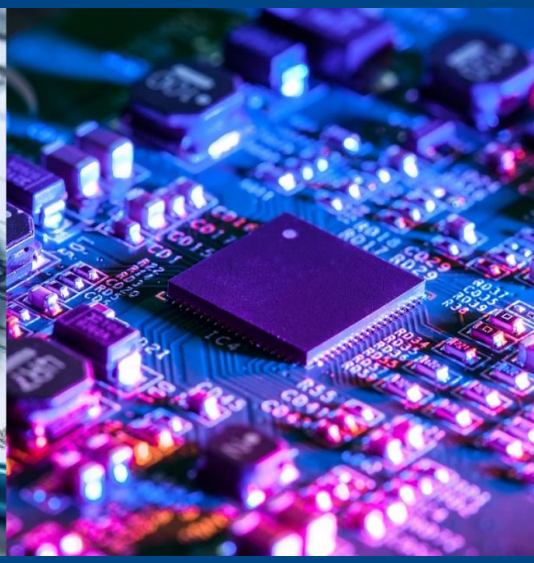
ISSN: 2582-7219





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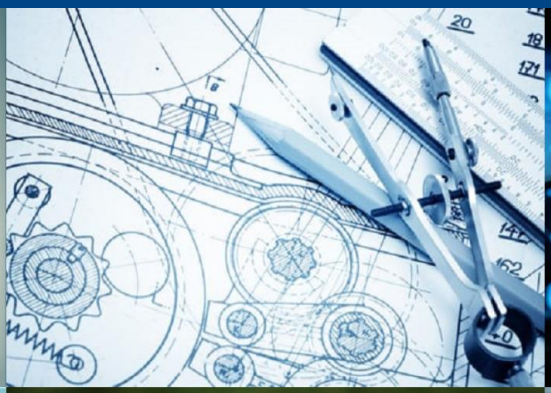

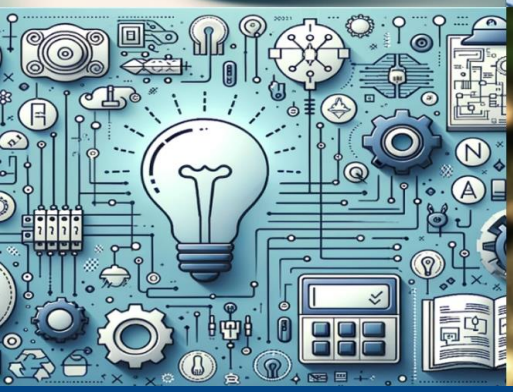

Impact Factor: 8.206 **Volume 9, Issue 3, March 2026**

© 2026 IJMRSET | Volume 9, Issue 3, March 2026| DOI:10.15680/IJMRSET.2026.0903083

ISSN: 2582-7219 | www.ijmrset.com | Impact Factor: 8.206| ESTD Year: 2018|

International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

Adoption of Monitoring Systems and Their Psychological Impact on Employees in Hybrid Work Culture

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ABSTRACT: The rapid growth of hybrid work culture has led organizations to increasingly adopt digital monitoring systems to manage employee performance and accountability. While these systems offer operational benefits, they raise significant concerns regarding employee psychological well-being. This study examines the adoption of digital monitoring systems and their psychological impact on employees working in hybrid work environments. Primary data was collected from 94 respondents using a structured questionnaire. Percentage analysis, rank analysis, and the Chi-square test were employed as statistical tools. The findings reveal that digital monitoring significantly influences stress, anxiety, autonomy, trust, motivation, and job satisfaction among employees. Chi-square results confirmed no significant difference in psychological responses across demographic groups such as gender, age, education, mode of work, and income level. The study highlights that transparent and ethically implemented monitoring practices can reduce negative psychological outcomes and foster a healthier hybrid work culture.

KEYWORDS: Digital Monitoring, Hybrid Work Culture, Psychological Impact, Employee Well-being, Workplace Surveillance, Autonomy, Trust, Job Satisfaction.

