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ANDRAGOGICAL PRINCIPLES IN ADULT EDUCATION: A COMPARATIVE STUDY OF UZBEKISTAN AND INDONESIA

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Abstract: In the context of globalization, technological development and increasing professional demands, adult education and lifelong learning have become essential components of modern educational systems. Andragogy, as the theory and practice of adult learning, emphasizes learner autonomy, previous experience, practical application and self-directed learning. This article examines the development of adult education and the application of andragogical principles in Uzbekistan and Indonesia. It explores the theoretical foundations of adult learning, institutional and legislative frameworks, teacher professional development and community-based educational practices in the two countries. The study employs comparative analysis and document analysis to identify similarities, differences, challenges and opportunities for cooperation. The comparison indicates that Uzbekistan places considerable emphasis on professional retraining, teacher development and the institutionalization of adult education, whereas Indonesia demonstrates significant experience in community-based and non-formal education. The article argues that integrating learner-centred approaches, experiential learning, digital technologies and workplace-oriented training can improve the effectiveness of adult education in both countries.

Keywords: andragogy, adult education, adult learning, lifelong learning, professional development, teacher training, Uzbekistan, Indonesia, non-formal education, comparative education.

Аннотация: В условиях глобализации, технологического развития и возрастающих требований к профессиональной деятельности образование взрослых и обучение на протяжении всей жизни стали важнейшими компонентами современных образовательных систем. Андрагогика как теория и практика обучения взрослых акцентирует внимание на самостоятельности обучающихся, использовании их предыдущего опыта, практической направленности и самоорганизованном обучении. В данной статье рассматриваются развитие образования взрослых и применение андрагогических принципов в Узбекистане и Индонезии. Анализируются теоретические основы обучения взрослых, институциональные и законодательные механизмы, профессиональное развитие педагогов и практика общественно-ориентированного образования в обеих странах. В исследовании используются методы сравнительного анализа и анализа документов для выявления сходств, различий, проблем и возможностей сотрудничества. Результаты сравнения показывают, что Узбекистан уделяет значительное внимание профессиональной переподготовке, развитию педагогических кадров и институционализации образования взрослых, тогда как Индонезия обладает значительным опытом в области общественно-ориентированного и неформального образования. В статье обосновывается, что интеграция личностно-ориентированных подходов, обучения на основе практического опыта, цифровых технологий и профессионально ориентированной подготовки может повысить эффективность образования взрослых в обеих странах.

Ключевые слова: андрагогика, образование взрослых, обучение взрослых, непрерывное образование, профессиональное развитие, подготовка педагогических кадров, Узбекистан, Индонезия, неформальное образование, сравнительное образование.

Introduction

Education is no longer limited to childhood, adolescence or the years spent at formal educational institutions. Rapid technological changes, globalization and transformations in the labour market require individuals to continuously update their knowledge and professional competencies. Consequently, lifelong learning has become an important principle of contemporary education, emphasizing the necessity of continuous personal, social and professional development. Within this context, andragogy has gained increasing importance as an approach to organizing adult education. Unlike traditional teacher-centred instruction, andragogy recognizes adults as experienced and relatively independent learners who possess particular educational needs, professional objectives and personal motivations. Adult learners generally prefer educational activities that are directly connected with their professional responsibilities and everyday challenges. The use of the information and communication technologies in teaching English serves to improve the quality of education, to develop students' and adults creativity, and to learn the English language perfectly: programmed education, interactive dialogue, computer visualization of educational information, computer modeling, and the use of educational programs. One of the technologies used in higher education institutions and ready to give effective results is Microsoft Cloud cloud technologies[1].

Malcolm Knowles[2], one of the most influential scholars in adult education, developed the modern understanding of andragogy and identified six assumptions about adult learners: the need to know, self-concept, previous experience, readiness to learn, orientation towards learning and motivation. These assumptions provide a theoretical foundation for designing educational programmes that respond to adults' individual and professional needs. The development of adult education is particularly relevant to Uzbekistan and Indonesia. Both countries recognize the importance of lifelong learning and professional development; however, their institutional approaches and educational experiences demonstrate certain differences. Uzbekistan has been developing professional retraining, teacher qualification improvement and adult educator training, while Indonesia has established a broad framework for non-formal education and community-based learning. The purpose of this article is to examine the theoretical and practical foundations of andragogy in Uzbekistan and Indonesia, compare their adult education practices and identify opportunities for improving lifelong learning and teachers' professional development.

Theoretical foundations of Andragogy and Adult Learning

Andragogy is commonly defined as the art and science of helping adults learn. Its central idea is that adult learners should not be treated simply as passive recipients of information. Instead, they should participate actively in planning, implementing and evaluating their learning experiences.

