Summerschool UTRECHT

Agile prototype your dream! July 1 – July 10, 2025

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Tuesday, July 1		
Time	Activity	Description
9:00 - 12:00	Introduction Digital manufacturing	2D/3D drawing and 3D printing, the basics
12:00 - 13:00	Lunch time	
13:00 - 18:00	Hands-on workshop	Put the basics of 3D drawing and printing to work

Wednesday, July 2		
Time	Activity	Description
9:00 - 12:00	Introduction lasercutting	The basics of lasercutting and instruction on how to use the lasercutting machine
12:00 - 13:00	Lunch time	
13:00 - 18:00	Hands-on workshop	Use the knowledge of this morning and put the lasercutter to work

Thursday, July 3		
Time	Activity	Description
9:00 - 12:00	'Find your spark'	The basics of electronics, sensors and actuators
12:00 - 13:00	Lunch time	
13:00 - 18:00	Hands-on workshop	Use the Arduino and write software to let the microcontroller do magical stuff

Friday, July 4		
Time	Activity	Description
9:00 - 12:00	Introduction Waterjet cutting / Milling	The basics of the waterjet and milling and instruction on how to use the machines
12:00 - 13:00	Lunch time	
13:00 - 18:00	Hands-on workshop	Use the knowledge of this morning and put the waterjet cutting / milling machine to work to manufacture your design + Guest lecture Sustainability

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Monday, July 7		
Time	Activity	Description
9:00 - 12:00	Agile prototyping, the basics	Define the challenge that you want to address in this course Workshop ability to design
12:00 - 13:00	Lunch time	
13:00 - 18:00	First challenge	Work on your dream challenge, use design as a research method to understand and articulate your challenge.

Tuesday, July 8		
Time	Activity	Description
9:00 - 12:00	'Find your spark'	The basics of the Arduino Microcontroller and how to write software and use the Arduino
12:00 - 13:00	Lunch time	
13:00 - 18:00	Final challenge	Use the Arduino and write software to let the microcontroller do magical stuff

Wednesday, July 9		
Time	Activity	Description
9:00 - 12:00	Present first results	Prototyping
12:00 - 13:00	Lunch time	
13:00 - 18:00	Final challenge	Finishing version 1 of your prototype

Thursday, July 10		
Time	Activity	Description
9:00 - 12:00	Final challenge	This is the final stretch of your Agile prototyping challenge. You can put the
		dots on the I's.
12:00 - 13:00	Lunch time	
13:00 - 18:00	Present final results	Now it's time to present the results of the hard work of the past two weeks and show what you're capable of. It is time to shine.
		Remember though, designing is a never ending process, how are you going to improve your prototype next?