



## National University of Engineering (UNI)

School of Computer Science  
Syllabus 2024-II

### 1. COURSE

FI201. Computational Physics (Mandatory)

### 2. GENERAL INFORMATION

- 2.1 Course : FI201. Computational Physics
- 2.2 Semester : 3<sup>rd</sup> Semester.
- 2.3 Credits : 3
- 2.4 Horas : 2 HT; 2 HP;
- 2.5 Duration of the period : 16 weeks
- 2.6 Type of course : Mandatory
- 2.7 Learning modality : Face to face
- 2.8 Prerequisites : FI101. Physics I. (1<sup>st</sup> Sem)

### 3. PROFESSORS

Meetings after coordination with the professor

### 4. INTRODUCTION TO THE COURSE

Write justification for this course here ...

### 5. GOALS

- Write your first goal here..
- Write your second goal here..

### 6. COMPETENCES

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

### 7. TOPICS

Unit 1: Unit title (2 hours)	
Competences Expected:	
Topics	Learning Outcomes
<ul style="list-style-type: none"><li>• Topic1</li><li>• Topic2</li></ul>	<ul style="list-style-type: none"><li>• LearningOutcome1 [Familiarizarse].</li><li>• LearningOutcome2 [Usar].</li><li>• LearningOutcome3 [Evaluar].</li></ul>
Readings : [For20], [ACM23]	

### 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

- [For20] ACM/IEEE-CS Joint Task Force. *Computing Curricula 2020*. Tech. rep. ACM Press and IEEE Computer Society Press, Dec. 2020. DOI: 10.1145/3467967. URL: <https://dl.acm.org/citation.cfm?id=3467967>.
- [ACM23] ACM/IEEE-CS/AAAI Joint Task Force. *CS2023: ACM/IEEE-CS/AAAI Computer Science Curricula*. Tech. rep. ACM Press, IEEE Computer Society Press, and AAAI Press, Mar. 2023.