



**Universidad Nacional de Colombia (UNAL) Sede
Manizales
Undergraduate Program in
Information Systems
SILABO**

CS393. Information systems (Mandatory)

2022-II

1. General information	
1.1 School	: Sistemas de Información
1.2 Course	: CS393. Information systems
1.3 Semester	: 6 ^{to} Semestre.
1.4 Prerequisites	: CS291. Software Engineering I. (5 th Sem)
1.5 Type of course	: Mandatory
1.6 Learning modality	: Face to face
1.7 Horas	: 2 HT; 2 HP; 2 HL;
1.8 Credits	: 4
2. Professors	
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	
<ul style="list-style-type: none">• 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
<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:	
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:	
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.