and ultrasound-based biofabrication Announcement of award for best presentation	Riccardo Levato
	9.00 - 9.30 9.30 - 10.30 10.30 - 12.00	UMC Heidelberglaan 100 Yellow college room	Work on assignment Key collection Student presentations New frontiers in extrusion, light-based and ultrasound-based biofabrication	Riccardo Levato