**Impact of e-HRM Practices on IT Professionals in the Information Technology Industry**

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**ABSTRACT**

In the knowledge economy, current top-level leaders fully realize the superior power of information technology sector-related best practices for quickly reaching business-related targets. The operation of IT systems helps not only to fulfill the defined company’s goals but also to optimize the work processes at a particular time. Trends and results of the present contemporary scenario constantly confirm the involvement of IT practices in the human resources management area. The source of designated HR duties using IT capabilities for the betterment of the organization and takes the form of e-HRM. The e-HRM revolution depends on cutting-edge information technology, extending from internet-enabled human resources information systems to company intranets and portals. The driving forces are increasing competition, the need to manage employees on a worldwide level, increasing HR service delivery, and cost savings. The potential of IT usage in the HR-related field for measuring and tracking human capital, especially employee performance, with the help of the HR information system generally With the Corona virus (COVID-19) epidemic, the world has been forced to become electronic and digitized, and it is far more significant to keep track of advancements in the knowledge of employees and management through the practices of "e-HRM."

**Keywords:** Human resource management, e-HRM, information technology, IT professionals, IT industry

1. **INTRODUCTION**

In recent decades, society as a whole has undergone rapid and profound changes due to the great advances made in technology and which have subsequently spread to all sectors. The "digital era" is the name given to the contemporary era as a result of these advancements. Human resources management and its needs have become the center of consideration of every individual employer in each organization. The positioning of the organization on human resources starts to be one of the important everyday jobs of strategic human resource management practices have an essential element in all strategic decision making. HRM includes various activities such as recruiting, training, developing, and rewarding employees in the IT organization. In a completive world IT professionals are required training and self service, benefits. This will help for the personal and professional development of the organization's personnel through HRM perspective. It has been conventionally proved that Information and Communication Technology (ICT) such as the internet, mobile communication, new media, etc. The implementation of the organization's personnel policies can be considerably aided by HR. The HR department of an organization may be significantly impacted by technological advancement. It gives the business the chance to enhance its internal operations, core competencies, target markets, and organizational design as a whole.

The organization's strategic goals must be the main emphasis of human resources. These plans must be integrated into an overall IT strategy plan for the organization. These are tasks associated with any improvement in the entity's technological systems, including product design research and development and IT systems. Technology development, which might involve learned knowledge, is a crucial business innovation process activity. All efforts in this context may have some technical content and lead to more technological development. IT may have a greater impact on organizations that exist in a dynamic environment. Human resources will become more effective and efficient as a result. Hence, utilizing IT applications for database management and advanced recruitment systems will increase the efficiency of the business. The influence of fast structural variations in India observed the evolution and expansion of technological sophistication. Indian companies needed to cope with the extremely diverse workforce into well-skilled, inspired& competent employees with there- retaining and multi-skilling problems, workforce reduction policies, retention, and career development. HRM and IT can meet the challenge of concurrently becoming more strategic, flexible, cost-efficient, and customer-oriented by leveraging information technology.

1. **HRM PRACTICES IN THE INFORMATION TECHNOLOGY INDUSTRY**

Since competent employees or workers are the source of capitalistic competitive advantage, the strategic human resources are the backbone of the IT related business industry like business process outsourcing. Because it employees cutting-edge work culture practices that set it apart from other industries, like virtual offices and virtual migration, the IT industry is thought to be the most dynamic by nature. However, a high turnover rate, a lack of job satisfaction, employee job hopping, flexibility, and individualization are all common business happenings and a major source of concern for IT organizations. The methods used for human resource management in Indian IT sectors, such as hiring people and developing human resources, are very different from those used in manufacturing and other service sectors.

