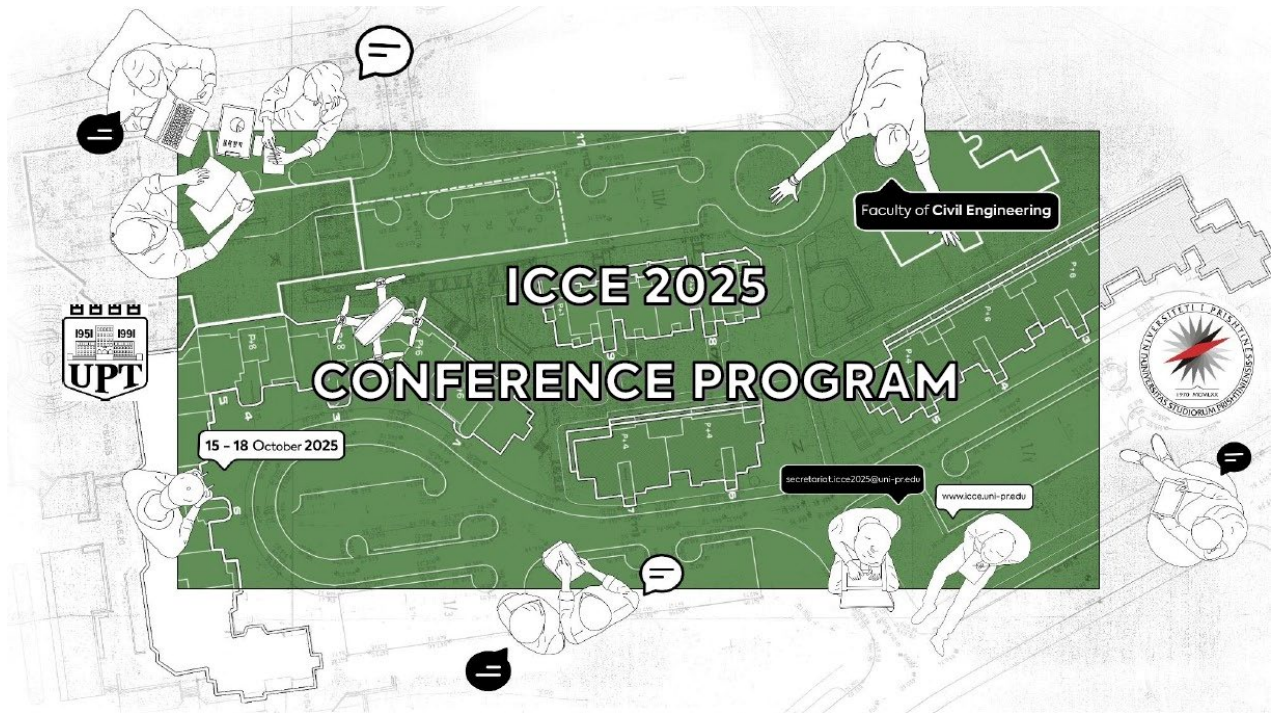
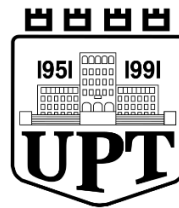




ICCE 2025 | International Conference of Civil Engineering



Conference Organizers



Spotting Organizations:





