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

CS393. Information Systems (Elective)

Universidad Católica San Pablo
2023-II

1. General information		
1.1 School	:	Ciencia de la Computación
1.2 Course	:	CS393. Information Systems
1.3 Semester	:	10^{mo} Semestre.
1.4 Prerrequisites	:	CS292. Software Engineering II. (6^{th} Sem)
1.5 Type of course	:	Elective
1.6 Learning modality	:	Face to face
1.7 Horas	:	2 HT; 4 HP;
1.8 Credits	:	4
1.9 Plan	:	Plan Curricular 2016

2. Professors

Lecturer

- Guillermo Enrique Calderón Ruiz <gcalderon@ucsp.edu.pe>
  - PhD in Ciencias de la Ingeniería, Pontificia Universidad Católica de Chile, Chile, 2011.
  - MSc in Ingeniería, Pontificia Universidad Católica de Chile, Chile, 2010.

3. Course foundation

Analyze techniques for the correct implementation of scalable, robust, reliable and efficient information systems in organizations.

4. Summary

1. Introduction 2. Strategy 3. Implementation

5. Generales Goals

- Implement correctly (scalable, robust, reliable and efficient) Information Systems in organizations.

6. Contribution to Outcomes

This discipline contributes to the achievement of the following outcomes:

2) Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline. (**Usage**)

6) Apply computer science theory and software development fundamentals to produce computing-based solutions. (**Assessment**)

7. Content

UNIT 1: Introduction (15)	
Competences:	
Content	**Generales Goals**
• Introduction to information management. • Software for information management. • Technology for information management.	• Correctly apply technology for information management [Assessment]
Readings: Sommerville (2017), Pressman and Maxim (2015), K. C. Laudon and J. P. Laudon (2017)	

UNIT 2: Strategy (15)	
Competences:	
Content	**Generales Goals**
• Strategy for information management. • Strategy for knowledge management • Strategy for information system.	• Apply and evaluate correctly management strategies [Assessment]
Readings: Sommerville (2017), Pressman and Maxim (2015)	

UNIT 3: Implementation (15)	
Competences:	
Content	**Generales Goals**
• Management Information Systems Development. • Change management • Information Architecture	• Implement and correctly evaluate implementation strategies [Assessment]
Readings: Sommerville (2017), Pressman and Maxim (2015)	

8. Methodology

1. El profesor del curso presentará clases teóricas de los temas señalados en el programa propiciando la intervención de los alumnos.
2. El profesor del curso presentará demostraciones para fundamentar clases teóricas.
3. El profesor y los alumnos realizarán prácticas
4. 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 Theory Sessions:
The theory sessions are held in master classes with activities including active learning and roleplay to allow students to internalize the concepts.

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.

Evaluation System:
The final grade is obtained through of:

CONTINUOUS ASSESMENT	EVALUATIONS
Continuous assessment 1 : 30 % **Continuous assessment 2** : 30 %	**Midterm Exam** : 20 % **Final Exam** : 20 %
60%	40%

Where:

Continuous Assessment: It includes group work, active participation in class, exercise test.

- Continuos assessment 1 (weeks 1 - 9)
- Continuos assesment 2 (weeks 10 - 17)

To pass the course you must obtain 11.5 or more in the final grade .

References

Laudon, Kenneth C. and Jane P. Laudon (Mar. 2017). *Management Information Systems: Managing the Digital Firm*. 15th. Pearson.

Pressman, Roger S. and Bruce Maxim (Jan. 2015). *Software Engineering: A Practitioner's Approach*. 8th. McGraw-Hill.

Sommerville, Ian (Mar. 2017). *Software Engineering*. 10th. Pearson.