

# National University of Engineering (UNI)

School of Computer Science Sillabus 2023-I

## 1. COURSE

CS393. Information systems (Mandatory)

2. GENERAL INFORMATION 2.1 Course 2.2 Semester 2.3 Credits 2.4 Horas	: : :	CS393. Information syst 6 <sup>to</sup> Semestre. 4 2 HT; 4 HP;	ems				
<ul><li>2.5 Duration of the period</li><li>2.6 Type of course</li><li>2.7 Learning modality</li><li>2.8 Prerrequisites</li></ul>	:	16 weeks Mandatory Blended CS291. CS291. Software Engine	Software ering I. $(5^{th}$ Se	Engineering em)	I.	$(5^{th}$	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. TOPICS

Competences Expected:						
Topics	Learning Outcomes					
<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]					

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]
<b>Readings :</b> [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]					
<b>Readings :</b> [Som17], [PM15]						

#### 8. WORKPLAN

#### 8.1 Methodology

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

#### 8.2 Theory Sessions

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

#### 8.3 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.

# 9. EVALUATION SYSTEM \*\*\*\*\*\*\*\* EVALUATION MISSING \*\*\*\*\*\*\*

#### **10. 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.