EVENT REPORT FORM

TYPE OF EVENT:	**Study visit**
VENUE:	**Psachna, Greece**
ORGANIZER:	**NKUA**
REPORTING DATE:	**14.10.2024.**
REPORT AUTHOR(S)	**Christos Manasis, Bojan Prlinčević**
INSTITUTION:	**NKUA, AASKM**

Project acronym:	**NEST4WB**
Project full title:	**NEW ENERGY COMPETENCE SYSTEM AND TECHNOLOGY FOR WB ENERGY STABILITY SYSTEM CURRICULUM REFORM**
Project No:	**101129321 (Call: ERASMUS-EDU-2023-CBHE)**
Coordinator institution:	**ACADEMY OF APPLIED STUDIES KOSOVO AND METOHIJA**
Coordinator:	**Phd Bojan Prlincevic, prof.a.s.**
Beneficiaries:	**SVEUCILISTE U RIJECI-TEHNICKI FAKULTET (UNIRI RITEH), Hrvatska** **ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON (NKUA),Grcka** **VSB - TECHNICAL UNIVERSITY OF OSTRAVA (VSB - TUO), Ceska** **UNIVERSIDAD POLITECNICA DE MADRID (UPM), Spain,** **AKADEMIJA TEHNICKO-VASPITACKIH STRUKOVNIH STUDIJA (AATPS), Serbia,** **AKADEMIJA TEHNICKO-UMETNICKIH STRUKOVNIH STUDIJA (ATUSS), Serbia,** **UNIVERSITY OF MITROVICA (UPKM), Kosovo *,** **UNIVERZITET U ISTOCNOM SARAJEVU (UES), Bosnia and Herzegovina,** **University of Mostar (SUM), Bosnia and Herzegovina,** **UNIVERZITET SINERGIJA BIJELJINA (USB), Bosnia and Herzegovina,** **LUARASI UNIVERSITY (LRS), Albania,** **UNIVERSITETI METROPOLITAN TIRANA (UMT), Albania,** **FAKULTET PRIMIJENJENE NAUKE PODGORICA (FPRN), Montenegro.**

Study Visit - NKUA

The second study visit was held from October 09-11, 2024, at the at Euripus Campus premises of the National and Kapodistrian University of Athens, Profiti Ilia 1, Psachna, Euboea, according to the planned agenda. In addition to the hosts, NKUA, and the coordinator, AASKM, representatives from partner institutions attended the study visit: UPM, VSB-TUO, AATPS, UPKM, FPRN, UMT, UES, SUM, USB, UNIRI RITEH, and LRS. A total of 31 representatives from the institutions participated in the study visit. The gender structure of the participants was such that 10 female participants and 21 male participants attended the meeting.

FIRST DAY (09.10.2024)

Participants registration to the daily attendance form

Opening Remarks and Introductions

Meeting initiated with general greetings and an introduction to the project scope by the host Pf. Christos Manasis (NKUA). Initial presentation by project coordinator dr. Bojan Prlinčević (ASSKM) with a focus on

- Emphasis on the need for data-driven approaches and efficient network structures for project goals.
- Main tasks highlighted as research, coordination, and ensuring student skill development aligned with project goals.

The coordinator presented an overview of the agenda and work plan for the study visit:

- Day 1: Host introduction, lab tours, and a presentation on government competence.
- Day 2: Focus on storage and stream quality assurance, updates on new study programs, and insights from Western institutions.
- Day 3: Updates on accreditation, study program implementation, and quality assurance initiatives; presentation of good practices in strategy and conciliation.

