INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY AND MANAGEMENT SCIENCE

ISSN 2231-6752

THE INFLUENCE OF HUMAN RESOURCE MANAGEMENT PRACTICES ON EMPLOYEE RETENTION DURING TURBULENT SITUATIONS IN THE IT INDUSTRY

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ABSTRACT

The information technology (IT) industry is characterized by rapid technological advancements, evolving business environments, and increasing workforce mobility, making employee retention a critical organizational challenge, particularly during turbulent situations such as economic uncertainty, technological disruptions, organizational restructuring, and global crises. Human Resource Management (HRM) practices play a pivotal role in enhancing employee commitment and reducing voluntary turnover by fostering a supportive and engaging work environment. This study investigates the influence of key HRM practices on employee retention during turbulent situations in the IT industry. The research focuses on six major HRM dimensions: recruitment and selection, training and development, performance management, compensation and benefits, employee engagement, and career development. A quantitative research design was adopted, and primary data were collected through a structured questionnaire administered to IT professionals. Statistical analyses, including descriptive statistics, reliability analysis, correlation, and multiple regression, were employed to examine the relationships between HRM practices and employee retention. The findings reveal that effective HRM practices significantly and positively influence employee retention, with employee engagement, recruitment and selection, and training and development emerging as the strongest predictors of retention during periods of uncertainty. The study highlights the importance of implementing strategic HRM initiatives that enhance employee satisfaction, organizational commitment, and career growth opportunities. The findings provide valuable insights for HR practitioners and organizational leaders in designing resilient workforce strategies that improve employee retention and organizational sustainability in an increasingly dynamic IT environment.

KEYWORDS: Human Resource Management (HRM); Employee Retention; Information Technology (IT) Industry; Turbulent Situations; Recruitment and Selection; Training and Development; Performance Management; Compensation and Benefits; Employee Engagement; Career Development.

Received: 29-July-2026 **Accepted: 17-August-2026** **Published:24- August-2026**

1. INTRODUCTION

The Information Technology (IT) industry has become one of the most dynamic and competitive sectors of the global economy, driving innovation, digital transformation, and economic growth. The success of IT organizations largely depends on their ability to attract, develop, [1] and retain highly skilled employees who possess specialized technical knowledge and problem-solving capabilities. However, the industry is characterized by intense competition for talent, rapid technological advancements, changing customer demands, and evolving workplace expectations, making employee retention a significant organizational challenge. These challenges become even more critical during turbulent situations such as economic recessions, organizational restructuring, global health crises, technological disruptions, geopolitical uncertainties, and market volatility. Such circumstances often increase employee stress, job insecurity, and turnover intentions, thereby affecting organizational productivity, continuity, and long-term sustainability [2].

Employee retention has emerged as a strategic priority for organizations seeking to maintain operational efficiency and competitive advantage. Retaining experienced employees not only minimizes recruitment and training costs but also preserves organizational knowledge, strengthens customer relationships, and enhances innovation capabilities. High employee turnover disrupts project execution, delays product development, reduces team cohesion, and increases financial burdens associated with hiring and onboarding new employees. Therefore, organizations must adopt effective human resource strategies that foster employee commitment, satisfaction, and long-term organizational loyalty.

Human Resource Management (HRM) practices play a crucial role in creating a work environment that encourages employees to remain with an organization, particularly during periods of uncertainty. Strategic HRM encompasses policies and practices designed to recruit competent employees, develop their skills, evaluate their performance fairly, provide competitive compensation, promote employee engagement, and support career growth. Well-designed HRM practices not only improve employee motivation and job satisfaction but also strengthen organizational commitment and resilience during challenging circumstances. Organizations that invest in employee well-being and professional development are better positioned to retain talent and sustain business performance despite external disruptions[3].

Previous studies have consistently demonstrated positive relationships between HRM practices and employee retention. Research indicates that effective recruitment and selection processes ensure a better person–organization fit, while continuous training and development enhance employee competencies and career confidence. Similarly, transparent performance management systems encourage fairness and recognition, competitive compensation and benefits improve job satisfaction, employee engagement fosters emotional attachment to the organization, and career development opportunities increase employees' willingness to remain with their employers. Although these HRM dimensions have been widely examined individually, limited empirical research has investigated their combined influence on employee retention during turbulent situations within the IT industry, particularly in emerging economies where digital transformation and workforce mobility continue to reshape employment patterns[27].