3RD INTERNATIONAL CONFERENCE OF CIVIL ENGINEERING, ICCE 2025

Day 1: Wednesday, October 15

Location: The Faculty of Civil Engineering, Prishtina, Kosovo

Time	Activity	Location
From 13:00	Registration for Opening Ceremony	FCE Reception Desk
14:00 – 14:15	WELCOME REMARKS Panel: Prof. Florim Grajçevci, Prof. Neritan Shkodrani	FCE Hall
14:15 – 14:45	Nuclear Safety, Security, and Safeguards Design Considerations for New Advanced and Small Modular Reactors Prof. Jason Harris – Keynote Speaker Panel: Prof. Florim Grajçevci, Prof. Neritan Shkodrani	FCE Hall
14:45 – 15:15	COFFEE BREAK	International Corner FCE
15:15 – 15:45	Novel approaches towards sustainable management of existing civil infrastructures Prof. José António Silva Carvalho Campos Matos – Keynote Speaker Panel: Prof. Naser Kabashi, Prof. Cene Krasniqi	FCE Hall
15:45 – 16:15	Mitigating the Impact of Climate Change on Drought: The Potentiality of a Precipitation Enhancement Project. Prof. Theodore S. Karacostas – Keynote Speaker Panel: Prof. Laura Kusari Prof. Lavdim Osmanaj	FCE Hall
16:15 – 16:45	Step Forward Toward Smarter Severe Weather Forecasting and Alert Systems Prof. Vlado Spiridonov – Keynote Speaker Panel: Prof. Lavdim Osmanaj, Prof. Andrin Kerpaci	FCE Hall
16:45	WELCOME COCKTAIL RECEPTION Saxophone music player Dukagjin Muhaxheri	International Corner FCE



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Day 2: Thursday, October 16

Time	Activity	Location
08:00 – 09:00	Registration for Opening Ceremony	
09:00 – 10:00	OPENING CEREMONY Panel: Prof. Florim Grajčevci, Prof. Neritan Shkodrani, Prof. Arben Hajrullahu, Prof. Akli Fundo	FCE Hall
10:00 – 10:15	COFFEE BREAK	International Corner FCE
10:15 – 10:45	The role of treatment wetlands in rural wastewater management Günter Langergraber – Keynote Speaker Panel: Figene Ahmedi, Prof. Joana Gjipalaj	FCE Hall
10:45 – 11:15	The role of supplemental damping systems in optimizing the serviceability performance of tall buildings Prof. Bujar Morava – Keynote Speaker Panel: Prof. Misin Misini, Prof. Irakli Premti	FCE Hall
11:15 – 11:45	Automated Production of Precast Carbon-reinforced Concrete Elements Prof. Klaus Holschemacher – Keynote Speaker Panel: Prof. Naser Kabashi, Prof. Dr. Elfrida Shehu	FCE Hall
11:45 – 12:15	Constructed wetlands for circular wastewater management: International examples and case studies Prof. Alexandros Stefanakis – Keynote Speaker Panel: Prof. Lavdim Osmanaj, Prof. Alfred Lako	FCE Hall
12:15 – 13:30	LUNCH	International Corner FCE
13:30 – 14:00	The Relevance of Cartography and the Impact of Artificial Intelligence Prof. Georg Gartner – Keynote Speaker Panel: Prof. Bashkim Idrizi, Prof. Bilbil Nurce	FCE Hall
14:00 – 14:30	Design of underground workouts in thermo-hydro-mechanical coupling conditions Prof. Dashnor Hoxha – Keynote Speaker Panel: Prof. Zijadin Guri, Prof. Neritan Shkodrani	FCE Hall
14:30 – 15:00	30 Years of Experience in Research and Implementation of Constructed Wetland Wastewater Treatment Plants Prof. Krzysztof Józwiakowski – Keynote Speaker Panel: Prof. Figene Ahmedi, Prof. Blerina Beqaj	FCE Hall
15:00 – 15:30	Performance-Based Optimisation of Cold-Formed Steel Strap-Braced Wall Systems in Seismic Regions Prof. Iman Hajirsouliha – Keynote Speaker Panel: Prof. Anita Gjukaj, Prof. Arian Lako	FCE Hall
15:30 – 16:00	COFFEE BREAK	International Corner FCE
16:00 – 16:30	Rare Earth Elements in the city and their relation to landscape features Prof. Klaudia Anna Borowiak – Keynote Speaker Panel: Prof. Laura Kusari, Prof. Joana Gjipalaj	FCE Hall
16:30 – 17:00	Self-compacting grout and concrete. How is it produced and why it is needed? Prof. Hakim S. Abdelgader – Keynote Speaker Panel: Prof. Hajdar Sadiku, Prof. Zijadin Guri	FCE Hall

