

**TECHNO-STRESS AMONG IT EMPLOYEES: AN EMPIRICAL STUDY**

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**ABSTRACT**

Techno Stress can be particularly difficult to deal with if you're not a bore or other kind of specialized wizard. We are engaging with our shiny, recently developed specialized widgets, and it is a frustrating experience since they are winning. Software firms have been updating all of their old interpretive technologies to pall- grounded technologies like as SAP Hana migration, Cloud CRM, in-house virtualization, and so on. Specialized professionals may encounter techno stress as a result of these technical improvements. Thus, it is vital to investigate employee perceptions of techno stress and determine the symptoms and intensity of techno stress in Tamilnadu software firms. Based on the assessment, the anguish position among employees may be managed utilizing stress relievers. Once the hand has reached the appropriate stress posture, it will be able to act optimally and increase worker productivity. The exploratory work has made use of the convenience slice system. For analysis, statistical procedures such as Karl Pearson's Correlation, Chi-square test, and One-way ANOVA Test were utilized. Many valuable and practical ideas have been given to the operation of Software firms to decrease techno stress based on numerous results.

**Key Words:** Technology, stress, Techno-stress, IT Employees

**INTRODUCTION**

Most people agree that environmental dynamics and outside events are what trigger stress. But it's important to emphasise that stress is a result of how we respond to the world around us. Depending on how we interpret and perceive changes or a specific occurrence, it may bring happiness or stress to two distinct persons, depending on how they react to it. Several students may view the need to prepare a presentation as an opportunity to showcase their skills and strengthen their areas of weakness, while other students may become anxious out of a fear of their own weaknesses. Thus, stress is our response to outside circumstances, and it can. The detrimental psychological association among humans and the adoption of latest technology is known as techno stress. Techno stress is a result of altered work and cooperation habits brought about by the operation of ultramodern information technologies at the plant and at home, whereas the study of how individuals respond to and physically fit with technology in their environment is known as ergonomics. Techno stress occurs when a person cannot successfully adjust to or deal with information technologies. They feel compelled to share constant updates and stay connected, feel compelled to reply to work-related information in real-time, and multitask virtually automatically. Due to the rapid influx of information, they feel pressured to work more quickly and have little time for extended thought. Physical strain develops as a result of people spending more time sitting and staring at computer screens. Where People have to spend eight hours or more a day at work in the 21st century because it is essential to their security and job fulfillment. People's emotions are impacted

by technological stress at work because excessive exposure to computer screens is linked to emotional stress. Technological stress has negative effects on productivity, organizational commitment, and job satisfaction. To determine how much technological stress is having an impact on professionals, particularly in terms of the physical and emotional elements, a periodic examination is required. Physical aspects, emotional aspects & behavioral aspects which are dominated the basic stress level of the employees.

#### **THEORETICAL BACKGROUND**

In associations, IT has the power to beget organizational progress and social metamorphoses. Indeed associations in fields traditionally using no or little IT, similar as waste operation or husbandry, can not presently contend with challengers without involving IT (Arebey et al. 2011; Suprem et al. 2013). workers use a variety of technologies for work-related purposes, including database and enterprise technologies, similar as enterprise resource planning (ERP) systems, to grease business process advancements (Hunton et al. 2003), to grease error-free access to information for decision timber (Adam ann), and communication and cooperative technologies, similar as voicemails, instant messaging, and videotape conferencing, to simplify working with others around the world (Kolb et al. 2008). These exemplifications demonstrate how utilising IT in businesses can help staff members do job-affiliated duties more effectively. People of all periods use a range of IT in private settings to enhance their quality of life (Niehaves and Plattfaut 2013). Individualities can frequently cease using a technology when they witness technostress, which is different from utilising IT for business objects. In other words, there's no empirical substantiation to support claims that stress is caused by IT operation in this terrain or that druggies respond to stress in this environment by getting displeased, discontinuing IT use altogether, or switching to alternatives.