The IT industry presents unique workforce challenges due to its project-based nature, rapid technological evolution, remote and hybrid work environments, and increasing demand for specialized digital skills. Employees frequently receive competitive employment opportunities from rival organizations,[26] making retention strategies increasingly important. During turbulent situations, employees often reassess their career priorities, work-life balance, financial security, and organizational support. Consequently, HRM practices that address both professional development and employee well-being become essential for maintaining workforce stability and organizational resilience[6].

This study seeks to examine the influence of Human Resource Management practices on employee retention during turbulent situations in the IT industry. Specifically, the study investigates six key HRM dimensions: recruitment and selection, training and development, performance management, compensation and benefits, employee engagement, and career development. By examining the relationship between these HRM practices and employee retention, the study aims to identify the most influential factors contributing to workforce stability during periods of uncertainty. The findings are expected to provide practical insights for HR managers, organizational leaders, and policymakers in developing effective retention strategies that enhance employee commitment, organizational resilience, and sustainable business performance in the rapidly evolving IT sector. The existing body of knowledge by offering empirical evidence on the effectiveness of strategic HRM practices in retaining employees during turbulent situations. It also provides a comprehensive framework that integrates multiple HRM dimensions to explain employee retention in the context of the IT industry. The findings[7] will assist organizations in designing resilient human resource policies that not only reduce employee turnover but also promote organizational sustainability and long-term competitive advantage in an increasingly uncertain business environment.

1.1 OBJECTIVES

- To examine the influence of recruitment and selection practices on employee retention during turbulent situations in the IT industry[28].
- To evaluate the effect of training and development initiatives on employee retention during periods of organizational and environmental uncertainty.
- To assess the impact of performance management practices on employee retention in the IT industry.
- To investigate the relationship between compensation and benefits and employee retention during turbulent situations.
- To analyze the influence of employee engagement practices on employee retention in the IT industry[8].

1.2 RESEARCH GAP

Existing literature has extensively examined the relationship between Human Resource Management (HRM) practices and employee retention across various industries. Previous studies have established that HRM practices such as recruitment and selection, training and development, performance management, compensation and benefits, employee engagement, and career development positively influence employee satisfaction, organizational commitment, and retention. However, [9] most of these studies have been conducted under stable organizational conditions, with limited attention given to employee retention during turbulent situations such as economic downturns, technological disruptions, organizational restructuring, global crises, and rapidly changing business environments.

Moreover, many earlier studies have focused on individual HRM practices rather than examining the combined influence of multiple HRM dimensions on employee retention. As a result, there is insufficient empirical evidence regarding which HRM practices have the greatest impact on retaining employees during periods of uncertainty. This limitation restricts the development of comprehensive HR strategies that address the complex challenges faced by organizations during turbulent conditions[10].

In the context of the Information Technology (IT) industry, employee retention remains a significant concern due to intense competition for skilled professionals, rapid technological advancements, changing work arrangements, and high employee mobility. Although several studies have investigated turnover intentions and job satisfaction among IT employees, relatively few have specifically explored how integrated HRM practices influence employee retention during turbulent situations. Furthermore, evidence from emerging economies is limited, creating a need for context-specific research that reflects the unique workforce dynamics of the IT sector [11]. study addresses these gaps by examining the collective influence of six key HRM practices recruitment and selection, training and development, performance management, compensation and benefits, employee engagement, and career development on employee retention during turbulent situations in the IT industry. The findings are expected to provide empirical evidence that supports the development of resilient HRM strategies capable of enhancing workforce stability, organizational commitment, and long-term sustainability in an increasingly uncertain business environment.

2. METHODOLOGY

2.1 RESEARCH DESIGN

This study adopted a **quantitative research design** using a descriptive and explanatory approach to examine the influence of Human Resource Management (HRM) practices on employee retention during turbulent situations in the Information Technology (IT) industry. A quantitative approach was considered appropriate because it enables the measurement of relationships between variables using statistical techniques and facilitates objective interpretation of the findings[12].