I. INTRODUCTION

The nature of work has undergone a significant transformation in recent years, particularly with the widespread adoption of hybrid work culture. Hybrid work refers to a flexible arrangement where employees divide their time between remote and on-site work. This model has gained prominence due to advancements in digital technology, changing employee expectations, and organizational efforts to enhance flexibility and productivity. While hybrid work offers advantages such as reduced commuting time and improved work-life balance, it also presents unique challenges related to supervision, coordination, and performance management.

To address these challenges, organizations have increasingly adopted digital monitoring systems to oversee employee activities. These include time-tracking software, activity logging tools, screen monitoring, performance analytics, attendance tracking, and communication surveillance. From a managerial perspective, monitoring systems serve as an important mechanism to maintain control and visibility when employees are not physically present.

However, the adoption of monitoring systems has raised significant concerns regarding employee privacy, autonomy, trust, and psychological well-being. Continuous or intrusive monitoring can lead employees to feel constantly observed, resulting in heightened stress, anxiety, emotional exhaustion, and reduced job satisfaction. Despite the growing reliance on monitoring technologies, there remains a lack of comprehensive understanding regarding their psychological impact on employees in hybrid work culture. This study seeks to explore this gap and provide insights that can help organizations balance the need for control with the importance of employee well-being.

ISSN: 2582-7219 | www.ijmrset.com | Impact Factor: 8.206| ESTD Year: 2018|

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II. OBJECTIVES OF THE STUDY

- To measure how employees understand and interpret the purpose and functioning of monitoring systems in a hybrid work environment.
- To examine the relationship between monitoring systems and employees' psychological stress and anxiety levels.
- To analyse how digital monitoring influences employees' sense of autonomy and trust in the organization.
- To evaluate the impact of monitoring systems on employee motivation and job satisfaction within hybrid work settings.
- To determine whether the intensity of monitoring affects employees' long-term behavioural outcomes such as disengagement, resistance, or compliance.

III. REVIEW OF LITERATURE

A substantial body of research has examined the effects of digital monitoring on employee psychology. Andrade et al. (2025) found that electronic monitoring significantly reduces remote workers' psychological safety, though transparent communication and employee access to monitoring data improve trust. Atrian and Ghobbeh (2023) demonstrated that excessive digital tracking increases technostress, anxiety, fatigue, and emotional exhaustion, resulting in reduced job satisfaction. Ball and Sostero (2021) concluded that electronic monitoring is associated with stress, reduced autonomy, and lower job satisfaction, particularly when perceived as intrusive.

Glavin et al. (2024) found that increased workplace surveillance leads to higher psychological distress and reduced autonomy, with stronger negative effects observed among hybrid workers. Siegel et al. (2022), in a meta-analysis, confirmed that electronic monitoring slightly improves performance but significantly increases stress and reduces job satisfaction, with effects more pronounced in remote and hybrid settings. Sbalzer et al. (2024) highlighted that transparent and participative monitoring enhances trust and psychological safety, while covert surveillance intensifies fear and anxiety.

Mateen et al. (2025) noted that productivity monitoring tools increase stress and reduce motivation when used excessively, and that employees prefer outcome-based over process-based evaluation. Rieder et al. (2025) found that poor alignment between employee privacy expectations and monitoring practices leads to emotional exhaustion, while privacy-sensitive monitoring enhances trust. These studies collectively indicate that the psychological effects of monitoring are strongly moderated by factors of transparency, fairness, and purpose clarity.

Literature Gap

Most previous studies focus on office-based or fully remote work, with limited attention to hybrid work culture where employees alternate between home and office. Existing research tends to concentrate on single outcomes such as stress or job satisfaction rather than examining multiple factors—autonomy, trust, motivation, and work-life balance—together. There is also limited focus on how transparency, fairness, and communication during monitoring adoption influence employee perceptions. This study addresses these gaps by adopting a comprehensive, context-specific approach to hybrid work environments.

IV. RESEARCH METHODOLOGY

The study adopts a descriptive and analytical research design to examine the psychological impact of digital monitoring systems in hybrid work culture.

Parameter	Details
Area of Study	Hybrid Work Environments
Sample Size	94 Respondents
Sampling Technique	Convenience Sampling (Non-Probability)
Data Source	Primary data via structured questionnaire

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Statistical Tools	Percentage Analysis, Rank Analysis, Chi-square Test
Software Used	SPSS and Microsoft Excel

The questionnaire captured demographic variables (age, gender, education, work mode, income) and psychological factors including stress, anxiety, autonomy, trust, motivation, and engagement. All responses were coded and analysed using appropriate statistical tools.

