

Course

## Cooling & heat pump technology engineering



### General content

Subject	Credits
Introduction to home appliances sector	0.2
Application of home appliances	4
Smart home and conectivity	1.6
Regulations and standardization	1.6
Product and production engineering	2.6
Economical performance and costs	0.8
Innovation management	0.4
Intellectual property	0.8
	<b>12</b>

### Specific content

Subject	Credits
Introduction to HW&SW in home appliances	3
Fluid mechanical design	3
Advanced fluid mechanics	3
Heat transfer and heat exchangers	3
Cooling & heating cycles in home appliances	4.5
Industrial & emerging cooling & heating cycles	3
Energy storage and radiative heat transfer	3
Laminar burner design	3
Vibroacoustics & fatigue	4.5
	<b>30</b>

**Industrial internship** **12**

**Master's thesis** **6**

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