

Course Syllabi

CODE 106

NAME Calculus for Computing

Credits 6 ECTS

Period Spring Semester

Course Specifications

The training activities rely on theory, problem-solving, and practical classes, alongside the student's personal work with exercises and provided materials. Classes pursue continuous interaction between the teacher and the student, balancing theoretical presentations with practical activities and encouraging the use of mathematical software as a support tool.

During classroom sessions, active student participation is encouraged to solve proposed exercises. Students will also perform practical computer work, introducing mathematical software (WolframAlpha, GeoGebra, wxMaxima, etc.) to help solve problems.

Objectives and Contents

This subject develops the mathematical foundations needed for solving problems that involve differential and integral calculus.

1. Preliminaries (Elementary functions, solving equations, complex numbers).
2. Differential calculus.
3. Integral calculus (including ordinary differential equations).
4. Sequences and series.

Assessment

Continuous evaluation relies on practical tasks (20% weight per block) and partial tests (80% weight per block) divided into Block A (Topics 1 and 2) and Block B (Topics 3 and 4). Unsubmitted tasks or unattempted tests receive a 0. Furthermore, if a partial test score is below 3.5 out of 10, the practical task grade for that block also becomes 0.

The final mark is the weighted average of the blocks (40% for Block A and 60% for Block B). Students scoring below 5 may take a makeup exam on the date set by the ETSII, allowing them to replace their grade in one or both blocks.

Second Ordinary Call

On the date scheduled by the ETSII, students will take a comprehensive exam covering the entire subject content.

Lecturer

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