



International Conference of Economics, Finance and Accounting Studies

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Human Resource Management in the Context of Digital Transformation

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ABSTRACT

This paper examines human resource management (HRM) practices under conditions of digital transformation, using Joint-Stock Commercial Banks as a case study. The primary research objective is to analyze how digital technologies reshape corporate HR practices and influence employee performance, competencies, and organizational efficiency in the banking sector of a developing economy. The study adopts a mixed-methods research design. Quantitative data were collected through a structured survey administered to 180 employees, while qualitative insights were obtained from semi-structured interviews with HR managers and department heads. Practical implications are offered for HR practitioners and policymakers seeking to align HR strategies with broader digital transformation agendas. However, the study is limited by its single-case design and cross-sectional nature, which constrain the generalizability of the findings. Future research should employ longitudinal and comparative approaches to further explore digital HRM dynamics across multiple financial institutions.

Keywords: Digital transformation, human resource management, Employee performance, emerging economies

Introduction

Digital transformation has become a defining characteristic of organizational development in the twenty-first century, fundamentally altering business models, operational processes, and management practices. Advances in information and communication technologies, including artificial intelligence, big data analytics, cloud computing, and automation, have significantly reshaped the competitive landscape across industries [1]. Among these, the banking and financial services sector stands out as one of the most rapidly digitalizing fields, driven by increasing customer expectations, regulatory pressures, and technological innovation [2].

In Uzbekistan, the banking sector has undergone substantial reforms in recent years, with commercial banks increasingly investing in digital infrastructure and innovation. Banks have actively implemented digital solutions across its operations, including human resource management. This transformation provides a valuable empirical context for examining how digital HR practices are adopted and operationalized within a transitioning economy [3].

Quantitative data were collected via a structured questionnaire distributed to employees across different departments and hierarchical levels of the bank. A total of 180 valid responses were obtained. The questionnaire was developed using a five-point Likert scale and measured variables such as the level of digital HR system usage, digital competencies, employee performance, and job satisfaction. Descriptive statistics and correlation analysis were conducted using SPSS software to identify patterns and relationships among variables.

Qualitative data were gathered through twelve semi-structured interviews with HR managers and department heads. The interviews focused on strategic aspects of digital transformation, changes in HR policies, implementation challenges, and perceived outcomes of digital HR initiatives. All interviews were transcribed and analyzed using thematic content analysis to identify recurring themes and insights.

Table 1 illustrates the main types of digital HR practices implemented at Hamkorkbank JSC and their respective implementation levels as perceived by employees.

Table 1. Digital HR Practices and Level of Implementation

Digital HR Practice	Mean Value	Standard Deviation
Electronic recruitment	4.2	0.6
E-learning platforms	4.0	0.7
Digital performance appraisal	3.8	0.8

Correlation analysis revealed a positive and statistically significant relationship between digital HR usage and employee performance ($r = 0.46$, $p < 0.01$). The findings indicate that electronic recruitment and e-learning systems are the most extensively adopted digital HR practices within the bank.

The results confirm that digital transformation has substantially influenced HRM practices at banks. The widespread adoption of electronic recruitment and e-learning platforms highlights the strategic importance of digital tools in enhancing HR efficiency and workforce capabilities. These findings align with existing research suggesting that digital HRM supports organizational agility and performance improvement [4].

Moreover, the positive relationship between digital HR usage and employee performance underscores the role of technology in facilitating skill development, transparency, and engagement. However, qualitative findings also reveal challenges related to digital adaptation, particularly among employees with lower levels of technological readiness. This underscores the importance of change management and continuous training initiatives as integral components of digital HR strategies [5].

Conclusion

This study examined human resource management practices in the context of digital transformation using banks as a case study. The findings demonstrate that the implementation of digital HR tools has significantly enhanced the effectiveness of HR processes and positively influenced employee performance and engagement. While the study provides valuable insights, its limitations include the focus on a single organization and the use of cross-sectional data. Future research should expand the scope to include multiple banks and adopt longitudinal designs to capture the long-term effects of digital HR transformation. Overall, the study offers both theoretical and practical contributions to the understanding of digital HRM in emerging economies.

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