



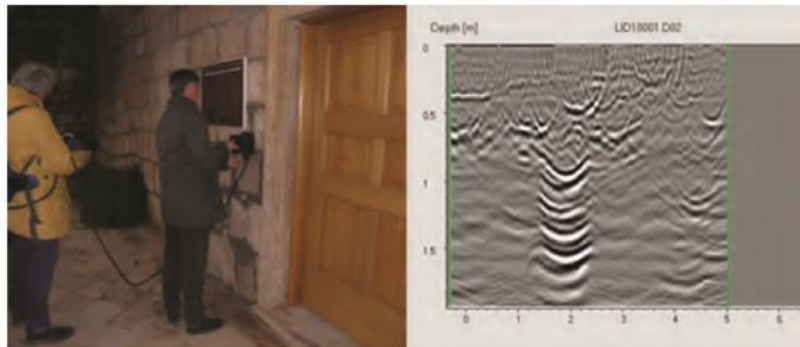
**SPLIT SUMMER SCHOOL STSS2022**

**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: 05/09/2022 – 09/09/2022  
Deadline for application: 22/07/2022  
Confirmation of the course: 02/08/2022  
Payment due by: 22/08/2022

**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)

**Programme lecturers:**

Prof. Dragan Poljak  
Full professor at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture  
Assist. prof. Damir Varevac  
Faculty of Civil Engineering in Osijek

Day 4

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

Day 5

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