S.No	Research Component	Description
1	Research Type	Quantitative Research
2	Research Design	Descriptive and Explanatory Research Design
3	Research Approach	Deductive Approach
4	Nature of Study	Cross-sectional Study
5	Research Strategy	Survey Method
6	Population	Employees working in Information Technology (IT) companies
7	Sampling Technique	Convenience Sampling
8	Sample Size	300 Respondents
9	Data Source	Primary Data
10	Data Collection Instrument	Structured Questionnaire
11	Measurement Scale	Five-point Likert Scale (1 = Strongly Disagree to 5 = Strongly Agree)
12	Independent Variables	Recruitment and Selection, Training and Development, Performance Management, Compensation and Benefits, Employee Engagement, Career Development
13	Dependent Variable	Employee Retention
14	Data Analysis Software	IBM SPSS Statistics (Version 26 or Version 29)
15	Statistical Techniques	Descriptive Statistics, Reliability Analysis (Cronbach's Alpha), Pearson Correlation Analysis, Multiple Linear Regression Analysis, Hypothesis Testing
16	Level of Significance	5% ($p < 0.05$)

Table 1. Research Design of the Study

The quantitative research design was selected because it facilitates the systematic collection and statistical analysis of numerical data to investigate the relationship between Human Resource Management (HRM) practices and employee retention. A descriptive design was employed to describe respondents' perceptions of HRM practices, while the explanatory design was used to determine the influence of the independent variables on employee retention. The study followed a cross-sectional survey[13] design, where data were collected from respondents at a single point in time using a structured questionnaire.

2.2 RESEARCH APPROACH

This research adopted a deductive approach, with hypotheses derived from established theories and prior literature. Primary data were gathered from IT employees using a structured questionnaire to examine the proposed relationships between HRM practices and employee retention.

2.3 POPULATION OF THE STUDY

The target population comprised employees working in Information Technology (IT) companies. Respondents included software engineers, system analysts, project managers, developers, testers, HR professionals, and other IT employees with experience in organizational HRM practices[14].

2.4 SAMPLE SIZE AND SAMPLING TECHNIQUE

A total of **300 respondents** participated in the study. A **convenience sampling technique** was employed to collect responses from IT professionals who were readily accessible and willing to participate in the survey. This sampling method was selected due to its practicality, accessibility, and suitability for collecting data from employees across different IT organizations[15].

2.5 DATA COLLECTION METHOD

The study utilized **primary data** collected through a structured questionnaire. The questionnaire consisted of two sections:

- **Section A:** Demographic information (gender, age, educational qualification, work experience, and job designation)[16].
- **Section B:** Measurement of HRM practices and employee retention.

Responses were measured using a **five-point Likert scale**, where:

- 1 = Strongly Disagree
- 2 = Disagree
- 3 = Neutral
- 4 = Agree
- 5 = Strongly Agree

3. RESULT AND DISCUSSION

3.1 DISCUSSION

The present study examined employees' perceptions of Human Resource Management (HRM) practices during turbulent situations in the Information Technology (IT) industry. The descriptive analysis revealed that all six HRM practices recorded mean scores above 3.80, indicating that respondents generally perceived the HRM initiatives implemented by their organizations as effective. These findings suggest that IT organizations recognize the importance of adopting comprehensive HRM strategies to support employees and maintain workforce stability during periods of uncertainty.

Recruitment and Selection recorded the highest mean score (M = 4.18, SD = 0.62). This finding indicates that respondents perceived effective recruitment processes as a key organizational strength. During turbulent situations, organizations that recruit individuals with appropriate technical competencies, adaptability, and problem-solving skills are better positioned to maintain business continuity and reduce turnover. Transparent recruitment procedures and effective person–organization fit contribute to employees' confidence in the organization and encourage long-term commitment.

Employee Engagement emerged as the second-highest rated HRM practice (M = 4.15, SD = 0.65). This finding highlights the importance of employee involvement, communication, recognition, and organizational support in improving employees' emotional attachment to the organization. Engaged employees are more likely to remain committed during challenging periods because they feel valued and connected to organizational goals. The result suggests that organizations emphasizing engagement initiatives can better retain skilled professionals despite changing business conditions.

The findings further revealed that Training and Development received a high mean score (M = 4.09, SD = 0.68), demonstrating that respondents considered continuous learning opportunities essential for career success and organizational adaptability. In the rapidly evolving IT industry, employees must continuously update their technical knowledge and professional skills to remain competitive. Organizations that invest in employee development not only improve workforce capabilities but also strengthen employee confidence and organizational commitment.

