

# Microsoft Excel – Data Analysis and Statistic Calculations

Course code: MSEXST1

At the course participants meet advanced data analysis methods. All standard statistical - analytic functions are discussed especially the Analysis ToolPack Add-Inn which is used for demanding statistical analyses. Listeners learn how to work with tools such as a descriptive statistics, a properties correlation, a values prediction and a work with time series. The course also focuses on clear interpretation of found results.

Affiliate	Duration	Course price	ITB
Praha	2	8 000 Kč	0
Brno	2	8 000 Kč	0
Bratislava	2	340 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
20.04.2026	2	340 €	Online	EN	Online
11.05.2026	2	8 000 Kč	Presence	CZ/SK	GOPAS Praha
28.05.2026	2	340 €	Presence	CZ/SK	GOPAS Bratislava
22.06.2026	2	340 €	Online	CZ/SK	Online
22.06.2026	2	8 000 Kč	Online	CZ/SK	Online
☀ 03.08.2026	2	8 000 Kč	Presence	CZ/SK	GOPAS Praha
26.10.2026	2	8 000 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

## Who is the course for

The course is for experienced users who work with data and want to analyze them. Participants meet advanced MS Excel 2007 tools.

## What we teach you

At the course participants meet advanced data analysis methods. All standard statistical - analytic functions are discussed especially the Analysis ToolPack Add-Inn which is used for demanding statistical analyses. Listeners learn how to work with tools such as a descriptive statistics, a properties correlation, a values prediction and a work with time series. The course also focuses on clear interpretation of found results.

## Required skills

Excellent knowledge of MS Excel. Participants should be able to work with functions, formulas and they should have an idea about data analysis principles.

## Course Outline

Analysis of extensive data volumes by helping PivotTable (PT) and PivotTable Chart Report.

- PT creation principles
- Total functions in PT
- Build-in functions for different data views in PT
- Calculated fields and items

**GOPAS Praha**  
Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[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.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



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- Data analysis and data understanding in PT

## Basic data analysis

- Frequency analysis
- Histogram - frequency chart
- Level characteristics (Mean, Median, Mode, Quantity)
- Variable characteristics (Variance, Deviation)
- Shape allocation characteristics (Kurtosis, Skewness)

## Dependence analysis

- Correlation
- Regression analysis (appropriate regression model, comparison of two different alternatives, judgment of regression model quality, estimates based on chosen regression model)
- Graphic dependence analysis
- Multi regression (more independent variables)

## Time series analysis

- Time series characteristics
- Basic time series description (differences, growth speed - chain, indexes)
- Time series modeling
- Time series decomposition (trend, seasonal, cyclic, random item of time series)
- Time series purge of seasonal component (moving average)
- Estimates based on time series model

### GOPAS Praha

Na Strži 2097/63  
140 00 Praha 4 - Krč  
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### 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  
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[info@gopas.sk](mailto:info@gopas.sk)



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