After the introductory presentations, the presentation of the host institutions continued with an institutional overview by Dr. Ioannis Koutsoubis, a member of the NKUA team:

- Overview of the National & Kapodistrian Univercity (Greece):
    - One of Greece's largest and oldest universities, founded in 1837, with a wide range of programs and research facilities.
    - 9 schools, 35 departments, and collaborations with 63 countries worldwide.
- Student Statistics: Over 40,000 undergraduates, 16,000 master's students, and nearly 1,000 PhD candidates.
- International Reach: About 7,500 international undergraduates and 4,100 graduate-level international students.
- Departments and Laboratories involved in Nest4WB project

  - Digital Industry Technologies Department:
    - Areas of focus include data analysis, IoT, robotics, AI, machine learning, and digital transformation.
  - Agricultural Development and Natural Resources Department:
    - Specializes in precision agriculture, biodiversity conservation, processing of agricultural products, and sustainable practices.
- Laboratory Details
  - Electrical Systems Laboratory:
    - Research on smart grids, microgrids, energy systems, and renewable energy integration.
    - Includes facilities like a microgrid laboratory for real-time testing of systems.
  - Energy Environmental Research Laboratory:
    - Focuses on solar and geothermal energy, energy storage, and building energy management.
    - Involvement in renewable energy projects, energy monitoring, and development of heating systems.
  - Academic Programs Supported
    - Master's programs linked to each lab, focusing on renewable energy sources, energy production and management, and intelligent systems for energy.
- Closing Remarks
  - Acknowledgments to the presenters and lab heads involved.

According to the agenda, the next item was a presentation on the report regarding the status of equipment procurement and laboratory formation, delivered by NKUA MSc Ioannis Konstantaras:

- The presentation provided an overview of Task 3.2 related to the purchase and development of equipment required for the project.
- Presenter's Overview of Equipment Purchasing Process
  - Current Status: A final list of required equipment has been established.
  - Next Steps: Preparing tender documents and initiating a recruitment process for suppliers.
  - Challenges: Procurement delays due to budget limitations. Proposed solution includes modifying the equipment list and submitting it to the project officer for approval for some of the partner universities.
  - Progress Across Universities: Partner universities have started varying stages of the procurement process.
  - Timeline: Equipment deliveries anticipated by year-end.
- Discussion:

- Most partner institutions are actively identifying companies eligible to participate in the tendering process.
- LRS and other institutions face timing issues that will not affect the overall project timeline.

After a coffee break, a tour of the laboratories involved in the project was organized:

- Guided tour to Electrical Machines and Drives Laboratory,
- Guided tour to High Voltages Laboratory
- Guided tour to Industrial Automation Laboratory

After the lunch break, a presentation on the Competence Catalogue was conducted by Dr. Rene Prenz from UNIRI-RITEH:

- UNIRI-RITEH Update: Addressed the program's timing and shared that an additional list of competencies would be added. The update includes advanced competencies for photovoltaic power plants, specifically designed for graduate-level studies.
- Undergraduate Renewable Energy Sources: A list of competencies has been compiled for this program. Additionally, a new Hybrid Renewable Energy Trainer laboratory will be established, not only for student use but also to provide professional training. This lab aims to develop competencies in renewable energy production, SCADA systems, and documentation processes.

SECOND DAY (10.10.2024)

After participants registration to the daily attendance form, The second day of the study visit began according to the planned agenda, with the SC meeting, PMC meeting, and QAC meeting

The second regular meeting of the SC and PMC

- Opening Remarks
  - Progress report on project activities presented.
  - Working Package 1:
    - Completed 3 tasks, ongoing steering committee and PMC meetings.
  - Working Package 2:
    - Completed tests; reports to be replicated and shared.
  - Working Package 5:
    - Development of quality assurance plan completed.
  - Working Package 6:
    - Sustainability plan created.
  - Working Package 7:

