



Code	INM358/INM377	Prerequisites	INM355 INM376
Name	Industrial Processes II	Co-requisites	INM355L INM376L

Credits	Contact Hours
04	44
Categorization of credits	
Math and basic science	
Engineering topic	X
other	

Coordinator's name	Pedro Pablo Benitez Luna
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Text book
Other supplemental materials
Grover, M. (2007). Fundamentals of Modern Manufacturing: Materials, Processes and Systems (Ed. 3). McGraw Hill. Lopez Casillas, A. (2008). Mecanica. Taller de Calculos. Schmid, S., & Kalpakjian, S. (2014). Manufacturing Engineering and Technology (7th ed. Vol. II). Wesley. Society of Manufacturing Engineering (2012). Manufacturing Engineering.

Description	
Students go through 4 courses that are focused on Basic Principles, Machining Technology, CNC and Quality Control in the Moodle learning environment. All courses have been designed according to the principles of a professional education and make use of the appropriate means of communication to enhance the level of knowledge of the students. The course is aimed at engineering students and its main goal is to provide them with knowledge of the fundamentals of modern CNC technology. Interactive dialog features allow students to progress at their own pace.	
Type of course	☒ Required ☐ Elective

Specific goals for the course

Outcomes of instruction	EG1. Use different techniques for solving problems that arise in the development of the subject. EG2. Design manufacturing processes to respond to specific needs, taking into account economic, manufacturing, environmental, health and safety constraints.
Student outcomes	CG1. Identify, formulate, and solve complex engineering problems by applying the principles of engineering, science, and mathematics. CG2. Apply the engineering design process to produce solutions that meet specific needs, taking into account public health and safety, global, cultural, social, environmental, and economic factors, as well as any other factor as appropriate to the discipline.

Topics
Unit I. CNC programming Unit II. Basics of the machining process Unit III. Introduction to measurement and quality assurance Unit IV. Metal cutting technology