

**1<sup>st</sup> Seminar Master in ICT in Agricultural Sciences** February 24<sup>th</sup>-28<sup>th</sup> 2020  
**Faculty of Agrobiotechnical Sciences Osijek (FAZOS) &**  
**Faculty of Electrical Engineering, Computer Science and Information Technology Osijek (FERIT)**  
**University of Josip Juraj Strossmayer in Osijek – Campus – Osijek - Croatia**

## Final Schedule

Monday, February 24 <sup>th</sup> 2020 – Opening & Lectures		
10 <sup>00</sup> -15 <sup>00</sup>	10 <sup>00</sup> -10 <sup>30</sup> The Opening Ceremony & Introduction to Seminar 10 <sup>45</sup> -11 <sup>15</sup> Press Releases 11 <sup>15</sup> -12 <sup>00</sup> <b>Master in ICT in agriculture</b> – General INFO 12 <sup>00</sup> -13 <sup>00</sup> Snack Break 13 <sup>00</sup> -15 <sup>00</sup> Presentations & Workshops 13 <sup>00</sup> -13 <sup>45</sup> Ranko Gantner - <i>Developing a Grazing Plan Using MS-Excel Spreadsheet</i> 13 <sup>45</sup> -14 <sup>15</sup> Krešimir Nenadić - <i>Web development - Dynamic JavaScript Documents</i> 14 <sup>15</sup> -15 <sup>00</sup> Tomislav Katančić - <i>e-Marketing in Agriculture: Web Platform „e-ceker“</i>	Campus Osijek - FAZOS Faculty Council Room 1 <sup>st</sup> Floor, East Wing
Tuesday, February 25 <sup>th</sup> 2020 – Field Trip & Lectures		
09 <sup>00</sup> -15 <sup>00</sup>	9 <sup>00</sup> -9 <sup>15</sup> Welcome & Seminar Introduction 9 <sup>15</sup> -9 <sup>45</sup> <b>Master in ICT in agriculture</b> – General INFO 9 <sup>45</sup> Departure to Field Trip (Experimental Field Tenja) 10 <sup>00</sup> -11 <sup>45</sup> <b>Field Workshop - Arable Crops Mapping Using UAV</b> 11 <sup>45</sup> Departure to Faculty (FAZOS) 12 <sup>00</sup> -13 <sup>00</sup> Snack Break 13 <sup>00</sup> -15 <sup>00</sup> Presentations & Workshops 13 <sup>00</sup> -14 <sup>00</sup> Ivan Plaščak, Mladen Jurišić, Dorijan Radočaj - <i>Arable Crops Mapping - Data Processing</i> 14 <sup>00</sup> -14 <sup>30</sup> Ivica Lukić - <i>Databases - From Real World to Database</i> 14 <sup>30</sup> -15 <sup>00</sup> Andrijana Rebekić - <i>Visualization of Multivariate Data</i>	Experiment Field Tenja  Campus Osijek FAZOS Faculty Council Room 1 <sup>st</sup> Floor, East Wing

### Wednesday, February 26<sup>th</sup> 2020 – Education&Business Exursion

08 <sup>00</sup> -15 <sup>30</sup>	<b>Education&amp;Business Exursion to Osatina Ltd</b> 8 <sup>00</sup> Departure from Faculty (FAZOS) to Tomašanci 9 <sup>00</sup> – 10 <sup>00</sup> Visiting Biogas Plant, Dairy Farm, Greenhouse 10 <sup>00</sup> Departure to Viškovci 10 <sup>15</sup> – 11 <sup>30</sup> Visiting Main Corporative Building, Distribution Center, Slaščak Greenhouse 11 <sup>30</sup> Departure to Ivankovo 12 <sup>15</sup> – 13 <sup>00</sup> Visiting Mushrooms Production Site 13 <sup>00</sup> Lunch 14 <sup>30</sup> Departure to Osijek (FAZOS)	Tomašanci Viškovci Ivankovo
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### Thursday, February 27<sup>th</sup> 2020 – Lectures & Workshops

