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HUMAN RESOURCE MANAGEMENT AS A DRIVER OF WORK EFFICIENCY IN HIGHER EDUCATION INSTITUTIONS

Sultonboyeva Munira Bahodirovna

Doctor of Science (DSc), Associate Professor,
Turin Polytechnic University in Tashkent
E-mail: munira.sultonboeva@polito.uz

Sultanova Kamila Muktorali kizi

Master of Science, Senior Teacher,
Turin Polytechnic University in Tashkent
E-mail: kamila.sultanova@polito.uz
ORCID: 0009-0009-3238-943X

Abstract. Human resource management (HRM) has become a strategic factor in improving organizational performance, particularly in higher education institutions, where academic staff play a central role in achieving educational and research objectives. This literature review examines the role of human resource management as a key driver of work efficiency among academic staff in higher education institutions. The study synthesizes findings from previous scholarly research to identify the HRM practices that most significantly influence work efficiency, including recruitment and selection, professional development and training, performance management, leadership support, compensation and rewards, career development, workload management, work-life balance, and institutional support.

The review also discusses the theoretical foundations underpinning the relationship between HRM and work efficiency, including Human Capital Theory, the Ability–Motivation–Opportunity (AMO) Theory, Social Exchange Theory, and Strategic Human Resource Management Theory. The findings indicate that integrated and strategically implemented HRM practices contribute to enhanced employee competence, motivation, engagement, and productivity, ultimately improving teaching quality, research performance, and overall institutional effectiveness. The paper concludes that higher education institutions should adopt comprehensive and strategically aligned HRM practices to strengthen academic staff performance and support sustainable organizational development.

Keywords: Human Resource Management; Work Efficiency; Higher Education Institutions; Academic Staff; Employee Performance; Professional Development; Performance Management; Leadership; Work–Life Balance; Organizational Effectiveness.

Аннотация. Управление человеческими ресурсами (УЧР) стало одним из ключевых стратегических факторов повышения эффективности деятельности организаций, особенно в учреждениях высшего образования, где профессорско-преподавательский состав играет решающую роль в достижении образовательных и научных целей. Настоящий обзор посвящён анализу роли управления человеческими ресурсами как одного из основных факторов повышения эффективности труда академических работников высших учебных заведений.

В исследовании обобщены результаты современных научных публикаций, посвящённых влиянию различных практик УЧР, включая подбор и отбор персонала, профессиональное развитие и обучение, управление эффективностью деятельности, поддержку руководства, систему вознаграждения, карьерное развитие, управление рабочей нагрузкой, обеспечение баланса между работой и личной жизнью, а также институциональную поддержку.

Кроме того, рассмотрены основные теоретические подходы, объясняющие взаимосвязь между управлением человеческими ресурсами и эффективностью труда, включая теорию человеческого капитала, теорию «Способности–Мотивация–Возможности» (Ability–Motivation–Opportunity, AMO), теорию социального обмена и теорию стратегического управления человеческими ресурсами.

Результаты анализа литературы показывают, что комплексное и стратегически ориентированное применение современных HR-практик способствует повышению компетентности, мотивации, вовлечённости и производительности академических работников, что, в свою очередь, положительно влияет на качество образовательного процесса, результативность научной деятельности и общую эффективность высших учебных заведений.

Сделан вывод о целесообразности внедрения комплексной системы стратегического управления человеческими ресурсами, направленной на повышение эффективности деятельности профессорско-преподавательского состава и обеспечение устойчивого развития учреждений высшего образования.

Ключевые слова: управление человеческими ресурсами; эффективность труда; учреждения высшего образования; профессорско-преподавательский состав; производительность труда; профессиональное развитие; управление эффективностью; лидерство; баланс между работой и личной жизнью; организационная эффективность.

INTRODUCTION

Higher education institutions (HEIs) play a fundamental role in developing human capital, advancing scientific knowledge, and contributing to economic and social development. Universities are increasingly expected to produce highly skilled graduates, conduct innovative research, and deliver high-quality services to society. Achieving these objectives depends largely on the performance and work efficiency of academic staff. As the primary human resource of universities, lecturers, professors, and researchers make significant contributions to institutional success through excellence in teaching, research, administrative responsibilities, and community engagement. Therefore, improving the work efficiency of academic staff has become one of the foremost priorities of university management.

Over the past two decades, the higher education sector has undergone substantial transformation driven by globalization, digitalization, increasing competition, international university rankings, and evolving stakeholder expectations. Universities are now expected to continuously enhance educational quality while maintaining high levels of research productivity and operational efficiency in an increasingly dynamic environment. These developments have reinforced the importance of effective Human Resource Management (HRM) as a strategic instrument for enhancing employee performance and achieving institutional objectives.

Human Resource Management has evolved from a traditional administrative function into a strategic management approach focused on attracting, developing, motivating, and retaining talented employees. Strategic HRM emphasizes aligning human resource practices with institutional goals to improve both individual and organizational performance. Within higher education institutions, HRM encompasses a broad range of practices, including recruitment and selection, professional development and training, performance evaluation, leadership support, compensation and reward systems, career development opportunities, workload management, work-life balance initiatives, and the creation of a supportive institutional environment. Collectively, these practices enhance employees' knowledge, skills, motivation, engagement, and organizational commitment, which ultimately determine their work efficiency.

Work efficiency in higher education extends beyond the completion of assigned tasks. It reflects the ability of academic staff to utilize available resources effectively while achieving high-quality outcomes in teaching, research, administrative responsibilities, and community service. Academics with high work efficiency demonstrate excellence in classroom instruction, produce high-quality research, supervise students effectively, actively participate in institutional governance, and contribute to the sustainable development of their universities. Consequently, improving work efficiency benefits not only individual employees but also strengthens institutional competitiveness, student satisfaction, research excellence, and overall organizational performance.

Previous studies have consistently reported a positive relationship between strategic HRM practices and employee performance across various sectors. The Ability-Motivation-Opportunity (AMO) Theory suggests that employees achieve higher levels of performance when organizations provide opportunities to develop their capabilities, maintain strong motivation, and participate in organizational decision-making. Likewise, Human Capital Theory argues that investments in employees' knowledge, education, and skills enhance productivity and strengthen organizational competitiveness. Within higher education institutions, investments in faculty development, research support, leadership quality, and employee well-being contribute directly to improved work efficiency and institutional effectiveness.

