

Embedded System Design and Modeling

Introduction

Organization

- ▶ 3 credits (?)
- ▶ Professors
 - ▶ Lectures: Nicolae Cleju
 - ▶ Applications: Nicolae Cleju
- ▶ Time schedule
 - ▶ 14 weeks of lectures (1h each)
 - ▶ 7 weeks of laboratories (2h each)
 - ▶ 7 weeks of project work (2h each)
- ▶ My office hours: *To Be Announced* (best by appointment)

Evaluation

- ▶ Exam
 - ▶ 60% of final grade
 - ▶ Consists of both theory questions and exercises
 - ▶ Final format to be decided (e.g. questions (like in Information Theory exam), both for theory and exercises)
- ▶ Laboratory
 - ▶ 20% of final grade
- ▶ Project
 - ▶ 20% of final grade
- ▶ Final grade = 60% Exam + 20% Lab + 20% Project

Bibliography (TBD)

1. **Main reference:** “Introduction to Embedded Systems - A cyber-physical systems approach”, E.A.Lee and S.A. Seshia, MIT Press, 2nd Edition, 2017.
 - ▶ Available online at <https://ptolemy.berkeley.edu/books/leeseshia/download.html>
2. “Embedded System Design”, Peter Marwedel, Springer, 2nd Edition, 2011.
3. “Managing Model-Based Design”, Roger Aarenstrup, The MathWorks, 2015.