VITALISING ICT RELEVANCE IN AGRICULTURAL LEARNING

University of Banja Luka

Jelena Rožić



Kick-off meeting

Banja Luka, 21-23.01.2020.



Banja Luka

 Educational, cultural, administrative center of the Republic of Srpska



180.000 Citizens



University of Banja Luka - General information



- Founded on 7 November 1975
- It is the largest university in the Republic of Srpska
- 17 faculties, 147 study programmes on all three cycles
- Around I5.000 students
- Around I.500 employees
 (2/3 academic staff and I/3 administrative staff)

Charter & Code - 2015



HR EXCELLENCE IN RESEARCH

















Internationalization

- Bilateral/multilateral agreements
- International educational projects
- Mobility
- Membership in networks of cooperation
- Seminars, round tables, summer schools, meetings, visits
- Lectures of visiting professors and other guests
- Cooperation with embassies and foreign governments (scholarships, study visits)

Since 1997 engaged in various international projects:

Erasmus+ (60 KA1 ICM and 15 KA2 CBHE)

CEEPUS programme

TEMPUS (89 projects)

Erasmus Mundus (6 projects)



University consists of 17 faculties

- Faculty of Electrical Engineering
- Faculty of Technology
- Faculty of Law
- Faculty of Economics
- Faculty of Mechanical Engineering
- Faculty of Medicine
- Faculty of Forestry
- Faculty of Agriculture
- Faculty of Philosophy
- Faculty of Architecture, Civil Engineering and Geodesy
- Faculty of Natural Sciences and Mathematics

- Academy of Arts
- Faculty of Physical Education and Sport
- Faculty of Philology
- Faculty of Political Science
- Faculty of Mine Engineering
- Faculty of Security Science







УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИUNIVERSITY OF BANJA LUKA

ПОЉОПРИВРЕДНИ ФАКУЛТЕТ FACULTY OF AGRICULTURE







There are 12 departments of which 6 belong to the Crop Production Study Program, 4 to Animal Production Study Program and 2 to Agricultural Economy and Rural Development Study Program.

The Faculty offers first cycle or Bachelor Studies, second cycle – Master and third cycle – Doctoral Studies.







Scientific research is carried out in six Institutes like follows: Institute for Horticulture, Institute for Farming, Institute for Agroecology and Soil, Institute for Animal Husbandry, Institute for Agricultural Economy and Rural Development, Institute for Reproduction of Domestic Animals. Within six Institutes there are 17 Laboratories, two Computer Rooms and Republic Experimental Educational Center in support of scientific research and teaching.



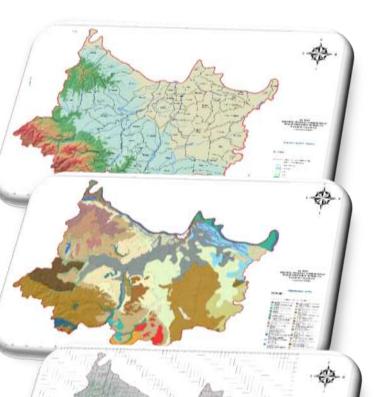


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Geographic Information System:

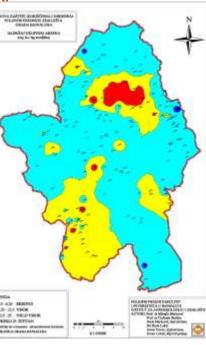
Monitoring of soil quality

(SOM, N, P, K, C....)

- land evaluation
- land capability
- soil suitability
- agro ecological zoning
- assessment of erosion
- flood protection
- water management

Remote sensing:

- land use
- land cover
- interpretation of satellite images and aerial photographs
- soil moisture (MODIS)





University of Banja Luka Faculty of Electrical Engineering

The oldest faculty of the University of Banja Luka, founded in 1962. Grew out of the Electronics and Telecommunications department of the Technical Faculty.



Departments:

- Electronics and Telecommunication,
- Computer Engineering and Informatics,
- Power Engineering and Industrial Systems.

From its foundation until today, the number of freshman varied between 120 and 550, while over 2000 students graduated. The study process is led by more than 40 full-time teachers and assistants of the University of Banja Luka, along with many teachers from other universities from WB countries and over the Europe.

www. etf.unibl.org





Signal Processing Group

Image and video processing

- Remote sensing image classification
- Medical image analysis
- Motion analysis and object localization
- Image fusion
 - Honeybee monitoring
 - Fish farm monitoring
- Signal processing in bio-nano communication
- Bioimpedanse measurement
- Houseplants & ICT
- Biohybrid systems

High-performance computing

Bio-ICT

Low-cost & low-power solutions

Thank you!



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