



50 years of  
University  
of Split

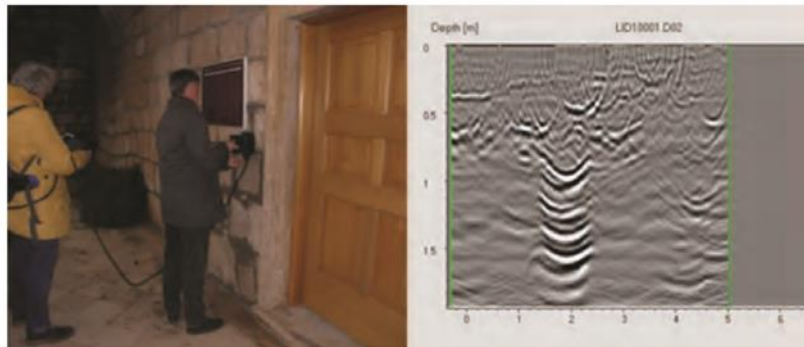
## INTERNATIONAL SPLIT SUMMER SCHOOL 2024

**COURSE: Application of Ground-Penetrating Radar (GPR) in Civil Engineering**

**Contact person:** Dragan Poljak  
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### Main topics:

- Introduction to fundamentals of GPR operation
- Problem analysis and selection of an appropriate antenna
- Independent survey of the structural element using GPR
- Detection of the location of underground installations
- Locating damage on the carriageway and the pavement structure
- Analysis and interpretation of GPR surveys



### Programme structure:

- 5-day course
- Data will be provided for practice and for final presentation
- Every student gets lecture notes

### Important dates:

Course dates: 02/09/2024 – 06/09/2024

Deadline for application: 08/07/2024

Confirmation of the course: 10/07/2024

Payment due by: 18/08/2024

### Price of the course:

300 € (tax included)

**Programme plan:**

## Day 1

- Introduction into GPR technology (2h)
- GPR applications (2h)

## Day 2

- Presentation of GPR systems and various antenna types (2h)
- Fundamentals of GPR operation (2h)

## Day 3

- Practical activities (2GHz antenna) (2h)
- Introduction into other non-destructive methods (NDT) (2h)

## Day 4

- Practical activities (200/600 MHz) (2h)
- Analysis of GPR data (2h)

## Day 5

- Students' final projects (3h)
- Final presentations (1h)

**Programme lecturers:**

Prof. Dragan Poljak

Full professor at the University of Split,  
Faculty of Electrical Engineering,  
Mechanical Engineering and Naval  
Architecture

Prof. Damir Varevac

Faculty of Civil Engineering in Osijek