

# Object-Oriented Analysis in Practice

Course code: GOC28

The course is intended for everyone who wants to design IS using an object-oriented approach. Course participants will learn how to create consistent system models in UML, the fundamentals of the object-oriented approach and its application in developing an information system based on a business processes model.

## Who is the course for

The course is intended primarily for developers who want to design IS using an object-oriented approach.

## What we teach you

Applying UML and object methods to IS design

Building a Use Case model

Creating a verbal scenario

Designing an analytical model

Using class diagrams

Dividing the system into modules

Separating the user interface and

Application logic

## Required skills

Basic UML skills at course level GOC26

## Course Outline

Introduction to the terminology and theory

- Introduction to object methods (OM)
- Applying UML and OM to IS design

Deriving an IS from business processes

- Building a Use Case model
- Basic procedure
- Practical tips and tricks
- Example and practice
- Creating verbal scenarios
- Basic procedure
- Practical tips and tricks
- Example and practice

Designing an analytical model

- Sequence diagram
- Basic procedure
- Practical tips and tricks
- Example and practice
- Activity diagram
- Basic procedure
- Practical tips and tricks
- Example and practice
- Class diagram
- Basic procedure

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- Practical tips and tricks
- Example and practice
- Checking the model's consistency
- Legibility and comprehensibility of diagrams

## System design

- Designing system architecture
- Dividing the system into modules
- Separating the user interface and application logic
- Link between object and data model
- Putting modules into development

## Final recommendations

- Using case tools
- Creating documentation
- Practical tips and tricks

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