Despite the growing recognition of the strategic importance of HRM, many universities continue to encounter challenges associated with increasing teaching responsibilities, limited professional development opportunities,

evolving reward systems, constrained career advancement opportunities, and expanding administrative duties. These factors may influence employee motivation, occupational well-being, teaching quality, and research productivity. Accordingly, understanding how different HRM practices contribute to improving work efficiency has become increasingly important for university leaders and policymakers seeking to promote sustainable institutional development and academic excellence.

The purpose of this literature review is to examine the relationship between Human Resource Management and work efficiency in higher education institutions by synthesizing findings from previous scholarly studies. Specifically, the review explores the major HRM practices that influence academic staff work efficiency and discusses the principal theoretical perspectives explaining these relationships. Furthermore, it identifies common trends and research gaps in the existing literature and proposes a conceptual framework illustrating how integrated HRM practices contribute to improving work efficiency and overall institutional performance. The findings are expected to provide valuable insights for university leaders, HR professionals, policymakers, and researchers seeking to develop evidence-based strategies for enhancing academic staff performance and supporting the long-term sustainability of higher education institutions.

LITERATURE REVIEW

Human Resource Management (HRM) has evolved from a traditional administrative function into a strategic discipline that directly contributes to organizational effectiveness, innovation, and long-term sustainability. In knowledge-based organizations, particularly higher education institutions (HEIs), human resources are recognized as the most valuable strategic asset because they generate, disseminate, and apply knowledge through teaching, research, and community engagement. Unlike physical or financial resources, human capital possesses the capacity to create continuous value through innovation, creativity, collaboration, and intellectual development (Becker, 1964). Consequently, universities increasingly regard HRM as a fundamental mechanism for strengthening institutional competitiveness and enhancing organizational performance.

According to Armstrong (2020), HRM is a strategic, integrated, and coherent approach to managing an organization's most valuable asset—its people—whose collective and individual contributions determine institutional success. Similarly, Boxall and Purcell (2016) argue that Strategic Human Resource Management (SHRM) focuses on aligning HRM practices with organizational objectives, ensuring that employee competencies, motivation, and commitment effectively support long-term institutional goals. Within higher education, this strategic perspective has become increasingly important as universities respond to globalization, digitalization, international competition, and rapidly evolving labor market demands.

The higher education sector differs substantially from other industries because universities simultaneously pursue educational, research, and societal missions. Academic staff are responsible not only for delivering high-quality teaching but also for conducting scientific research, publishing scholarly work, supervising undergraduate and postgraduate students, securing research funding, participating in university governance, establishing international collaborations, and contributing to community development. These diverse responsibilities require universities to implement comprehensive HRM systems capable of supporting multiple dimensions of academic performance. As Bryson (2018) notes, the effectiveness of universities increasingly depends on their ability to recruit, develop, motivate, and retain highly qualified academic personnel capable of fulfilling these complex responsibilities.

Globalization has profoundly transformed higher education over the past two decades. Universities now compete internationally to attract talented faculty members, outstanding students, research funding, and global recognition. International university ranking systems, such as the QS World University Rankings and the Times Higher Education World University Rankings, increasingly assess institutional performance based on teaching quality, research productivity, internationalization, citation impact, and academic reputation. Consequently, university administrators increasingly recognize that strategic investment in academic staff development is essential for sustaining institutional competitiveness (Altbach & Salmi, 2011).

Digital transformation has further reinforced the strategic importance of HRM within universities. The rapid adoption of online learning platforms, artificial intelligence, digital assessment systems, and virtual collaboration tools requires academic staff to continuously enhance their professional knowledge and competencies. According to UNESCO (2021), universities that successfully adapted to digital education during and after the COVID-19 pandemic were characterized by robust HRM practices emphasizing continuous professional development, digital competency training, leadership support, and organizational flexibility. Faculty members who received institutional support demonstrated greater adaptability, improved teaching effectiveness, and stronger student engagement throughout the digital transformation process.

One of the principal objectives of HRM in higher education institutions is attracting and retaining talented academic staff. Recruitment and selection determine the quality of human capital entering universities and,

therefore, directly influence long-term institutional performance. Dessler (2020) argues that recruitment should extend beyond evaluating academic qualifications and research achievements by also considering teaching competence, communication skills, leadership potential, adaptability, and alignment with institutional values. Transparent, merit-based recruitment processes enhance institutional credibility while strengthening employee commitment and organizational trust.

Employee retention has become equally important because universities invest substantial financial and organizational resources in faculty development. High turnover among academic staff may disrupt educational continuity, research activities, mentoring relationships, and institutional development. According to Allen, Bryant, and Vardaman (2010), effective retention strategies include competitive compensation, career advancement opportunities, supportive leadership, continuous professional development, recognition systems, and a positive organizational culture. Universities that successfully retain experienced faculty members benefit from accumulated institutional knowledge, stronger research networks, and enhanced educational continuity.

Training and professional development constitute another essential component of Strategic HRM. Academic work requires continuous learning because scientific knowledge, educational technologies, research methodologies, and student expectations evolve rapidly. Noe (2020) defines training as a planned effort to facilitate employees' acquisition of the knowledge, skills, attitudes, and competencies required for effective job performance. Within universities, professional development includes faculty development programs, research methodology workshops, international conferences, academic exchange programs, pedagogical training, digital learning initiatives, leadership development, and interdisciplinary collaboration.

Numerous empirical studies demonstrate that professional development positively influences teaching effectiveness, research productivity, innovation, and employee confidence. International initiatives such as Erasmus+, Fulbright, Horizon Europe, and faculty exchange programs enable academics to develop new competencies while strengthening international collaboration and institutional visibility. OECD (2023) emphasizes that continuous professional learning significantly contributes to educational quality, research excellence, and institutional innovation.

Performance management has also emerged as a strategic HRM function within higher education. Traditional performance appraisal systems primarily emphasized retrospective evaluation, whereas contemporary performance management focuses on continuous improvement through regular feedback, coaching, mentoring, professional development planning, and strategic goal alignment (Aguinis, 2019). Effective performance management encourages academic staff to enhance teaching quality, increase research productivity, strengthen student supervision, and contribute more actively to institutional governance.

Most universities employ multidimensional performance evaluation systems that assess teaching effectiveness, research publications, citation impact, research funding, curriculum development, postgraduate supervision, community engagement, and administrative service. Transparent evaluation criteria promote perceptions of organizational fairness while motivating employees to achieve institutional objectives. DeNisi and Murphy (2017) argue that constructive feedback significantly enhances employee motivation, self-efficacy, and long-term performance when integrated with professional development initiatives.