17:00 – 18:00	POSTER SESSION	FCE Hall
17:00 – 18:00	ROUND TABLE Nature-Based Solutions	Room 440
18:00 – 20:00	FREE TIME	
From 20:00	GALA DINNER	Venus Hotel

LIST OF TOPICS PRESENTED AS POSTERS

Topic	Title	Authors
SEE	Probabilistic Seismic Vulnerability Assessment Using Fragility Functions and Maximum Likelihood Estimation	Illir Canaj, Kristina Milkova, Elena Dumova
SEE	Seismic Analysis of Infilled RC Frames with Irregular Wall Distribution Using Macro-Modeling Techniques	Illir Canaj, Zijadin Guri, Labeat Misini, Valon Veseli
SEE	Evaluation of the Seismic Response of Masonry Structure	Xhevahir Aliu, Mentor Balili, Gridi Pergjergji
SEE	The Impact of Confined Masonry Infill on the Seismic Performance of Rc Frame Structures	Ylli Murati, Enes Krasniqi, Milot Muhaxheri, Naser Kabashi; Florim Grajçevci
SEE	Evaluation of Seismic Vulnerability Assessment for a Masonry Structure	Mentor Balilaj, Xhevahir Aliu, Gridi Pergjergji
SEE	Structural behavior of masonry-infilled RC frames under axial and lateral loading	Florim Grajçevci, Valon Veseli, Labeat Misini, Illir Canaj
AICMCE	Analytical Computation of the Shear Correction Factor in Layered and Heterogeneous Sections	Tomasz Garbowski, Anna Szymczak-Graczyk, Zijadin Guri, Illir Canaj
AICMCE	Static analysis of a tilted sinking well in the context of safe operation	Anna Szymczak-Graczyk, Tomasz Garbowski, Florim Grajçevci, Hajdar Sadiku
CTM	Comparative analysis of housing design standards in Albania, Kosovo and the EU countries	Otjela Lubonja, Igli Kondi, Driton Kryeziu
CTM	Heavy- duty pavements design methodologies for port, airports and highways	Iralda Xhaferaj
CM	Modelling and experimental evaluation of adhesion Strength in cement-based tile adhesives	Dhurata Premti, Irakli Premti, Altina Tjegulla, Marisa Koci
GE	Parametric Study for Mechanically Stabilized Earth (MSE) wall	Alketa Ndoj, Neritan Shkodrani, Shpresa Gashi
GE	Analytical and Numerical Estimation of Pile Capacity in Soft Soils: A Comparative Study Using Classical Methods and Plaxis	Shpresa Gashi, Neritan Shkodrani, Alketa Ndoj
GE	Analysis of Lateral Loading on Pile Groups	Irsa Karaj, Klaidi Nika
GE	Forecasting Transport Demand: A Predictive Modelling Approach for Sustainable Mobility in Fushë Kosova	Ramadan Duraku, Guxim Rrudhani, Ermal Sylejmani
TE	Challenges in the Transportation Sector in Albania During the Last Decade and Future Remediations	Raimonda Dervishi, Arian Lako, Agbata Benedict Celestine, Marin Malotaj

