

Degree in Industrial Production Engineering

Coordinator:

- Prof. Doutor Nuno de Oliveira Calçada Loureiro

Duration:

3 school Years

Possible Careers:

- Maintenance Engineer
- Production Engineer
- Design Engineer
- Mechanical Technician-design and Production
- Physics and Chemistry Research Technician for the Industry
- Technician of Numeric Modelling of Systems and Components

Degree in Industrial Production Engineering: 1st year

Code	Identification	Semester	Hours	ECTs
41058	Technical English	Autumn	2/TP	3
41059	Linear Algebra and Descriptive Geometry	Autumn	2/TP	5
41060	Programming	Autumn	3/TP	5
41001	Physics	Autumn	3/TP	6
41008	Electricity	Autumn	3/TP	4
41043	Technical Drawing	Autumn	3/TP	7
41079	Chemistry	Spring	3/TP	5
41010	Mathematics I	Spring	3/TP	6
41061	Machine Drawing	Spring	3/TP	5
41062	Spreadsheets in Engineering	Spring	2/TP	4
41063	Materials Science	Spring	2/TP	4
41064	Statistics	Spring	3/TP	6

Degree in Industrial Production Engineering: 2nd year

Code	Identification	Semester	Hours	ECTs
41065	Thermodynamics	Autumn	2/TP	4
41066	Mechanical Technology	Autumn	4/TP	7
41014	Instrumentation	Autumn	2/TP	4
41019	Mathematics II	Autumn	3/TP	6
41020	Numerical Methods	Autumn	2/TP	3
41024	Solid Mechanics	Autumn	3/TP	6
41026	Corrosion and Coating Processes	Spring	3/TP	5
41049	Structural Connections	Spring	3/TP	6
41067	Computer-Assisted Design	Spring	2/TP	5
41068	Fluid Mechanics	Spring	3/TP	5
41069	Operational Research	Spring	2/TP	4
41070	Automation and Control	Spring	3/TP	5

Degree in Industrial Production Engineering: 3rd year

Code	Identification	Semester	Hours	ECTs
41071	Hydraulics and Pneumatics	Autumn	3/TP	5
41072	Electric Systems and Energy	Autumn	3/TP	4
41073	Seminar	Autumn	2/TP	6
41074	Machine Elements	Autumn	4/TP	6
41075	Heat Transfer	Autumn	2/TP	5
41034	Production Management	Autumn	2/TP	4
41035	Project and Industrial Cost Analysis	Spring	2/TP	3
41055	Climatization	Spring	4/TP	7
41076	Industrial Maintenance	Spring	2/TP	4
41077	Quality and Environment Management	Spring	2/TP	3
41078	Project	Spring	7/TP	13