Leadership is another critical determinant of HRM effectiveness in higher education institutions. Department heads, deans, research directors, and university executives influence employee attitudes, motivation, organizational culture, and institutional performance through their leadership behaviors. Transformational leadership has received particular attention because it inspires employees through a shared vision, intellectual stimulation, individualized consideration, and empowerment (Northouse, 2022). Academic staff working under transformational leaders generally report higher job satisfaction, stronger organizational commitment, greater innovation, and improved work efficiency.

Bass and Avolio (1994) demonstrate that transformational leadership enhances employee motivation by fostering creativity, collaboration, and continuous improvement. Within universities, supportive leadership facilitates interdisciplinary research, promotes academic autonomy, strengthens communication, and contributes to a positive working environment. Consequently, leadership development has become an integral component of Strategic HRM in higher education institutions worldwide.

Work efficiency has become one of the most important indicators of organizational performance in both the public and private sectors. Within higher education institutions, the concept has received increasing attention due to growing expectations regarding educational quality, research excellence, innovation, and international competitiveness. Universities are expected to maximize educational outcomes while utilizing financial, technological, and human resources efficiently. Consequently, improving the work efficiency of academic staff has become a strategic priority for university leaders and policymakers worldwide.

The concept of work efficiency has been interpreted differently across management and organizational studies. Traditionally, efficiency refers to the relationship between inputs and outputs, emphasizing the optimal

utilization of available resources to achieve organizational objectives (Drucker, 2007). However, in knowledge-intensive organizations such as universities, work efficiency extends beyond quantitative productivity to include qualitative dimensions such as teaching quality, research impact, innovation, collaboration, and societal contribution.

According to Robbins and Judge (2023), employee work efficiency reflects an individual's ability to perform assigned tasks effectively while minimizing the unnecessary use of organizational resources, including time, effort, and financial capital. This definition emphasizes that efficiency is determined not only by the quantity of work completed but also by its quality, accuracy, and long-term sustainability. Within universities, academic staff are expected to balance multiple responsibilities simultaneously, making work efficiency a multidimensional construct rather than a single-dimensional concept.

Unlike employees in manufacturing or service industries, academic staff perform several interconnected professional roles. They are responsible for delivering high-quality teaching, producing internationally recognized research, supervising undergraduate and postgraduate students, participating in university governance, securing research grants, developing academic curricula, establishing international partnerships, and contributing to community development (Altbach, Reisberg, & de Wit, 2017). Consequently, assessing work efficiency among academic staff requires a comprehensive evaluation of these multiple performance dimensions rather than focusing on a single activity.

Several scholars distinguish between work efficiency, productivity, and job performance, although these concepts are closely related. Productivity generally refers to the quantity of outputs generated within a specific period, whereas job performance reflects the successful fulfillment of assigned responsibilities according to organizational expectations (Campbell & Wiernik, 2015). Work efficiency integrates both concepts by considering the quality of outputs alongside the effective utilization of available resources. Therefore, an academic who produces numerous publications but demonstrates limited teaching effectiveness or inadequate student supervision cannot necessarily be regarded as highly efficient. Likewise, excellence in teaching without meaningful research engagement may not fully satisfy institutional expectations, particularly within research-intensive universities.

In higher education, work efficiency encompasses four principal dimensions: teaching effectiveness, research productivity, administrative contribution, and community engagement. Teaching effectiveness includes curriculum planning, instructional quality, student assessment, pedagogical innovation, mentoring, and student satisfaction. Research productivity involves scholarly publications, research funding, conference participation, postgraduate supervision, and scientific innovation. Administrative contribution includes participation in university committees, accreditation activities, curriculum development, and institutional governance. Community engagement involves knowledge transfer, consultancy, public outreach, collaboration with industry, and partnerships with governmental organizations. Collectively, these dimensions represent the broad range of responsibilities expected of contemporary academic staff.

Teaching effectiveness remains one of the most important indicators of academic work efficiency. According to Biggs and Tang (2011), effective teaching extends beyond knowledge transmission and incorporates active learning, student-centered instruction, constructive alignment, effective assessment, and continuous curriculum enhancement. Efficient academics successfully engage students, foster critical thinking, integrate digital technologies into learning, and achieve intended learning outcomes while continuously improving instructional quality.

Research productivity represents another essential dimension of academic work efficiency. It is commonly evaluated using publication quantity and quality, citation impact, research funding, international collaboration, patents, innovation, and postgraduate supervision (Moed, 2017). Global university rankings increasingly emphasize research indicators because scientific output contributes substantially to institutional reputation and international competitiveness. Consequently, universities continue to strengthen research support systems, laboratory infrastructure, international collaboration, and publication incentives to enhance faculty research performance.

Administrative responsibilities have also become increasingly important within universities. Academic staff actively participate in departmental committees, faculty boards, accreditation processes, quality assurance systems, curriculum development, strategic planning, and institutional governance. Although these responsibilities often receive less attention than teaching and research, they play a significant role in institutional development and organizational effectiveness.

Community engagement represents the fourth dimension of academic work efficiency. Modern universities increasingly emphasize their "third mission," which involves transferring knowledge to society through consultancy, professional training, public lectures, industry collaboration, entrepreneurship, policy support, and social innovation (OECD, 2023). Academics who actively engage with society strengthen institutional reputation while enhancing the practical relevance and societal impact of higher education.

Recent literature increasingly recognizes that work efficiency should not be assessed solely through objective performance indicators. Subjective factors—including employee engagement, organizational commitment, motivation, job satisfaction, psychological well-being, and organizational citizenship behavior—also play a significant role in sustaining long-term performance (Meyer & Allen, 1997; Saks, 2022). Academics with higher levels of engagement are generally more willing to participate in collaborative research, mentor students, adopt innovative teaching approaches, and contribute proactively to institutional development.

Technological transformation has significantly reshaped work efficiency in higher education. The integration of learning management systems, digital assessment platforms, artificial intelligence, virtual laboratories, and advanced research databases has fundamentally changed academic work. According to UNESCO (2021), digital competence has become a key determinant of faculty efficiency because academic staff increasingly rely on technology for teaching, research, communication, and institutional administration. Universities that provide continuous digital skills development and technological support generally achieve higher employee productivity and improved educational outcomes.