GCPRS	Application of Geodetic Technologies in the preservation of Butrint Archeologic Site	Erta Kushta, Bledar Sina
GCPRS	Photogrammetric Documentation and 3D Modeling of the “Goddess on the Throne” Using Low-Cost Techniques	Almedina Rapuca
HBM	A Sustainable Model for Heritage Property: Revitalizing a house in Berat Castle	Enkeleda Kokona, Helidon Kokona, Ergys Caushi
HCE	Determination of the flow resistance force for flexible floodplain vegetation	Tomasz Tymiński, Tomasz Kałuża
HCE	Hydraulic research of water damming by flow through floodplain vegetation	Tomasz Tymiński
HCE	Laboratory studies on the sedimentation of river debris in a fish ladder	Tomasz Tymiński
HFRM	Sustainable Water Resource Management in Kosovo: Trends, Challenges, and Future Strategies	Vlerë Krasniqi
HFRM	Sustainable Flood Protection of the Toplluha River: Integrating Bank Reinforcements and Nature-Based Solutions	Venera Hajdari Llapashtica, Laura Kusari, Lavdim Osmanaj
HRFM	An Overview of Water Footprint Assessment of Olive Oil Production	Entela Çobani, Xhuana Xhika, Denisa Selimi
HFRM	Hydrological and Morphological Assessment of the Desivojë Dam Site: A Case Study from Eastern Kosovo	Hana Shehu Agani, Lavdim Osmanaj
HFRM	Assessment of Rainfall Contribution to the Water Level Changes of Mirusha Lake	Premton Thaqi, Drilon Begaj, Figene Ahmedi
HFRM	Water Resources Management in the Ishem, Erzen and Mat River Basins	Xhemi Jaupaj -Velçani, Arduen Karagjozi, Kevin Peppo
WWT	Greener Drying: constructed wetland beds for sustainable sewage sludge dewatering	Karolina Józwiakowska, Krzysztof Józwiakowski
EQM	Sustainability of Oxygenation Technologies Integrated into Drip Irrigation Systems Case study: South-eastern Spain and Southwestern Albania	Jera Xhelilaj, Dr. Entela Çobani, Brisilda Rezvani, Xhuana Skura
EQM	Fundamental Principles of Biogas Product	Alfred Lako, Mikael Lako
EQM	Analysis of Multi-Criteria Evaluation Method of Landfill Site Selection in Dibra Region, Albania	Oltion Marko, Joana Gjipalaj
EQM	Environmental Sustainability Through Circular Economy - Bridging Academia, Businesses and Government	Konalsi Gjoka, Aida Lahi, Kleant Semema
ERE	The impact of (humidex) on the calculation of cooling degree days	Mirel Miço
CCAM	Landfill Gas Generation and Emission Models Model Options for Recovery System Design and Greenhouse Gas Inventories	Alfred Lako, Mikael Lako



Day 3: Friday, October 17

Location: The Faculty of Civil Engineering, Prishtina, Kosovo

Time	Activity	Location
09:00 – 09:30	Seismic Vulnerability of RC Residential Buildings: An Empirical Fragility Perspective Informed by the 2023 Earthquake Sequence in Türkiye Prof. Alper Ilki – Keynote Speaker Panel: Prof. Naser Kabashi, Prof. Igli Kondi	FCE Hall
09:30 – 10:00	Energy Harvesting from Earthquakes and Its Impact on Earthquake Isolation Systems and Sustainable Power Sources Prof. Abdulkadir Cuneyt Aydin – Keynote Speaker Panel: Prof. Zijadin Guri, Prof. Altin Bidaj	FCE Hall
10:00 – 10:15	COFFEE BREAK	International Corner FCE
10:15 – 10:45	Telceker-Uzengili Mud Flow; Seismically triggered landslide and earthquake hazard-structural destruction of Uzengili Village, Dogubayazit-Agri, East Turkiye Prof. Mehmet Salih Bayraktutan – Keynote Speaker Panel: Prof. Hajdar Sadiku, Prof. Alketa Ndoji	FCE Hall
Time	PARALLEL SESSIONS	Location
10:45 – 16:15	Session 1	Room 408
10:45 – 16:30	Session 2	Room 414
10:45 – 15:45	Session 3	Room 415
13:00 – 14:00	LUNCH	International Corner FCE
16:00 – 16:30	COFFEE BREAK	International Corner FCE
16:30 – 16:45	CLOSING CEREMONY	FCE Hall
From 16:45	FREE TIME	



