

San Pablo Catholic University (UCSP)
Undergraduate Program in
Computer Science
SILABO



CS403. Capstone Project II (Mandatory)

1. General information

1.1 School	:	Ciencia de la Computación
1.2 Course	:	CS403. Capstone Project II
1.3 Semester	:	9 ^{no} Semestre.
1.4 Prerequisites	:	CS402. Capstone Project I. (8 th Sem)
1.5 Type of course	:	Mandatory
1.6 Learning modality	:	Virtual
1.7 Horas	:	2 HT; 2 HP;
1.8 Credits	:	3

2. Professors

Lecturer

- Erick Gomez Nieto <emgomez@ucsp.edu.pe>
 - PhD in Ciencia de la Computación y Matemática Computacional, Universidad de Sao Paulo - USP, Brasil, 2017.
 - MSc in Ciencia de la Computación, Universidad de Sao Paulo - USP, Brasil, 2012.
- Edward Jorge Yuri Cayllahua Cahuina <ejcayllahua@ucsp.edu.pe>
 - MSc in Ciencia de la Computación, Universidade Federal de Ouro Preto, Brasil, .
- Gina Lucia Muñoz Salas <glmunoz@ucsp.edu.pe>
 - MSc in Ciencia de la Computación, Universidad Católica San Pablo, Perú, 2019.

3. Course foundation

This course aims at the student to conclude his thesis project.

4. Summary

1. Thesis project 2. Thesis progress

5. Generales Goals

- That the student is in the capacity to formally present his thesis project with the theoretical framework and complete bibliographic survey.
- That the student master the state of the art of his area of research.
- The deliverables of this course are:

Avance parcial: Thesis plan progress including motivation and context, problem definition, objectives, schedule of activities up to the final thesis project and the state of the art of the topic addressed.

Final: Complete thesis plan and advancement of Thesis including theoretical framework chapters, related works and preliminary (formal or statistical) results oriented to your thesis topic.

6. Contribution to Outcomes

This discipline contributes to the achievement of the following outcomes:

- a) An ability to apply knowledge of mathematics, science. (**Assessment**)
- b) An ability to design and conduct experiments, as well as to analyze and interpret data. (**Assessment**)
- c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. (**Assessment**)
- e) Understand correctly the professional, ethical, legal, security and social implications of the profession. (**Assessment**)
- f) An ability to communicate effectively. (**Assessment**)
- h) A recognition of the need for, and an ability to engage in life-long learning. (**Assessment**)
- i) An ability to use the techniques, skills, and modern computing tools necessary for computing practice. (**Assessment**)
- l) Develop principles research in the area of computing with levels of international competitiveness. (**Assessment**)

7. Content

UNIT 1: Thesis project (30)

Competences: a,b,c,e,f,h,i,l

Content

- Thesis project.

Generales Goals

- Description of the format used by the University for the thesis[Assessment]
- Conclude the thesis project plan[Assessment]
- Present the state of the art thesis topic(50%)[Assessment]

Readings: IEEE-Computer Society (2008), Association for Computing Machinery (2008), CiteSeer.IST (2008)

UNIT 2: Thesis progress (30)

Competences: a,b,c,e,f,h,i,l

Content

- Thesis Progress.

Generales Goals

- Description of the format used by the University for the thesis[Assessment]
- Conclude the chapter of the theoretical framework of the Thesis[Assessment]
- Complete the chapter on related works(35%)[Assessment]
- Plan, develop and present results (formal or statistical) of experiments oriented to your thesis topic (35%)[Assessment]

Readings: IEEE-Computer Society (2008), Association for Computing Machinery (2008), CiteSeer.IST (2008)

8. Methodology

El profesor del curso presentará clases teóricas de los temas señalados en el programa propiciando la intervención de los alumnos.

El profesor del curso presentará demostraciones para fundamentar clases teóricas.

El profesor y los alumnos realizarán prácticas

Los alumnos deberán asistir a clase habiendo leído lo que el profesor va a presentar. De esta manera se facilitará la comprensión y los estudiantes estarán en mejores condiciones de hacer consultas en clase.

9. Assessment

Continuous Assessment 1 : 20 %

Partial Exam : 30 %

Continuous Assessment 2 : 20 %

Final exam : 30 %

References

Association for Computing Machinery (2008). *Digital Libray*. <http://portal.acm.org/dl.cfm>. Association for Computing Machinery.

CiteSeer.IST (2008). *Scientific Literature Digital Libray*. <http://citeseer.ist.psu.edu>. College of Information Sciences and Technology, Penn State University.

IEEE-Computer Society (2008). *Digital Libray*. <http://www.computer.org/publications/dlib>. IEEE-Computer Society.