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PROJECT:

Students in Science and Practice for the 22nd Century (SS&P22)

CATEGORY: 2. Innovative teaching and learning

HORIZONTAL PRIORITY: Internationalization

KEY WORDS. Innovative Education, Artificial Intelligence, Interdisciplinary Collaboration, Digital Skills, Sustainability, International Mobility

PROJECT LEADER:

Prof. dr. sc. Dražen Čular



PRINCIPAL RESEARCHER/PROJECT LEADER



"Passion, perseverance, and hard work are the driving forces behind every meaningful achievement - in science, education, sport, and life."

Prof. dr. Dražen Čular, PhD

Meet The SS&P22 Team

Prof. Ana Kezić, PhD, Assoc. Prof. Marjana Čavala, PhD, Asst. Prof. Tea Gutović, PhD, Asst. Prof. Armin Paravić, PhD, Kristina Dole, PhD, Ivica Zelić, mag.cin





1. Challenge

- One of the main problems in kinesiology & sport is Insufficient integration of modern technologies (AI), interdisciplinary approaches, and real-world project experience in higher education institutions, particularly in kinesiology and sports sciences





2. Objective

- To implement innovative, interdisciplinary teaching methods integrating: AI, technology, and real-world research projects, fostering international collaboration, critical thinking, and sustainable innovation among students and stakeholders.





3. Methodology

- We develop a cooperation model with NGOs as Teaching Bases (TB), combining theoretical knowledge, practical experience, and modern tools to build future-ready competencies among students.





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4. Teaching basis (TB) Model

- Established cooperation model between NGOs (Teaching Bases) and university institutions, which forms the foundation of this year's application, was awarded (1st place) in the previous PROFFORMANCE Call 2021/22 : TBI&HER.





5. PROJECTS AS TOOLS

- provide the preconditions for the realization of the proposed program

¹**SAVE:** Erasmus sport + Project: Sport against violence & exclusion

³**TALENT:** Erasmus Sport + project: Cloud Based Education for Sport Talents

²**BKRD:** Croatian Science Foundation Project (IP-2020-02-3366): Biological, Cronological and relative age in function of estabishling national sport talent system

⁴**TWINSWINS:** Croatian Science Foundation Project (IP-2024-05-8340): The Interplay of Genetics, Biological Age, and Muscle Fiber Characteristics in Talent Development and Athletic Performance: "A Twin Study"





6. Roles of the partners involved

(HRZZ project example)

- **The R&E Institutions:** University of Split, Faculty of Kinesiology, University of Ljubljana, Faculty of Sport and Center of Excellence of Split-Dalmatia County provided researchers and scientific equipment
- **The TB:** European Institute for Talent, Education, Research and Development (CAF) provided the facilities for CRO SPORT TALENT LAB.
- **The NGO** provided the research sample and participation of experts (coaches) in the education process.
- **The Ministry of Tourism and Sport** provided the project promotion and support as HRZZ Project partner.





7. Methodology

The model is Integrated into:

- Systematic Kinesiology 1 course
- elective course “Project Preparation & application...”
- elective course “AI in Sports Science & Sport”

**Domestic & Erasmus students were given the opportunity for practical training with scientific equipment, AI tools, online learning platform, and real-time project participation.*





8. Visibility

- Several Deans/Rectors/Institutionals/ National & International Awards & Recognitions





9. The main outcomes & impact

- Strengthened research and educational capacity
- Increased student competencies in AI, diagnostics, research methodology
- Developed scalable, sustainable models of education
- Published scientific papers, improved course syllabi, upgraded infrastructure
- Fostered international cooperation (Erasmus+, HRZZ SLO-CRO)





10. Lessons Learned

Key Considerations:

1. Flexibility in Design
2. Partnership Alignment
3. Feedback Mechanisms
4. Integration of Technology
5. Student Inclusion

Mistakes to Avoid:

1. Overlooking Internationalization
2. Neglecting Training:
3. Insufficient Communication
4. Lack of Early Assessment

By addressing these considerations and learning from past mistakes, SS&P22 has evolved into a robust and scalable program, capable of meeting diverse educational and research goals.





11. Transferability

- Adaptability: The SS&P22 program's modular and interdisciplinary structure makes it highly adaptable for other institutions.
- The program can be integrated into various academic fields, such as health sciences or engineering, by adjusting course content and focusing on relevant technological tools.
- Partnerships with NGOs, local organizations, and private entities can be easily replicated based on local needs and resources.





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Thank you for supporting innovation in education, research, and international cooperation through the SS&P22 initiative

Partners

