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APPLICATION OF THE ADAPTIVE APPROACH TO THE UNIVERSITY TEACHING PROCESS

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Relevance and Challenges of Modern Education

- High level of uncertainty and economic digitalization.
- Labor market demands: professionals equipped with critical thinking, lifelong learning skills, and effective teamwork capabilities.
- The Challenge of Artificial Intelligence (AI): automation of routine tasks, coupled with the risk of decreased student motivation and the mechanical execution of assignments using ready-made AI solutions.
- The increased proportion of independent student work at the university level compared to secondary school demands new pedagogical mechanisms.

Research Objective and Theoretical Framework

Research Objective

To substantiate the feasibility of applying an adaptive approach (based on Agile principles) within the educational process and to determine its potential for developing foreign language communicative competence among non-linguistic major students.

Theoretical Context

- M. Prensky: characteristics of digital native users.
- J. Biggs, C. Tang: student-centered learning and educational trajectories.
- Ukrainian Scientists: experience of applying Agile in IT education.

Essence of the Adaptive Approach and Agile in Education

- **Adaptive Approach:** Flexible responsiveness of the educational environment to students' initial preparation levels and material absorption rates.
- **Implementation Tool — Agile Methodology:**
  - Designed for managing complex projects under conditions of uncertainty.
  - Focuses on human interaction, teamwork, readiness for rapid change, and continuous improvement.
- Transformation of the educator’s role: from a lecturer to a **facilitator and mentor**.

The Scrum Framework in Organizing the Educational Process

- **Course Decomposition:** Dividing discipline content into short cycles known as **sprints** (modules or thematic blocks).
- **Sprint Stages:**
  - Goal setting and activity planning.
  - Team execution of tasks.
  - Intermediate results review.
  - Reflection and feedback.
- Student autonomy in role and task distribution (fostering autonomy and leadership skills)

Potential of the Adaptive Approach for Non-Linguistic Specialties

- Application in **foreign language acquisition** for non-linguistic majors.
- Aligning learning with real-world professional activities:
  - Teamwork on international startup projects.
  - Creation of presentations on modern innovations.
  - Analysis of professional case studies and collaborative research projects in a foreign language.
- Regular Scrum meetings (short daily stand-ups) as oral communication training in real-life contexts.

Synergy of the Adaptive Approach and Artificial Intelligence

- ***Addressing academic integrity issues and AI misuse:***
  - Shifting the focus from the final product to **the process of its creation**.
- ***AI as an auxiliary tool rather than a replacement for critical thinking:***
  - Utilizing AI for brainstorming, information analysis, and simulating professional communication scenarios.
- ***Regular sprint presentations eliminate blind copying of AI-generated outputs.***

Conclusions and Prospects for Further Research

- **Conclusions:**
  - The Scrum-based adaptive approach serves as an effective instrument for modernizing higher education.
  - It fosters self-organization, critical thinking, teamwork, and digital literacy.
- **Prospects for Further Research:**
  - Development of adaptive methodologies for various academic disciplines.
  - Empirical validation of the approach's effectiveness in developing communicative competence.
  - Investigating the impact of Agile technologies on students' academic motivation.

Thank you for your attention!