

# Simulink: Modeling Advanced Systems

Course code: SIMULINK2

You will learn how to model and simulate more complex types of systems and use tools for building advanced algorithms. You will become familiar with settings that influence the course and efficiency of simulations, as well as options for creating and implementing more general input signals into your models. You will learn how to create elements in Simulink that can be reused in one or more models, or how to model algorithms that can be called conditionally. Additionally, you will discover tools and techniques for debugging and accelerating simulations. You will also learn how to set up and run multiple simulations, which will allow you to effectively explore the behavior of a model under different parameter values.

## What we teach you

- Modeling advanced systems
- Types of simulation solvers and their settings
- Importing input data from the workspace and scenario editor
- Modeling algorithms with conditional calls
- Creating custom blocks and basics of model componentization
- Tools for debugging simulation models and accelerating simulations
- Multiple simulations with different parameter values

## Required skills

- Knowledge at the level of the "Simulink: Basics of System and Algorithm Modeling" training.

## Teaching materials

- Printed lecture in Czech/Slovak language, certificate of completion.

## Covered tools:

- Basic Simulink module

**GOPAS Praha**  
Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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