    - Dissemination plan established and project website developed.
  - Several deliverables submitted to Sigma platform, most approved.
    - Deliverable D1 (Project and Adaptive Project Management Guide): Approved.
    - Quality Assurance Manual: Approved.
    - Sustainability Plan: Submitted, pending approval.
    - Dissemination and Exploitation Plan: Approved.
  - Reminder that delays beyond one month require notification and potential amendments.
- Communication with Project Officer
  - Difficulty in contacting the project officer; previously responsive.
  - Need to follow up on communication issues.
- Ongoing Tasks
  - Working Package 2: Formation of partnership network underway.
  - Working Package 3: Equipment procurement procedures initiated.
  - Ongoing quality assurance tasks within Working Package 6.
- Dissemination Activities
  - Encouragement to promote project activities through local events and media.
  - Upcoming promotional events and conferences discussed, including:
    - February conference in Montenegro, focused on digitalization and related topics.
- Upcoming Deliverables and Deadlines
  - Competencies deliverable due by October 31.
  - Follow-up deadlines proposed for November 15 if needed.
  - New competencies and updated curriculum must be established by March 31.
- Future Study Visits
  - Third study visit scheduled for March 25-27. 2025 in Ostrava.
  - Fourth study visit proposed for May 6-8. 2025 year in Madrid.
  - Emphasis on completing reports and documenting study visits for dissemination.
  - It was also agreed that the first dissemination meeting will take place in Žabljak from February 19 to 21, 2025, during the IT 2025 scientific conference.
- Conclusions
  - Focus on timely completion of laboratory setup and curriculum development.
  - Importance of preparing draft reports for deliverables by the end of February.
  - Next steps for the quality assurance committee and approval processes discussed.

- Quality Assurance Committee
  - Documents prepared for review; approval process to continue via email.
- Next Agenda Items
  - Transition to presentations of new innovative study programs.
- SC & PMC meeting summary
  - The PMC meeting focused on project achievements and results during the first nine months of the project.
  - At the meeting, the PMC adopted the catalogue of competencies
  - Tasks for the next period have been assigned.
  - QAC meeting focused on improving the quality of project activities and evaluating results (reports, events, promotional materials).
  - The SC analysed activities related to project

After the coffee break, presentations on the content of new and innovated study programs in Western Balkan countries (WB) were delivered, focusing on updates regarding partner contributions to the Competency and Study Programs Project:

1. **Kosovo and Metohija Academy of Applied Studies (AASKM)**

- Program Name: Master's Professional Study Program in Electrical Engineering
- Duration: 4 semesters
- Structure:
  - 1st year: 12 courses
  - 2nd year: 8 courses
  - Internship (in both study years)
- Innovated courses:
  - Renewable Energy Sources
  - Opto-electronics Systems
  - Management and Control Systems
  - Relay Protection Technologies
  - Communication Systems
- New Courses:
  - Project Management in the Energy Sector
  - Smart Energy Networks

- Cyber Security in Energetics
- Digital Transformation of Businesses
- Energy Efficiency and Consumption Management

2. UNIVERSITY OF MITROVICA (UPKM)

- The development of the curriculum has been influenced by previous projects, including the Element project and the current project is seen as an opportunity to modernize the curriculum once more.
- Program Overview: **Bachelors program** in Electrical and Computer Engineering
  - Consisting of 240 ECTS
  - Three modules: Power Engineering, Electronics, and Computerm Engineering
- Course Modernization: Five subjects updated in curriculum:
  - Electrical Measurements (4th semester)
  - Low Voltage Electrical Installations (5th semester)
  - Electric Machines (6th semester)
  - Power Plants (7th semester)
  - Distribution Plants (8th semester)

3. University of East Sarajevo (UES)

- UES will improve a 1-year master's program in renewable energy sources and smart power grids. Three new courses will be introduced, with each course focusing on specific skills and competencies. Topics covered include:
  - Digital Relay Protection
  - Microgrids
  - Electric Vehicles in Smart Grids
  - Electricity Markets
  - Measuring and Monitoring Systems in Smart Grids
- Two existing courses (Electricity Market and Measurement and Monitoring Systems in Smart Grids) will also be modernized with additional competencies.

