



MASTER'S DEGREE IN MECHANICAL ENGINEERING

DEGREE PROGRAMME 2016/2017

Course contents are available at this [link](#)

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Automatic Control Systems	ING-INF/04	C	6	60
1	Integrated Course: Mechanical Behavior of Materials				
1	- Module: Mechanics of Materials	ING-IND/14	B	6	60
1	- Module: Experimental Mechanics	ING-IND/14	B	6	60
1	Manufacturing Systems	ING-IND/16	B	6	60
1 - 2	Industrial Plans	ING-IND/17	B	12	120
2	Kinematics and Dynamics of Mechanisms	ING-IND/13	B	12	120

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Industrial Energy Technologies	ING-IND/09	B	9	90
2	Design of Fluid Machinery	ING-IND/08	B	9	90

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	4 courses from tab 1		C	24	
	Laboratories or internship		F	6	
	Elective activities ¹		D	12	
	Final Examination		E	12	

TOTAL CREDITS 120

(1) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.



Tab 1. Courses TAF C (4 from the list)

Sem	Teaching course	SSD*	TAF*	Credits	h
1st year					
2	Combustion and Heat Transfer	ING-IND/09	C	6	60
2	Finite Elements Analysis	ING-IND/14	C	6	60
2	Renewable Energy Technologies	ING-IND/09	C	6	60
2nd year					
1	Environmental Impact Energy Systems	ING-IND/09	C	6	60
1	Computational Modeling of Fluid Systems	ING-IND/08	C	6	60
1	Experimentation in Fluid Machines	ING-IND/08	C	6	60
2	Quality Management	ING-IND/16	C	6	60
2	Mechanics of Composite Materials	ING-IND/14	C	6	60

Other optional activities:

Sem	Laboratory	SSD*	TAF*	Credits	h
1	Simulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30
2	Fluid Automation	ING-IND/13	F	3	30
2	Nondestructive Testing	ING-IND/14	F	3	30
2	Modeling and Simulation of Energy Systems*	ING-IND/09	F	3	30
2	Mechanical Design Project*	ING-IND/14	F	3	30

* available from a.y. 2016/17

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity