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## The Effects of Remote Work on Productivity and Well-Being among IT Professionals in Chennai: A Biological Sciences Perspective

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### ABSTRACT:

The advent of remote work has brought about a significant shift in the ways that individuals and organizations approach of work. Many studies were conducted on the various ways in which working from home impacts productivity and job satisfaction. The benefits and drawbacks of working from home, shedding light on the intricate relationship between workers' well-being, productivity, and schedules were also studied. With the basic understanding of all the above research studies, the research on remote work and its productivity among IT professionals is analyzed. The act of completing professional activities outside of a traditional office environment is known as remote work, and it has gained popularity due to advancements in technology and the evolving nature of the modern workplace. Given the wide-ranging implications of this change in the workplace, the goal of this study is to elucidate how remote work affects worker productivity and well-being.

**Keywords:** Remote Work, Employee Productivity, Well-being.

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## **1. Introduction**

The growing acceptance of remote work in recent years has radically reshaped the conventional models of employment, resulting in a new work landscape. This introduction sets the stage for an exploration of the complex influence of remote work on employee productivity and well-being. It recognizes the dramatic changes in work arrangements and aims to illuminate the complex interplay between distant work, individual performance, and employees' well-being. Work that can be done from home, or remotely, rather than in an office setting, has become increasingly common. Innovations in technology, shifts in how people work together, and widespread acceptance of the value of flexible schedules are all factors in this uptick. The effects of telecommuting on productivity and morale, acknowledging that the change in work culture has far-reaching consequences for everyone involved. Productivity in the context of remote work is a major future concern.

The ability to work remotely has the potential to reduce the stress of commuting by giving workers more freedom and independence. Employees are given more control over their workspaces, which may lead to improved focus and productivity.

However, there are also some drawbacks to working remotely, such as experiencing solitude, being easily distracted in a home environment, and having difficulty distinguishing between work and personal life. This study sets out to investigate the variables that affect output when workers are separated physically and mentally and to pinpoint methods for enhancing production. Workers' mental, physical, and emotional health all contribute to their well-being, which is equally important. Remote work has the ability to lessen the stress associated with commuting, allowing for a more harmonious work-life balance. However, it can also perpetuate a always-on mentality that blurs the line between work and home life, leading to feelings of isolation and detachment from coworkers. This study explores the factors that influence remote workers' happiness and provides recommendations for creating a positive workplace for everyone. Examples and real-world case studies of companies that have successfully used remote work to boost productivity and employee satisfaction.

These examples highlight how remote work has the ability to improve work-life balance, boost job satisfaction, and reduce employee turnover. There are several factors to consider when assessing the effects of remote work on productivity and morale. Although remote work can improve work-life balance and provide greater flexibility, it also brings problems that can have an impact on productivity and morale. To help individuals, companies, and policymakers better navigate the modern labor market, this study seeks to provide a comprehensive knowledge of the complex relationship between distant work, productivity, and well-being. A sophisticated understanding of the ramifications of remote work is becoming increasingly important in maintaining a productive and thriving workforce as it continues to impact the future of employment.

### **Factors Influencing Remote Work Productivity**

With the introduction of remote work, the traditional office setting has drastically transformed as employees can now perform their tasks from anywhere in the world. Even if remote work has numerous advantages, there are a number of factors that can influence its productivity. This section looks at the organizational, environmental, and human aspects that influence the productivity of remote workers.

- Reliability and stability in technology are prerequisites for success in remote work. It is necessary to have access to modern technology, such as the internet, VPNs, and other software and hardware updates, in order to communicate and do activities swiftly and effectively.
- Online Resources for Teamwork: The effectiveness and accessibility of digital tools and collaboration platforms, such as document-sharing websites, project management software, and video conferencing, are critical to the success of remote teams. These tools facilitate efficient collaboration, task organization, and communication amongst dispersed teams.
- Open Lines of Communication: Maintaining communication with colleagues is essential when working remotely. When they have bosses and coworkers who are supportive, clear communication routes, and a mechanism in place for regularly checking in, remote workers may be productive.
- Task Autonomy: Employees that work remotely frequently have more freedom to handle their obligations. Remote workers' engagement and productivity can be significantly impacted by the trust and autonomy granted to them. Finding a balance between flexibility and strict restrictions is crucial.
- The physical workspace of a remote worker could impact their productivity. Productivity may be greatly enhanced by a convenient, well-organized, and comfy workspace. On the other hand, discomfort and distractions might reduce productivity.
- Effective time management is essential for people who work from home. Being productive requires the ability to set priorities for your job, establish routines, and fight the temptation to put off vital chores.
- Maintaining boundaries between work and personal life might be challenging when working from home. Ensuring effective boundary management is crucial for preventing burnout and sustaining productivity.
- Companies who invest in the training and support of their remote workers will witness increased productivity from these employees. Training on cybersecurity best practices, remote work tools, and other related topics can be beneficial for staff members.
- The contribution of managers and supervisors is crucial to the success of remote teams. Managers may aid their remote staff in overcoming obstacles and maintaining productivity by providing direction, feedback, and emotional support.
- Employee motivation and productivity are influenced by their perceptions of the importance and relevance of their work. Tailoring remote work activities to individual employees' talents and interests can boost employee engagement and performance.
- The culture and values of the organization have an impact on the productivity of employees who work remotely. When results, trust, and flexibility are valued in the workplace culture, remote teams have a higher chance of success.

## 2. Literature Review

Remote work, also known as telecommuting or telework, has garnered significant attention in recent years due to advancements in technology and changing work culture. Numerous studies have examined the relationship between remote work and employee productivity, with findings indicating both positive and negative effects. While remote work can reduce commuting time and workplace distractions, it may also lead to decreased communication and collaboration among team members (Bloom et al., 2015; Gajendran & Harrison, 2007). Moreover, the blurring of

boundaries between work and personal life in remote settings can result in longer working hours and burnout (Golden et al., 2006). Similarly, the impact of remote work on employee well-being is a topic of growing interest. While remote work offers benefits such as reduced stress from commuting and improved work-life balance, it also presents challenges such as social isolation and difficulty unplugging from work (Allen et al., 2015; Sardeshmukh et al., 2012). Understanding the factors influencing productivity and well-being in remote work settings is essential for organizations seeking to implement effective remote work policies.

### **Problem Statement**

With the widespread adoption of remote work arrangements, organizations are increasingly interested in understanding how this shift affects employee productivity and well-being. While remote work offers opportunities for flexibility and autonomy, it also presents challenges such as communication barriers, social isolation, and blurred work-life boundaries. Addressing these challenges is essential for maximizing the benefits of remote work while minimizing its potential negative impacts on employee performance and well-being.

### **Research Objective**

1. To examine the impact of remote working and its effects on productivity and work-life balance among IT professionals working in Chennai.
2. To analyze the factors influencing remote working among IT employees.

### **Scope of the study**

The scope of this study encompasses a comprehensive exploration of the impact of remote work on employee productivity and well-being within organizational settings. It will investigate the multifaceted relationship between remote work arrangements and productivity, considering factors such as technology infrastructure, communication dynamics, and task performance. Additionally, the study will delve into the effects of remote work on employee well-being, examining dimensions such as work-life balance, job satisfaction, and mental health. By addressing the challenges and opportunities associated with remote work, this study seeks to provide valuable insights for enhancing organizational effectiveness and employee success in remote work settings.

### **Limitations of the Study**

It should be noted that the research instrument was only carried out in less than a month's time. If it were not for time constraint, more respondents could have been covered to further support this study.

The study neglected the varied demographics such as employee designation, and the level of organization they were in. These could have contributed fresh perspectives/ideas to the impact of remote working.

### **Data collection**

The process of acquiring and assessing data on relevant variables in a predetermined, methodical manner to address research questions, test hypotheses, and assess results is known as data collecting. Any discipline of study, including the humanities, business, social and physical sciences, etc., has a data-gathering component. Although techniques differ depending on the field, making sure that the collection is honest and accurate always comes first.

### **Data instrument**

Any tool that helps a researcher collect the data required for the study is referred to as an instrument in research. Three instruments are frequently employed in research:

1. Questionnaire
2. The conversation
3. The examination Survey

Questionnaires the primary tool used to collect data is thought to be the questionnaire. It is made up of inquiries meant to elicit information from responders regarding a certain issue. The capacity of questionnaires to collect data from widely dispersed sources is one of its advantages. Researchers may now utilize the population of social media to obtain information on the relevant topic or topics of their subject, especially since social media is extensively used by a range of people, various organizations, and sectors.

### **Sample size**

In the study, non-probability sampling method was used and the researcher collected 230 samples for this study. Responses are from different age groups working in IT companies in Chennai.

### **Data analysis**

Data analysis compiles gathered information. It entails interpreting collected data by applying logical and analytical reasoning to identify trends, correlations, or patterns.

## **3. Results & Findings**

This part of the research presents the analyses and interpretations of data in textual, graphical, and tabular discussions.

Response Rate

Number of Distributed Questionnaires 300

Returned Questionnaires 230

Returned and Useable 230

### **Demographic Frequency Tests**

**Correlations**

**Correlations**

		Remote Work	Employee Productivity	Employee Work Lifebalance
Remote Work	Pearson Correlation	1	.036	-.102
	Sig. (2-tailed)		.583	.122
	N	230	229	229
Employee Productivity	Pearson Correlation	.036	1	-.022
	Sig. (2-tailed)	.583		.744
	N	229	229	228
Employee Work Lifebalance	Pearson Correlation	-.102	-.022	1
	Sig. (2-tailed)	.122	.744	
	N	229	228	229

```

CORRELATIONS
/VARIABLES=RemoteWork Productivity WorklifeBalance
/PRINT=TWOTAIL NOSIG
/MISSING=PAIRWISE.
    
```

**Hypotheses**

Concerning the stated problem, below are the following hypotheses that will be tested in the study:  
 H1: There is a significant relationship between remote working and employee productivity.  
 H2: There is a significant relationship between remote working and employee work-life balance.

**Correlation**

The degree to which two variables are strongly connected is expressed by correlation. The Pearson's Correlation Coefficient is a frequently used statistical tool. It gauges how strongly bivariate data are related to one another. In the case of the correlation test, "if the significance value is less than .005, this means that there is a strong link between the variables."

On the other hand, if the value is higher than .005, it indicates that no association is present. The possible values for the correlation coefficient are "-1 (strong negative relationship) and +1 (strong positive relationship)". "A relationship is weak or nonexistent when the values are 0 or very close to 0

The above table represents that there is a strong positive significant relationship between Remote Work and Productivity while the significant value for Remote work and Work-life balance is .122 means no significant relationship between Remote Work and Work-life Balance.

**Regression**

A statistical method called regression is used to explain how one independent variable relates to another dependent variable. The main focus of this study is how changes in the independent variable affect changes in the dependent variable.

Regression of Productivity and Remote work

**Model Summary<sup>b</sup>**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.036 <sup>a</sup>	.001	-.003	1.427

a. Predictors: (Constant), Remote Work

b. Dependent Variable: Employee Productivity

**ANOVA<sup>a</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.616	1	.616	.303	.583 <sup>b</sup>
	Residual	461.969	227	2.035		
	Total	462.585	228			

a. Dependent Variable: Employee Productivity

b. Predictors: (Constant), Remote Work

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95.0% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	2.800	.240		11.665	.000	2.327	3.273
	Remote Work	.037	.068	.036	.550	.583	-.097	.171

a. Dependent Variable: Employee Productivity

Regression of Work Life Balance and Remote Work

**Model Summary<sup>b</sup>**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.102 <sup>a</sup>	.010	.006	1.376

a. Predictors: (Constant), Remote Work

b. Dependent Variable: Employee Work Lifebalance

**ANOVA<sup>a</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4.554	1	4.554	2.404	.122 <sup>b</sup>
	Residual	429.962	227	1.894		
	Total	434.515	228			

a. Dependent Variable: Employee Work Lifebalance

b. Predictors: (Constant), Remote Work

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95.0% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	3.116	.232		13.457	.000	2.660	3.573
	Remote Work	-.102	.066	-.102	-1.551	.122	-.231	.028

a. Dependent Variable: Employee Work Lifebalance

Table 1 shows that there is a positive relation between remote work and employee productivity. This signifies that an increase in remote work leads to a strong positive impact on employee productivity. Table 2 shows a positive coefficient; however, the significance value was 122. This means that Remote Working does not have any significant impact/influence towards Work-life Balance.

### **Statistical findings**

1. From the Correlation analysis it is inferred that there exists a positive relationship between the remote work and its influence on Productivity and Well-being.
2. From regression analysis it is inferred that remote work have a significant influence towards productivity and well-being.

### **Suggestions**

1. Flexible Work Arrangements: Encourage employers to offer flexible work hours to accommodate different schedules and time zones, promoting work-life balance.
2. Clear Communication Guidelines: Recommend establishing clear communication channels and expectations to reduce misunderstandings and ensure alignment on tasks and goals.
3. Regular Check-ins: Advocate for regular check-in meetings between managers and team members to provide support, feedback, and address any concerns.
4. Encouragement of Breaks and Boundaries: Emphasize the importance of taking regular breaks and setting boundaries between work and personal time to prevent burnout and maintain well-being.
5. Technology Training and Support: Suggest providing training and support for employees to effectively use remote work technology tools and platforms, reducing frustration and increasing efficiency.
6. Encouragement of Social Interaction: Recommend creating opportunities for virtual social interactions, such as team building activities or virtual coffee breaks, to foster a sense of connection and camaraderie among remote team members.
7. Performance Evaluation and Recognition: Advocate for fair and transparent performance evaluation criteria for remote work and regular recognition of achievements to maintain motivation and morale.

These suggestions would create a supportive and productive remote work environment that prioritizes both employee well-being and organizational goals.

### **4. Conclusion**

The emergence of digitalization and the prevalence of globalization contributed to the way traditional work takes place. COVID-19 pandemic has also prompted the call for modification of the usual work setting. This gives rise to the need for working away from the customary workplace. Remote work, telework, hot desking, hoteling, and work from home, are manners of work through which a certain employee is able performs his/her tasks away from the main Office/business location. Remote working also brought within it benefits and challenges encountered by the employees. This study aimed to analyze the role of remote working and its effects on productivity and work-life balance of the employees in the business consultancy industry. Based on a quantitative analysis, it can be concluded that remote working has a vital role to play in the employees' productivity and work-life balance.

Majority of the employees agreed that remote working has increased their chances of accomplishing their respective tasks despite the amount of their work load each day compared their usual office environment. However, remote working was found to have no influence or impact on the work-life balance of the employees. Employees reported putting off their personal needs second to work making their personal life suffers. To sum up, numerous findings from the literature supported the positive impact of remote work on employee productivity. Meanwhile, majority of

the studies also demonstrated no significant relationship between remote working and work-life balance.

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