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University de Piura (UDEP)

Syllabus 2022-I

1. COURSE

CS401. Methodology of Computation Research (Mandatory)

2. GENERAL INFORMATION

2.1 Credits	:	3
2.2 Theory Hours	:	2 (Weekly)
2.3 Practice Hours	:	-
2.4 Duration of the period	:	16 weeks
2.5 Type of course	:	Mandatory
2.6 Modality	:	Face to face
2.7 Prerequisites	:	CS212. Analysis and Design of Algorithms. (5 th Sem)

3. PROFESSORS

Meetings after coordination with the professor

4. INTRODUCTION TO THE COURSE

The objective of this course is for the student to learn how to carry out scientific research in the area of computers. The teachers of the course will determine an area of study for each student, and the student will be given a bibliography to analyze. From this bibliography, and from additional bibliographic sources (researched by the student), the student should be able to construct a survey type article on the assigned topic.

5. GOALS

- That the student learns how to start a scientific investigation in the area of computing.
- That the student knows the main sources to obtain relevant bibliography for research works in the area of computing: Researchindex, IEEE-CS¹, ACM².
- That the student is able to analyze the existing proposals on a certain topic and relate them in a coherent way in a bibliographic review.
- That the student can write technical documents in computing using L^AT_EX.
- The student will be able to reproduce the existing results on a given topic through experimentation.
- The deliverables of this course are:

Partial advance: Mastery of the subject of the article and preliminary bibliography in article format L^AT_EX.

Final: Understanding of the survey type article, concluded document containing, optionally, the experimental results of the studied technique(s).

6. COMPETENCES

Nooutcomes

Nospecificoutcomes

7. TOPICS

¹<http://www.computer.org>

²<http://www.acm.org>

Unit 1: (60)	
Competences Expected: a,b,c,i,h	
Topics	Learning Outcomes
<ul style="list-style-type: none"> • Bibliographic search in computers. • Writing technical articles on computers. 	<ul style="list-style-type: none"> • Learn to do correct research in the area of computing. [Usage] • Knowing the sources of adequate literature for this area. [Usage] • Knowing how to write a document in accordance with the characteristics that the conferences in this area require. [Usage]
Readings : [IEE08], [Ass08], [Cit08]	

8. WORKPLAN

8.1 Methodology

Individual and team participation is encouraged to present their ideas, motivating them with additional points in the different stages of the course evaluation.

8.2 Theory Sessions

The theory sessions are held in master classes with activities including active learning and roleplay to allow students to internalize the concepts.

8.3 Practical Sessions

The practical sessions are held in class where a series of exercises and/or practical concepts are developed through problem solving, problem solving, specific exercises and/or in application contexts.

9. PLANNING

DATE	TIME	SESSION TYPE	PROFESSOR
See at EDU	See at EDU	See at EDU	See at EDU

10. EVALUATION SYSTEM

***** EVALUATION MISSING *****

11. BASIC BIBLIOGRAPHY

- [Ass08] Association for Computing Machinery. *Digital Libray*. <http://portal.acm.org/dl.cfm>. Association for Computing Machinery, 2008.
- [Cit08] CiteSeer.IST. *Scientific Literature Digital Libray*. <http://citeseer.ist.psu.edu>. College of Information Sciences and Technology, Penn State University, 2008.
- [IEE08] IEEE-Computer Society. *Digital Libray*. <http://www.computer.org/publications/dlib>. IEEE-Computer Society, 2008.