

METHODOLOGY FOR PREPARING FUTURE MASTER'S DEGREE STUDENTS IN ADVANCED ENGINEERING SCHOOLS BASED ON INTERNATIONAL EXPERIENCE

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ABSTRACT

This article analyzes the best practices of leading international engineering schools and develops methodological approaches for adapting them to the training process of future master's students in higher education institutions of Uzbekistan. The study emphasizes practice-oriented, innovative, and competency-based teaching methods. Furthermore, the theoretical and practical significance of the CDIO (Conceive–Design–Implement–Operate) framework and project-based learning approaches is explored through in-depth analysis.

Keywords: Engineering education, master's training, international experience, methodology, digital competencies, project-based learning, CDIO, soft skills, simulation, assessment.