1. **E-HRM AND INFORMATION TECHNOLOGY PROFESSIONAL**

Electronic Human Resource Management activities have a major impact on information technology professionals in the IT industry. Here are some key ways e-HRM practices affect IT professionals:

1. **Efficient Recruitment:** e-HRM enables faster and more efficient recruitment processes, allowing IT professionals to find job opportunities quickly and reducing the time to hire for organizations.
2. **Skill Development:** e-HRM systems often provide access to online training and development resources helping IT professionals stay updated with the latest technologies and trends in the industry.
3. **Performance Evaluation:** IT professionals benefit from automated performance appraisal systems, which provide real-time feedback and help identify areas for improvement, ultimately enhancing their career growth.
4. **Flexible work arrangements:** e-HRM supports remote work arrangements, which are common in the IT industry, allowing IT professionals to work from anywhere and maintain a better work-life balance.
5. **Competitive Compensation:** e-HRM tools assist in managing competitive compensation packages for IT professionals, including bonuses, stock options, and other incentives, helping organizations attract and retain top talents.
6. **Data-Driven Decisions:** e-HRM analytics help organizations make data-driven decisions about workforce planning, skill development, and talent acquisitions, which benefits IT professionals by aligning their skills with organizational needs.
7. **Self-Services Options:** IT professionals can access their HR-related information, such as pay stubs, benefits, and leave requests, through self-service portals, providing them with greater control and convenience.
8. **Career Advancement:** E-HRM systems often include tools for career planning and development, helping IT professionals set clear career goals and access the resources needed to achieve them.
9. **Compliance and Security:** E-HRM practices ensure that IT professionals are aware of and comply with industry regulations and security policies, reducing risks associated with data breaches and legal issues.
10. **Improved Communications:** e-HRM facilitates communication between IT professionals and HR, ensuring that they are informed about company policies, changes, and opportunities for growth within the organization.
11. **NEW ROLE OF INFORMATION TECHNOLOGY PROFESSIONALS IN HRM**

IT professionals in HRM play a critical role in modern organizations. Here are some key responsibilities and contributions they may have:

1. **HR Software Management:** IT professionals are responsible for selecting, implementing, and maintaining HR software systems, including HRIS, Applicant Tracking Systems (ATS), and payroll software. They ensure these systems are efficient and compliant.
2. **Data Analytics:** They use data analytics tools to analyze HR data, providing valuable insights for decision-making. This includes analyzing employee performance, turnover rates, and compensation trends.
3. **Cybersecurity:** Protecting sensitive HR data is paramount. IT professionals work on safeguarding HR data from security breaches and ensuring compliance with data protection regulations like GDPR or HIPAA.
4. **Automation and Artificial Intelligence:** Implementing automation and AI tools in the HR process can streamline tasks like resume screening, onboarding, and benefits administration. IT professionals are key to integrating these technologies effectively.
5. **Employee Self-Service Portals:** They design and maintain employee self-service portals, enabling human resources to right of entry HR-related data information, submit related requests, and bring up-to-date individual details.
6. **Integration:** Integrating HR systems with other departments like Finance for payroll is essential. IT professionals ensure seamless data flow between systems.
7. **Training and Assistance Support:** On condition that training and technical support to HR staff is crucial. IT professionals help HR teams maximize the benefits of technology.
8. **Compliance:** Staying up-to-date with labour laws and regulations is vital. IT professionals assist in creating and maintaining HR Processes that comply with legal requirements.
9. **Data Security and Privacy:** Ensuring data security and privacy is a top priority. IT professionals help HR in implementing security measures, access controls, and encryption.
10. **Scalability:** As organizations grow, HR processes must scale accordingly. IT professionals help in designing and implementing systems that can accommodate this growth.
11. **Cloud Adoption:** Many organizations are migrating HR systems to the cloud. IT professionals manage this transition and ensure that cloud-based systems are secure and reliable.
12. **Reporting and Dashboards:** Crating customized reports and dashboards for HR managers and executives is another critical function. This helps in monitoring HR Key Performance Indicators and making informed decisions.

IT professionals in HRM bridge the gap between technology and human resources, ensuring that HR processes are efficient, compliant, and data-driven. Their expertise is crucial in modernizing and optimizing HR Functions within organizations.

