BIP Summer School 2026

BLENDED INTENSIVE PROGRAM SUMMER SCHOOL 2026

Useful Tools for Data Visualization and Data Analysis

29th June – 3rd July 2026
Faculty of Management, Comenius University
Bratislava, Slovakia
6th – 10th July 2026 online
5 ECTS

BIP Summer School 2026

CONTENT OF THE COURSE

Overview of Power BI,

Data import methods Basic data loading and transformation with Power Query

Understanding the principles of data modeling

Visualization options

Designing dashboards and reports

Sharing reports and dashboards, publishing reports to the Power BI Service

Project designing

TEACHERS

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BIP Summer School 2026

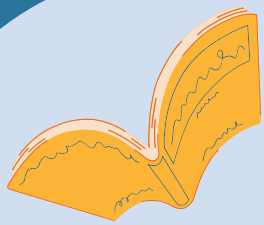
COURSE FORMAT: BLENDED INTENSIVE PROGRAM

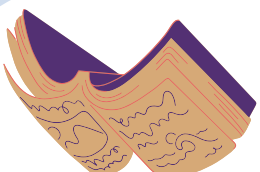
29th June – 3rd July 2026 in Bratislava, Faculty of Management, Odbojárov 10

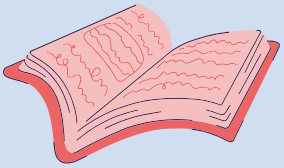
6th - 10th July 2026 online

STUDENTS NEED TO PARTICIPATE IN BOTH ONLINE AND PHYSICAL PART.

The extent of the course is 5 ECTS which will be recognized by the sending institution based on students learning agreement. The course is open and free of charge for all students. Erasmus+ network students will get a grant for the physical stay, Applications for blended mobility funding are submitted via the home institution's International Office. Students from other countries need to cover their travel, visa, accommodation, and other related costs.







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SYLLABUS

Students will learn about selected data processing options, data quality, spreadsheet data processing, pivot table as a basic tool, data sources, data types, facts, dimensions. Some data stories will be used to demonstrate the basic functions of the Power BI tool. Students will run special datasets, learn how to manage data in Power Query Editor in M language, use DAX language. how to create a functional data model and how to use data visualization capabilities in Power BI, how to share dashboards in Power BI or in MS Fabric.

OVERVIEW OF POWER BI: COMPONENTS AND ARCHITECTURE (POWER BI DESKTOP, POWER BI SERVICE, POWER BI MOBILE)

• INSTALLATION AND SETUP OF POWER BI DESKTOP

• DATA IMPORT METHODS: CONNECTING TO VARIOUS DATA SOURCES, ETL/ELT

• BASIC DATA LOADING AND TRANSFORMATION WITH POWER QUERY, M LANGUAGE

• FACTS, DIMENSIONS

• UNDERSTANDING DATA MODELING BASICS: TABLES, RELATIONSHIPS, AND DATA TYPES

• CREATING RELATIONSHIPS BETWEEN TABLES IN POWER BI

• VISUALIZATION OPTIONS: CHARTS, TABLES, AND MAPS

• DESIGNING DASHBOARDS AND REPORTS

• INTRODUCTION TO DAX (DATA ANALYSIS EXPRESSIONS)

• CREATING CALCULATED COLUMNS AND MEASURES

• CREATING VISUALIZATIONS USING SAMPLE DATASETS

• CUSTOMIZING VISUALS: FORMATTING, COLORS, AND INTERACTIVE ELEMENTS

• FILTERS AND SLICERS FOR INTERACTIVITY

• BOOKMARKS FOR STORYTELLING IN REPORTS

• PUBLISHING REPORTS TO THE POWER BI SERVICE

• SHARING REPORTS AND DASHBOARDS

• DATA REFRESH AND SCHEDULED UPDATES

• GROUP PROJECT: ANALYZING A GIVEN DATASET TO CREATE A COMPREHENSIVE POWER BI REPORT

• PRESENTATION OF FINDINGS AND INSIGHTS FROM THE ANALYSIS

• Q&A SESSION, ADDITIONAL RESOURCES FOR LEARNING POWER BI, ONGOING PROJECTS, OR REAL-WORLD APPLICATIONS

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ARRIVAL

You can come to Bratislava by train, bus or plane.
The airports you can reach Bratislava from are Bratislava and Vienna (there is a bus connection directly to Bratislava and the ride takes approx. 1 hour Flixbus, Slovak Lines, RegioJet).
If you want to use a taxi from Vienna airport, book in advance here www.transportschwechat.sk.
For transportation within the city, you can use Bolt, Uber or public transportation.
https://imhd.sk/ba/public-transport

HOW TO FIND US

Faculty of Management, Comenius University Bratislava
Address: Odbojárov 10, 820 05 Bratislava
Bus stop: Tipos Aréna (busses and trolleybusses # 39,47,53, 60, 61, 63, 78, 163)
Tram stop: Česká (tram # 4)
https://imhd.sk/ba/public-transport

CONTACTS

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