

Code	TBD	Prerequisites	Materials Plastic I.
Name	Plastic Materials II	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
<p>Braun, D. (2013). Simple Method for Identification of Plastic. (5Th Edition). United States Of America. Hanser Publication.</p> <p>Brent Strong, A. (2006). Plastic Materials and Processing. (Third Edition). New Jersey. Pearson Prentice Hall</p> <p>Bryce M, D. (1999). Plastic Injection Molding. (First Edition). United States of America. Society of Manufacturing Engineer (SME)</p> <p>Driver, W. E. (1982). Química y Tecnología de los Plásticos. (First Edition) México: Continental Editorial</p> <p>Kulkarni, Suhas. (2016). Robust Process Development and Scientific Molding. (Third Edition). United State of America. Hanser Publication</p> <p>Lerma Valero, J. R. (2015). Manual Avanzado de Transformación de Termoplástico Por Inyección. (Primera Edición). España. Plástico Universales Interempresa</p> <p>Natti S. Rao. (2012). Understanding Plastics Engineering Calculations. (First Edition). United States of America. Hanser Publication</p> <p>Rubín, I. I. (2008). Materiales Plásticos, Propiedades y Aplicaciones. México: Limusa Noriega Editors.</p>
Other supplemental materials

Description	
Materials II, within the polymers concentration, is a continuation of the process of acquiring foundational knowledge within the world of plastics. Through the teacher's exposition, the review of updated bibliography, visits to facilities, observations, product/process evaluations and academic discussion, provide spaces for the construction of knowledge and concerns that guide the path of an unstoppable growth interest.	
Type of course	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Elective

Specific goals for the course

Outcomes of instruction	1. Select the appropriate polymers according to the indicated application, based on its environmental, economic and social impact.
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.

Topics
Unit I. Engineering Materials Unit II. Thermosets Unit III. Additives Unit IV. Material Identification Unit V. Design and Selection of Materials Unit VI. Environmental Topics