1. **INFORMATION TECHNOLOGY'S IMPACT ON HRM FUNCTIONS**

Economic marketplaces, data transmission, and communication all face the challenge of not obtaining a significant portion of global advantages in the current era of information technology. This is "Alvin Toffler's third" signal in a global culture. Computer and information system technologies are widely used by organizations nowadays to discuss anything at any time. The Internet and information technology are highly remarkable in conditions of organizational learning, the most effective communication among workers, an outstanding organizational learning process, and the availability of knowledge anywhere and at any time. Managers could do with it in order to put their skills to work in their organizations as well as to decrease their weaknesses and further aspects in a well-timed manner. Information technologies have gradually distorted the organization, mostly in human resources.

1. **INFORMATION TECHNOLOGY INDUSTRIES IN INDIA**

IT is the well creation, systematic processing, data storage, safe transmission, and exchange of all multiple types of electronic data using computers, networking, and additional physical devices. Software and services, technology hardware and equipment, and semiconductors and semiconductor equipment are the three primary industry groups that make up the IT sector. The industries and sub-industries that make up these three industry categories are further broken down. The IT and BPM sector has emerged as one of India's key economic drivers and has a significant impact on the country's GDP and prosperity. In FY22, the IT sector contributed 7.4% to India's GDP, and by 2025; it is expected to account for 10% of India's GDP. Cutting-edge digital applications are transforming one industry after another, and India is now ready for the next stage of its IT revolution. With 76 million people now connected to the internet, India is considered the country with the largest internet user base and the cheapest internet prices in the rest of the world. Thanks to strong digital infrastructure and improved digital access through the Digital India program, the current focus is on developing significant economic value and empowering citizens. India is one of the countries with the highest digital adoption rate. This has been achieved through a combination of government initiatives, private sector innovation and investment, and new digital apps that are already enhancing and penetrating a variety of activities and diverse workforce sectors, positively improving citizens' daily lives. India's ranking in the 2022 edition of the Global Innovation Index (GII) improved by six places to reach 40th place. India is the world's most popular offshore location for IT companies. The industry is expected to be worth $19.93 billion by 2025. The Indian IT industry has some of the following advantages:

* Highly skilled human resource;
* Low wage structure;
* Quality of work;
* Initiatives taken by the Government (setting up Hi-Tech Parks and
* Implementation of e-governance projects);
* Many global players have setup operations in India like Microsoft, Oracle, Adobe, etc.;
* English-speaking professionals;
* Cost competitiveness;
* Quality telecommunications infrastructure.
1. **RECENT DEVELOPMENTS IN INFORMATION TECHNOLOGY INDUSTRY IN INDIA**

India’s IT industry continued to be a major player in the global market, with a focus on software development, IT services, and outsourcing. Trends at that time included increased adoption of cloud computing, artificial intelligence, and digital transformation services. The key in competencies and distinctiveness of Indian IT has attracted significant investments from major nations and companies.

* The AWS Asia Pacific (Hyderabad) Zone, the second AWS infrastructure zone launched in India, was announced by Amazon Web Services in November 2022.
* The region is expected to support more than 48,000 full-time jobs by 2030 due to investments in India of more than $4.4 billion annually.
* Through its Google Cloud subsidiary, Google partnered with regional gaming company SuperGaming in November 2022.
* The collaboration will make SuperGaming's SuperPlatform gaming engine available to game creators who build, host, and distribute their games on Google Cloud.
* PwC India announced plans to hire 10,000 experts in the cloud and digital technology business over the next five years in August 2022.
* As of October 2022, PE/VC investments in the technology sector reached $157 million over 12 transactions.
* From April 2000 to June 2022, the Indian computer software and hardware industry recorded cumulative Foreign Direct Investment (FDI) inflows totaling $88.94 billion.
* The industry ranks second in terms of FDI inflows, according to the Department for Promotion of Industry and Internal Trade (DPIIT).
* Computer hardware and software account for 14.70% of total foreign direct investment.
* ZStack International, a global pioneer in cloud computing, IaaS, and PaaS technologies, announced plans to expand into India and the SAARC region in June 2022.
* To promote the adoption of cloud computing in India, Redington India, an IT services provider, and Amazon Web Services (AWS) entered into a multi-year strategic partnership in June 2022.
* Experian, an American-Irish consumer credit reporting firm, intends to considerably expand its Global Innovation Centre (GIC) in Hyderabad over the next three to five years, employing approximately 4,000 new people.
* PE investments totaled $23.4 billion in the IT industry.
* Wipro and TEOCO joined in November 2021 to boost network automation, efficiency, flexibility, and dependability for Communications Service Providers (CSPs)
* In August 2021, Tata Consultancy Services (TCS) was awarded a leader in the NelsonHall NEAT for Customer Experience Services in Banking, Financial Services, and Insurance (BFSI).

**Conclusion**

In the ever-evolving IT industry, e-HRM continues as well, adapting to new technologies and trends to meet the unique demands of IT professionals. It remains a critical tool for HR departments to attract, develop, and retain the talent necessary for success in this dynamic field. By streamlining HR procedures, encouraging skill development, and offering opportunities for career advancement, e-HRM tools have a positive impact on IT professionals in the IT sector. They are essential for luring top IT talent and maintaining the workforce's agility and competitiveness in a rapidly changing industry. As a result of globalization, it is necessary to consider how IT can support the execution of business or industry strategy in the context of human resources management in order to guide the company towards quality and boost market competitiveness. Although the questionnaire's outcome indicated that the purpose of information technology only slightly supports achieving HR goals, a carefully planned implementation of an HRIS can greatly aid HR strategy in a firm in order to meet specified key performance indicators (KPI). The initiative's major focus should be on what requests are skillful, namely how the IT solutions can assist KPIs and what kinds of HR procedures they should support. HR professionals must know about the process of hiring employees and train to use the latest technologies in order to meet these objectives. Employees should increase their technological proficiency in order to compete for jobs in an increasingly advanced, technologically dependent society.

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**References**

1. Alok. Mishra, Ibrahim. Akman, (2010). Information Technology in Human Resource Management: An Empirical Assessment, *Public Personnel Management,* 39(3):271-290. DOI: 10.1177/009102601003900306
2. Bondarouk, Tanya V., and Huub JM Ruël. (2009). "Electronic Human Resource Management: Challenges in the Digital Era." *The International Journal of Human Resource Management,* 20, no. 3:505-514. <https://doi.org/10.1080/09585190802707235>
3. Bondarouk, Tanya, and Chris Brewster. (2016). "Conceptualising the Future of HRM and Technology Research." *The International Journal of Human Resource Management,* 27(21):2652-2671. https://doi.org/10.1080/09585192.2016.1232296
4. Bondarouk, Tanya, Emma Parry, and Elfi Furtmueller. (2017). "Electronic HRM: Four Decades of Research on Adoption and Consequences." *The International Journal of Human Resource Management*, 28(1): 98-131.

https://doi.org/10.1080/09585192.2016.1245672

1. Ganeshan, M. K., & Vethirajan, C. (2020). Electronic Human Resource Management Practices and Employee’s Perception towards Information Technology. *International Journal of Scientific and Technology Research*, 9(3), 86-90
2. Gardner, S.D., Lepak, D.P., and Bartol, K.M. (2003).Virtual HR: The Impact of Information Technology on the Human Resources Professional, *Journal of Vocational Behavior*, 63(2):159-179.
3. Selvan, V (2015). “Study on the Role of Technology in Human Resource Management”. *International Journal of Applied Research*, 1(7):472-475
4. Seyni. Mamoudou, Joshi. G.P, (2014), Impact of Information Technology in Human Resources Management, *Global Journal of Business Management and Information Technology,* 4(1):33-41, ISSN 2278-3679
5. Snell, S. A., Stueber, D. and Lepak, D. P. (2002). Virtual HR Departments: Getting out of the Middle. In R. L. Heneman and D. B. Greenberger (Eds.), Human Resource Management in virtual organizations, Information Age Publishing.
6. Venkata Ratnam, C. S. (1998). Multinational Companies in India. *The International Journal of Human Resource Management*, 9(4):567-589.
7. <https://www.ibef.org/industry/information-technology-india>.