4. University of Mostar (SUM)

- Curriculum Enhancement
  - Upgrading existing course: Renewable Energy Sources (3rd year undergraduate)

- New elective: Photovoltaic Power Plants (1st year graduate)
- New elective: Smart Wind Energy Systems and Grid Integration (1st year graduate)

➢ New Renewable Energy Laboratory
- Practical training and research opportunities
- Support for master's thesis projects
- Exposure to industry-relevant technologies and equipment

➢ New Specialization Path
- Students can now specialize in renewable energy technologies
- Progressive learning path from basics to advanced topics

Lunch Break

5. Univerzitet Sinergija Bijeljina (USB)

➢ The study program of the university of Sinergija aims to:
- The education of professionals related to renewable energy sources
- The comprehension of remote management and control techniques applicable to the electrical grids
- Integration of renewable energy sources
- Software for modeling and simulation of solar and wind based energy systems
- Applications of IoT in smart grids

➢ The university will update the curriculum of one of the Master programs. New courses are selected to be included in the program:
- Contemporary Computer Networks (in Electrical Power Grid)
- Integration of renewable energy sources into the Smart Grids
- Software modeling of the use of solar energy and wind energy
- Smart systems for measurement and monitoring in Smart Grids
- IoT infrastructure in Smart Grids

6. Luarasi University (LRS)

➢ New Courses Introduced

1. **Introduction to the Theory of Databases**:
   - Focus on database technologies in energy systems
   - Key Learnings: Data analytics in energy efficiency, smart grids, and case studies

2. **Security on Risks in Information Systems**:
    - Focus on cybersecurity challenges in the energy sector
    - Key Learnings: Protecting cloud-based energy data, integrating cybersecurity in cloud environments
3. **Introduction to Project Management**:
    - Tailored to energy sector project management
    - Key Learnings: Project lifecycle, stakeholder management, analysis of failed energy projects
4. **Smart Grid Technology**:
    - Comprehensive understanding of smart grid components and applications
    - Key Learnings: Architecture of smart grids, impact of renewable energy, cybersecurity measures

7. Universiteti Metropolitan Tirana (UMT)

- UMT proposed a new 2-year study program based on emerging topics. A draft outline, detailing courses for each semester, includes:
    - Renewable energy management
    - Efficiency, financial, and economic aspects of energy production
    - Policy, legislation, climate change mitigation, and more.
- Competencies are aligned with energy management, digital skills, climate change, and economic considerations.

8. Fakultet Primijenjene Nauke Podgorica (FPRN)

- Existing Program: Electrical Engineering and Computer Science (revised from a 4-year to a 3-year program)
- Curriculum Updates:
    - Introduce IoT protocols, communication security, and data cloud communication
    - Introduce Robotics in Energy Infrastructure
    - Introduce AR/VR technologies in Energy Systems
    - Introduce Smart Grid Technologies and Applications
    - Introduce Sustainable Energy Solutions
    - Update AI and machine learning courses with a focus on energy data analysis

- Integrate simulation software (e.g., MATLAB) for robotics and energy monitoring solutions
- Expand project management coursework to include technological innovations in energy sector projects

Final Remarks and Conclusions

- Summarized that institutions share aligned competencies in smart grids, digital energy management, and energy transition.
- Noted the shared emphasis on digitalization in energy programs, preparing students for modern challenges in the renewable energy sector.
- Concluded that these updates signify a commitment to up-to-date, tech-driven energy education across institutions.
- Despite institutional differences in structure and course nomenclature, all are converging on energy transition, decarbonization, and digitalization in the energy sector, aiming to keep both programs and students up-to-date with technological and policy advancements.

THIRD DAY (11.10.2024)

After the participants registered on the daily attendance form, the third day of the meeting commenced with a presentation on the digital strategy for disseminating good practice examples, delivered by Dr. Slavimir Stosovic from AATPS:

- **Introduction**
  - Topic: Digital strategy for disseminating study programs.
  - Goal: Inspire future promotions and thank the audience for schedule adjustments.
- **Importance of Digital Tools**
  - Essential in education; analogized with the chicken and goose story.
  - Focus on effective promotional strategies.
- **Identifying Target Audience**
  - Key groups:
    - **Professionals**: Engineers and industry experts to share experiences.
    - **Parents**: Influence children's study choices.
    - **Prospective Students**: Direct target for programs.
- **Understanding Audience Needs**
  - Tailor marketing strategies to engage young people.

- Use appropriate channels for outreach.
- Goals of digital strategy:
  - Increase awareness of study programs.
  - Enhance engagement with prospective students.
  - Improve information consistency across digital platforms.

- **Website Optimization**
  - Essential for user experience and accessibility.
  - Use varied social media platforms based on target groups:
    - Facebook/Instagram for parents.
    - TikTok for younger audiences.
  - Include email marketing, webinars, and open days as digital materials.
- **Challenges Faced**
  - Rebranding due to consolidation of colleges; confusion about the institution's focus.
  - Emphasize engineering programs despite the misleading name.
- **Promotional Strategies**
  - Use notable figures and local success stories to engage the audience.
  - Highlight Serbia's beauty and history to create a connection.
  - Develop templates for promotional materials to maintain consistency.
- **Visual Differentiation**
  - Use distinct colors for different branches to avoid confusion.
  - Create a cohesive visual identity across marketing materials.
- **Search Engine Optimization (SEO)**
  - Improve visibility through SEO practices.
  - Encourage faculty to update individual subject pages regularly to keep content fresh.
- **Digital Signage Solutions**
  - Implement smart screens for announcements and information sharing.
  - Promote student-led projects related to digital signage.
- **Social Media Strategy**
  - Optimize social media use to increase engagement.
  - Ensure consistent branding across platforms for better reach.
- **Measurement of Impact**

- Continuously evaluate the effectiveness of digital strategies.
- Use metrics such as website traffic and social media engagement for assessment.

- **Final Recommendations**
  - Encourage experimentation and adaptation of tactics based on performance data.
  - Conclude with a video showcasing student projects to promote the institution.
  - Request a group photo before the break.

After the coffee break, the meeting continued with a presentation on the regional overview of professional internship programs, presented by the Western Balkan partners:

1. **UES (Bosnia and Hercegovina)**

- **Overview of Professional Internship Programs**
  - Academic credit for internships is part of undergraduate study programs.
  - Type of Internship:
    - Practical, summer internship mandatory for all three study programs:
      - Electric Power Engineering
      - Automation and Electronics
      - Computer Science and Informatics
  - Timing and Duration:
    - Takes place after the 6th semester and before the 7th semester.
    - Duration: 60 working hours.
  - Workload:
    - Total: 90 hours (60 hours for the internship + 30 hours for report preparation).
    - Awarded 3 ECTS credits.
- **Associated Companies and Institutions**
  - Students can select from a list of companies or propose new ones.
  - New companies evaluated for cooperation compatibility.
  - Internship involves collaboration between student, faculty, and hosting company.
  - Mentors from hosting companies guide students.
- **Internship Procedure**
  - Students select or propose companies.
  - Hosting company assigns a mentor for guidance.
  - Faculty reviews and approves internship activities.
  - Students write reports summarizing their experiences.

- **Study Visits**
  - Highly beneficial for arranging future internships.
  - Example: Visit to the Institute of Metrology of Bosnia and Herzegovina in 2022.
- **Group Internship Programs**
  - Encouraged for students and initiated by companies based on needs.
  - Example:
    - MTEL, a leading telecommunication company, offered group internships focusing on ICT topics.
    - ELMOS Group's internship program included visits to various renewable energy projects.

2. UPKM (Kosovo*)

- **Advantages of Internships**
  - Gain practical skills and experience.
  - Networking opportunities and professional development.
  - Benefits include:
    - Immersive learning experiences.
    - Contribution to regional economic growth.
    - Enhanced career opportunities.
- **Specific Internship Programs**
  - Overview of the Balkan Forum and German International Corporation internship programs.
  - Links to further information about these programs.