Another important topic highlighted in recent literature concerns occupational stress and workload management. Academic staff frequently experience substantial teaching responsibilities, research expectations, publication demands, administrative duties, and accountability requirements. Kinman and Wray (2020) report that excessive workload may contribute to burnout, emotional exhaustion, reduced motivation, lower research productivity, and diminished teaching quality. Consequently, work efficiency should be understood not merely as maximizing output but as sustaining high-quality performance while supporting employee well-being.

Several scholars have proposed comprehensive models for evaluating academic work efficiency. Campbell and Wiernik (2015) argue that employee performance comprises both task performance and contextual performance. Task performance includes activities directly contributing to organizational objectives, whereas contextual performance encompasses teamwork, organizational citizenship, adaptability, mentoring, and voluntary institutional contributions. Within higher education, both dimensions are essential because academic staff contribute through formal academic responsibilities as well as broader institutional engagement.

Overall, the literature demonstrates that work efficiency in higher education is a multidimensional construct integrating teaching excellence, research productivity, administrative effectiveness, community engagement, innovation, organizational citizenship behavior, and sustainable employee well-being. Universities seeking to strengthen institutional performance should therefore adopt comprehensive HRM strategies that simultaneously support these complementary dimensions of academic work. Rather than emphasizing short-term productivity alone, higher education institutions should promote continuous professional development, employee engagement, organizational support, and balanced workload management to achieve sustainable improvements in academic work efficiency.

Understanding the relationship between Human Resource Management (HRM) and work efficiency requires a solid theoretical foundation. Over the past several decades, numerous organizational and management theories have been developed to explain how HRM practices influence employees' attitudes, behaviors, competencies, and overall job performance. Within higher education institutions (HEIs), these theories are particularly relevant because academic staff represent the primary intellectual capital responsible for teaching, research, innovation, and institutional development. Among the most influential theories explaining the relationship between HRM and work efficiency are Human Capital Theory, the Resource-Based View (RBV), Strategic Human Resource Management (SHRM) Theory, the Ability–Motivation–Opportunity (AMO) Theory, Social Exchange Theory (SET), and Self-Determination Theory (SDT). Collectively, these theories provide a comprehensive framework for understanding how strategic HRM practices enhance employee work efficiency and overall organizational effectiveness.

Human Capital Theory, originally proposed by Schultz (1961) and further developed by Becker (1964), remains one of the most influential theories explaining the role of employee development in organizational success. The theory argues that investments in education, training, professional development, and skills acquisition enhance employees' productivity and generate long-term organizational value. Unlike physical assets, human capital continues to grow through continuous learning and accumulated experience, making it one of the most valuable strategic resources available to organizations.

Within higher education institutions, Human Capital Theory is particularly significant because universities are knowledge-intensive organizations. Academic staff create knowledge through research, disseminate knowledge through teaching, and apply knowledge through innovation and community engagement. Consequently, investments in faculty development directly contribute to institutional performance. Becker (1964) argues that organizations investing in employee education and competency development generally achieve higher productivity, greater innovation, and stronger competitive advantage than those relying primarily on physical resources.

Professional development has therefore become one of the core HRM practices within universities. Faculty development workshops, pedagogical training, digital competency programs, international conferences, academic exchange initiatives, postdoctoral fellowships, and research collaborations all represent investments in human capital. These activities strengthen lecturers' instructional capabilities, research competencies, leadership skills, and international professional networks, thereby improving overall work efficiency.

Numerous empirical studies support the application of Human Capital Theory within higher education. Noe (2020) argues that continuous employee learning significantly enhances knowledge acquisition, professional competence, and long-term organizational performance. Likewise, the OECD (2023) reports that universities investing consistently in faculty development generally achieve higher research productivity, stronger teaching quality, greater innovation, and improved graduate outcomes. Accordingly, Human Capital Theory provides a strong theoretical foundation for prioritizing continuous professional development as an effective mechanism for improving academic staff work efficiency.

The Resource-Based View (RBV), introduced by Barney (1991), argues that organizations achieve sustainable competitive advantage through resources that are valuable, rare, inimitable, and non-substitutable (VRIN). Among these strategic resources, human capital is regarded as one of the most important because employees possess unique knowledge, creativity, experience, and problem-solving capabilities that cannot easily be replicated by competitors.

Within higher education institutions, academic staff constitute the most valuable strategic resource because institutional reputation depends heavily on faculty expertise, research achievements, teaching quality, and international collaboration. Universities with highly qualified academic personnel are generally better positioned to attract talented students, secure competitive research funding, establish international partnerships, and strengthen their positions in global university rankings.

The RBV further suggests that HRM practices enhance institutional competitiveness by attracting, developing, and retaining highly qualified academic staff. Recruitment systems identify talented faculty members, professional development strengthens employee competencies, compensation supports retention, and effective leadership fosters a supportive organizational environment. Consequently, HRM functions as a strategic investment that transforms human resources into a sustainable source of competitive advantage.

According to Wright, Dunford, and Snell (2001), strategic HRM creates organizational capabilities by developing employees whose competencies are difficult for competing institutions to imitate. This perspective is particularly relevant for universities seeking to strengthen their international reputation through excellence in research, innovation, and educational quality.

Strategic Human Resource Management (SHRM) extends the traditional personnel management approach by emphasizing the alignment between human resource practices and organizational strategy. According to Wright and McMahan (1992), SHRM involves designing integrated HR policies that simultaneously support organizational objectives and enhance employee performance and organizational effectiveness.

Unlike traditional HRM, which focuses primarily on administrative functions such as recruitment, payroll, and personnel administration, SHRM integrates human resource practices into institutional strategic planning. Within universities, this involves aligning faculty recruitment, performance evaluation, leadership development, promotion systems, research support, compensation, and professional development with institutional missions related to teaching excellence, research productivity, internationalization, and innovation.

Boxall and Purcell (2016) argue that isolated HR practices rarely generate sustainable organizational improvements. Instead, integrated and complementary HRM systems produce stronger performance because different HR practices reinforce one another. For example, professional development initiatives become more effective when combined with transparent performance evaluation systems, supportive leadership, career advancement opportunities, and equitable reward mechanisms.

Similarly, Armstrong (2020) emphasizes that strategic HRM seeks to maximize employee potential while simultaneously achieving organizational objectives. Universities that implement integrated HRM systems generally experience higher employee commitment, stronger organizational culture, increased innovation, and improved work efficiency.