SESSIONS AND TOPICS PARALLEL SESSIONS

Session 1 – Room 408

Structural and Earthquake Engineering Transportation Engineering **Panel 1: Prof. Bujar Morava, Prof. Iman Hajirsouliha**

Time	Topic	Authors
10:45 – 11:00	Geometric Shear Wall Changes during construction on the Highrise Buildings	Florim Grajçevci, Armend Mujaj, Valon Veseli, Dren Tahiri
11:00 – 11:15	The calculation of reinforced concrete elements under the action of bending moment, according to Eurocodes and US code ACI 318	Igli Kondi, Elvis Capo, Driton Kryeziu
11:15 – 11:30	Using 'DASISedu' program for seismic response history analysis of 2D frame structures with different seismic protection systems	Isak Idrizi
11:30 – 11:45	Anchorage Techniques for Vertical Structural Continuities and the Impact of Defects on Joint Performance	Alush Shala, Jelena Bleiziffer, Florim Grajçevci
11:45 – 12:00	The calculation of reinforced concrete elements under the action of shear force, according to Eurocodes and US code ACI 318	Elvis Capo, Igli Kondi, Feti Selmani
12:00 – 12:15	Ulpiana Neighborhood Case Study: Urban Seismic Risk Assessment	Fatos Tahiri, Florim Grajçevci, Shkumbin Makolli
12:15 – 12:30	Cost-Benefit Analysis of Seismic Retrofitting for Mid-Rise Buildings in Albania and the Balkan Region	Izet Mehmetaj, Diana Bardhi
12:30 – 12:45	A targeted seismic upgrading method for precast roof beam–column connections using adaptable seismic safety key devices	Labeat Misini, Florim Grajçevci, Ilir Canaj, Valon Veseli
12:45 – 13:00	Experimental and numerical behavior of extended end-plate bolted connections subjected to monotonic loading	Anita Gjukaj, Ali Muriqi, Petar Cvetanovski

Structural and Earthquake Engineering & Transportation Engineering **Panel 2: Prof. Alper Ilki, Prof. António Silva Carvalho Campos Matos**

Time	Topic	Authors
14:00 – 14:15	Seismic Performance and Behavior Factor Evaluation of Different Types of Vertical Extensions on RC Structures	Trajche Zafirov, Viktor Hristovski, Florim Grajçevci, Labeat Misini
14:15 – 14:30	Nonlinear Dynamic Analysis of RC Bridges with Steel and GFRP-Reinforced Piers Calibrated Using Experimental Results	Zijadin Guri, Ilir Canaj
14:30 – 14:45	Use of Nonlinear Static and Dynamic Analysis in Evaluating Structural Performance	Fatos Tahiri, Florim Grajçevci, Shkumbin Makolli
14:45 – 15:00	Influence of ductility class on seismic performance and construction costs of reinforced concrete structures	Valon Marku, Arben Dervishaj, Bledar Kalemi
15:15 – 15:30	Strengthening of Earthquake-Damaged Masonry Buildings with Beam-Column Frame Interventions	Mario Hysenlliu, Altin Bidaj
15:30 – 15:45	A comparison study between beams reinforced with conventional steel and CFRP bars	Drilona Disha - Karaj, Anjeza Dulaj - Gjini

15:45 – 16:00	Seismic Performance and Structural Integrity Evaluation of an Existing Building	Laurent Hakaj, Ilir Canaj, Labeat Misini
16:00 – 16:15	Simplified numerical method validated by experimental test for vertically hollow clay block in reinforced concrete frame under seismic loading	Arton D. Dautaj, Markel Baballeku and Ali Sh. Muriqi

SESSIONS AND TOPICS PARALLEL SESSIONS

Session 2 – Room 414

AI and Computational Methods in Civil Engineering
Construction Technology and Management & Construction Materials

Panel: Prof. Tomasz Garbowski, Prof. Anna Szymczak-Graczyk, Prof. Klaus Holschemacher

