

Code	IIN304	Prerequisites	120 approved credits
Name	Plastic Materials I	Co-requisites	None

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

Coordinator's name	Simón Pascual
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## Text book

Brent Strong, A. (2006). Plastic Materials and Processing. (Third Edition). New Jersey: Pearson Prentice Hall

Bryce M, D. (1999). Plastic Injection Molding. (First Edition). United Stated of America: Society of Manufacturing Engineer (SME)

Driver, W. E. (1982). Química y Tecnología de los Plásticos. (First Edition) México: Compañía Editorial Continental

Kulkarni, Suhas. (2016). Robust Process Development and Scientific Molding. (Third Edition). United Stated of America. Hanser Publication

Lerma Valero, J. R. (2015). Manual Avanzado de Transformación de Termoplástico Por Inyección. (First Edition). Spain. Plástico Universales Interempresa

Natti S. Rao. (2012). Understanding Plastics Engineering Calculations. (First Edition). United Stated of America. Hanser Publication

## Other supplemental materials

Rubín, I. I. (2008). Materiales Plásticos, Propiedades y Aplicaciones. México: Limusa Noriega Editors

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	Description	
	Materials I, within the polymers concentration, is the starting point for acquiring basic	
	knowledge in the world of plastics. Through the presentation of the teacher, the	
	reading of bibliography, visits to facilities, observations, product/process evaluations	
	and academic discussion, it seeks to provide the knowledge and concerns that guide	
	the path of an unstoppable growth interest.	
Type of course	Tr. C	☐ Required
	Type of course	⊠ Elective

St	pecific goals for the course
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Outcomes of	1. Recognize how the global economy affects the polymer
instruction	market by establishing a relationship between the context (time
	and space) and its state.
	2. Responsible for staying current on the new world of polymers
	by reviewing industry best practices.
Student outcomes	SO4. Recognize ethical and professional responsibilities in
	engineering situations and makes informed judgments
	considering the impact of engineering solutions in global,
	economic, environmental, and social contexts.
	SO7. Acquire and apply new knowledge using appropriate
	learning strategies.

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	Topics
	Unit I. Introduction to Polymers
	Unit II. Division, Characteristics and Properties
	Unit III. Thermoplastic (Commodity) I
	Unit IV. Thermoplastic (Commodity) II