Numerous empirical studies have demonstrated positive relationships between strategic HRM and organizational performance across the education, healthcare, manufacturing, and service sectors. Within higher education, SHRM encourages universities to adopt long-term faculty development strategies rather than relying solely on isolated administrative interventions. This integrated approach enables institutions to strengthen academic performance, improve organizational effectiveness, and support sustainable institutional development.

One of the most widely applied frameworks for explaining employee performance is the Ability–Motivation–Opportunity (AMO) Theory, developed by Appelbaum et al. (2000). According to this theory, employees perform effectively when three essential conditions are present simultaneously:

- Ability – employees possess the necessary knowledge, competencies, and professional skills required to perform their duties effectively.
- Motivation – employees are willing and committed to applying their abilities to achieve organizational objectives.
- Opportunity – organizations provide employees with sufficient opportunities and an enabling environment to apply and develop their competencies.
- The AMO framework explains why isolated HRM practices often fail to improve organizational performance. Even highly qualified employees may underperform if their motivation is insufficient, while highly motivated employees cannot achieve optimal performance without adequate skills or organizational support. Therefore, sustainable improvements in employee performance require a balanced integration of all three AMO dimensions.

Within higher education institutions, HRM practices contribute to each component of the AMO framework. Professional development programs, mentoring initiatives, faculty training, and international exchange opportunities strengthen employees' abilities. Performance-based compensation, recognition systems, promotion opportunities, supportive leadership, and fair performance evaluation enhance employee motivation. Furthermore, academic autonomy, collaborative research opportunities, participatory decision-making, and a supportive institutional environment provide faculty members with meaningful opportunities to utilize their competencies effectively.

Empirical research consistently supports the AMO framework. Jiang et al. (2012) found that HRM practices enhance organizational performance because they simultaneously improve employee ability, motivation, and opportunities for participation. Accordingly, universities seeking to improve academic staff work efficiency should implement integrated HRM systems that address all three AMO dimensions rather than relying exclusively on employee training or financial incentives.

Social Exchange Theory (SET), developed by Blau (1964), explains employee behavior through reciprocal relationships between organizations and employees. The theory suggests that employees respond positively when organizations demonstrate trust, fairness, respect, and meaningful support. In return, employees are more likely to exhibit stronger organizational commitment, higher motivation, and improved job performance. Supportive organizational practices therefore foster mutually beneficial relationships that strengthen both employee well-being and organizational effectiveness.

Within higher education institutions, organizational support may include professional development opportunities, transparent promotion procedures, supportive leadership, access to research funding, open communication, recognition programs, and work–life balance initiatives. Faculty members who perceive strong organizational support are generally more inclined to reciprocate through increased organizational commitment, higher work engagement, stronger organizational citizenship behavior, and improved work efficiency.

Cropanzano and Mitchell (2005) argue that reciprocal relationships foster mutual trust between employees and organizations, thereby strengthening long-term cooperation, organizational stability, and institutional effectiveness. Similarly, Eisenberger et al. (1986) introduced the concept of Perceived Organizational Support (POS), demonstrating that employees who perceive higher levels of organizational support typically experience greater job satisfaction, stronger organizational commitment, lower turnover intentions, and enhanced work performance.

Within higher education institutions, Social Exchange Theory provides a valuable explanation for why supportive leadership, employee recognition, transparent performance evaluation, and initiatives that promote employee well-being contribute significantly to faculty motivation, engagement, and overall work efficiency.

RESEARCH METHODOLOGY

This study adopts a systematic literature review (SLR) approach to examine the role of Human Resource Management (HRM) in enhancing work efficiency within higher education institutions. A systematic literature review was selected as the most appropriate research method because it enables the comprehensive identification, synthesis, comparison, and critical evaluation of existing theoretical and empirical studies related to HRM practices and employee work efficiency. This approach facilitates the integration of current knowledge while identifying research trends, theoretical developments, and gaps requiring further investigation.

Relevant scholarly publications were identified through internationally recognized academic databases, including Scopus, Web of Science, ScienceDirect, SpringerLink, Taylor & Francis Online, Emerald Insight, Wiley Online Library, Google Scholar, and ERIC. These databases were selected because they provide access to high-quality, peer-reviewed literature covering the fields of human resource management, organizational behavior, higher education, and management studies.

The literature search employed combinations of keywords and Boolean operators, including “human

resource management,” “strategic human resource management,” “work efficiency,” “employee performance,” “academic staff performance,” “higher education institutions,” “faculty productivity,” and “university management.” Various combinations of these terms were used to ensure comprehensive coverage of relevant publications and to minimize the omission of significant studies.

To ensure the quality and relevance of the review, clear inclusion and exclusion criteria were established. The review included peer-reviewed journal articles, academic books, book chapters, conference proceedings, and reports published by reputable international organizations, including the Organisation for Economic Co-operation and Development (OECD) and UNESCO. The primary focus was placed on publications published between 2010 and 2025 to capture recent developments in strategic HRM and higher education management. Nevertheless, several seminal studies published before 2010 were also included because of their enduring theoretical significance and their substantial contribution to the development of HRM theory.

The selected publications were screened based on three principal criteria: their relevance to the research objectives, methodological rigor, and contribution to understanding the relationship between HRM practices and work efficiency in higher education institutions. Publications that did not directly address HRM or academic staff performance, lacked sufficient methodological quality, or duplicated findings reported elsewhere were excluded from the review.

Following the selection process, the identified studies were analyzed using a thematic analysis approach. This method enabled the systematic classification and synthesis of research findings into major thematic categories. The principal themes included professional development and training, performance management, leadership support, compensation and reward systems, career development, workload management, work–life balance, institutional support, and organizational performance. Organizing the literature into these themes facilitated a comprehensive understanding of the major HRM practices influencing academic staff work efficiency.

The review also examined the principal theoretical frameworks underpinning the relationship between HRM and employee performance. These included Human Capital Theory, Strategic Human Resource Management (SHRM) Theory, the Ability–Motivation–Opportunity (AMO) Theory, the Resource-Based View (RBV), Social Exchange Theory (SET), and Self-Determination Theory (SDT). Collectively, these theories provide complementary perspectives for explaining how strategic HRM practices influence employee competence, motivation, engagement, organizational commitment, and overall work efficiency within higher education institutions.

By synthesizing evidence from previous theoretical and empirical research, this study develops a comprehensive conceptual understanding of how strategic HRM practices contribute to improving the work efficiency of academic staff and enhancing the overall effectiveness of higher education institutions. The systematic literature review also identifies consistent findings, areas of scholarly consensus, existing research limitations, and emerging directions for future investigation.

