

# Development of Windows applications using WPF using the MVVM pattern

Course code: DOTNET\_WPF2

The course is taught for .NET developers who are interested in taking advantage of the MVVM architecture in creating WPF applications. You will learn to understand the advantages and disadvantages of this approach not only in theory, but also how to apply it in real situations, including design variants and related decisions, on real examples.

Affiliate	Duration	Course price	ITB
Praha	3	16 500 Kč	30
Brno	3	16 500 Kč	30
Bratislava	3	660 €	30

The prices are without VAT.

## Course terms

	Date	Duration	Course price	Type	Course language	Location
☀️ 📅	10.08.2026	3	14 025 Kč	Telepresence	CZ/SK	GOPAS Praha
☀️ 📅	10.08.2026	3	14 025 Kč	Telepresence	CZ/SK	GOPAS Brno
☀️ 📅	10.08.2026	3	561 €	Telepresence	CZ/SK	GOPAS Bratislava
📅	18.11.2026	3	16 500 Kč	Telepresence	CZ/SK	GOPAS Praha
📅	18.11.2026	3	16 500 Kč	Telepresence	CZ/SK	GOPAS Brno
📅	18.11.2026	3	660 €	Telepresence	CZ/SK	GOPAS Bratislava

The prices are without VAT.

## Required input knowledge

- Experience with c # programming at GOC2125 and DOTNET\_WPF levels is assumed
- Development experience with Visual Studio
- Experience with object-oriented programming in C #
- Experience with LINQ technology

## Teaching methods

- Expert explanation with practical examples, exercises on computers

## Course syllabus

Architecture and MV \* patterns

MVVM - what, why, how

Model

- Link with three-tier architecture
- Model requirements
- Useful Designs - Facade and Adapter

ViewModel

- Purpose and responsibilities
- INotifyPropertyChanged and ObservableCollection
- Model and viewmodel status - differences
- Hybrid architecture - MVP vs MVVM
- Navigation and Pattern Mediator

View

**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.: +420 530 513 590  
[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)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved

# Development of Windows applications using WPF using the MVVM pattern

- XAML, resources, binding
- Sequence of events and how to avoid event loops

Dependency and constraint management

- Manual access
- IoC / DI

Alternatives

**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.: +420 530 513 590  
[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)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved