



University of Puerto Rico
Mayagüez Campus
College of Engineering
Department of Mechanical Engineering
Bachelor of Science in Mechanical Engineering



Course Syllabus

1. General Information: Alpha-numeric codification: INME 4995 Course Title: Engineering Practice for Coop Students Number of credits: 0-9 Contact Period:
2. Course Description: English: Practical experience in mechanical engineering in cooperation with private industry or government to be jointly supervised by the academic department, the co-op program coordinator, and an official from the cooperating organization. A written report will be required upon completion of each period of work. Spanish: Experiencia práctica en Ingeniería Mecánica en cooperación con la Industria Privada o el Gobierno. El trabajo del estudiante será conjuntamente supervisado por el Departamento Académico, el Coordinador del Plan Cooperativo y un Oficial de la Organización Cooperadora. Se requerirá un informe escrito al completar cada período de trabajo.
3. Pre/Co-requisites and other requirements: Prerequisites: Authorization of the Director of the Department
4. Course Objectives: Upon successful completion, students will be able to: <ul style="list-style-type: none">● Carry out a literature search for a project● Describe and apply taking proper safety precautions in the laboratory, if relevant, to the project● Produce an accurate record of work performed during the Internship/Co-op● Use engineering knowledge to solve a problem in industry● Produce a technical report● Discuss work in a team environment, if relevant to the project● Conduct herself/himself responsibly, safely, and ethically in a professional environment
5. Instructional Strategies: <input type="checkbox"/> conference <input type="checkbox"/> discussion <input type="checkbox"/> computation <input type="checkbox"/> laboratory <input type="checkbox"/> seminar with formal presentation <input type="checkbox"/> seminar without formal presentation <input type="checkbox"/> workshop <input type="checkbox"/> art workshop <input checked="" type="checkbox"/> practice <input type="checkbox"/> trip <input type="checkbox"/> thesis <input type="checkbox"/> special problems <input type="checkbox"/> tutoring <input type="checkbox"/> research <input type="checkbox"/> other, please specify:
6. Minimum or Required Resources Available: Materials, equipment, and physical facilities needed to fulfill the course objectives.

7. Course time frame and thematic outline		
General Topics	Contact Hours	
Background literature search and review	150	
Develop a project plan	150	
Perform experimental work or applied experimental work	150	
Write and present a research project	150	
Total hours: (equivalent to contact period)	600	
8. Grading System		
<input checked="" type="checkbox"/> Quantifiable (letters) <input type="checkbox"/> Not Quantifiable		
9. Evaluation Strategies		
	Quantity	Percent
<input type="checkbox"/> Exams		
<input type="checkbox"/> Final Exam		
<input type="checkbox"/> Short Quizzes		
<input type="checkbox"/> Oral Reports		
<input type="checkbox"/> Monographies		
<input type="checkbox"/> Portfolio		
<input checked="" type="checkbox"/> Projects	1	100
<input type="checkbox"/> Journals		
<input type="checkbox"/> Other, specify:		
TOTAL:		100%
10. Bibliography:		
Textbook:		
Marks, L.S., Avallone, E.A., & Baumeister, T. (2017). <i>Marks' standard handbook for mechanical engineers</i> . New York: McGraw-Hill.		
11. Law 51: The Comprehensive Educational Services Act for People with Disabilities:		
States that after identifying with the instructor and the institution, the student with disabilities will receive reasonable accommodation in their courses and evaluations. For more information, contact the Department of Counseling and Psychological services at the Office of the Dean of Students (Office DE 21) or call 787-265-3864 or 787-832-4040 x 3772, 2040 and 3864.		
12. Academic Integrity		
The University of Puerto Rico promotes the highest standards of academic and scientific integrity. Article 6.2 of the UPR Students General Bylaws (Board of Trustees Certification 13, 2009-2010) states that academic dishonesty includes, but is not limited to: fraudulent actions; obtaining grades or academic degrees by false or fraudulent simulations; copying the whole or part of the academic work of another person; plagiarizing totally or partially the work of another person; copying all or part of another person answers to the questions of an oral or written exam by taking or getting someone else to take the exam on his/her behalf; as well as enabling and facilitating another person to perform the aforementioned behavior. Any of these behaviors will be subject to disciplinary action in accordance with the disciplinary procedure laid down in the UPR Students General Bylaws.—		
13. Certification 06-43 of the Academic Senate		
"The academic guidelines for offering online courses," defines: Traditional face-to-face courses are those that have less than 25% of the course's regular contact hours via the Internet. Therefore, a three-credit course will be considered "face to face" if, of the 45 hours of regular contact, 11		

or less are taught via the Internet. According to certification 06-43 of the Academic Senate, a course may include up to 25% of its total contact hours via the Internet. The objective of this is so that all professors have this alternative in the case of any unscheduled eventuality.

14. Sexual Harassment: Certification 130-2014-2015 states:

Sexual harassment in the workplace and in the study environment is an illegal and discriminatory act and is against the best interests of the University of Puerto Rico. All persons who understand they have been subject to acts of sexual harassment at the University of Puerto Rico may file a complaint and request that the institution investigate, where necessary, and assume the corresponding action by the university authorities. If the complainant is a student, he or she must refer his or her complaint to the Office of the Student Ombudsperson or that of the Dean of Students.

Revised: February, 2019