Overall, the adopted methodology provides a rigorous and reliable theoretical foundation for understanding the role of strategic human resource management in higher education. Furthermore, it supports the identification of current research trends, highlights important knowledge gaps, and establishes a solid basis for future empirical studies aimed at strengthening academic staff performance and institutional effectiveness.

ANALYSIS AND RESULTS

The systematic review of the existing literature demonstrates that Human Resource Management (HRM) plays a vital role in enhancing the work efficiency of academic staff in higher education institutions (HEIs). Across the reviewed studies, HRM practices consistently emerged as strategic mechanisms that strengthen employee competence, motivation, organizational commitment, and overall institutional performance. Although individual studies focused on different dimensions of HRM, there is broad scholarly consensus that integrated HRM systems contribute more effectively to academic work efficiency than isolated human resource practices.

One of the most frequently examined HRM practices is professional development and training. The majority of studies conclude that continuous learning opportunities significantly improve both teaching effectiveness and research productivity. According to Noe (2020), employee training enhances professional competencies, strengthens self-confidence, and improves individual performance by enabling employees to acquire new knowledge and develop advanced professional skills. Similarly, the OECD (2023) reports that universities investing in faculty development programs generally achieve higher educational quality, stronger research performance, and greater innovation capacity. Faculty members who participate in workshops, international conferences, academic exchange programs, and digital learning initiatives are better prepared to respond to evolving educational requirements and rapid technological advancements.

Another important finding concerns performance management systems. The literature indicates that

transparent, objective, and development-oriented performance evaluation positively influences academic staff performance. Rather than functioning solely as an appraisal mechanism, contemporary performance management emphasizes continuous feedback, identifies professional development needs, and aligns individual objectives with broader institutional goals (Aguinis, 2019). Universities implementing fair and transparent evaluation systems promote greater employee accountability, stronger organizational commitment, and continuous improvement in both teaching and research activities. Several studies further emphasize that performance evaluation should be closely integrated with professional development opportunities rather than serving only administrative or compliance-related purposes.

Leadership support also emerged as one of the strongest determinants of academic work efficiency. Transformational leadership—characterized by inspirational motivation, individualized consideration, intellectual stimulation, and employee empowerment—has consistently been associated with higher levels of employee motivation, organizational commitment, and work engagement (Bass & Avolio, 1994; Northouse, 2022). Academic staff working under supportive department heads and university administrators generally demonstrate stronger collaboration, greater participation in research initiatives, and a higher level of commitment to institutional objectives. In contrast, limited leadership support may reduce employee motivation, weaken communication, increase occupational stress, and ultimately diminish work efficiency. These findings highlight the importance of effective academic leadership in creating a supportive and productive institutional environment.

The literature further indicates that compensation and reward systems influence employee motivation and performance, although financial incentives alone are insufficient to sustain long-term work efficiency. According to Gerhart and Fang (2015), competitive salaries, research incentives, promotion opportunities, and recognition programs encourage employees to achieve higher levels of performance. Nevertheless, intrinsic motivational factors—including academic autonomy, professional recognition, career development opportunities, and meaningful work—often exert a stronger influence on faculty members than financial rewards alone. This finding is consistent with Self-Determination Theory, which emphasizes the importance of autonomy, competence, and relatedness in fostering sustainable employee motivation (Deci & Ryan, 2000).

Career development opportunities represent another essential HRM practice consistently identified throughout the reviewed literature. Universities that establish transparent promotion procedures, mentoring programs, leadership development initiatives, and structured opportunities for academic advancement generally experience higher employee satisfaction, stronger organizational commitment, and lower turnover intentions. Faculty members who perceive clear career progression pathways are more likely to invest sustained effort in teaching, research, and institutional service while maintaining long-term commitment to their universities.

Workload management and work–life balance have also received increasing attention in recent higher education research. Universities worldwide have experienced expanding teaching responsibilities, greater research expectations, increasing administrative duties, and heightened accountability requirements. Kinman and Wray (2020) report that excessive workloads contribute to occupational stress, burnout, reduced teaching effectiveness, lower research productivity, and decreased job satisfaction. Consequently, many scholars recommend implementing equitable workload allocation models, flexible working arrangements, mental health support initiatives, and employee wellness programs to maintain sustainable levels of academic work efficiency. Such practices not only improve employee well-being but also strengthen institutional performance by fostering a healthier and more productive academic environment.

Overall, the reviewed literature demonstrates that strategic HRM practices make a substantial contribution to improving academic staff work efficiency. Universities adopting integrated HRM systems that combine professional development, effective performance management, supportive leadership, equitable reward mechanisms, career development opportunities, and employee well-being initiatives are better positioned to enhance teaching quality, research productivity, institutional effectiveness, and long-term organizational sustainability.

Institutional support and organizational culture also emerged as important determinants of academic staff performance. Universities that promote collaboration, trust, knowledge sharing, innovation, and employee participation generally demonstrate stronger organizational commitment and enhanced institutional performance. Perceived organizational support encourages academic staff to reciprocate through higher levels of work engagement, organizational citizenship behavior, and increased productivity (Eisenberger et al., 1986). Furthermore, a positive organizational culture facilitates interdisciplinary collaboration, strengthens mentoring relationships, and supports continuous professional learning, thereby contributing to sustainable academic excellence.

Analysis of the theoretical literature indicates that several established management theories consistently explain the relationship between human resource management (HRM) and work efficiency. Human Capital Theory emphasizes investment in employees' competencies through education, training, and professional development (Becker, 1964). The Resource-Based View (RBV) identifies highly qualified academic staff as

valuable strategic resources capable of generating sustainable competitive advantage (Barney, 1991). Strategic Human Resource Management (SHRM) Theory suggests that integrated HRM systems produce stronger organizational outcomes than isolated HR practices (Wright & McMahan, 1992). The Ability–Motivation–Opportunity (AMO) Theory explains employee performance through the combined influence of competencies, motivation, and opportunities for participation (Appelbaum et al., 2000). Social Exchange Theory (SET) highlights the reciprocal relationship between organizational support and employee commitment (Blau, 1964), while Self-Determination Theory (SDT) emphasizes the importance of intrinsic motivation fostered through autonomy, competence, and meaningful work (Deci & Ryan, 2000).