V. RESULTS AND DISCUSSION

5.1 Demographic Profile

Variable	Category	Frequency	Percentage (%)
Gender	Male	54	57.45
	Female	40	42.55
Age Group	21–30 years	45	47.87
	31–40 years	33	35.11
	41–50 years	15	15.96
Education	Undergraduate	54	57.45
	Postgraduate	38	40.43
Mode of Work	Hybrid	35	37.23
	On-site	30	31.91
	Work from Home	29	30.85
Monthly Income	₹35,001–₹50,000	32	34.04
	₹50,001–₹75,000	28	29.79

Table 1: Demographic Profile of Respondents

The sample comprised 57.45% male and 42.55% female respondents. The dominant age group was 21–30 years (47.87%), reflecting the prevalence of young professionals in hybrid work culture. A majority (57.45%) were undergraduates, and 37.23% followed a hybrid work model, with fairly balanced representation across all three work modes.

5.2 Awareness and Understanding of Monitoring Systems

The study found that 96.81% of respondents understood the purpose of monitoring systems, with 55.32% understanding it fairly well and 41.49% very well. Similarly, 91.49% understood how monitoring systems work. A large proportion (93.62%) received either complete or partial training on monitoring systems, and 90.43% perceived their organization as moderately to highly transparent about monitoring practices. These results indicate a reasonably well-informed workforce.

5.3 Psychological Impact: Stress and Anxiety

Statement	Key Response	Percentage (%)
Digital monitoring increases stress	Slightly increases	58.51
	Greatly increases	31.91
Feel anxious due to continuous tracking	Often	41.49

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	Always	40.43
Monitoring creates fear of negative evaluation	Agree	61.70
	Strongly Agree	29.79
Monitoring affects emotional well-being	Definitely Yes	71.28
Difficulty relaxing due to monitoring pressure	Always	42.55

Table 2: Psychological Impact – Stress and Anxiety

The findings reveal a strong psychological burden caused by digital monitoring. Over 90% of respondents reported some level of stress due to monitoring, and approximately 81% felt anxious always or often. About 91% agreed that monitoring creates fear of negative evaluation, while 71.28% confirmed that monitoring affects their emotional well-being at work. These findings align with the literature indicating that surveillance increases psychological distress and emotional exhaustion.

5.4 Autonomy, Trust and Sense of Control

The study found that 86% of respondents agreed that monitoring reduces their autonomy in performing job tasks. Over 80% strongly felt that digital monitoring affected their sense of trust from the organization. A significant 84.04% reported feeling micromanaged always or frequently, and 90.43% indicated that monitoring affected their freedom to make decisions at work. These findings confirm that monitoring substantially reduces employees' perceived control and organizational trust.

5.5 Motivation and Job Satisfaction

Regarding motivation, 59.57% of respondents reported that digital monitoring slightly decreases their motivation, while 31.91% reported a high decrease. Paradoxically, 44.68% stated that being monitored always makes them put more effort into work, and 53.19% reported moderate improvement in work performance due to monitoring. While 56.38% felt valued by monitoring, 40.43% remained neutral. This dual nature of monitoring—acting both as a motivator through performance pressure and a demotivator through reduced intrinsic drive—is consistent with prior research.

5.6 Privacy Concerns and Long-term Engagement

A high 86.17% of respondents expressed concern or strong concern about privacy due to digital monitoring. When asked about the impact of increased monitoring intensity, 89.36% indicated that their overall work engagement would decrease. However, 82.98% agreed that monitoring encourages compliance with organizational rules. These findings suggest a trade-off between compliance gains and long-term disengagement when monitoring becomes excessive.

VI. RANK ANALYSIS

Purpose of Monitoring	Weighted Score	Rank
Security and Compliance	216	1 (Highest)
Performance Evaluation	187	2
Employee Control	168	3
Productivity Improvement	132	4 (Lowest)

Table 3: Rank Analysis – Primary Purpose of Monitoring

Employees primarily viewed security and compliance as the main purpose of monitoring, followed by performance evaluation and employee control. Productivity improvement was ranked last, suggesting employees do not associate monitoring primarily with productivity gains.

