University of Puerto Rico - Mayagüez Campus College of Engineering Department of Computer Science and Engineering

CIIC 4998 - Course Syllabus

Introduction to research plan and strategies

1.	General Information:			
	Alpha-numeric codification: CIIC 4998			
	Course Title: Undergraduate Research			
	Number of credits: 1-3			
	Contact Period: 1-3 hours per week			
2.	Course Description:			
	English : Development of a research project related to Computer Science and Engineering, under the supervision of a faculty member.			
	Spanish : Desarrollo de un proyecto de investigación relaciona computación bajo la supervisión de un miembro de la facultac	-		
3.	Pre/Co-requisites and other requirements:			
	Prerequisites: (CIIC 4020 or ICOM 4035) and authorization of the Director of the Department			
4.	Course Objectives:			
	Students will work under the supervision of a faculty member to define a research project, and then conduct experiments, field studies, and the necessary literature survey to complete a report on the project outcomes.			
5.	Instructional Strategies:			
	□conference ⊠discussion ⊠computation □laboratory			
	\Box seminar with formal presentation \Box seminar without formal presentation \Box workshop			
	\Box art workshop \Box practice \Box trip \Box thesis \Box special problems \Box tutoring			
	\boxtimes research \square other, please specify:			
6.	Minimum or Required Resources Available:			
	Students will use the Departmental computer laboratories to complete course projects.			
7.	Course time frame and thematic outline			
	Outline	Contact Hours		

6

Topics depending on specific research projects	7-37
Oral presentation and technical report	2
Total hours: (equivalent to contact period)	15-45

8. Grading System

igtriangle Quantifiable (letters) \Box Not Quantifiable

9. Evaluation Strategies

	Quantity	Percent
Exams		
🗆 Final Exam		
Short Quizzes		
⊠Oral Reports	1	30%
Monographies		
Portfolio		
⊠ Projects	1	50%
□Journals		
⊠Other, specify: Review of	2-5	20%
research papers		
TOTAL:		100%

10. Bibliography:

- 1. Justing Zobel, Writing for Computer Science, 2nd ed., Springer, 2004. [Classic Book]
- 2. Lutz Hering, and Heike Hering, How to Write Technical Reports: Understandable Structure, Good Design, Convincing Presentation, Springer, 2010. http://dx.doi.org/10.1007/978-3-540-69929-3 [Available via Springer eBooks, UPRM General Library Databases]
- 3. Electronic resources available through the UPRM Library's website: http://www.uprm.edu/library/cre/listdbsp.php?l=1&st=0&topic=63.
- 4. Other references, depending on specific selected topic chosen by students.

11. Course Outcomes

Upon completion of this course, the student will be able to:	Program Student Outcomes Impacted
 Understand what research is. Apply research strategies in the discovery of solutions to problems. Apply science and engineering in solving new problems. 	1-8

12. According to Law 51

Students will identify themselves with the Institution and the instructor of the course for purposes of assessment (exams) accommodations. For more information please call the Student with Disabilities Office which is part of the Dean of Students office (Office #4) at (787)265-3862 or (787)832-4040 extensions 3250 or 3258.

13. 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.—