Overall, the analysis demonstrates that no single HRM practice independently determines work efficiency. Rather, universities achieve stronger organizational outcomes when multiple HRM practices operate as an integrated and mutually reinforcing system. Professional development enhances employee competencies; effective leadership strengthens motivation and engagement; performance management clarifies expectations and supports continuous improvement; compensation and recognition reinforce organizational commitment; workload management promotes employee well-being by minimizing the risk of burnout; and a supportive organizational culture encourages innovation, collaboration, and knowledge sharing. Collectively, these complementary HRM practices contribute to improved teaching quality, enhanced research productivity, greater employee well-being, and higher levels of institutional effectiveness and long-term sustainability (Table 1).

Table 1. Summary of Main Findings from the Literature Review¹

HRM Practice	Major Findings	Representative Authors
Professional development and training	Improves teaching quality, research productivity, and professional competencies	Noe (2020); Armstrong (2020); OECD (2023)
Performance management	Continuous feedback and transparent evaluation improve performance	Aguinis (2019); DeNisi & Murphy (2017)
Leadership support	Transformational leadership increases motivation and engagement	Bass & Avolio (1994); Northouse (2022)
Compensation and rewards	Fair rewards strengthen motivation and organizational commitment	Gerhart & Fang (2015); Armstrong (2020)
Career development	Promotion opportunities improve retention and employee commitment	Boxall & Purcell (2016)
Workload management	Balanced workload reduces burnout and improves efficiency	Kinman & Wray (2020)
Work-life balance	Flexible policies improve well-being and sustainable performance	Guest (2017)
Organizational support	Positive culture strengthens collaboration and organizational citizenship	Eisenberger et al. (1986); Blau (1964)

The findings of this literature review indicate that strategic human resource management (HRM) is a critical driver of work efficiency in higher education institutions. The reviewed studies consistently demonstrate that universities implementing integrated HRM practices achieve higher levels of employee competence, stronger motivation, greater organizational commitment, improved teaching effectiveness, enhanced research productivity, and superior institutional performance. These findings reinforce the view that HRM should be recognized as a strategic investment rather than merely an administrative function.

Accordingly, university leaders and policymakers should prioritize the implementation of comprehensive HRM strategies that integrate professional development, supportive leadership, transparent performance management, equitable reward systems, career advancement opportunities, and employee well-being initiatives. Such an integrated approach can sustainably enhance academic staff work efficiency, strengthen institutional competitiveness, improve educational quality, and support long-term organizational development in higher education institutions.

CONCLUSION AND RECOMMENDATIONS

Human resource management has become an essential strategic function for improving the work efficiency of academic staff in higher education institutions. As universities operate in an increasingly competitive and knowledge-driven environment, their ability to achieve educational excellence, research productivity, innovation,

¹ author's development

and international competitiveness largely depends on the effective management of human resources. The findings of this literature review demonstrate that strategic HRM practices significantly influence employees' knowledge, skills, motivation, organizational commitment, and overall performance, thereby contributing to institutional effectiveness and sustainable development.

The reviewed literature consistently indicates that work efficiency in higher education is a multidimensional concept encompassing teaching effectiveness, research productivity, administrative performance, student supervision, community engagement, and organizational citizenship behavior. Unlike traditional productivity measures, work efficiency reflects both the quality and quantity of academic performance while emphasizing the effective utilization of institutional resources. Consequently, universities should evaluate faculty performance using comprehensive performance indicators rather than relying solely on publication output or teaching hours.

This review further highlights that no single HRM practice independently determines work efficiency. Instead, universities achieve superior organizational outcomes through the implementation of integrated human resource management systems. Professional development and continuous training enhance academic competencies and teaching quality, while effective performance management provides constructive feedback and promotes continuous improvement. Supportive leadership strengthens employee engagement, collaboration, and organizational commitment, whereas fair compensation and transparent promotion systems enhance motivation and faculty retention. Furthermore, effective workload management, work-life balance initiatives, and institutional support contribute to employee well-being, reduce occupational stress, and create conditions that facilitate sustainable high performance.

The theoretical analysis also confirms the strong relationship between HRM and work efficiency. Human Capital Theory emphasizes investment in employee knowledge and competencies as a foundation for long-term organizational success. The Resource-Based View identifies academic staff as valuable strategic resources capable of generating sustainable competitive advantage. Strategic Human Resource Management Theory demonstrates that aligning HRM practices with institutional objectives enhances organizational performance. Likewise, the Ability–Motivation–Opportunity (AMO) Theory, Social Exchange Theory, and Self-Determination Theory collectively explain how HRM practices strengthen employee competence, motivation, organizational commitment, and work engagement.

Overall, the literature provides substantial evidence that strategic HRM should be regarded not merely as an administrative function but as a fundamental driver of academic staff work efficiency and institutional effectiveness. Universities that implement comprehensive, employee-centered HRM strategies are better positioned to improve teaching quality, increase research productivity, strengthen international competitiveness, and achieve long-term organizational sustainability.

Recommendations

Based on the findings of this literature review, several recommendations are proposed for university administrators, policymakers, and human resource professionals seeking to improve the work efficiency of academic staff.

First, higher education institutions should prioritize continuous professional development by providing regular training programs, pedagogical workshops, digital competency courses, research methodology seminars, international exchange opportunities, and academic mobility programs. Continuous learning enables faculty members to strengthen their teaching practices, research capabilities, and professional competencies while adapting to technological and educational developments.

Second, universities should establish transparent, fair, and development-oriented performance management systems. Performance evaluation should focus not only on measuring employee outcomes but also on providing constructive feedback, identifying professional development needs, and supporting career advancement. Evaluation criteria should comprehensively assess teaching effectiveness, research productivity, student supervision, institutional service, and community engagement.

Third, university leaders should strengthen leadership capacity by promoting transformational and participative leadership practices. Department heads, deans, and university administrators should encourage open communication, collaborative decision-making, employee recognition, and mentoring. Supportive leadership contributes significantly to higher employee motivation, organizational commitment, innovation, and work engagement.

Fourth, institutions should develop equitable compensation and reward systems that recognize excellence in teaching, research, innovation, and institutional service. In addition to competitive salaries, universities should provide performance-based incentives, research grants, publication awards, recognition programs, and transparent promotion opportunities to motivate academic staff and strengthen employee retention.

Fifth, universities should implement effective workload management and work-life balance policies. Academic staff frequently manage substantial teaching responsibilities, research expectations, and administrative duties that may affect productivity and well-being. Institutions should therefore establish equitable workload allocation

systems, flexible working arrangements where appropriate, employee wellness programs, and psychological support services to promote sustainable work efficiency.

