

OOFEM.ORG

COURSE

OOFEM.org is announcing the availability of a training course for Ph.D. students, engineers interested in simulation, and researchers to allow them to quickly acquire the knowledge and practical skills necessary to employ OOFEM. Participants will learn how to create, analyze, and post-process models. Moreover, they will understand the OOFEM code structure and they will learn how to implement custom material models, elements, boundary conditions, or solvers. The course will be delivered by a team of skilled OOFEM developers. Participants will receive high-quality course materials. No prior knowledge of OOFEM is required; however, a basic knowledge of C++ is highly recommended.

Course Content

Day 1: Introduction

- Introduction to oofem.org environment, documentation, compilation, and installation
- Preparation of input files, understanding of solver settings, element types, boundary conditions, material models
- Advanced modeling topics: staggered analysis, parallel processing
- Pre-processing using external tools (Salome, T3D)
- Effective postprocessing

Day 2: OOFEM internals

- Understanding the OOFEM design and code structure
- Implementation of new elements, boundary conditions, material models, export modules
- OOFEM python interface (umat for octave, abaqus)
- Contributing to OOFEM, practical git workflow, developing tests

Day 3: Practical development

- Presentations delivered by participants: The participants are encouraged to shortly (in 5 min) present their work, how they use OOFEM, or how they are planning to use it.
- Practical session customized to participants' interests identified during registration. Participants can use their own laptops.
- Small workgroups working on selected problems

Course location: Czech Technical University, Thakurova 7, Prague, Czech Republic

Course date: 10-12 September 2018

Price: 800 EUR, reduced price 650 EUR for Ph.D. students (registered and paid before 15th June 2018).

The registration fee covers admission to lectures, a set of handouts, and refreshments during coffee breaks. All participants will receive a certificate of attendance.

Registration: www.oofem.org/courseregistration

Terms and conditions: The course language is English. Registration and payments for the training must be made no later than 15th August 2018. Cancellation must be received no later than one month (20 working days) before the beginning of the course. If the course is cancelled, participants will be notified and the tuition will be refunded. For more information visit www.oofem.org/en/courses. The course capacity is limited to 25 participants. The applications will be treated on the first-come-first-served basis.

Instructors:

prof. Dr. Ing. Bořek Patzák (<http://mech.fsv.cvut.cz/~bp/bp.html>)

prof. Ing. Milan Jirásek, DrSc. (<http://mech.fsv.cvut.cz/~milan/>)

doc. Ing. Vít Šmilauer, Ph.D. (<http://mech.fsv.cvut.cz/~smilauer/>)

Ing. Martin Horák, Ph.D.

Ing. Filip Kolařík, Ph.D.

Contact: oofemcourse@gmail.com