Utrecht Summer Sch	ool: '3D Print July 2025	ing and Biofabrication',	Program	
	Time	Location	Торіс	Speaker
Monday 14-Jul	9.30 - 10.00 10.00 - 10.15	UMC Heidelberglaan 100	Check in and coffee Welcome & Course Overview	Jos Malda (UMCU, Netherlands)
	10.15 - 10.40	??? college room	Student Introductions	Estee Grandidier (UMCU, Netherlands)
	10.40 - 11.10 11.10 - 11.45		Basics of Additive Manufacturing 3D technology in modern healthcare	Riccardo Levato (Utrecht University, Netherlands) Chien Nguyn (UMCU, Netherlands)
	11.45 - 12.45		Lunch (Included)	
	12.45 - 13.15		Multiphoton lithography and high definition 3D printing	Aleksandr Ovsianikov (TU Wien, Austria)
	13.15 - 13.45		Integrating additive manufacturing & AI	Andrew Daly (University of Galway, Ireland)
	13.45 - 14.15 14.15 - 14.45		Coffee break Medical 3D Planning and Printing: Optimal Medical Solutions for Better Clinical Outcomes	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		Bioprinting hydrogels to engineer functional tissue mimics	Tina Vermonden
	16.30 - 17:20 17.20 - 17.30		Bioprinting at organ scale Explaining assignments	Mark Skylar-Scott (Stanford University, USA) Jos Malda / Riccardo Levato
Tuesday 45 Jul		University of Applied Science	Expanse assessments	
Tuesday 15-Jul		Location: Padualaan 99	Introduction fablab	Joris van Tubergen
Workshop 2D Printing	5.00 5.50		1. Getting to know the firmware: introduction to gcode and using it on bioprinting, z-corp) 2.	1. Gabriel Groesbacher
	10.00 - 12.00	Start workshops, choosing 1 out of 3.	workflow introduction, 3D drawing (tinkercad) & printing	2. Bram Nijhof
	12.00 10.00		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 1. Getting to know the firmware: introduction to gcode and using it on bioprinting, z-corp) 2.	1. Gabriel Groesbacher
Workshop 3D Printing	13.00 - 15.30	Start workshops, choosing 1	workflow introduction, 3D drawing (tinkercad) & printing	2. Bram Nijhof
		out of 3.	3. Hands-on machinework with different material (porcelain, chocolate, PLA)	3. Joris van Tubergen
	45	Start workshops, choosing 1	1. Getting to know the firmware: introduction to gcode and using it on bioprinting, z-corp) 2.	1. Gabriel Groesbacher
	15.45 - 17.45	out of 3.	workflow introduction, 3D drawing (tinkercad) & printing 3. Hands-on machinework with different material (porcelain, chocolate, PLA)	2. Bram Nijhof
	18.00	End	3. Hands-on machinework with different material (porceasil, chocolate, PLA)	3. Joris van Tubergen
	18.00	End		
Wednesday 16-Jul		UMC		
Applications of 3D biofabrication	08.30 - 09.00	Heidelberglaan 100	Introduction to Regenerative Medicine & Stem Cells	Bernard Roelen (Utrecht University, Netherlands)
	09.00 - 09.45	??? college room	From biomedical bioprinting to biotechnology and towards space	Michael Gelinsky (TU Dresden, Germany)
	09.45 - 10.10 10.10 - 10.45		Coffee break Two photon lithography in biofabrication	Angelo Accardo (TU Delft, Nethelands)
	10.45 - 11.45		Robotics technologies for bioprinting	Giovanni Vozzi (University of Pisa, Italy)
	11.45 - 13.00		Meet the expert lunch (Included)	
	13.00 - 13.40		Microfluidics-based bioprinting	Wojciech Święszkowski (TU Warsaw, Poland)
	13.40 - 14.10		Regulatory aspects in biofabrication and medical 3D printing	Hanneke Later Nijland (Genome Lawyers)
	14.10 -14.40		Organ on-a-chip technologies	Andries van der Meer (Twente University, Netherlands)
	14.40 -15.00		Coffee break	Malgorzata Wlodarczyk-Biegun (RU Groningen)
	15.00 -15.30		Electrowriting in tissue engineering	Juergen Groll (Wuerzburg University, Germany)
	15.30 - 17.00		Work on assignment	
	15.50 17.00			
Thursday 17-Jul	0.45.00.45	Hubrecht / RMCU		De l'as Name Devel (UNICH Nathedrada)
	8.45 - 09.15 09.15 - 9.45	Uppsalalaan 8	Volumetric Bioprinting for Fabrication of Highly Complex Living Structures Biofabrication to boost cellular agriculture	Paulina Nunez Bernal (UMCU, Netherlands) Lorenzo Moroni (Maastricht University, Netherlands)
Applications of	9.45 - 10.00		Coffee break	
3D		Auditorium 08.30 -12.45		
	10.15. 10.50 10.50 - 11.15		Printing cartilage Adult Stem Cells for Advanced In Vitro Models and Whole Organ Engineering.	Jos Malda (UMCU, Netherlands) Bart Spee (Utrecht University, Netherlands)
	11.15 - 11.45		How to advance myocardial repair - Printing cardiac tissue?	Alain van Mil (UMC Utrecht, Netherlands)
	11.45 - 12.15		Building a (vascularized) kidney proximal tubule	Anne Metje van Genderen (Utrecht University, Netherlands)
	12.00 - 13.00		Lunch (included)	Jasper van Hoorik (BiolNX),
	13.00 - 14.00	Room 3	Perspectives in the biofabrication industry	Jasper van Hoorik (Biolinx), Anke de Leeuw (regenHu)
	14.00 - 17.15		Laboratory tour and 3D bioprinting workshop	
			Station 1 - Extrusion printing	Paulina Nunez Bernal
			Station 2 - Melt Electrowriting Station 3 - Volumetrci printing and DLP	Lennard Spauwen Sammy Florczak
			Station 3 - Volumetrci printing and DLP Station 4 - LIFT printing	Nuria Gines Rodriguez
			Station 5 - Microfluidics and Organ-on-a-chip	Mohammad Jouy Bar
	17 15 10 00		Station 6 - Meet the Industry (BioINX, Poietis, BICO, RegenHU)	Industry representatives + booth in the green area
	17.15 - 18.00		Work on assignment	
Friday 18-Jul	9.00 - 9.30	UMC	Key collection	Riccardo Levato
	9.30 - 10.30	Heidelberglaan 100	Keynote Lecture - Regeneration and Biofabrication: learning from Nature	Leo Otsuki (IMBA, Austria)
	10.30 - 12.00	??? college room	Student presentations	
Presentations	12.00 - 12.15		Announcement of award for best presentation	
Assignments Wrap up	12.15 - 12.45		Wrap-up	
	12.45 - 14.00		Class Lunch (included)	