MATLAB Basics: Data Manipulation and Programming

Course code: HSMATLAB2

You will master the efficient handling of data in various formats and learn how to write computational programs that process this data.

Affiliate	Duration	Course price	ITB
Praha	1	4 800 €	0
Bratislava	1	200 €	0

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
23.09.2025	1	4 800 Kč	Presence	CZ/SK	HUMUSOFT
23.09.2025	1	4 800 Kč	Online	CZ/SK	HUMUSOFT - Online
25.11.2025	1	4 800 Kč	Presence	CZ/SK	HUMUSOFT
25.11.2025	1	4 800 Kč	Online	CZ/SK	HUMUSOFT - Online

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Who is the course for

Intended for everyone who is starting to work with the MATLAB environment.

What we teach you

You will learn how to perform typical data analysis steps in MATLAB, from import and preprocessing to modeling and creating custom visualizations. You will discover how to select and sort data using conditions and how to process it in parts with the help of loops. You will also learn how to create your own computational functions, which will make your solutions more organized and allow for repetition and sharing of intermediate calculations between your programs.

Required skills

- Knowledge at the level of the "MATLAB Basics: Working with the Environment" training.

Teaching materials

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

Covered tools:

- MATLAB

Course outline

- Working with different types of data
- Fitting data with a model
- Modifying visualizations
- Searching and selecting data from vectors and matrices using logical indexing
- Programmatic constructs for controlling the flow of calculations: branching, loops
- Creating, running, and debugging functions
- Analyzing tabular data

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