

Methodologies for Software Processes

Seminar 1

Weeks: 25.02.2019-08.03.2019

Course website

<http://www.cs.ubbcluj.ro/~craciunf/MethodologiesSoftwareProcesses>

Course Overview

1. Program Optimizations based on Dataflow analyses (about 5 lectures + 1 programming project)
2. Program Verification: Hoare Logic and Separation Logic (about 8 lectures + 1 project)

Grading

Seminar activity (2 assignments) :--**50%**

1. DataFlow Programming Project: -- **25%**
2. Program Verification Assignment: --**15%**
3. Program Verification Paper Presentation: - **10%**

Final exam: -- **50%**

- Final Written Exam (about 2 hours, open books): --**50%**

Rules

- seminar activity will be done at the group level
- groups are fixed at the first seminar and consist of max 2 students
- final exam is individual and is an open book exam (you can have access at the lecture notes and the seminar notes)

Deadlines

- This week: to form the groups
- deadline for the dataflow programming project (at the seminar): 13.05.2019-24.05.2019
- Oral presentation weeks (seminar +lectures) : 27.05.2019-07.06.2019
- deadline for verification assignment (seminar +lectures) :27.05.2019-07.06.2019

Dataflow Programming Project

- after lecture 3 you will receive the dataflow programming project
- the implementation must be done in Ocaml