







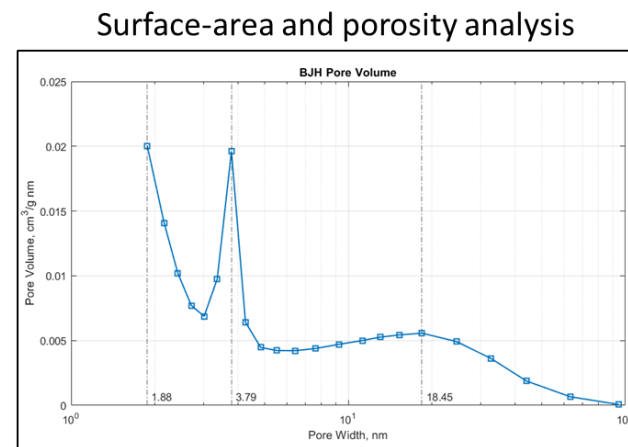
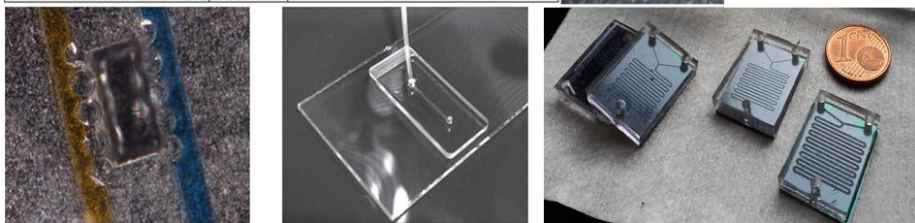
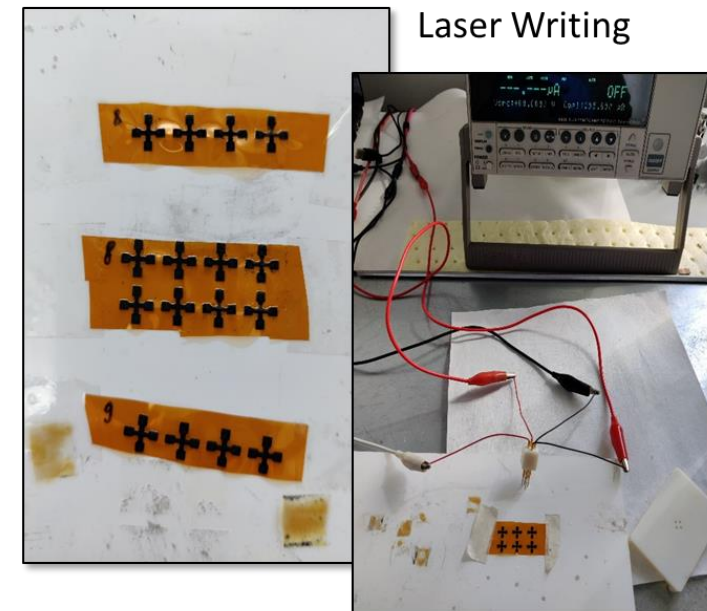
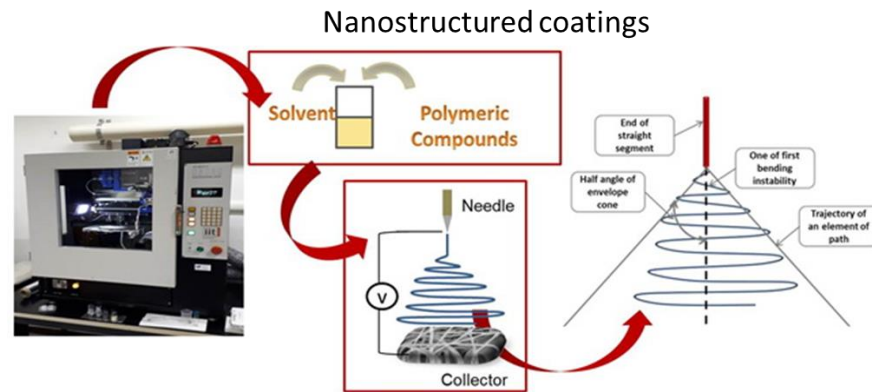
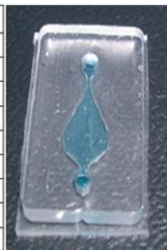


Activities/Experience	Instruments	Student Activity
<b>Micro and nanostructures laboratory (4,5 h)</b>	Morphological characterisation by microscopy of micro- and nanostructured surfaces of different materials (polymers, carbon, metals), mechanical adhesion testing (peel test), electrical characterisation, wettability, porosity and surface area measurements.	Viewing of material preparation and characterisation by the Professor. Students will be asked to carry out some preparation and characterisation operations. The raw data of some measurements (electrical characterisation, wettability, porosity and surface area) will be exported for the students to process and the analysis of which will be presented in the final report.

### Instrument photo collection

#### Micropatterning

# step	Description
1- 	1 Curing agent weigh
2- 	2 Base weight
3- 	3 Mixing
4- 	4 Degassing (better if in vacuum)
5- 	5 Casting
6- 	6 Cure
7- 	7 Demoulding
8- 	8 Cutting
9	9 Rinse in isopropyl alcohol

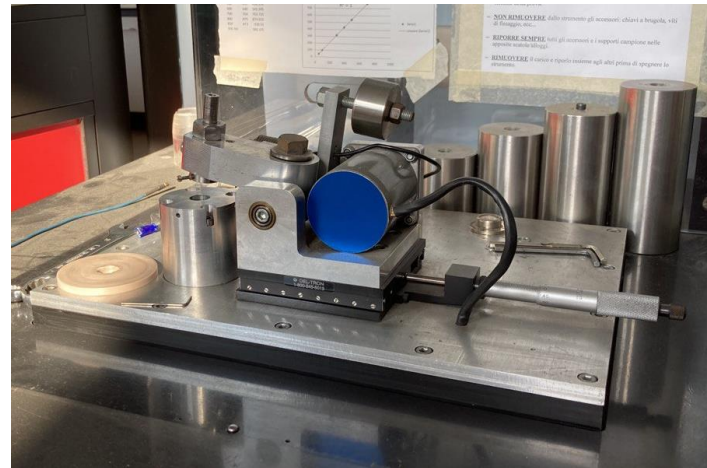


Activities/Experience	Instruments	Student Activity
<b>Tribology laboratory (4,5 h)</b>	Characterisation of the friction coefficient and wear resistance of surfaces for tribological applications.Characterisation of mechanical properties of PVD tribological coatings	Viewing of preparation of materials and preparation of characterisations by the lecturer. The raw data of some measurements will be exported for the students to process and include the data analysis in the final report.

Pin on disc

### Instrument photo collection

Traces of wear



Microdurometer



Indentation/cracks

