

## Final assignment

- Write and present a DETAILED TUTORIAL. It should describe a part of OpenFOAM (and/or some other OpenSource Software that is part of the course).  
1) How to use it, 2) the theory of it, 3) how it is implemented, and 4) how to modify it. The tutorials form a part of the course contents.
- The focus should be on how to understand and how to do things rather than to present results of advanced simulations.
- The cases to be run should be small, so that they run fast. That will mean that the meshes will be too coarse for accurate results, but that accurate results can be obtained by making a denser mesh.
- The report should include a thorough list of learning outcomes for those who will read the report. E.g.: 'The reader will learn how to use the NN solver/utility.', 'The reader will learn the underlying theory of the NN method.'
- The report should include at least one question for each learning outcome, and accompanying correct answer answer in a separate file.
- See template at course homepage, and Erik Svenning, 2010, and Klas Jareteg, 2013, for very good examples. (They were not asked to do the 'learning outcome' part, so you don't find examples of that there)

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- Hand in preliminary files according to the date at the course home page (half-time), so that I can check that you are on the right track. For the master students it is then important to also hand in a detailed project description.
- The written tutorial (*report* - use the L<sup>A</sup>T<sub>E</sub>X template if you like) should be ready for the next occasion, when it should also be presented as a 'workshop' (*slides* - use the L<sup>A</sup>T<sub>E</sub>X template if you like) where the audience should be able to follow the steps on the computers (*case/code*).
- All necessary files (*report, slides, case/code*) must be uploaded in Ping-Pong *before* the presentation days, so that everyone can follow the tutorial. See the deadline on the course homepage.
- The tutorials will be made public at the course homepage (if you write your name on it you agree that I post your name on the Internet). I need source files (doc/tex) for the text so that I can put everything together if necessary.

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- You must peer-review a tutorial by another student. The peer-review should be handed in before the deadline presented at the course homepage, through Ping-Pong. There is an example of a good peer-review at the course homepage.
- You have one week to update your tutorial according to the peer-review. Upload the updated files, together with a response to the reviewers, in Ping-Pong. There is an example of a response to the reviewer at the course homepage.
- The Master students are graded based on the complexity and quality of the project work, including the *report, slides, case/code*.
- Decide your project a.s.a.p. Find examples of topics at the course homepage. *Discuss with me - I must agree on your choice of project!* I encourage you to do a project that is in line with some other activity, like your PhD project, master project, or other project work, so that it is directly useful for you.