#### **REVIEW OF LITERATURE**

Shwadhin Sharma, Babita Gupta (2022) COVID-19 has empowered educational institutions to quickly borrow technology-enhanced literacy (TEL) territory where scholars are required to utilise and manage a diverse range of information and communication technologies (ICTs). The authors investigate the influence of a TEL landscape on scholars' stress, cognitive assessment, and management using the Transactional Theory of Stress. The authors also investigate how the TEL landscape influences scholars' literacy satisfaction and performance. Scholars experienced technology-related stress as a result of their usage of ICT. The negative evaluation, like detriment and trouble, leads to emotion-focused management among scholars, whereas the formative appraisal, like positive and challenge, leads to problem-focused management. Emotion-focused management was designed to have a negative influence on learning satisfaction, whereas problem-focused management was designed to have a positive impact. Sonia Camacho, Andrés Barrios (2022) utmost people agree that environmental dynamics and outside events are what detector stress. But it's important to emphasize that stress is a result of how we respond to the world around us. Depending on how we interpret and perceive changes or a specific circumstance, it may bring happiness or stress to two distinctive people, based on their reaction. Some scholars may view the need to prepare a donation as an occasion to showcase their chops and strengthen their areas of weakness, while other scholars may come anxious out of a fear of their own sins. Therefore, stress is our response to outside circumstances. Bassam A Al- Youzbaky, Rasha Duraid Hanna (2022)-The thing of this exploration is to determine how social media, information anxiety, and information load affect consumers' online purchasing opinions. In order to negotiate this, the deducible system was applied use a quantitative approach, and the data were gathered utilizing an electronic questionnaire made up of pre-built scales from previous studies. There were 326 internet shoppers that took part. The study's suppositions were tested using Amos 26 software and a structural equation modeling approach. The study produced a number of conclusions, the most significant of which is that the vacuity of too important product information has a negative impact on information anxiety. also, social media stress has an impact on online purchase opinions as well as on the circumstance of information concern. Saiyadain and Juhary (2016) did a study on directorial training in Malaysia, and their findings on training efficacy revealed that most associations believe that formal procedures to assess training effectiveness are necessary. They recommended that a top operation station was necessary for successful training. Descy and Westphalen (2015) describe this as training that "meets its objects as defined by its backing body." This is a good description because it is ultimately up to the supporting body to decide

whether or not training will be made available. While this is an excellent exam, there are two things to keep in mind. First, while the funders' precise objectives may not always be transparent, their general points may be; second, while the funders may have objectives, it is only by relating the extent to which these are perceived to have been met by the colourful stakeholders (e.g. individuals, businesses) that one can truly understand the extent to which the training has been effective. Training may potentially have unforeseen repercussions. According to Selye (2014), "Techno Stress is the nonspecific response to any demand; and external force operating on a system, whether it is an association or a person." According to Douglass (1977), Techno Stress is "any action or situation that places special demands upon a person." Anything out of the ordinary might throw a person's equilibrium off. A reaction to restore balance is triggered by a situation of disequilibrium. This response causes Techno Stress. Burgoyne and Cooper (2013) and Snyder et al. (2013) debate evaluation in terms of feedback and control. It must be decided how and to whom assessment comments will be provided. Observers are generally aware of the purpose of the evaluation once it begins, but this could be because they have a generalized view that the purpose of evaluation is to generate a specific set of data, or because they have determined what purpose the customer wishes the evaluation to have. It is nevertheless feasible that an annotator has no specified purpose. The detection of unforeseen programme side effects may be an essential evaluation goal. People who have been extremely successful in large associations sometimes fail spectacularly when they go into tiny associations. Techno Stresses are defined by Kris Cole (2011) as gnashing teeth, clinched fists, obliviousness or perversity, elevated blood pressure, generalized anxiety; mood swings or rigid outlook cold wave. Some technological stress is beneficial for us since it pushes us, makes us alive, and gives us the determination to achieve. It offers a "get up and go" to "get up and go." Others Techno Stress is enervating, depleting, and detrimental to our physical and emotional well-being. James.P. Spradly and Robert.L. Veninga (2010) Job liberals typically include work Techno Stress in their first attack, but the improvements they want go far further than merely eliminating Techno Stress. This goes on a fanatical crusade, complaining, organizing, and encouraging others to join them in their cause. When they encounter opposition from other personnel or operations, they fight even harder. Khan and Katz (2009), If directing job is indeed more Techno Stressful, apparently the directorial selection process selects directors who are more suited to oppose it. Techno Stress is viewed as a positive response to an environmental characteristic, an individual attribute, or a trade between individuals on his or her terrain. Keith Davis and John.W. Newstrom(2008), said about Administrative Techno Stress, directors and workers report about the same quantum of Job Techno Stress. However, so directors and workers feeling of Techno Stress are about the same Idella.M. Evans and Aristocratic. A. Smith( 2007), state that people give their experience applicable not applicable, and cerebral not physiological, determining if they will seek help and what kind of help they will see, this failure to seek help for extreme felt techno Stress was caused in history by the veritably disruptive experience of the Techno Stress conditions

#### **OBJECTIVES OF THE STUDY**

1. A study on techno stress position among the software workers.
2. To evaluate workers' attitudes regarding technological improvements
3. Determine the position of specific life irruption among workers at Software firms through the technological migration process
4. Identify the position of techno-security among workers
5. To offer practicable results to reduce the techno stress position among the workers.

