



Universidad Nacional de Ingeniería (UNI)

Escuela Profesional de
Ciencia de la Computación
Sílabo 2024-II

1. CURSO

CS402. Capstone Project II (Mandatory)

2. INFORMACIÓN GENERAL

2.1 Curso	: CS402. Capstone Project II
2.2 Semestre	: 9 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	: CS401. Capstone Project I. (8 th Sem)

3. PROFESORES

Atención previa coordinación con el profesor

4. INTRODUCCIÓN AL CURSO

This course aims to allow the student to carry out a study of the state of the art of a topic chosen by the student for his thesis.

5. OBJETIVOS

- That the student carries out an initial investigation in a specific subject realizing the study of the state of the art of the chosen subject.
- That the student shows mastery in the subject of the line of investigation chosen
- That the student choose a teacher who dominates the research chosen as an advisor.
- The deliverables of this course are:

Avance parcial: Solid bibliography and progress of a Technical Reporto.

Final: Technical Report with preliminary comparative experiments that demonstrate that the student already knows the existing techniques in the area of his project and choose a teacher who dominates the area of his project as an adviser of his project.

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. (Usage)
- 3) Communicate effectively in a variety of professional contexts.. (Usage)
- 4) Recognize professional responsibilities 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. (Usage)

- 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. (Usage)

7. TEMAS

Unidad 1: Lifting the state of the art (60 horas)	
Resultados esperados:	
Temas	Objetivos de Aprendizaje (<i>Learning Outcomes</i>)
- Perform an in-depth study of the state of the art in a certain topic in the area of Computation. - Writing technical articles in computing.	- Make a bibliographical survey of the state of the art of the chosen subject (this probably means 1 or 2 chapters of theoretical framework in addition to the introduction that is chapter I of the thesis) [Usar] - Writing a latex document in paper format with higher quality than Project I (master tables, figures, equations, indices, bibtex, cross references, citations, pstricks) [Usar] - Try to make presentations using prosper [Usar] - Show basic experiments [Usar] - Choose an advisor who dominates the research area [Usar]
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 Library*. <http://portal.acm.org/dl.cfm>. Association for Computing Machinery, 2008.
- [Cit08] CiteSeer.IST. *Scientific Literature Digital Library*. <http://citeseer.ist.psu.edu>. College of Information Sciences and Technology, Penn State University, 2008.
- [IEE08] IEEE-Computer Society. *Digital Library*. <http://www.computer.org/publications/dlib>. IEEE-Computer Society, 2008.