3. UMT (Albania)

- Presentation of the 5 companies currently offering internship opportunities
- Emphasis on the need to attract more companies to offer internship opportunities

After the lunch break, the meeting continued with a presentation on defining a framework for the development of professional internship programs, presented by Dr. Maria Koukou from NKUA:

- Overview of Internship Importance:
  - Discussion on the significance of internships in bridging academic knowledge and industrial experience.
  - Importance of leadership in electrical engineering curriculum highlighted.
- Key Objectives of Professional Leadership Programs:

  - Enhance skills of students.
  - Familiarize students with real-world problem-solving.
  - Promote networking to assist in career building.
  - Develop professional ethics and teamwork.
- Internship Duration:
  - Technical departments require internships lasting 3 to 6 months.
  - Undergraduate programs often have shorter durations, limiting real-world familiarity and results.
- Curriculum Alignment with Industry Needs:
  - Essential to align curriculum with current industry technologies and requirements.
  - Need for regular feedback from companies to keep curriculum relevant.
  - Integration of recent advancements and emerging technologies in courses.
- Functional Learning and Skill Development:
  - Importance of project-based assignments that mimic real-world engineering problems.
  - Development of both technical and soft skills (e.g., teamwork).
  - Collaboration with industry professionals for guest lectures enhances learning.
- Evaluation and Feedback Mechanisms:
  - Continuous evaluation through questionnaires and oral feedback.
  - Weekly or biweekly reports from students during internships.
  - Addressing divergences between student experiences and expectations.
- Integration of Internship Experiences:
  - Clear learning objectives should be established for courses and internships.
  - Emphasis on hands-on projects and theoretical tasks for balanced skill development.
- Program Development Involvement:
  - Key stakeholders include educational institutions, industry partners, students, and regulatory bodies.
  - Program development involves preparation, execution, and post-internship stages.
- Mentorship and Guidance:
  - Importance of selecting qualified mentors for structured guidance.
  - Regular feedback from mentors is crucial for student development.
- Assessment of Student Performance:

- Three-tiered evaluation system: student feedback, industry evaluation, and academic assessment.

The next presentation was on modern trends in the implementation of professional practice, delivered by Dr. Maria Koukou from NKUA:

- Importance of Staying Updated:
  - Modern trends in efficiency implementation are crucial for innovation and preparing students for future challenges.
- Key Focus Areas:
  - Skill development for understanding career opportunities.
  - Adaptation to evolving work environments and technological advancements.
- Key Trends in Leadership and Technology:
  1. **Emphasis on Strategic Planning**: Importance of planning in organizational success.
  2. **Artificial Intelligence & Machine Learning**: Essential for optimizing processes and predicting failures.
  3. **Internet of Things (IoT) & Smart Grids**: Vital for modern power systems and energy efficiency.
  4. **Power Electronics & Electric Devices**: Increasing demand for electric vehicles and related technologies.
  5. **Virtual & Remote Internships**: Accelerated acceptance of remote work due to COVID-19.
  6. **Industry-Academic Collaborations**: Partnerships with companies to enhance practical learning experiences.
  7. **Development of Soft Skills**: Prioritizing communication, teamwork, and leadership in student internships.
- Integration of Practical Experiences:
  - Engagement in renewable energy projects, such as solar technology internships (e.g., with Tesla).
  - Focus on electric vehicle technologies and battery storage systems.
- Technological Familiarity:
  - Students need to understand AI, machine learning, IoT, and smart grids to succeed in their future careers.
- Collaborative Efforts:
  - The university has signed MOUs with various organizations to enhance student exposure to real-world applications.
- Curriculum Certification:

- The importance of connecting academic programs with industry needs, focusing on soft skills development.

After the discussion and concluding remarks on the study visit in Psachna by Dr. Bojan Prlinčević (project coordinator), the study visit was concluded.

Study visit Summary/ Overview

Date: Octobar 9th, 10th and 11th, 2024

Location: Euripus Campus premises of the National and Kapodistrian University of Athens, Profiti Ilia 1, Psachna, Euboea.

Model: The meeting was organized In-person format.

Attendees:

In-Person: Representatives from AASKM, UPM, NKUA, VSB-TUO, UNIRI RITEH, AATPS, UPKM, FPRN, UMT, UES, SUM, LRS and USB.

Day 1 (09.10.2024)

Opening and Introductory Presentations:

- Prof. Christos Manasis (NKUA) and Dr. Bojan Prlinčević (AASKM) presented the objectives of the study visit and the project.
- Emphasis on data-driven approaches, network structures, and student skill development.