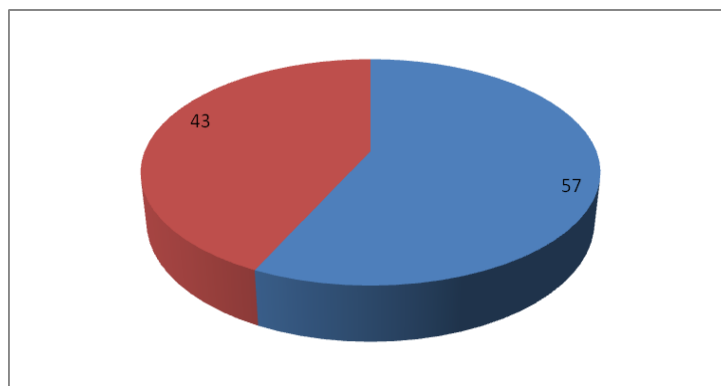
#### **LIMITATIONS OF THE STUDY**

1. The information handed by maturity of the repliers may be prejudiced or inaccurate.
2. Independent verification of the data was possible.
3. Time is one major constraint, which limits the effective data collection.
4. Non-availability of data collection from all the workers of Software companies

#### **DATA ANALYSIS**

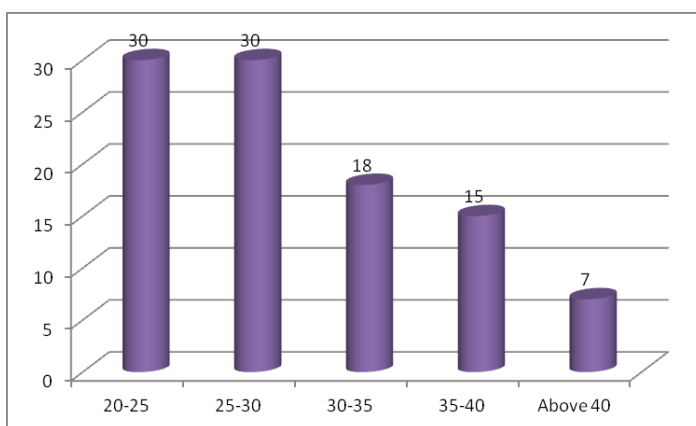
This figure shows that 57% of the repliers are manly and 43% of the repliers are womanish. thus, utmost repliers are manly. the

Fig no: 1- Gender bracket of replies



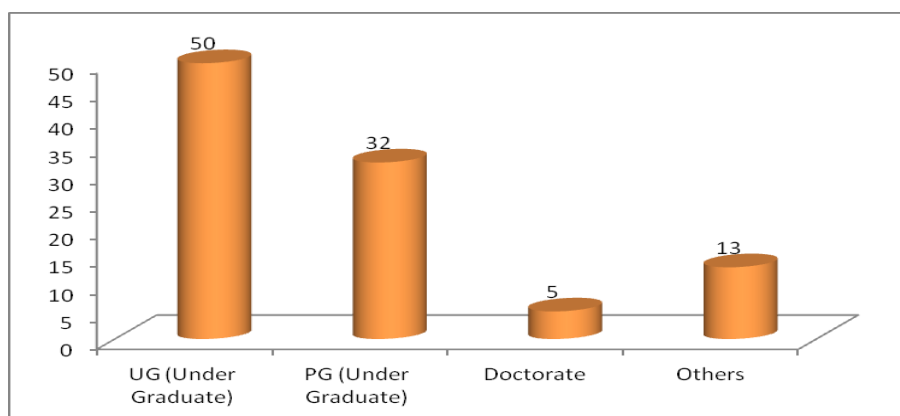
The below chart shows that 30% of the respondents age is 20-25, 30% of the respondents age is 35-40, 18% of the respondents age is 30-35, 15% of the respondents age is between 35-40, and 7% of the respondents age is Above 40. Therefore, most of the repliers are in the age between 20-25 & 25-30 years.

