Universidad Nacional de Ingeniería (UNI)
Escuela Profesional de
Ciencia de la Computación
Sílabo 2024-II

1. CURSO

CS403. Capstone Project III (Mandatory)

2. INFORMACIÓN GENERAL

2.1 Curso	:	CS403. Capstone Project III
2.2 Semestre	:	10^{th} Semester.
2.3 Créditos	:	4
2.4 horas	:	1 HT; 5 HP;
2.5 Duración del periodo	:	16 semanas
2.6 Condición	:	Mandatory
2.7 Modalidad de aprendizaje	:	Face to face
2.8 Prerrequisitos	:	CS402. Capstone Project II. (9^{th} Sem)

3. PROFESORES

Atención previa coordinación con el profesor

4. INTRODUCCIÓN AL CURSO

This course aims at the student to conclude his thesis project.

5. OBJETIVOS

- That the student is in the capacity to formally present his thesis project with the theoretical framework and complete bibliographic survey.
- That the student master the state of the art of his area of research.
- The deliverables of this course are:

  Avance parcial: Thesis plan progress including motivation and context, problem definition, objectives, schedule of activities up to the final thesis project and the state of the art of the topic addressed.

  Final: Complete thesis plan and advancement of Thesis including theoretical framework chapters, related works and preliminary (formal or statistical) results oriented to your thesis topic.

6. RESULTADOS DEL ESTUDIANTE

1) Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions. (Assessment)

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. (Assessment)

3) Communicate effectively in a variety of professional contexts.. (Assessment)

4) Recognize professional responsabilities and make informed judgments in computing practice based on legal and ethical principles. (Assessment)

5) Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline. (Assessment)

6) Apply computer science theory and software development fundamentals to produce computing-based solutions. (Assessment)

7) Develop computational technology for the well-being of all, contributing with human formation, scientific, technological and professional skills to solve social problems of our community. (Assessment)

7. TEMAS

Unidad 1: Thesis project (30 horas)	
Resultados esperados:	
Temas	**Objetivos de Aprendizaje (*Learning Outcomes*)**
• Thesis project.	• Description of the format used by the University for the thesis[Evaluar] • Conclude the thesis project plan[Evaluar] • Present the state of the art thesis topic(50%)[Evaluar]
Lecturas : [IEE08], [Ass08], [Cit08]	

Unidad 2: Thesis progress (30 horas)	
Resultados esperados:	
Temas	**Objetivos de Aprendizaje (*Learning Outcomes*)**
• Thesis Progress.	• Description of the format used by the University for the thesis[Evaluar] • Conclude the chapter of the theoretical framework of the Thesis[Evaluar] • Complete the chapter on related works(35%)[Evaluar] • Plan, develop and present results (formal or statistical) of experiments oriented to your thesis topic (35%)[Evaluar]
Lecturas : [IEE08], [Ass08], [Cit08]	

8. PLAN DE TRABAJO

8.1 Metodología

Se fomenta la participación individual y en equipo para exponer sus ideas, motivándolos con puntos adicionales en las diferentes etapas de la evaluación del curso.

8.2 Sesiones Teóricas

Las sesiones de teoría se llevan a cabo en clases magistrales donde se realizarán actividades que propicien un aprendizaje activo, con dinámicas que permitan a los estudiantes interiorizar los conceptos.

8.3 Sesiones Prácticas

Las sesiones prácticas se llevan en clase donde se desarrollan una serie de ejercicios y/o conceptos prácticos mediante planteamiento de problemas, la resolución de problemas, ejercicios puntuales y/o en contextos aplicativos.

9. SISTEMA DE EVALUACIÓN

********* EVALUATION MISSING ********

10. BIBLIOGRAFÍA BÁSICA

[Ass08] Association for Computing Machinery. *Digital Libray*. http://portal.acm.org/dl.cfm. Association for Computing Machinery, 2008.

[Cit08] CiteSeer.IST. *Scientific Literature Digital Libray*. http://citeseer.ist.psu.edu. College of Information Sciences and Technology, Penn State University, 2008.

[IEE08] IEEE-Computer Society. *Digital Libray*. http://www.computer.org/publications/dlib. IEEE-Computer Society, 2008.