

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



**CS393. Information Systems (Elective)**

<b>1. General information</b>	
1.1 School	: Ciencia de la Computación
1.2 Course	: CS393. Information Systems
1.3 Semester	: 10 <sup>mo</sup> Semestre.
1.4 Prerequisites	: CS292. Software Engineering II. (6 <sup>th</sup> 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

<b>2. Professors</b>

<b>3. Course foundation</b>
Analyze techniques for the correct implementation of scalable, robust, reliable and efficient information systems in organizations.

<b>4. Summary</b>
1. Introduction 2. Strategy 3. Implementation

<b>5. Generales Goals</b>
<ul style="list-style-type: none"> <li>• Implement correctly (scalable, robust, reliable and efficient) Information Systems in organizations.</li> </ul>

<b>6. Contribution to Outcomes</b>
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. ( <b>Usage</b> )
6) Apply computer science theory and software development fundamentals to produce computing-based solutions. ( <b>Assessment</b> )

<b>7. Content</b>
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<b>UNIT 1: Introduction (15)</b>	
<b>Competences:</b>	
<b>Content</b>	<b>Generales Goals</b>
<ul style="list-style-type: none"> <li>• Introduction to information management.</li> <li>• Software for information management.</li> <li>• Technology for information management.</li> </ul>	<ul style="list-style-type: none"> <li>• Correctly apply technology for information management [Assessment]</li> </ul>
<b>Readings:</b> Sommerville (2017), Pressman and Maxim (2015), K. C. Laudon and J. P. Laudon (2017)	

<b>UNIT 2: Strategy (15)</b>	
<b>Competences:</b>	
<b>Content</b>	<b>Generales Goals</b>
<ul style="list-style-type: none"> <li>• Strategy for information management.</li> <li>• Strategy for knowledge management</li> <li>• Strategy for information system.</li> </ul>	<ul style="list-style-type: none"> <li>• Apply and evaluate correctly management strategies [Assessment]</li> </ul>
<b>Readings:</b> Sommerville (2017), Pressman and Maxim (2015)	

<b>UNIT 3: Implementation (15)</b>	
<b>Competences:</b>	
<b>Content</b>	<b>Generales Goals</b>
<ul style="list-style-type: none"> <li>• Management Information Systems Development.</li> <li>• Change management</li> <li>• Information Architecture</li> </ul>	<ul style="list-style-type: none"> <li>• Implement and correctly evaluate implementation strategies [Assessment]</li> </ul>
<b>Readings:</b> 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><b>Continuous Assessment 1</b> : 20 %</p> <p><b>Partial Exam</b> : 30 %</p> <p><b>Continuous Assessment 2</b> : 20 %</p> <p><b>Final exam</b> : 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.