Sixth, university administrators should foster a supportive institutional environment that encourages collaboration, knowledge sharing, interdisciplinary research, innovation, and academic autonomy. A positive organizational culture strengthens employee satisfaction, organizational commitment, and long-term institutional performance.

Finally, future research should complement literature reviews with empirical investigations involving academic staff from diverse countries and institutional contexts. Both quantitative and qualitative studies could examine the relative influence of individual HRM practices on work efficiency while considering organizational culture, leadership styles, digital transformation, and national higher education policies. Comparative international studies would also provide valuable insights into best HRM practices that enhance faculty performance across different higher education systems.

In conclusion, effective human resource management should be recognized as a strategic investment rather than solely an administrative responsibility. Universities that adopt integrated, employee-centered, and evidence-based HRM practices will be better positioned to enhance the work efficiency of academic staff, improve educational quality, increase research productivity, and achieve sustainable institutional success within the evolving global higher education landscape.

REFERENCES

1. Aguinis H. Performance management. – 4th ed. – Chicago: Chicago Business Press, 2019.
2. Allen D.G., Bryant P.C., Vardaman J.M. Retaining talent: Replacing misconceptions with evidence-based strategies // *Academy of Management Perspectives*. – 2010. – Vol. 24, № 2. – P. 48–64.
3. Altbach P.G., Reisberg L., de Wit H. Responding to massification: Differentiation in postsecondary education worldwide. – Rotterdam: Sense Publishers, 2017.
4. Altbach P.G., Salmi J. (Eds.). The road to academic excellence: The making of world-class research universities. – Washington, DC: World Bank, 2011.
5. Appelbaum E., Bailey T., Berg P., Kalleberg A.L. Manufacturing advantage: Why high-performance work systems pay off. – Ithaca, NY: Cornell University Press, 2000.
6. Armstrong M. Armstrong's handbook of human resource management practice. – 15th ed. – London: Kogan Page, 2020.
7. Barney J. Firm resources and sustained competitive advantage // *Journal of Management*. – 1991. – Vol. 17, № 1. – P. 99–120.
8. Bass B.M., Avolio B.J. Improving organizational effectiveness through transformational leadership. – Thousand Oaks, CA: Sage Publications, 1994.
9. Becker G.S. Human capital: A theoretical and empirical analysis, with special reference to education. – Chicago: University of Chicago Press, 1964.
10. Biggs J., Tang C. Teaching for quality learning at university. – 4th ed. – Maidenhead: Open University Press, 2011.
11. Blau P.M. Exchange and power in social life. – New York: Wiley, 1964.
12. Boxall P., Purcell J. Strategy and human resource management. – 4th ed. – London: Palgrave Macmillan, 2016.
13. Bryson C. Understanding and developing student engagement. – London: Routledge, 2018.
14. Campbell J.P., Wiernik B.M. The modeling and assessment of work performance // Wright J.D. (Ed.). *International Encyclopedia of the Social & Behavioral Sciences*. – 2nd ed. – Oxford: Elsevier, 2015. – P. 447–454.
15. Cropanzano R., Mitchell M.S. Social exchange theory: An interdisciplinary review // *Journal of Management*. – 2005. – Vol. 31, № 6. – P. 874–900.
16. Deci E.L., Ryan R.M. The “what” and “why” of goal pursuits: Human needs and the self-determination of behavior // *Psychological Inquiry*. – 2000. – Vol. 11, № 4. – P. 227–268.
17. DeNisi A.S., Murphy K.R. Performance appraisal and performance management: 100 years of progress? // *Journal of Applied Psychology*. – 2017. – Vol. 102, № 3. – P. 421–433.
18. Dessler G. Human resource management. – 16th ed. – Harlow: Pearson, 2020.
19. Drucker P.F. The practice of management. – New York: Harper Business, 2007. (Original work published in 1954).
20. Eisenberger R., Huntington R., Hutchison S., Sowa D. Perceived organizational support // *Journal of Applied Psychology*. – 1986. – Vol. 71, № 3. – P. 500–507.

21. Gerhart B., Fang M. Pay for (individual) performance: Issues, claims, evidence and the role of sorting effects // *Human Resource Management Review*. – 2015. – Vol. 25, № 1. – P. 41–52.
22. Guest D.E. Human resource management and employee well-being: Towards a new analytic framework // *Human Resource Management Journal*. – 2017. – Vol. 27, № 1. – P. 22–38.
23. Jiang K., Lepak D.P., Hu J., Baer J.C. How does human resource management influence organizational outcomes? A meta-analytic investigation of mediating mechanisms // *Academy of Management Journal*. – 2012. – Vol. 55, № 6. – P. 1264–1294.
24. Kinman G., Wray S. Higher stress: A survey of stress and well-being among staff in higher education. – London: University and College Union, 2020.
25. Meyer J.P., Allen N.J. Commitment in the workplace: Theory, research, and application. – Thousand Oaks, CA: Sage Publications, 1997.
26. Moed H.F. Applied evaluative informetrics. – Cham: Springer, 2017.
27. Noe R.A. Employee training and development. – 8th ed. – New York: McGraw-Hill Education, 2020.
28. Northouse P.G. Leadership: Theory and practice. – 9th ed. – Thousand Oaks, CA: Sage Publications, 2022.
29. Organisation for Economic Co-operation and Development. Education at a glance 2023: OECD indicators [Electronic resource]. – Paris: OECD Publishing, 2023. – URL: <https://doi.org/10.1787/e13bef63-en> (accessed: 01.08.2026).
30. Robbins S.P., Judge T.A. Organizational behavior. – 19th ed. – Harlow: Pearson, 2023.
31. Saks A.M. Caring human resources management and employee engagement // *Human Resource Management Review*. – 2022. – Vol. 32, № 3. – Art. 100835.
32. Schultz T.W. Investment in human capital // *American Economic Review*. – 1961. – Vol. 51, № 1. – P. 1–17.
33. UNESCO. Reimagining our futures together: A new social contract for education [Electronic resource]. – Paris: UNESCO Publishing, 2021. – URL: <https://unesdoc.unesco.org> (accessed: 01.08.2026).
34. Wright P.M., Dunford B.B., Snell S.A. Human resources and the resource-based view of the firm // *Journal of Management*. – 2001. – Vol. 27, № 6. – P. 701–721.
35. Wright P.M., McMahan G.C. Theoretical perspectives for strategic human resource management // *Journal of Management*. – 1992. – Vol. 18, № 2. – P. 295–320.

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