



University of Puerto Rico
 Mayagüez Campus
 College of Engineering
 Department of Mechanical Engineering
 M.S./Ph.D. in Mechanical Engineering



Course Syllabus

1. General Information:	
Alpha-numeric codification: INME 8017 Course Title: Doctoral Seminar Number of credits: 0-1 Contact Period: 15 hours	
2. Course Description:	
English: Discussions and presentations on advanced topics related to Mechanical Engineering and research projects developed by students of the doctoral program.	
Spanish: Discusiones y presentaciones en temas avanzados sobre Ingeniería Mecánica y proyectos de investigación desarrollados por estudiantes del programa doctoral.	
3. Pre/Co-requisites and other requirements:	
Pre-requisite: Authorization of the Director of the Department	
4. Course Objectives:	
Upon completion of this course, the student should be able to:	
<ul style="list-style-type: none"> • Apply basic presentation skills in a technical forum; • Student gains knowledge necessary to write a Ph.D. thesis. 	
5. Instructional Strategies:	
<input type="checkbox"/> conference <input type="checkbox"/> discussion <input type="checkbox"/> computation <input type="checkbox"/> laboratory <input checked="" 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:	
Classroom, projector	
7. Course time frame and thematic outline	
General Topics	Contact Hours
INME Seminar presentations	Minimum 10*
<i>*See below for note on ATTENDANCE</i>	
INME Seminar proposal presentations	1
Topics of one-hour talks that help students in graduate school	Maximum 4
Suggested Topics	
<ul style="list-style-type: none"> • Graduate School road map: Courses, certifications, research areas... What is a TA, RA, fellowship: responsibilities associated with each one 	

• Laboratory Safety Regulations for ME Labs (CHEMATIX and SDS)	
• Plagiarism in writing thesis and papers	
• Ethics in doing research	
• Copyright	
• How to prepare a literature review for your thesis	
• How to prepare plots for publications or thesis	
• How to write a scientific paper	
• How to use databases at the UPRM Library	
• Intellectual Property (Josiah Hernández)	
• Entrepreneurship	
• Any other topic that would require approval by the INME Graduate Coordinator	
Total hours: (equivalent to contact period)	45-90

8. Grading System

Quantifiable (S/NS) Not Quantifiable

During their PhD career, student must attend the required number of presentations and topics. Students enroll in zero credits the first two semesters to attend seminar presentations. By the third semester, the student most enrolls for 1 credit and present their PhD thesis proposal (unless requested in writing by the student's advisor in which case it could be delayed by up to one year).

Students must show evidence of attendance to the seminar coordinator if attending seminar outside of the INME Seminar Series.

ATTENDANCE:

Attendance to seminar is **mandatory** when student is enrolled for one (1) credit **unless** student is outside of PR for research related endeavors during the semester or has a full-time work position in industry. Attendance to seminar is **strongly suggested** when student is enrolled for zero (0) credits.

Students who are outside of PR for research related endeavors need to satisfy the 15-hour requisite during the semesters that they reside in PR.

Students who work in industry are required to satisfy the 15-hour requisite throughout their graduate careers, but attendance to every single seminar event is not required.

Students who will be outside of PR for research related endeavors and students with full time industry jobs need to inform their attendance plans to the Seminar Coordinator at the beginning (first week) of every semester.

9. Evaluation Strategies

	Quantity	Percent
<input type="checkbox"/> Exams		
<input type="checkbox"/> Final Exam		
<input type="checkbox"/> Short Quizzes		
<input checked="" type="checkbox"/> Oral Presentations	1	50
<input type="checkbox"/> Monographies		
<input type="checkbox"/> Portfolio		

<input type="checkbox"/> Projects		
<input type="checkbox"/> Journals		
<input checked="" type="checkbox"/> Other, specify: Seminar	14	50
TOTAL:		100%

10. Bibliography:

1. Smith Robert V., Graduate Research: A Guide for Students in the Sciences, 3rd Edition (1998), University of Washington Press.
2. Snieder R. and Larner K., The Art of Being a Scientist: A Guide for Graduate Students and their Mentors, 1st Edition (2009), Cambridge University Press.
3. Seligmna Amanda I., Is Graduate School Really for You? The Whos, Whats, Hows, and Whys of Pursuing a Master's or Ph.D., (2012), Johns Hopkins University Press.
4. Vahid Frank., How to Be a Good Graduate Student, 1st Edition (2007), Lulu.com
5. Bloom Dale F., Karp Jonathan D. and Cohen Nicholas, The Ph.D. Process: A Student's Guide to Graduate School in the Sciences, (1999), Oxford University Press.
6. Lovitts Barbara E., Wert Ellen L., Developing Quality Dissertations in the Sciences: A Graduate Student's Guide, 1st Edition (2008), Stylus Publishing
7. Goodhew P., Teaching Engineering, (2010), UK Centre for Materials Education.
8. Harris C.E., Pritchard M.S., Rabins M.J., James R., Engineering Ethics: Concepts and Cases, 5th ed (2013), Cengage Learning.

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