

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



CS393. Information Systems (Elective)

1. General information

1.1 School	:	Ciencia de la Computación
1.2 Course	:	CS393. Information Systems
1.3 Semester	:	10 ^{mo} Semestre.
1.4 Prerequisites	:	CS292. Software Engineering II. (6 th Sem)
1.5 Type of course	:	Elective
1.6 Learning modality	:	Virtual
1.7 Horas	:	2 HT; 2 HP; 2 HL;
1.8 Credits	:	4

2. Professors

Lecturer

- Christian Jorge Delgado Polar <cjdelgado@ucsp.edu.pe>
– MSc in Ciencia de la Computación, DCC-UFMG, Brasil, 2007.

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:

- 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. (**Usage**)
- i) An ability to use the techniques, skills, and modern computing tools necessary for computing practice. (**Usage**)
- k) Apply the principles of development and design in the construction of software systems of variable complexity. (**Assessment**)

7. Content

UNIT 1: Introduction (15)	
Competences: c,i	
Content	Generales Goals
<ul style="list-style-type: none"> • Introduction to information management. • Software for information management. • Technology for information management. 	<ul style="list-style-type: none"> • 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: i,k	
Content	Generales Goals
<ul style="list-style-type: none"> • Strategy for information management. • Strategy for knowledge management • Strategy for information system. 	<ul style="list-style-type: none"> • Apply and evaluate correctly management strategies [Assessment]
Readings: Sommerville (2017), Pressman and Maxim (2015)	

UNIT 3: Implementation (15)	
Competences: c,i,k	
Content	Generales Goals
<ul style="list-style-type: none"> • Management Information Systems Development. • Change management • Information Architecture 	<ul style="list-style-type: none"> • Implement and correctly evaluate implementation strategies [Assessment]
Readings: Sommerville (2017), Pressman and Maxim (2015)	

8. Methodology
<p>El profesor del curso presentará clases teóricas de los temas señalados en el programa propiciando la intervención de los alumnos.</p> <p>El profesor del curso presentará demostraciones para fundamentar clases teóricas.</p> <p>El profesor y los alumnos realizarán prácticas</p> <p>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.</p>

9. Assessment
<p>Continuous Assessment 1 : 20 %</p> <p>Partial Exam : 30 %</p> <p>Continuous Assessment 2 : 20 %</p> <p>Final exam : 30 %</p>

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.