**Ref. no.:** 34000/6741-1/2019. ált **EFOP-3.4.3 -16-2016-00003** 



# NATIONAL UNIVERSITY OF PUBLIC SERVICE Faculty of Water Sciences

#### Summer School Program Baja

12-18 August 2019

Organiser: NATIONAL UNIVERSITY OF PUBLIC SERVICE

**Faculty of Water Sciences** 

Locations: CAMPUS: H-6500 Baja, Bajcsy-Zs. u. 14.;

Google maps link

FIELD STATION: H-7332 Magyaregregy, Várvölgyi u.

Google maps link

#### **Background:**

The need for climate and flood risk resiliency has induced changes in water policies in Europe and thus new challenges in water resources management are arising. Integrated approach and basin-scale, cross-border harmonized water management policies must prevail, and in order to achieve the basin-wide goals, attitudes towards floods and droughts have to be changed. There is a need for an improvement in water-related education and our Faculty strives for the use of state-of-the-art technologies in day-to-day monitoring, and for the widest possible application of novel numerical modeling techniques.

#### Topics:

The Summer school consists of classroom lectures, field measurements and processing of measurement results, including theory and practice of catchment hydrology processes from small to large scale, the investigation of runoff from the watershed. Participants will have hands-on field experience in surveying river morphology and discharge as well.





BEFEKTETÉS A JÖVŐBE

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#### **Detailed program:**

#### 11 August:

- Arrival to Baja in the afternoon (Beszédes József College, H-6500 Baja, Bajcsy-Zs u. 16.)
- Dinner

#### 12 August:

- Morning: introductory lecture on safety and security, theoretical instruction
- Afternoon: short sightseeing in Baja (by walking), Campus; Szentháromság Square; slope stabilization; Deák Ferenc Ship Locks; Türr Channel; Petőfi Island; Campus
- Dinner

#### 13 August:

- Morning: theoretical instruction
- Afternoon: travel to Magyaregregy
- Dinner

#### 14 August:

- Equipment introduction, measurements at Magyaregregy camp (velocity/discharge measurement with different methods, measurements of precipitation, infiltration and surface runoff)
- Processing of measurement results, elaboration of protocols
- Dinner

#### 15 August

- Measurements for hydrological longitudinal section of the discharge of a creek, junction measurements (walking distance: ~6km)
- Processing of measurement results, elaboration of protocols
- Dinner

#### 16 August

- Morning: travel to Baja
- Afternoon: measurement of the discharge of a large river (Danube) with Acoustic Doppler Current Profiler (ADCP), establishment of a surveying base point
- Dinner

#### 17 August

- Morning: Bathymetry measurements on the Danube and/or side branch
- Afternoon: Processing of measurement results, elaboration of protocols
- Closing event
- Dinner

#### 18 August

- Morning: free time (beach visit/canoeing can be organized)
- Afternoon: departure

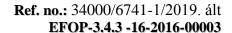














## NATIONAL UNIVERSITY OF PUBLIC SERVICE Faculty of Water Sciences

Contact person: György Varga, email: varga.gyorgy@uni-nke.hu; tel: +36 30 376 80 68

Application: Fill the application form on the link below and print it as well, sign it, then mail the

printed form to:

NATIONAL UNIVERSITY OF PUBLIC SERVICE

FACULTY OF WATER SCIENCES

Attn: György Varga

adress: H-6500 BAJA, BAJCSY-ZS U. 14.

#### Application form link

#### Application deadline is 31 May 2019.

We can provide accomodation, one meal per day along the Summer School for free. Important personal equipment: raincoat/umbrella; tracking boot/rubber boots; mosquito repellent. Be prepared that you will have to use public transoport or your own car in Hungary to travel between the locations of the Summer School, altogether about 150km.

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