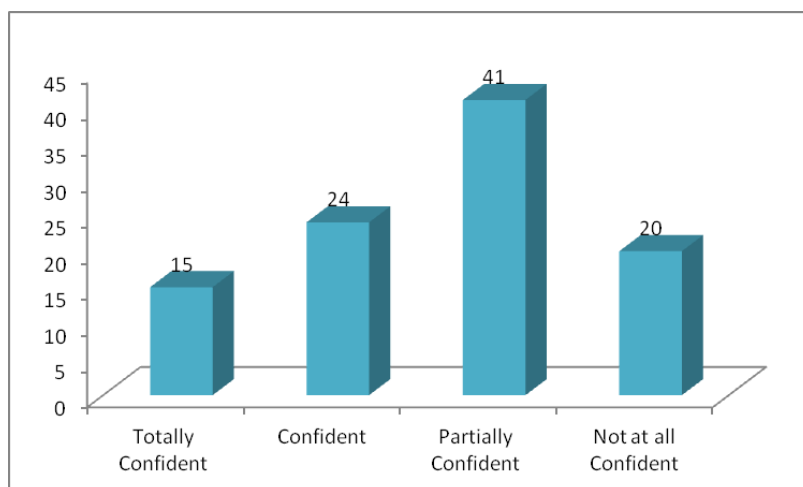
Fig.no: 2-Age of the Repliers



This graph shows that 50% of the repliers are UG (Under Graduate), 32% of the repliers are PG (Under Graduate), 13% of the repliers are others, 5% of the respondents are Doctorate. As a result, the majority of the representatives' educational qualifications are at the undergraduate level.

Fig.no:3-Repliers' educational backgrounds





The above graph shows that 41% of the repliers are incompletely confident with the computer, 24 of the repliers are confident with the computer, 15 of the repliers are completely confident with the computer and 20 of the repliers are Not at all Confident with the Computer. thus, utmost of the repliers are incompletely confident with the computer.

From the below table it can be inferred that 48% of the repliers are Single and 47% of the repliers are wedded and 5% of the repliers are disassociated. utmost of the repliers are single.

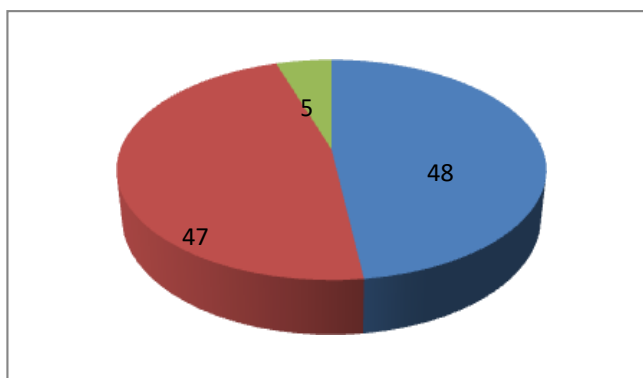
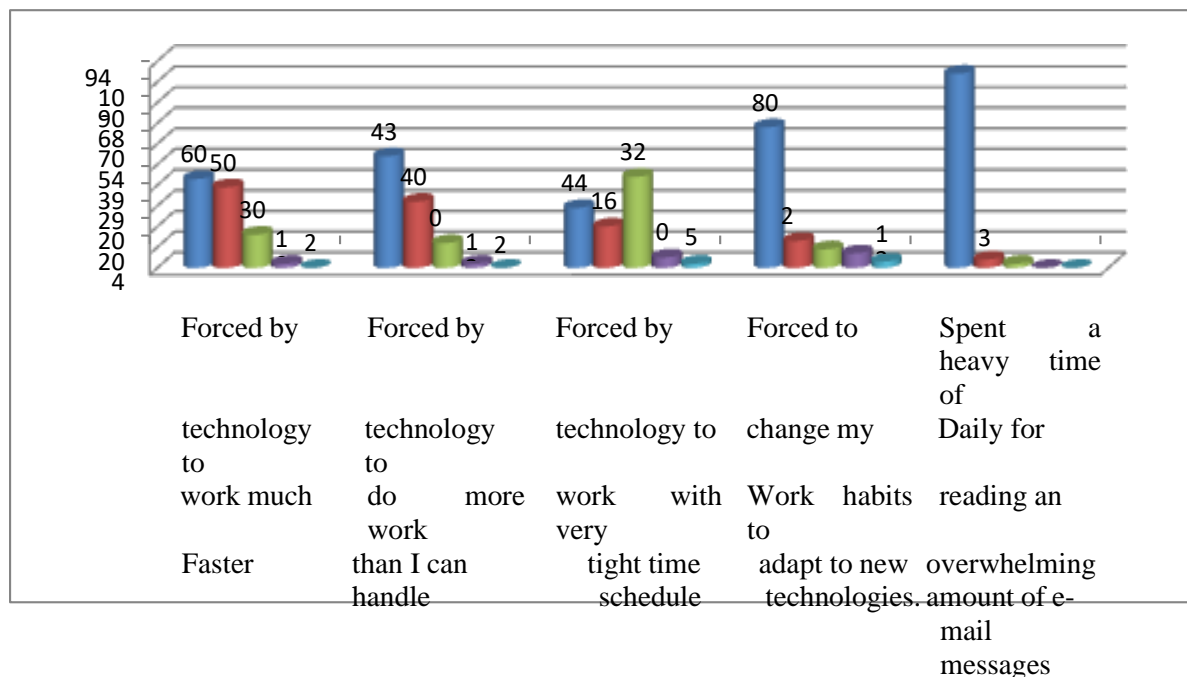