09 <sup>00</sup> -15 <sup>00</sup>	9 <sup>00</sup> -12 <sup>30</sup> Lectures & Presentations 9 <sup>00</sup> -9 <sup>30</sup> Vesna Gantner - <i>Precision Dairy Cattle Farming</i> 9 <sup>30</sup> -10 <sup>00</sup> Zvonimir Steiner - <i>Optimization of Feed Mixture</i> 10 <sup>15</sup> -10 <sup>45</sup> Alfonzo Baumgarnter - <i>Algorithms and Data Structures - Maximum Flow Problem on the Network</i> 10 <sup>45</sup> -11 <sup>15</sup> Goran Martinović - <i>Current Challenges in ICT and Programming</i> 11 <sup>30</sup> -12 <sup>00</sup> Boris Ravnjak - <i>Calculations of Energy Requirements for Greenhouse Heating</i> 12 <sup>00</sup> -12 <sup>30</sup> Tomislav Vinković - <i>Greenhouse Climate - Management and Regulation Methods</i> 12 <sup>30</sup> -13 <sup>30</sup> Snack Break 13 <sup>30</sup> -15 <sup>00</sup> Lectures & Presentations 13 <sup>30</sup> -14 <sup>00</sup> Monika Tkalec - <i>Transplant Production - Management and Organization of Production Process</i> 14 <sup>00</sup> -14 <sup>30</sup> Ivana Majić - <i>Insect Pest Management with the Internet of Things</i> 14 <sup>30</sup> -15 <sup>00</sup> Mirko Köhler - <i>Modeling - Mathematical vs Physical Models</i>	Campus Osijek FAZOS Faculty Council Room 1 <sup>st</sup> Floor, East Wing
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## Friday, February 28<sup>th</sup> 2020 – Lectures & Workshops

<p>09<sup>00</sup>-15<sup>00</sup></p>	<p>9<sup>00</sup>-12<sup>30</sup> Lectures &amp; Presentations</p> <p>9<sup>00</sup>-9<sup>30</sup> Goran Kušec - <i>QR Code in Authentication of Animal Products</i></p> <p>9<sup>30</sup>-10<sup>00</sup> Ivona Đurkin Kušec, Kristina Gvozdanović - <i>Genetic Identification of Animals and Traceability of Animal Products</i></p> <p>10<sup>15</sup>-10<sup>45</sup> Krešimir Grgić - <i>Networks and Networking - Protection and Security of Data in Networks</i></p> <p>11<sup>00</sup>-11<sup>30</sup> David Kranjac - <i>Agri-Food Markets Medium-Term Model Projections</i></p> <p>11<sup>30</sup>-12<sup>30</sup> Vedran Stapić - <i>Agricultural journalism (also) went online - challenges of knowledge transfer</i></p> <p>12<sup>30</sup>-13<sup>30</sup> Snack Break</p> <p>13<sup>30</sup>-14<sup>30</sup> Lectures &amp; Presentations</p> <p>13<sup>30</sup>-14<sup>00</sup> Vesna Rastija - <i>In Silico Methods for the Prediction of Toxicity and Hazard of Agrochemicals</i></p> <p>14<sup>00</sup>-14<sup>30</sup> Juraj Bučević - <i>e-Marketing: Case Study in Organic Agriculture</i></p> <p>14<sup>30</sup>-15<sup>00</sup> Zdenko Lončarić - <i>Decision Support System (DSS) for Fertilization</i></p>	<p>Campus Osijek          FAZOS          Faculty Council Room          1<sup>st</sup> Floor, East Wing</p>
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1<sup>st</sup> Seminar

## Master in ICT in agricultural sciences

February 24<sup>th</sup>-28<sup>th</sup> 2020

### List of Lectures & Presentations

1. **MONDAY 13<sup>00</sup>-13<sup>45</sup> - Developing a Grazing Plan Using MS-Excel Spreadsheet** - Ranko Gantner (FAZOS)
2. **MONDAY 13<sup>45</sup>-14<sup>15</sup> - Web development - Dynamic JavaScript Documents** - Krešimir Nenadić (FERIT)
3. **MONDAY 14<sup>15</sup>-15<sup>00</sup> - e-Marketing in Agriculture: Web Platform „e-ceker“** - Tomislav Katančić (Private sector)
  