[1] Davronova , F. (2022). PEDAGOGICAL ASPECTS OF DIGITAL TECHNOLOGIES IN RAPID ACQUISITION OF ENGLISH. Innovative Development in Educational Activities, 1(2), 44–47. Retrieved from https://openidea.uz/index.php/idea/article/view/86

[2] Knowles, M. S., Holton, E. F., III, & Swanson, R. A. (2015). The Adult Learner: The Definitive Classic in Adult Education and Human Resource Development (8th ed.). Routledge.

According to Knowles, adult learners possess several characteristic features. First, they need to understand the purpose and relevance of the learning process. Second, they increasingly develop the capacity for self-direction and prefer to participate in decisions concerning their education. Third, their accumulated professional and personal experiences represent valuable learning resources. Fourth, adults are generally ready to acquire knowledge and skills that respond to their immediate responsibilities. Fifth, they prefer problem-centred learning rather than the passive memorization of theoretical information. Finally, internal motivation, including professional satisfaction and personal achievement, plays an important role in their learning.

Other educational theories complement the andragogical perspective. David Kolb's[3] experiential learning theory emphasizes learning through concrete experience, reflection, conceptualization and experimentation. This approach is particularly relevant to professional education because adults can connect theoretical knowledge with practical activities. Similarly, Jack Mezirow's[4] transformative learning theory highlights the importance of critical reflection and changes in individuals' perspectives. Through reflection and discussion, adult learners can reconsider established beliefs and improve their professional practices. These theoretical perspectives suggest that effective adult education should combine theoretical knowledge, practical experience, reflection, collaboration and independent learning. They also provide a framework for analysing adult education systems in Uzbekistan and Indonesia.

Adult education and Andragogy in Uzbekistan. Uzbekistan has been gradually developing its adult learning and education system through professional retraining, vocational education, lifelong learning initiatives and continuing professional development. Teacher education represents one of the important areas in which andragogical principles can be implemented. An important contribution to the institutional development of adult education has been made by DVV International, which has supported the development of adult education programmes and the professional preparation of adult educators in Uzbekistan. One significant initiative is the adaptation of Curriculum globALE, an international competency-based curriculum designed to improve the professional competencies of adult educators.

The 2025 National Review entitled *Adult Learning and Education in Uzbekistan: Current Situation and Development Perspectives*, prepared with the participation of DVV International, the National Commission of Uzbekistan for UNESCO and the National Quality Assurance Agency for Education, provides an important overview of the country's adult education system. It examines institutional development, existing educational opportunities and challenges requiring further attention. Teacher professional development is particularly relevant to the application of andragogical principles in Uzbekistan. Teachers attending qualification-improvement courses are adult learners with established professional experience, individual educational needs and specific expectations. Therefore, professional development programmes should move beyond the traditional transmission of theoretical information and create opportunities for active participation, reflection and practical application.

Several methods can support this transition. Needs analysis can identify teachers' professional requirements before training begins. Microteaching enables participants to practise new teaching techniques and receive feedback. Case studies and problem-based learning encourage teachers to

[3] Kolb, D. A. (1984). Experiential Learning: Experience as the Source of Learning and Development. Prentice-Hall.
[4] Mezirow, J. (1991). Transformative Dimensions of Adult Learning. Jossey-Bass

analyse real classroom situations. Collaborative lesson planning and peer observation facilitate professional exchange, while reflective portfolios support self-assessment and continuous development. Digital technologies and blended learning also create opportunities for more flexible adult education. Learning Management Systems, online resources, interactive activities and independent assignments can complement face-to-face training. Such arrangements are especially useful for working teachers who need to combine professional development with their employment and personal responsibilities. Nevertheless, the further development of adult education in Uzbekistan requires continued attention to the preparation of qualified adult educators, the development of methodological resources, the recognition of previous learning and the systematic evaluation of training outcomes. Greater integration of andragogical principles into professional development programmes could contribute to more sustainable improvements in educational quality.

Adult education and Andragogy in Indonesia. Indonesia provides another valuable example of adult education development, particularly through non-formal education and community-based learning. Its educational system recognizes formal, non-formal and informal education as important components of lifelong learning. An important legislative foundation is Law No. 20 of 2003 on the National Education System[5]. Article 26 specifically addresses non-formal education and establishes its role in complementing, supplementing or replacing formal education according to the needs of individuals and communities. The article also identifies literacy education, life-skills programmes, vocational training, equivalency education and other activities aimed at developing individual competencies.

