







**BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS  
& AUTOMATION ENGINEERING****1<sup>st</sup> Year**

Code	Course	Credits ECTS	Semester
6392	Algebra & Differential Equations	6	Fall
6393	Calculus	6	Fall
6394	Physics I	6	Fall
 6395	Graphic Expression	6	Fall
6396	Basic Computing	6	Fall
6397	Materials Science: Structure & Properties	6	Spring
6398	Extended Calculus & Geometry	6	Spring
6399	Physics II	6	Spring
6400	Chemistry	6	Spring
6401	Business Economics	6	Spring

**2<sup>nd</sup> Year**

Code	Course	Credits ECTS	Semester
 6402	Thermal Engineering	6	Fall
6403	Statistics & Numerical Calculus	6	Fall
 6404	Fundamentals of Electrical Engineering	6	Fall
6405	Production Management	6	Fall
6406	Materials Elasticity & Resistance	6	Fall
 6407	Fluid Mechanics Engineering	6	Spring
6408	Fundamentals of Electronics	6	Spring
6409	Mechanisms	6	Spring
6410	Automatisms & Industrial Control	6	Spring
 6411	Electrical Circuits Theory	6	Spring

**3<sup>rd</sup> Year**

Code	Course	Credits ECTS	Semester
6412	Analog Electronics	6	Fall
6413	Digital Electronics	6	Fall
6414	Automatic Regulation	6	Fall
 6415	Technology of Electronic Systems	6	Fall
6416	Electric Machines	6	Fall
6417	Power Electronics	6	Spring
6418	Microprocessor Based Systems	6	Spring
6419	Electronic Instrumentation	6	Spring
6420	Industrial Processes Control	6	Spring
6421	Industrial Production & Fabrication Systems	6	Spring

**4<sup>th</sup> Year**

Code	Course	Credits ECTS	Semester
6422	Industrial Computing	6	Fall
6423	Technical Office Work	6	Fall
6431	Industrial Automation	6	Spring
6432	Industrial Robotics	6	Spring
6433	Final Project	18	Spring

**ELECTIVES COURSES**

Code	Course	Credits ECTS	Semester
6424	Applications of Industrial Electronics	6	Fall
6426	Renewable Energies	6	Fall
6427	Safety & Workplace Accident Prevention	6	Fall
6428	Electronic Systems Integration	6	Fall
6429	Electric Installations	6	Fall
6430	Computer Assisted Design	6	Fall
6434	External Internships	6	Fall/Spring

**IMPORTANT INFORMATION**

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