Time	Topic	Authors
10:45 – 11:00	Experimental and Numerical Performance Analysis of Steel Scaffolding Systems with Height of 300cm	Armend Mujaj, Florim Grajçevci, Zijadin Guri, Elfrida Shehu, Driton Kryeziu
11:00 – 11:15	Enhancing Dike Resilience: Reinforcement techniques and advanced monitoring systems for Climate Change Adaptation	Borana Kullolli, Abir Gallala, Valerija Ajkoviq
11:15 – 11:30	Fire Resistance of Continuous Two Span Reinforced Concrete Slabs	Fidan Salihu, Fatos Pllana, Meri Cvetkovksa, Liron Morina, Gëzime Salihu
11:30 – 11:45	Relation between construction scheduling and cash flow in the construction of infrastructure projects	Yllka Binaku, Esat Gashi
11:45 – 12:00	Design of Transfer Structures: Lessons Learned from Implemented Projects	Erjon Çobani, Izet Mehmetaj
12:00 – 12:15	Adaptive Reuse of Industrial Buildings: Structural Assessment and Rehabilitation	Nikolla Nika, Erdal Emre Çeçen
12:15 – 12:30	Analysis on the financial effects in the field of construction, of the implementation of the technical pricing manual in Albania and comparison with the methodology used in Kosovo	Anjeza Dulaj - Gjini, Drilona Disha, Xhuliana Gjojdeshi
12:30 – 12:45	Rheological Characteristics of Hybrid Steel- Synthetic Fibers Reinforced Concrete Beams	Hajdar Sadiku, Fidan Salihu, Milot Muhaxheri, Durim Sadiku
12:45 – 13:00	Artificial intelligence (AI) in civil engineering – A case study on perception and application	Syle Berisha, Valon Veseli, Guxim Rrudhani, Shkumbin Makolli



SESSIONS AND TOPICS PARALLEL SESSIONS

PARALLEL SESSIONS

Session 2 – Room 414

Geotechnical Engineering
Transportation Engineering

Panel: Prof. Iralda Xhaferaj, Prof. Dashnor Hoxha

Time	Topic	Authors
14:00 – 14:15	Theoretical Application of Wick Drains: A Case Study from Durrës	Neritan Shkodrani, Fjona Ferati, Besmira Bushaj
14:15 – 14:30	Comparative Evaluation of Stone Column Performances in Soil Improvement	Erdal Emre Çeçen, Ergys Çausi
14:30 – 14:45	Integrating Interpretable Machine Learning and Adaptive Sampling for Nonlinear Dynamic System Modeling	Liron Morina, Rina Peja
14:45 – 15:00	Reliability Analysis of the Axial Bearing Capacity of pile foundations using Monte Carlo simulation	Endri Duro, Filippo Forlani
15:15 – 15:30	Pile analysis as geothermally active structural elements	Guxim Rrudhani, Josif Josifovski, Armend Mujaj, Fidan Salihu
15:30 – 15:45	Evaluation of Pile Bearing Capacity Based on In-Situ Data from CPTu and SPT	Neritan Shkodrani, Marin Malotaj, Irsa Karaj
15:45 – 16:00	Evaluating Differences in Predicted Settlements: A Comparative Analysis of Soil-Structure Interaction Models	Adrian Kadiri, Mario Bačić, Kemal Edip
16:00 – 16:15	Comparative Analysis of Soil Liquefaction Potential in the Kune Vain Area (Lezhë)	Oltion Fejzollari, Igli Kondi, Julian Ksharaj
16:15 – 16:30	Optimizing Soil-Structure Interaction for Offshore Wind Turbines: Experimental Insights and Numerical Modeling	Borana Kullolli, Pablo Cuellar, Matthias Baessler



