

Semester 1 Master: Industrial Maintenance

Unit teaching	Materials	Credits		Hourly volume weekly			Volume Hourly Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course Coefficient	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 1.1.1 Credits: 8 Coefficients: 4	Maintenance strategy	4	2	1h30	1h30		45h00	55h00	40%	60%
	Dynamics of structures	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 1.1.2 Credits: 10 Coefficients: 5	Mechanics of the environment continuous	4	2	1h30	1h30		45h00	55h00	40%	60%
	Thermodynamics Applied	4	2	1h30	1h30		45h00	55h00	40%	60%
	Statistical methods and sampling	2	1	1h30			10:30 p.m.	27:30	40%	60%
Methodological EU Code: UEM 1.1 Credits: 9 Coefficients: 5	Signal processing	4	2	1h30		1h30	45h00	55h00	40%	60%
	Dynamic practical work on structures	2	1			1h30	10:30 p.m.	27:30		100%
	Introduction to Materials	3	2	1h30		1 hour	37h30	37h30	40%	60%
EU Discovery Code: UED 1.1 Credits: 2 Coefficients: 2	Basket of your choice	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Basket of your choice	1	1	1h30			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	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 1		30	17	3:00 p.m.	6:00 a.m.	4:00 a.m.	375 hours	375 hours		

Semester 2 Master: Industrial Maintenance

Unit teaching	Materials	Credits		Hourly volume weekly			Volume Hourly Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Coefficient	Course TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 1.2.1 Credits: 10 Coefficients: 5	Finite element method	4	2	1h30	1h30		45h00	55h00	40%	60%
	Machine vibration rotating	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mechanical construction	2	1	1h30			10:30 p.m.	27:30	40%	60%
Fundamental EU Code: UEF 1.2.2 Credits: 8 Coefficients: 4	CMMS	4	2	1h30	1h30		45h00	55h00	40%	60%
	System Reliability	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 1.2 Credits: 9 Coefficients: 5	TP MEF	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
	Manufacturing processes and machine tools	4	2	1h30		1h30	45h00	55h00	40%	60%
	Sensors and techniques of measures	4	2	1h30		1h30	45h00	55h00	40%	60%
EU Discovery Code: UED 1.2 Credits: 2 Coefficients: 2	Basket of your choice	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Basket 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	Ethics, professional conduct and intellectual property	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 2		30	17	3:00 p.m.	6:00 a.m.	4:00 a.m.	375 hours	375 hours		

Semester 3 Master: Industrial Maintenance

Unit teaching	Materials	Credits		Hourly volume weekly			Volume Hourly Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course Coefficient	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 2.1.1 Credits: 10 Coefficients: 5	Tribology and Lubrication of Mechanical Systems	6	3	3h	00	1h30	67h30	82h30	40%	60%
	Fracture mechanics and damage	4	2	1h	30	1h30	45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.1.2 Credits: 8 Coefficients: 4	Applied acoustics	4	2	1h	30	1h30	45h00	55h00	40%	60%
	Fault detection techniques	4	2	1h	30	1h30	45h00	55h00	40%	60%
Methodological EU Code: UEM 2.1 Credits: 9 Coefficients: 5	Automation	3	2	1h	30		37h30	37h30	40%	60%
	Vibration diagnosis	4	2	1h	30		45h00	55h00	40%	60%
	Practical work on failure detection techniques	2	1				10:30 p.m.	27:30	100%	
EU Discovery Code: UED 2.1 Credits: 2 Coefficients: 2	Basket of your choice	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
	Basket of your choice	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 2.1 Credits: 1 Coefficients: 1	Documentary research and dissertation design	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
Total semester 3		30	17	12:00	6:00	7:00	375 hours	375 hours		

Discovery EU (S1, S2 and S3)

- 1- Welding processes**
- 2- Industrial Risks and Safety Techniques**
- 3- Operational Safety**
- 4- Non-destructive testing**
- 5- Turbomachines**
- 6- Electrical machines**
- 7- Applied electronics**
- 8- Applied electrical engineering**
- 9- Aeronautics**
- 10-Transport**
- 11-Quality management**
- 12-Collaborative design**
- 13- Theory of solving innovation problems "TRIZ Method"**
- 14-Motion transformation mechanisms and Cams**
- 15- Hydraulic and pneumatic systems and devices**
- 16-Metrology and quality**
- 17-Others (to be defined by the training team according to local priorities and/or regional)**