







UNIVERSIDAD DE BURGOS

JOINT DEGREE IN MECHANICAL ENGINEERING AND INDUSTRIAL ELECTRONICS & AUTOMATION ENGINEERING


1st Year

Code	Course	Credits ECTS	Semester
7711	Calculus	6	Fall
7712	Algebra & Differential Equations	6	Fall
7713	Physics I	6	Fall
 7714	Chemistry	6	Fall
7715	Graphic Expression I	6	Fall
7716	Extended Calculus & Geometry	6	Spring
7717	Basic Computing	6	Spring
7718	Physics II	6	Spring
7719	Materials Science: Structure & Properties	6	Spring
7720	Business Economics	6	Spring
7721	Graphic Expression II	6	Spring

2nd Year

Code	Course	Credits ECTS	Semester
 7722	Thermal Engineering I	6	Fall
 7723	Fundamentals of Electrical Engineering	6	Fall
7724	Materials Elasticity & Resistance	6	Fall
7725	Statistics & Numerical Calculus	6	Fall
7726	Production Management	6	Fall
7727	Renewable Energies and Environment	6	Spring
 7728	Electrical Circuits Theory	6	Spring
7729	Fundamentals of Electronics	6	Spring
7730	Mechanisms	6	Spring
7731	Fluid Mechanics Engineering	6	Spring
7732	Automatizms & Industrial Control	6	Spring

3rd Year

Code	Course	Credits ECTS	Semester
7733	Materials Engineering	6	Fall
7734	Thermal Engineering II	6	Fall
 7735	Materials Elasticity & Resistance II	6	Fall
7736	Mechanisms II	6	Fall
7737	Analog Electronics	6	Fall
7738	Digital Electronics	6	Fall
7739	Industrial Production & Fabrication Systems	6	Spring
7740	Electric Machines	6	Spring
7741	Automatic Regulation	6	Spring
7742	Microprocessor Based Systems	6	Spring
7743	Machine Design I	6	Spring



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4th Year

Code	Course	Credits ECTS	Semester
7744	Power Electronics	6	Fall
7745	Machine Design II	6	Fall
7746	Electronic Instrumentation	6	Fall
7747	Graphic Engineering	6	Fall
7748	Technology of Electronic Systems	6	Fall
7749	Mechanical Technlology I	6	Spring
7750	Industrial Processes Control	6	Spring
7751	Industrial Installations I	6	Spring
7752	Industrial Computing	6	Spring
7753	Structural Analysis I	6	Spring
7763	Hydraulic Machines	6	Spring

5th Year

Code	Course	Credits ECTS	Semester
7754	Technical Office Work	6	Fall
7755	Industrial Automation	6	Fall
7756	Structural Analysis II	6	Fall
7757	Thermal Machines	6	Fall
7758	Industrial Robotics	6	Fall
7761	Final Project (Mechanical Engineering	18	Spring
7762	Final Project (Industrial Electronics and Automation Engineering)	18	Spring

ELECTIVE COURSES: Choose 6 ECTS among the following

Code	Course	Credits ECTS	Semester
7759	External Placements	6	-
7760	English for Mechanical Engineering	6	Spring

IMPORTANT INFORMATION

English Friendly Courses.
<ul style="list-style-type: none">• Fall Semester = 1º Semester• Spring Semester= 2º Semester
Elective courses require a minimum of students and could change the semester
Final Degree Dissertation and Internships may need special requirements