

# Peruvian Computing Society (SPC)

School of Computer Science Sillabus 2023-I

#### 1. COURSE

CS393. Information systems (Mandatory)

# 2. GENERAL INFORMATION

**2.1 Credits** : 4

 2.2 Theory Hours
 : 2 (Weekly)

 2.3 Practice Hours
 : 2 (Weekly)

 2.4 Duration of the period
 : 16 weeks

 2.5 Type of course
 : Mandatory

 2.6 Modality
 : ■FaceToFace■

**2.7 Prerrequisites** : CS291. Software Engineering I.  $(5^{th} \text{ Sem})$ 

#### 3. PROFESSORS

Meetings after coordination with the professor

## 4. INTRODUCTION TO THE COURSE

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

# 5. GOALS

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

# 6. COMPETENCES

- 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. SPECIFIC COMPETENCES

 ${\bf No specific outcomes}$ 

## 8. TOPICS

Unit 1: Introduction (15) Competences Expected:		
<ul> <li>Introduction to information management.</li> <li>Software for information management.</li> <li>Technology for information management.</li> </ul>	• Correctly apply technology for information management [Assessment]	
<b>Readings</b> : [Som17], [PM15], [LL17]		

Unit 2: Strategy (15) Competences Expected:		
Topics	Learning Outcomes	
<ul> <li>Strategy for information management.</li> <li>Strategy for knowledge management</li> <li>Strategy for information system.</li> </ul>	• Apply and evaluate correctly management strategies [Assessment]	
Readings: [Som17], [PM15]		

Unit 3: Implementation (15)		
Competences Expected:		
Topics	Learning Outcomes	
<ul> <li>Management Information Systems Development.</li> <li>Change management</li> <li>Information Architecture</li> </ul>	• Implement and correctly evaluate implementation strategies [Assessment]	
Readings: [Som17], [PM15]		

## 9. WORKPLAN

## 9.1 Methodology

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

## 9.2 Theory Sessions

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

## 9.3 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.

# 10. EVALUATION SYSTEM

\*\*\*\*\*\* EVALUATION MISSING \*\*\*\*\*\*

## 11. BASIC BIBLIOGRAPHY

- [LL17] Kenneth C. Laudon and Jane P. Laudon. Management Information Systems: Managing the Digital Firm. 15th. Pearson, Mar. 2017.
- [PM15] Roger S. Pressman and Bruce Maxim. Software Engineering: A Practitioner's Approach. 8th. McGraw-Hill, Jan. 2015.
- [Som17] Ian Sommerville. Software Engineering. 10th. Pearson, Mar. 2017.