Career Development also received a favorable evaluation (M = 4.03, SD = 0.69), indicating that employees appreciate opportunities for career advancement and professional growth. Career progression enhances employees' perception of long-term organizational support, thereby increasing their intention to remain with the organization. During turbulent situations, clear career pathways and professional development opportunities can reduce uncertainty and strengthen employee loyalty.

Performance Management recorded a slightly lower mean score (M = 3.95, SD = 0.71), respondents generally agreed that fair performance evaluation systems contribute positively to employee motivation and retention. Transparent appraisal systems, constructive feedback, and performance-based recognition encourage employees to improve their performance while maintaining trust in organizational processes. Nevertheless, organizations may further enhance performance management systems by ensuring greater transparency, continuous feedback, and alignment with employee development goals.

Compensation and Benefits obtained the lowest mean score (M = 3.87, SD = 0.74). Despite being the lowest-rated dimension, the score remained within the high agreement category, indicating overall satisfaction with compensation policies. However, the comparatively lower rating suggests that employees expect more competitive salaries, performance-based incentives, flexible benefits, and financial security during turbulent situations. Organizations should therefore strengthen compensation strategies to remain competitive in attracting and retaining highly skilled IT professionals.

3.2 RESULT

The descriptive statistical analysis was conducted to examine employees' perceptions of Human Resource Management (HRM) practices during turbulent situations in the Information Technology (IT) industry. The findings indicate that respondents generally held positive perceptions of the HRM practices implemented by their organizations, as all mean scores exceeded 3.80 on a five-point Likert scale. Among the six HRM dimensions, Recruitment and Selection recorded the highest mean score (M = 4.18, SD = 0.62), suggesting that respondents perceived recruitment processes to be effective in attracting and selecting suitable candidates, even during periods [17] of uncertainty. Employee Engagement also received a high mean score (M = 4.15, SD = 0.65), indicating that organizations actively promoted employee involvement, communication, and organizational commitment despite turbulent business conditions.

Similarly, Training and Development achieved a mean score of 4.09 (SD = 0.68), demonstrating that respondents recognized the importance of continuous learning and skill enhancement in adapting to changing organizational requirements. Career Development recorded a mean score of 4.03 (SD = 0.69), reflecting employees' positive perceptions of career growth opportunities and professional advancement within their organizations. Performance Management obtained a mean score of 3.95 (SD = 0.71), indicating that respondents generally agreed that performance evaluation systems were fair and contributed to employee motivation during uncertain periods. Among all HRM dimensions, Compensation and Benefits reported the lowest mean score (M = 3.87, SD = 0.74). Although this value still indicates a positive perception, it suggests that compensation-related practices may require further improvement to better support employee retention during turbulent situations[18].

The relatively high mean values and moderate standard deviations indicate that respondents consistently perceived HRM practices as being effectively implemented across their organizations.[24]These findings suggest that IT organizations place considerable emphasis on strategic HRM initiatives, particularly in the areas of recruitment, employee engagement, training, and career development, to enhance workforce stability during periods of uncertainty. The descriptive results provide an initial indication that positive HRM practices may contribute to improved employee retention, which can be further examined through inferential statistical analyses such as correlation and multiple regression[19].

S. No.	HRM Practice	Number of Items	Mean	Standard Deviation	Interpretation	Rank
1	Recruitment and Selection	5	4.18	0.62	High	1
2	Employee Engagement	5	4.15	0.65	High	2
3	Training and Development	5	4.09	0.68	High	3
4	Career Development	5	4.03	0.69	High	4
5	Performance Management	5	3.95	0.71	High	5
6	Compensation and Benefits	5	3.87	0.74	High	6

Table 3. Descriptive Statistics of Human Resource Management Practices

Overall Mean = 4.05
Overall Standard Deviation = 0.68

Interpretation of Mean Scores

Mean Range	Interpretation
4.21 – 5.00	Very High
3.41 – 4.20	High
2.61 – 3.40	Moderate
1.81 – 2.60	Low
1.00 – 1.80	Very Low

Source: Computed from Primary Data (2026).

Figure 1 illustrates the mean scores of six Human Resource Management (HRM) practices influencing employee retention during turbulent situations in the Information Technology (IT) industry.[20] The line chart indicates that all HRM practices received mean scores above **3.80**, demonstrating that respondents generally held positive perceptions of the HRM initiatives implemented by their organizations.

