

Code	CBF211L	Prerequisites	CBF210L
Name	Mechanical Physics Laboratory II	Co-requisites	CBF211

Credits	Contact Hours
01	10
Categorization of credits	
Math and basic science	X
Engineering topic	
Other	

Coordinator's name	Luciano Sbriz
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Text book
Other supplemental materials
Giancoli, D. (2008); Physics for Science and Engineering (Vol.1). (4th Edition). Mexico: Pearson Education Sbriz L. (2013), Física I: prácticas de laboratorio. (2. Ed). Santo Domingo: Instituto Tecnológico de Santo Domingo. Serway, R., Jewett, J. (2015) Physics for science and engineering with modern physics (Vol.1). (9th edition) Mexico: Thomson. Young, H.D., Ford, A.L., Freedman, R.A. (2009) University Physics (Vol. 1). (12th edition) Mexico: Pearson. Bueche & Hecht, (s.f.) Theory and problems of college physics (9th edition). McGraw-Hill Kleppner & Kolenkow (1973), An introduction to mechanics, McGraw-Hill. Resnick, Halliday, Krane (1993); Physics (Vol.1), Continental, Mexico, 4th edition onwards. Gettys, Keller and Skove (2005), Physics for Science and Engineering (Volume I), (Second Edition). Mexico: McGraw-Hill. https://www.pasco.com/file_downloads/Downloads_Manuals/Xplorer-GLX-User's-Guide-PS-2002.pdf (Xplorer GLX User's Guide). https://www.pasco.com/prodMulti/sparkvue-software/index.cfm (Sparkvue).

Description
The practices that are carried out in the Physics II laboratory continue to have the fundamental purpose of showing student practical part of concepts related to the theoretical course of Physics II.

In this Physics II laboratory, practices are based on the different topics of the Physics II subject, such as the dynamics of rigid bodies, oscillations and simple harmonic motion, on mechanics of fluids, both liquids and gases, and on topics of heat, temperature, expansion and thermodynamics.

Type of course	☒ Required ☐ Elective
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Specific goals for the course	
Outcomes of instruction	EG1. Collaborate by participating with other students in obtaining the information sought. EG2. Take care and value the usefulness of the equipment used in the academic preparation of their peers. EG3. Show responsibility and punctuality in the delivery of reports.
Student outcomes	CG1. Work effectively in teams whose members collectively provide leadership, create a collaborative and inclusive environment, set goals, plan tasks, and meet objectives.

Topics
Unit I. Rigid body dynamics Unit II. Oscillations and M.A.S Unit III. Heat and temperature Unit IV. Thermodynamics