One of the distinctive features of the Indonesian system is the development of Pusat Kegiatan Belajar Masyarakat (PKBM), or Community Learning Centres. These centres provide educational opportunities for individuals who require flexible learning arrangements or who have limited access to conventional educational institutions. Their activities may include literacy programmes, vocational skills development, entrepreneurship education, digital literacy and equivalency programmes. Such educational provision is particularly relevant to andragogy because learning can be organized according to community needs, learners' previous experiences and practical objectives. Community-based education also creates opportunities for collaboration between learners, educators and local organizations. Adults can acquire practical competencies while addressing problems related to employment, economic development and everyday life. Teacher professional development in Indonesia is another area for comparative investigation. In-service training, collaborative professional learning, digital education and classroom-based reflection can support teachers' continuous professional development. These practices are consistent with andragogical principles when they encourage active participation, experience-sharing and the application of newly acquired knowledge. Despite these opportunities, the Indonesian adult education system faces challenges related to unequal access, geographical differences, digital inequality and the need to maintain consistent educational quality. Strengthening adult educator competencies and improving the evaluation of learning outcomes remain important priorities.

Comparative analysis of Uzbekistan and Indonesia. The comparison of Uzbekistan and Indonesia demonstrates both common characteristics and differences in their approaches to adult

[5] Republic of Indonesia. (2003). Law No. 20 of 2003 concerning the National Education System. Government of the Republic of Indonesia

education. First, both countries recognize lifelong learning as an important factor in human development and professional improvement. They provide educational opportunities beyond conventional formal education and recognize the importance of vocational and practical competencies. However, their institutional priorities differ. In Uzbekistan, adult education is closely connected with professional retraining, teacher qualification improvement and the development of adult educator competencies. Initiatives such as Curriculum globALE demonstrate efforts to establish a more systematic methodological foundation for adult education. In Indonesia, non-formal education and community-based learning represent important components of the adult education system. Community Learning Centres provide flexible opportunities for literacy, vocational training and personal development. A further difference concerns the organization of learning. Uzbekistan's professional development programmes provide opportunities for structured training, including blended and online learning. Indonesia's community-based approach demonstrates how educational activities can be adapted to local circumstances and the needs of different population groups. Nevertheless, the two countries share several important andragogical principles: practical relevance, recognition of learners' experience, professional development, independent learning and the application of knowledge. Their experiences can therefore provide opportunities for mutual learning. Uzbekistan could benefit from examining Indonesia's community-based and flexible educational practices. Indonesia, in turn, could explore Uzbekistan's experience in the systematic preparation of adult educators and the integration of andragogical approaches into professional development programmes.

Discussion and Recommendations

The comparative analysis suggests that the effectiveness of adult education depends not only on the availability of educational programmes but also on how learning is organized and connected with learners' actual needs.

For both countries, several recommendations can be proposed.

1. Adult education programmes should begin with systematic needs analysis. Identifying learners' professional backgrounds, previous experiences and expectations can help educators design relevant learning activities.

2.Training programmes should integrate experiential and problem-based learning. Practical projects, case studies, collaborative tasks and workplace-related assignments enable adults to connect theory with professional practice.

3.Adult educators should receive specialized methodological preparation. Understanding adult motivation, self-directed learning, reflection and assessment is essential for effective teaching.

4.Blended learning should be developed through the effective integration of online resources and face-to-face activities. Digital platforms can increase flexibility, but technological accessibility and participants' digital competencies must also be considered.

Finally, educational institutions should evaluate not only course completion and acquired knowledge but also the transfer of learning into professional practice. For teachers, this may include classroom observation, reflective portfolios, peer feedback and evidence of improved teaching strategies.

Conclusion

Andragogy represents an important theoretical and practical foundation for developing adult education and lifelong learning. Its emphasis on learner autonomy, professional experience, practical relevance and internal motivation makes it particularly appropriate for continuing professional development. The experiences of Uzbekistan and Indonesia demonstrate different but complementary approaches to adult education. Uzbekistan has been strengthening professional retraining, teacher development and the institutional preparation of adult educators. Indonesia offers valuable experience in non-formal education and community-based learning through its Community Learning Centres. Despite differences in their educational structures, both countries share the objective of expanding learning opportunities and improving individual competencies throughout life. Their experiences indicate that effective adult education requires flexible programmes, qualified educators, practical learning activities and appropriate assessment mechanisms.

In conclusion, integrating andragogical principles more systematically into teacher professional development and community-based education can strengthen lifelong learning in both countries. Further comparative research and international cooperation could contribute to the development of inclusive, flexible and sustainable adult education systems.

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