gamax laboratory solutions

YOUR INNOVATION.
OUR PASSION.

COMSOL Multiphysics® Intensive Training

GAMAX Laboratory Solutions helps you overcome your complex engineering challenges. We help a broad spectrum of industries to accelerate the innovation process in the field of R&D. As the sole authorized regional representative for Eastern Europe since 1996, we provide over two decades of expertise with Mathworks, Comsol, and Speedgoat products, software, and training. We offer consultation in project planning and design, research, virtual prototyping, testing, and go to market simulations.

COMSOL Multiphysics®

Suggested Background

This course is the recommended starting point for learning how to use the COMSOL Multiphysics® software. During the 2-day COMSOL Multiphysics® Intensive training course, you will develop a strong foundation for your future Multiphysics modeling work. We start at an introductory level, leading students through the essential steps needed in all analyses (geometry creation, interactive meshing techniques, model setup, postprocessing, etc.) Then, we move into more advanced topics, such as solution techniques and Multiphysics modeling.

The COMSOL Multiphysics® Intensive course is suitable for anyone with an engineering, physics, or science background. No previous experience with the COMSOL Multiphysics® software is required.

Day 1, 9:00am – 5:00pm

The first day is primarily focused on optimizing your usage of the software. We will present the Model Builder and Application Builder in COMSOL Multiphysics®, as well as introduce the COMSOL Server™ product. You will learn what is important in preparing your geometry for analysis, working with the COMSOL® software environment, and extracting information from your model.

The course begins with a guided introduction to the graphical user interface (GUI) and usage of the software so that you learn all of the key steps in the modeling workflow:
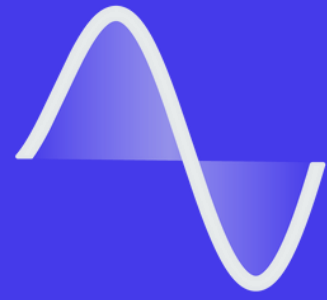
- Geometry & meshing
- Physics assignments
- Solving
- Model verification
- Data extraction

Day 2, 9:00am – 5:00pm

The second day builds upon the training from the previous day with more examples and lecture that address:

- Solving weakly and strongly coupled multiphysics models
- Solving large finite element models
- Local and nonlocal couplings
- Best modeling practices
- Maximizing user productivity

According to the interests of the participants, some or all of the above topics will be considered.

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Expand your knowledge

Should you have more specific training needs, please contact us about in-person and customized training opportunities at training@gamaxlabsol.com