SESSIONS AND TOPICS PARALLEL SESSIONS

Session 3 – Room 415

Water and Wastewater Treatment
 Nature-Based Solutions for Sustainable Water and Climate Resilience
 Hydraulic and Coastal Engineering & Hydrology, Flooding and Resource Management
Panel: Prof. Tomasz Tymiński, Prof. Alexandros Stefanakis, Prof. Krzysztof Józwiakowski

Time	Topic	Authors
10:45 – 11:00	Application of Nature-Based Solutions in Urban Environment - Case Studies	Magdalena Gajewska, Katarzyna Kotecka, Magda Kasprzyk, Grażyna Gałęzowska, Alicja Kupczyk
11:00 – 11:15	Motile algae motility and their environmental application	Entela Çobani, Sindi Alliu
11:15 – 11:30	Discharge Rating Curve Estimation for Drini i Bardhë River using a Bayesian Hierarchical Model	Santino Spahiu, Enkelejda Gjinali
11:30 – 11:45	Local scour around bridge piers – case study “Ura e Zogut”	Naser Kabashi, Fjolla Trepça, Leonit Totaj, Vesa Ademaj
11:45 – 12:00	Assessment of Hydromorphological Elements in the Ishëm, Erzen, and Mat River Basins	Kevin Peppo, Arduen Karagjozi, Xhemi Jaupaj Velçani
12:00 – 12:15	Hydromorphological and Hydrological Analysis of the Osum River Basin in Albania	Bajame Zdrava, Elita Ferati
12:15 – 12:30	Application of 'Digital Twin' Technology in Wastewater Treatment: Enhancing Efficiency and Sustainability	Orgest Shehi, Oltion Marko, Joana Gjipalaj

Environmental Quality and Management & Climate Change Adaptation and Mitigation
 Efficiency and Renewable Energy

Panel: Prof. Klaudia Borowiak, Prof. Konalsi Gjoka, Prof. Figene Ahmedi

Time	Topic	Authors
14:00 – 14:15	Impact of Urban Land Use on Atmospheric Microplastic Deposition in Pristina, Kosovo	Arlinda Cakaj, Marta Lisiak- Zielińska, Kinga Drzewiecka, Anna Budka, Klaudia Borowiak, Maria Drapikowska, Arbnore Cakaj
14:15 – 14:30	Assessing Air Quality and Environmental Management in Civil Engineering Projects: A Case Study of the Durres– Pristina Railway Infrastructure	Enkelelda Sopaj, Rogerta Kumaraku
14:30 – 14:45	Levels of Priority Substances in the Port Area of Porto- Romano	Esmeralda Halo, Aurel Nuro, Enkelejda Gjinali
14:45 – 15:00	Greenhouse gas emissions in Municipality Rahovec and necessary measures to achieve Net Zero emissions by 2050	Maliq Pireci, Besim Veselaj, Afrim Berisha, Isa Elshani
15:00 – 15:15	Exploring Hydrokinetic Power: Opportunities for Albania’s Energy Transition	Blerina Beqaj, Era Fusha

Session 3 – Room 415

Geodesy, Cartography, Photogrammetry, RS & Geo-Information and NSDI
Geo-information and NSDI

Panel: Prof. Bilbil Nurçe, Prof. Besim Ajvazi

Time	Topic	Authors
15:15 – 15:30	Length Differences between Topography, Geoid, Ellipsoid and Map Projection at KosovaRef01 plan coordinate referent system	Bashkim Idrizi
15:30 – 15:45	The application of remote sensing techniques to identify land subsidence in Albania	Pietro Belba, Jorgaq Thanas

Day 4: Saturday, October 18

Social Activity

Time	Activity	Location
08:45 – 09:00	Gathering and departure from Faculty of Civil Engineering	FCE Parking Lot
10:15 – 11:30	Adem Jashari Memorial Complex	Prekaz
11:30 – 14:45	Water fall, Cave visiting, Restaurant “Ujvara e Drinit”, Radavc	Radavc
15:00	Departure from Radavc	Designated area
16:30	Arrival in Prishtina	FCE Parking Lot