Presentation of NKUA:

- University history, organization, and international collaborations.
- Roles of the Digital Industry Technologies Department and Agricultural Development and Natural Resources Department.

Laboratory Visits:

- Electrical Systems Laboratory (smart grid, microgrids).
- Energy Efficiency Laboratory (solar and geothermal energy).

Equipment Procurement Status:

- Defined equipment lists, ongoing procurement processes.
- Budget constraints causing delays; proposals for equipment adjustments.

Competency Overview:

- UNIRI-RITEH presented a competency catalog for renewable energy.
- Plans for a new Hybrid Renewable Energy Trainer Laboratory with SCADA systems.

Day 2 (10.10.2024)

Project Governance Meetings (SC, PMC, QAC):

- Project Progress: Completed work packages (WP1, WP2, WP5, WP6, WP7).
- Equipment Procurement: Initiated processes, requiring better coordination.
- Dissemination and Promotion: Planned conference in Montenegro (February 2025).
- Next Steps: Establishing new laboratories and improving curricula.

Presentation of New and Improved Study Programs in the Region:

- AASKM (Kosovo and Metohija): New master's program in electrical engineering (smart grids, cybersecurity).

- UPKM (Kosovo):* Modernization of undergraduate studies (electrical machines, relay protection).
- UES (Bosnia and Herzegovina): New master's program (microgrids, electricity markets).
- SUM (Bosnia and Herzegovina): New courses (photovoltaic power plants, wind power integration).
- USB (Bosnia and Herzegovina): Focus on IoT and software modeling of renewable energy.
- LRS (Albania): New courses (information security, project management).
- UMT (Albania): Two-year program focusing on renewable energy management.
- FPRN (Montenegro): Introduction of AR/VR technologies in energy infrastructure.

Day 3 (11.10.2024)

Digital Strategy for Study Program Promotion:

- Lecture by Dr. Slavimir Stošović (AATPS).
- Key target groups: students, parents, engineers.
- Optimization of social media, SEO, digital billboards.

Overview of Professional Internship Programs in the Region:

- UES (Bosnia and Herzegovina): Internships are mandatory in the 6th semester, totaling 90 hours.
- UPKM (Kosovo):* Focus on practical skills and industry networking.
- UMT (Albania): Collaboration with five companies, aiming to expand partnerships.

Framework for Developing Professional Internships (NKUA):

- Key competencies: practical skills, teamwork, ethics.
- Integration of AI, IoT, smart grids, and digital transformation in internships.
- Student evaluation through mentorship and feedback from companies.

Conclusions and Next Steps

1. Continuation of Equipment Procurement for laboratories in partner institutions.
2. Implementation of New Courses focusing on smart grids and digitalization.
3. Development of Professional Internship Programs with stronger industry collaboration.
4. Project Dissemination through scientific conferences and promotional activities.
5. Upcoming Study Visits:
   - March 2025 – Ostrava (VSB-TUO).
   - May 2025 – Madrid (UPM).
6. Upcoming dissemination event:
   - February 19-21, 2025 – Žabljak, IT Conference, (FPRN)

- Appendixes:
  1. Agenda,
  2. Attendance lists,
  3. Presentation of the NKUA

4. Report on equipment procurement status – laboratory formation
5. Presentations of catalogue of competencies
6. Progres report
7. Presentations of of the content of new/innovated study programs in Western Balkans countries (WB):
   - AASKM
   - UPKM
   - UES
   - SUM
   - USB
   - LRS
   - UMT
   - FPRN
8. Preparation activities for accreditation and implementation of the study programs.
9. Digital strategy for dissemination of good practice examples
10. Regional overview of professional internship programs
    - UES (Bosnia and Hercegovina)
    - UPKM (Kosovo*)
    - UMT (Albania)
11. Defining a framework for development of professional internship programs
12. Presenting modern trends in the implementation of professional practice.
13. Evaluation report

REPORT DONE BY:

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[*Name and Surname****]***

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[*Name and Surname****]***