Master's Degree in Engineering, School of Engineering-EEI, University of Vigo (www.eei.uvigo.es), 2019/2020

Route for students from the *Bachelor Degree in Technology Engineering* of this School of Engineering.

	1st year (60 ECTS)	2nd year (60 ECTS) Option tracks (electives) and Master's Thesis					
		Electric technology	**Electronics&Automation**	**Design and Manufacturing**	**Mechanics**	**Management Engineering**	**Installations and Construction**
1st semester (30 ECTS)	Hydraulic Machines (3) V04M141V01116						
	Industrial Statistics Applied to Engineering (6) V04M141V01121	Electrical Power Plants (4,5) V04M141V01319	Power Electronic Converters (4,5) V04M141V01304	Industrial Design (**E**) (6) V04M141V01314	Computer-aided Mechanical Design (**E**) (6) V04M141V01316	Products and Customer Service Management (6) V04M141V01317	Industrial Foundations, Simulation & Constructions (6) V04M141V01315
	Construction, Urbanism and Infrastructures (3) V04M141V01120	Industrial Applications of Electrical Machines (4,5) V04M141V01326	Design of Digital Electronic Systems for Industrial Control (6) V04M141V01320	Advanced Manufacturing Engineering (6) V04M141V01321	Automotive Vehicles (4,5) V04M141V01323	Management Information Systems (4,5) V04M141V01330	Metal and Concrete Structures (6) V04M141V01322
	Design of Industrial Electronic Systems (4,5) V04M141V01118	Electrical Installations and Efficient Use of Electrical Energy (6) V04M141V01332	Industrial Data Acquisition Systems and Sensors (4,5) V04M141V01306	Technologies for Design Communication and Improvement (4,5) V04M141V01327	Fluid Mechanics Engineering (6) V04M141V01329	Purchase and Distribution Management (4,5) V04M141V01336	Building Materials and Welding (4,5) V04M141V01312
	Industrial Control and Automation (4,5) V04M141V01119	Electricity Generation from Renewable Sources (6) V04M141V01338	Automated Integrated Production Systems (4,5) V04M141V01309	Laser Technology Applied to Industrial Production (**E**) (4,5) V04M141V01339	Heating and Cooling Systems 4,5) V04M141V01335	Quantitative Methods and Management Tools (4,5) V04M141V01342	Thermal Installations (4,5) V04M141V01328
	Integrated Manufacturing Systems (3) V04M141V01113	Quality & Management of Electrical Energy (4,5) V04M141V01343	Real-Time Control Engineering and Systems (4,5) V04M141V01308	Manufacturing Means, Machines and Tools (4,5) V04M141V01333	Heat Engines (**E**) (4,5) V04M141V01341	Quality, Security and Environmental Management (6) V04M141V01324	Electrical Installations (4,5) V04M141V01334
	Mechanical Engineering Design **(E) (3)** V04M141V01114	High Voltage Electrical Installations (4,5) V04M141V01347	Robotics and Perception Systems (6) V04M141V01307	Systems Engineering and Automation (4,5) V04M141V01344	Mechanical Manufacturing (4,5) V04M141V01345	Business Creation and Business Assets Management (4,5) V04M141V01346	Fluid Installations (4,5) V04M141V01340
	Thermal Technology II **(E) (3)** V04M141V01115						
2nd semester (30 ECTS)	Design and Calculation of Structures (3) V04M141V01211	Master'sThesis (24 ECTS) M141V01402					
	Transport Engineering & Industrial Handling (3) V04M141V01213						
	Electrical Energy Systems (6) V04M141V01201						
	Design of Chemical Processes (3) V04M141V01117						
	Project Management in Engineering (**E**) (3) V04M141V01222						
	Strategic Management. Production & Logistics (6) V04M141V01221						
	Industrial Installations & Innovation (**E**) (6) V04M141V01215						

(**E**): subject taught in English

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Route for students from the *specialist Bachelor Degrees* of this School of Engineering

(*Mechanical Engineering*, *Industrial Electronics & Automation Engineering*, *Electrical Engineering*, *Chemical Engineering*, *Management Engineering*)

	1st year 60 ECTS required (to be selected from the list below according to the Bachelor Degree of the student)			2nd year (60 ECTS) 36 ECTS required (to be selected from the list below according to the Bachelor Degree of the student) and Master's Thesis		
1st semester (30 ECTS)	Additional Topics in Electrical Engineering (6) V04M141V01101	Electrical Installations and Machines (6) V04M141V01102	Industrial Manufacturing (6) V04M141V01109	Design and Calculation of Structures (3) V04M141V01325	Project Management in Engineering (**E**) (3) V04M141V01318	Advanced Design and Calculation of Structures (3) V04M141V01305
	Control Engineering and Industrial Automation (6) V04M141V01111	Fluid Machines (6) V04M141V01105	Elasticity&Strength of Materials (6) V04M141V01108	Transport Engineering and Industrial Handling (3) V04M141V01331	Design of Chemical Processes (3) V04M141V01311	Advanced Transport Engineering and Industrial Handling (3) V04M141V01301
	Physics Extended (**E**) (6) V04M141V01104	Mathematical Methods in Industrial Engineering (6) V04M141V01106	Materials Engineering (6) V04M141V01103	Industrial Installations and Innovation (**E**) (6) V04M141V01337	Electrical Energy Systems (6) V04M141V01310	Strategic Management. Production and Logistics (6) V04M141V01313
	Sensors and Signal Conditioning (6) V04M141V01110	Thermal Technology I (6) V04M141V01112	Design and Testing of Machines (6) V04M141V01107			
2nd semester (30 ECTS)	Industrial Control and Automation (4,5) V04M141V01219	Advanced Design of Industrial Electronic Systems (4,5) V04M141V01207	Advanced Construction, Urbanism and Infrastructures (3) V04M141V01209			
	Advanced Industrial Control and Automation (4,5) V04M141V01208	Industrial Statistics Applied to Engineering (6) V04M141V01210	Advanced Integrated Manufacturing Systems (3) V04M141V01202			
	Mechanical Engineering Design (3) V04M141V01214	Design of Industrial Electronic Systems (**E**) (4,5) V04M141V01218	ThermalEngineering II (3) V04M141V01205			
	Advanced Mechanical Engineering Design (3) V04M141V01203	Hydraulic Machines (3) V04M141V01217	Thermal Technology II (E) (3) V04M141V01216			
	Construction, Urbanism and Infrastructures (3) V04M141V01220	Integrated Manufacturing Systems (3) V04M141V01212	Design of Hydraulic Machines and Industrial Oleopneumatics (3) V04M141V01206			

Master'sThesis (24 ECTS)

V04M141V01402

(**E**): subject taught in English