

Code	TBD	Prerequisites	INM-377
Name	Molds	Co-requisites	None

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

Coordinator's name	Simón Pascual
Coordinator 5 name	Simon i ascaai

Text book

Kamer, David O. (2016). Injection Mold Design Engineering. (2E). United Stated of America. Hanser Publication.

Bryce M, Douglas. (1998). Plastic Injection Molding: Mold Design and Construction. (First Edition). United Stated of America. Society of Manufacturing Engineer (SME). Shahzad Ali, Muhammad. (2011). Plastic Injection Molds: Cooling System Design. (1E). Pakistan. Lap Lambert Academic Publishing.

Unger, Peter. (2006). Gastrow Injection Molds. (4E). United Stated of America. Hanser Publication.

Herbert, Rees. (2002). Mold Engineering. (2E). United Stated of America. Hanser Publication.

Other supplemental materials

Description			
It is a subject designed with the purpose of introducing future engineers to the broad			
and interesting topic of molds. It starts from the introduction to the basic concepts,			
design considerations, materials, costs, to the delivery of the product. We will try to			
approach the local mold manufacturers, with the intention of identifying their			
productive capacities, strengths and weaknesses, etc.			
T	☐ Required		
Type of course	⊠ Elective		

Specific goals for the course	
Outcomes of	1. Responsibly assume their academic role during the teaching-
instruction	learning process, participating in discussions and respecting the established work schedule.

	 Show receptivity to group collaboration in the development of improvement, modification and mold construction solutions. Define and distinguish industry trends by participating in updating processes, in order to propose solutions that reflect
	those available in the market.
Student outcomes	1. Recognize the need and are able to participate in initiatives and spaces for continuous learning and updating in both professional and academic contexts.

Topics

Unit I. Molds: Introduction

Unit II. Design and Cost of the Piece.

Unit III. Mold Architecture

Unit IV. Analysis and design of the filling system
Unit V. Feeding System
Unit VI, Gates and Venting
Unit VII. Cooling System Design
Unit VIII. Contraction, Ejection System and Maintenance Topics