Summer School

New and Innovative Courses for Precision Agriculture Geographic Information System/Remote sensing/Space Technologies

July 25-29, 2022

Czech University of Life Sciences Prague

Summer School Overview

Get exclusive access to the world's best training in precision agriculture using new technologies in physical sciences, such as Geographic Information System/GIS, big data and remote sensing. This Summer School is unique and numbers are limited to give you a personal and interactive education experience. The School also provides the participants with exposure to a unique interdisciplinary, international and intercultural learning environment.

NICOPA is aimed to modernize curricula in precision agriculture using new technologies: Geographic Information System (GIS), Big Data, remote sensing

Activities to test innovated curricula and to disseminate the results:

-       analyzing and updating existing curricula according to educational needs
-       developing new certified curricula according to the new achievements in the area, the labor market demands and the Bologna Process

Summer School Program

Sunday	**Arrival of delegations. Venue: Czech University of Life Sciences**
Monday	**Venue: Czech University of Life Sciences**
09:00-10:00	Registration of the participants/Opening keynotes. Presentation of the participants. Presentation of the study program. Administration issues
10:00-12:30	Prof. Dr. Dr. h.c. Harald Schuh, Director of "Geodesy" at Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences, President of the International Association of Geodesy (IAG), Professor for "Satellite Geodesy" at Technische Universität Berlin (TU Berlin)
12:30-13:30	Lunch
13:30-17:30	**Kumhála František**, prof. Dr. Ing., the Head of Agricultural Machines Department
Tuesday	**Venue: Czech University of Life Sciences**
09:00-10:00	**Dr. Jitka Kumhálová** Use of spectral information. Spectral properties, spectral curves, principles, problems, utilization
10:00-12:30	**Prof. Krum Hristov**, Agricultural University – Plovdiv, Bulgaria Global Navigation Satellite Systems (NAVSTAR, GLONASS, GALILEO, etc.) Indian Regional Navigation Satellite System (IRNSS) Quasi-Zenith Satellite System, Japan (QZSS)
12:30-13:30	Lunch
13:30-17:30	**Dr. Jan Chyba** Physical soil properties Soil grains size, soil sampling
Wednesday	**Venue: Czech University of Life Sciences**
09:00-10:00	**Dr. Jitka Kumhálová** Vegetation indices and color syntheses Vegetation indices and color syntheses, examples of use
10:00-12:30	**Prof.Dr Zhulieta Arnaudova.** Agricultural University –

	Plovdiv, Bulgaria. Access to Sentinel Data-part 2. SNAP toolbox and GIS data processing
12:30-13:30	Lunch
13:30-17:30	**Prof. Dr. Dimo Atanasov**, Agricultural University – Plovdiv, Bulgaria The role of innovation technologies for the production potential of Agriculture. Innovation Technologies. Production functions. Optimization of the production process.
Thursday	**Venue: Czech University of Life Sciences**
09:00-10:00	**Coordinating meeting**. Preparation to the final report of project: plan activities in each KZ university, reporting of implemented activities incl. financial issues. (Presentation)
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12:30-13:30	Lunch
13:30-17:30	Academic content of the project and curriculum development process (Presentation)
Friday	**Venue: Czech University of Life Sciences**
09:00-10:00	Activities on the establishment of Office PASO at partner universities
10:00-12:30	Establishment of Office PASO Network
12:30-13:30	Lunch
13:30-17:30	Dissemination activities at partner universities. Summing up the results of the meeting.
Saturday	**Departure**