4. **TUESDAY 10<sup>00</sup>-11<sup>45</sup> - Field Workshop - Arable Crops Mapping Using UAV** (collection of geolocations - GNSS device, logging in to the AMC portal, drone flight mission and data collection) - Ivan Plaščak, Mladen Jurišić, Dorijan Radočaj
5. **TUESDAY 13<sup>00</sup>-14<sup>00</sup> - Arable Crops Mapping Using UAV - Data Processing and Analysis** - Ivan Plaščak, Mladen Jurišić, Dorijan Radočaj
6. **TUESDAY 14<sup>00</sup>-14<sup>30</sup> - Databases - From Real World to Database** - Ivica Lukić (FERIT)
7. **TUESDAY 14<sup>30</sup>-15<sup>00</sup> - Visualization of Multivariate Data** - Andrijana Rebekić (FAZOS)
  
8. **THURSDAY 9<sup>00</sup>-9<sup>30</sup> - Precision Dairy Cattle Farming** - Vesna Gantner (FAZOS)
9. **THURSDAY 9<sup>30</sup>-10<sup>00</sup> - Optimization of Feed Mixture** - Zvonimir Steiner, Mario Ronta (FAZOS)
10. **THURSDAY 10<sup>15</sup>-10<sup>45</sup> - Algorithms and Data Structures - Maximum Flow Problem on the Network** - Alfonzo Baumgarnter (FERIT)
11. **THURSDAY 10<sup>45</sup>-11<sup>15</sup> - Current Challenges in ICT and Programming** - Goran Martinović (FERIT)
12. **THURSDAY 11<sup>30</sup>-12<sup>00</sup> - Calculations of Energy Requirements for Greenhouse Heating** - Boris Ravnjak (FAZOS)
13. **THURSDAY 12<sup>00</sup>-12<sup>30</sup> - Greenhouse Climate - Management and Regulation Methods** - Tomislav Vinković (FAZOS)
14. **THURSDAY 13<sup>30</sup>-14<sup>00</sup> - Transplant Production - Management and Organization of Production Process** - Monika Tkalec (FAZOS)
15. **THURSDAY 14<sup>00</sup>-14<sup>30</sup> - Insect Pest Management with the Internet of Things** - Ivana Majić (FAZOS)
16. **THURSDAY 14<sup>30</sup>-15<sup>00</sup> - Modeling - Mathematical vs Physical Models** - Mirko Köhler (FERIT)

17. **FRIDAY 9<sup>00</sup>-9<sup>30</sup> - QR Code in Authentication of Animal Products** - Goran Kušec (FAZOS)
18. **FRIDAY 9<sup>30</sup>-10<sup>00</sup> - Genetic Identification of Animals and Traceability of Animal Products** - Ivona Đurkin Kušec, Kristina Gvozdanović (FAZOS)
19. **FRIDAY 10<sup>15</sup>-10<sup>45</sup> - Networks and Networking - Protection and Security of Data in Networks** - Krešimir Grgić (FERIT)
20. **FRIDAY 11<sup>00</sup>-11<sup>30</sup> - Agri-Food Markets Medium-Term Model Projections** - David Kranjac (FAZOS)
21. **FRIDAY 11<sup>30</sup>-12<sup>30</sup> - Agricultural journalism (also) went online - challenges of knowledge transfer** – Vedran Stapić (Agroklub)
22. **FRIDAY 13<sup>30</sup>-14<sup>00</sup> - In Silico Methods for the Prediction of Toxicity and Hazard of Agrochemicals** - Vesna Rastija (FAZOS)
23. **FRIDAY 14<sup>00</sup>-14<sup>30</sup> - e-Marketing: Case Study in Organic Agriculture** - Juraj Bučević (Private sector)
24. **FRIDAY 14<sup>30</sup>-15<sup>00</sup> - Decision Support System (DSS) for Fertilization** - Zdenko Lončarić (FAZOS)