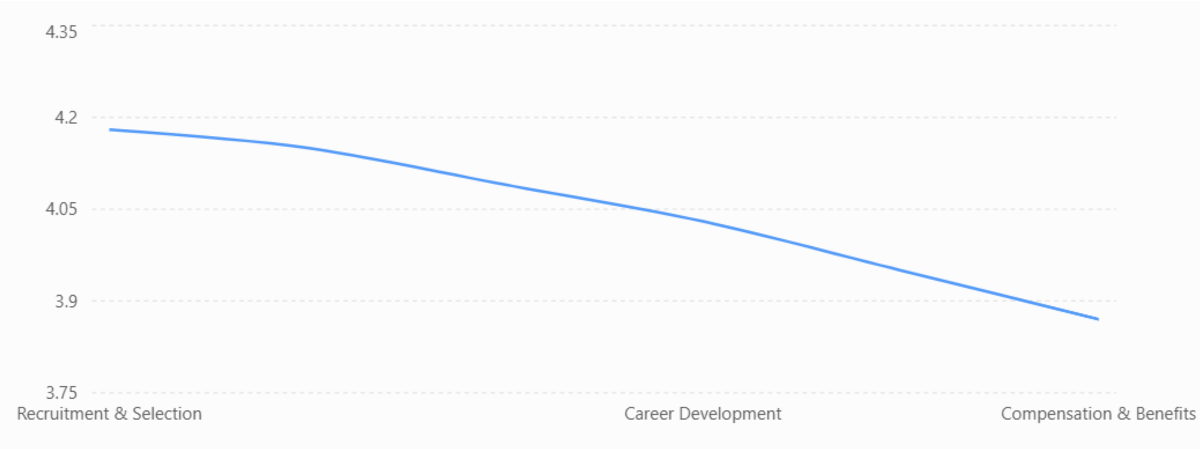

Figure 1. Mean Scores of Human Resource Management Practices

4. CONCLUSION

This research examined the influence of Human Resource Management (HRM) practices on employee retention during turbulent situations in the Information Technology (IT) industry. The findings demonstrate that effective HRM practices play a significant role in strengthening employee retention by enhancing job satisfaction, organizational commitment, and workforce stability during periods of uncertainty. The descriptive analysis revealed that respondents generally held positive perceptions of the HRM practices implemented by their organizations, with all dimensions recording high mean scores. Among the HRM practices, Recruitment and Selection emerged as the highest-rated factor, followed by Employee Engagement and Training and Development, indicating that these practices are perceived as the most important contributors to employee retention. Although Compensation and Benefits received the lowest mean score among the six HRM dimensions, it still reflected a positive perception, suggesting that organizations should further strengthen their reward and recognition systems to improve employee retention [21].

The study highlights that a comprehensive HRM strategy, incorporating effective recruitment, continuous learning opportunities, transparent performance management, competitive compensation, employee engagement initiatives, and career development programs, is essential for retaining skilled employees in the highly competitive IT industry. During turbulent situations such as economic uncertainty, technological disruptions, organizational restructuring, and changing work environments, employees seek stability, professional growth, organizational support, and fair employment practices[22]. Organizations that successfully address these expectations are more likely to retain talented employees and maintain operational resilience.

The findings of this study provide valuable practical implications for HR managers, organizational leaders, and policymakers. Organizations should adopt integrated HRM practices that not only improve employee performance but also foster trust, motivation, and long-term commitment.[23] Investment in employee development, engagement, and career progression can strengthen organizational resilience while reducing voluntary turnover and the costs associated with employee replacement.

Despite its contributions, the study has certain limitations. The research was conducted among employees in the IT industry using a cross-sectional survey design and convenience sampling, which may limit the generalizability of the findings to other industries or geographical regions. Future research may employ longitudinal research designs, probability sampling techniques, and comparative analyses across different sectors to provide broader insights into employee retention. Additionally, future studies may incorporate mediating or moderating variables such as organizational culture, leadership style, work-life balance, psychological well-being, and remote work practices to further understand the relationship between HRM practices and employee retention during turbulent situations. The study concludes that strategic Human Resource Management practices are fundamental to enhancing employee retention and organizational [29] sustainability in the IT industry. Organizations that prioritize employee-focused HRM initiatives will be better positioned to navigate turbulent situations, maintain a committed workforce, and achieve long-term competitive advantage in an increasingly dynamic business environment.

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