

Semester 1

| Unit teaching | Materials | Credits | Coefficient | Hourly volume weekly | | | Volume Hourly Biannual (15 weeks) | Work Complementary in consultation (15 weeks) | Assessment method | |
|--|---|---------|-------------|----------------------|------|--------|--------------------------------------|---|--------------------|------|
| | Titled | | | Course | TD | TP | | | Control Continuous | Exam |
| Fundamental EU Code: UEF 1.1.1 Credits: 10 Coefficients: 5 | Instrumentation electronics | 6 | 3 | 3h00 | 1h30 | | 67h30 | 82h30 | 40% | 60% |
| | Sensors in industrial instrumentation | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| Fundamental EU Code: UEF 1.1.2 Credits: 8 Coefficients: 4 | Advanced Signal Processing 01 | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| | Industrial metrology | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| EU Methodological Code: UEM 1.1 Credits: 9 Coefficients: 5 | Electronic instrumentation practical work | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | TP Sensors in industrial instrumentation | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | Advanced Signal Processing 01/ Industrial Metrology TP | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | Python/Java | 3 | 2 | 1h30 | | 1 hour | 37h30 | 37h30 | 40% | 60% |

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|--|-----------------------------------|-----------|-----------|------------------|------------------|------------------|-----------|------------------|------------------|--|
| EU Discovery Code: UED 1.1 Credits: 2 Coefficients: 2 | Subject of your choice | 1 | 1 h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% | |
| | Subject of your choice | 1 | 1 h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% | |
| Transversal EU Code: UET 1.1 Credits: 1 Coefficients: 1 | Technical English and Terminology | 1 | 1 h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% | |
| Total semester 1 | | 30 | 17 | 1:30 p.m. | 6:00 a.m. | 5:30 a.m. | | 375 hours | 375 hours | |

Semester 2

| Unit teaching | Materials | Credits | Coefficient | Hourly volume weekly | | | Volume Hourly Biannual (15 weeks) | Work Complementary e in consultation (15 weeks) | Assessment method | |
|---|---|---------|-------------|----------------------|------|------|-----------------------------------|---|--------------------|------|
| | Titled | | | Course | TD | TP | | | Control Continuous | Exam |
| EU Fundamental Code: UEF 1.2.1 Credits: 10 Coefficients: 5 | Microcontrollers and DSPs | 6 | 3 | 3h00 | 1h30 | | 67h30 | 82h30 | 40% | 60% |
| | Digital servo systems | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| EU Fundamental Code: UEF 1.2.2 Credits: 8 Coefficients: 4 | Advanced Digital Electronics: VHDL – FPGA | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| | Advanced Signal Processing 02 | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| EU Methodological Code: UEM 1.2 Credits: 9 Coefficients: 5 | Microcontrollers and DSP practical work | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | Digital servo systems TP/ Advanced signal processing TP 02 | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | VHDL - FPGA practical work | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |

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| | Project-based learning | 3 | 2 1h30 | | 1 hour | 37h30 | 37h30 | 40% | 60% |
| EU Discovery Code: UED 1.2 Credits: 2 Coefficients: 2 | Subject of your choice | 1 | 1 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| | Subject of your choice | 1 | 1 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| Transversal EU Code: UET 1.2 Credits: 1 Coefficients: 1 | Compliance with standards and rules of ethics and integrity | 1 | 1 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| Total semester 2 | | 30 | 17 1:30 p.m. 6:00 a.m. 5:30 a.m. 375 p.m. | | | | 375 hours | | |

Semester 3

| Teaching unit | Materials | Credits | Coefficient | Weekly hourly volume | | | Volume Hourly Biannual (15 weeks) | Work Complementary in Consultation (15 weeks) | Assessment method | |
|--|---|---------|-------------|----------------------|------|------|--|---|-----------------------|------|
| | Titled | | | Course | TD | TP | | | Control Continuous | Exam |
| EU Fundamental Code: UEF 2.1.1 Credits: 10 Coefficients: 5 | Industrial programmable logic controllers | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| | Industrial actuators | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| | Advanced sensors and measurement systems | 2 | 1 | 1h30 | | | 10:30 p.m. | 27:30 | | 100% |
| EU Fundamental Code: UEF 2.1.2 Credits: 8 Coefficients: 4 | Advanced power electronics | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| | Digital control elements | 4 | 2 | 1h30 | 1h30 | | 45h00 | 55h00 | 40% | 60% |
| EU Methodological Code: UEM 2.1 Credits: 9 Coefficients: 5 | Industrial programmable automation work | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | Industrial actuators TP/Digital regulation TP | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |
| | Advanced Power Electronics TP | 2 | 1 | | | 1h30 | 10:30 p.m. | 27:30 | 100% | |

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|------------------|---|----|----|-----------|-----------|-----------|------------|-----------|-----|------|
| | Reliability and maintenance of electronic systems | 3 | 2 | 1h30 | | 1 hour | 37h30 | 37h30 | 40% | 60% |
| EU Discovery | Subject of your choice | 1 | 1 | 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| Code: UED2.1 | | | | | | | | | | |
| Credits: 2 | Subject of your choice | 1 | 1 | 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| Coefficients: 2 | | | | | | | | | | |
| Transversal EU | Documentary research and dissertation design | 1 | 1 | 1h30 | | | 10:30 p.m. | 2:30 a.m. | | 100% |
| Code: UET2.1 | | | | | | | | | | |
| Credits: 1 | | | | | | | | | | |
| Coefficients: 1 | | | | | | | | | | |
| Total semester 3 | | 30 | 18 | 1:30 p.m. | 6:00 a.m. | 5:30 a.m. | 375 p.m. | 375 hours | | |