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Outcome Influenced by Monitoring	Weighted Score	Rank
Commitment to the Organisation	305	1 (Highest)
Work-Life Balance	276	2
Job Satisfaction	256	3
Sense of Achievement	203	4
Work Motivation	201	5 (Lowest)

Table 4: Rank Analysis – Outcomes Influenced by Monitoring

Organizational commitment was ranked as the outcome most influenced by monitoring, followed by work-life balance and job satisfaction. Work motivation was ranked lowest, indicating that monitoring has relatively less positive influence on intrinsic drive.

VII. CHI-SQUARE TEST RESULTS

Hypothesis	χ^2 Value	Table Value	Result
Gender vs. Understanding of Monitoring	0.624	7.815	H_0 Accepted
Age Group vs. Stress from Monitoring	0.097	16.919	H_0 Accepted
Education vs. Training Awareness	0.990	12.592	H_0 Accepted
Mode of Work vs. Perceived Autonomy	0.998	15.507	H_0 Accepted
Monthly Income vs. Emotional Impact	0.998	21.026	H_0 Accepted

Table 5: Chi-Square Test Results at 5% Significance Level

All null hypotheses were accepted, confirming that psychological responses to digital monitoring do not differ significantly across demographic groups. This indicates that the psychological impact of monitoring is a universal experience among employees, regardless of gender, age, education level, work mode, or income.

VIII. KEY FINDINGS

- A large majority (90.4%) of respondents reported that digital monitoring increases their stress levels to varying degrees.
- Approximately 81% of employees felt anxious always or often due to continuous monitoring and activity tracking.
- About 91% of respondents agreed that monitoring creates a fear of being judged or evaluated negatively.
- Digital monitoring significantly impacts emotional well-being for 71.28% of respondents.
- Over 86% agreed that monitoring reduces their sense of autonomy in performing work tasks.
- More than 80% reported that monitoring strongly or very strongly affects their sense of trust in the organization.
- Security and compliance was ranked as the primary perceived purpose of monitoring (Rank 1), while productivity improvement was ranked least important.
- Organizational commitment was most influenced by monitoring (Rank 1 with weighted score 305), while work motivation was least affected.
- Chi-square analysis confirmed that psychological impact does not significantly vary across demographic variables.
- Despite negative impacts, 83% agreed that monitoring encourages compliance with organizational rules.

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IX. SUGGESTIONS

- Organizations should clearly communicate the purpose and scope of monitoring systems to employees to reduce anxiety and misunderstanding.
- Monitoring should prioritize outcomes and results rather than continuous activity tracking, to preserve employee autonomy.
- Employee privacy must be respected, especially in home-based settings, by limiting invasive monitoring practices.
- Monitoring data should be used for guidance and support rather than punitive measures, fostering a positive work environment.
- Employees should be given opportunities to provide feedback on monitoring practices to increase acceptance and reduce resistance.
- Organizations should provide mental health support and flexible policies to mitigate the psychological stress associated with monitoring.
- Monitoring policies should be reviewed periodically to ensure they remain fair, balanced, and aligned with evolving hybrid work conditions.

X. CONCLUSION

This study examined the adoption of digital monitoring systems and their psychological impact on employees in hybrid work culture. The findings reveal a clear and consistent pattern: while monitoring systems serve important organizational functions such as ensuring security, compliance, and performance accountability, they simultaneously create significant psychological pressure on employees. Stress, anxiety, reduced autonomy, and impaired trust are the dominant effects experienced by most employees regardless of their demographic background.

The rank analysis further confirmed that employees perceive monitoring primarily as a tool for security and compliance rather than productivity enhancement. Crucially, the chi-square results established that these psychological responses are universally distributed across all demographic groups, underscoring the pervasive and non-discriminatory nature of the impact.

The study concludes that digital monitoring in hybrid work culture can be effective and ethical when implemented transparently, communicated clearly, and designed with employee well-being in mind. Organizations that balance accountability with trust and autonomy are better positioned to sustain productive, psychologically healthy hybrid work environments.

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