Fig. no: 5- showing marital status of the respondents

Table 1: table showing techno-overload:

Particulars	SA	%	A	%	N	%	DA	%	SD	%	Total
Technology has forced us to work much more quickly.	52	43	47	39	19	16	2	2	0	0	120
Technology is forcing me to perform more work than I can handle.	65	54	38	32	14	12	3	2	0	0	120
Technology has forced us to work on extremely short deadlines.	35	29	24	20	53	44	6	5	2	2	120
I was forced to adjust my work habits in order to adapt to new technology.	82	68	16	13	11	9	8	7	3	3	120
Every day, I spent a significant amount of time reading an enticing number of e-mail transmissions.	113	94	5	4	2	2	0	0	0	0	120



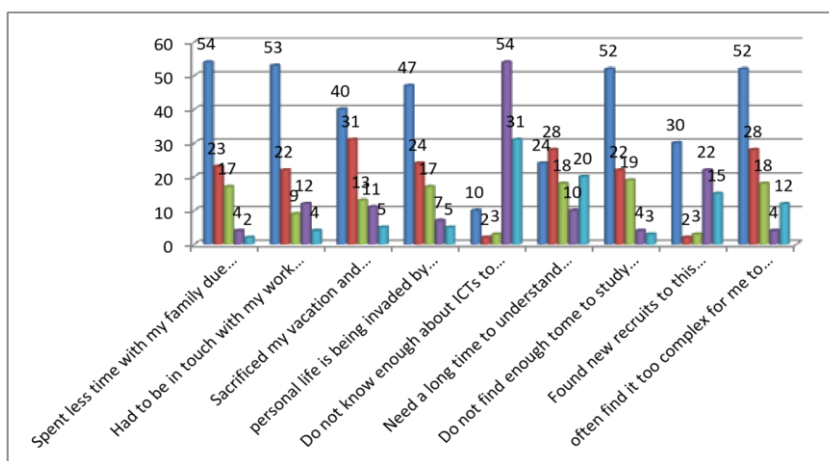
**Figure.no:7 - perception of employees about techno-overload**

The above table shows that: 94% of the participants spend a significant amount of time each day reading an enticing quantity of e-mail messages. 94% of the participants spend a significant amount of time each day reading an enticing quantity of e-mail messages.68% of those polled are being pushed to modify their work habits in order to adapt to new technology. 54% of repliers are being pressured by technology to do additional work than they can perform. Technology forces 44% of respondents to work on a very tight time schedule. Technology forces 43% of repliers to work substantially faster.

Table 2: techno-invasion:

S. No.	Particulars	SA	%	A	%	N	%	DA	%	SD	%	TOTAL
1	Spent less time with my family due to technology advancement	65	54	28	23	20	17	5	4	2	2	120
2	Had to be in touch with my work even during my vacation due to technology advancement	63	53	26	22	11	9	15	12	5	4	120
3	Sacrificed my vacation and weekend time to keep current on new technologies	48	40	37	31	16	13	13	11	6	5	120
4	personal life is being invaded by technology advancement Techno-complexity	56	47	29	24	21	17	8	7	6	5	120
5	Do not know enough about ICTs to handle my job satisfactorily	12	10	2	2	4	3	65	54	37	31	120
6	Need a long time to understand and use new technologies	29	24	33	28	22	18	12	10	24	20	120
7	Do not find enough time to study and upgrade my technology skills	62	52	27	22	23	19	5	4	3	3	120
8	Found new recruits to this organization know more about computer technology than I do	36	30	22	18	18	15	26	22	18	15	120
9	Often find it too complex for me to understand and use new technologies	62	52	26	22	12	10	5	4	15	12	120

figure.no. 8- perception of employees about techno-invasion



This table shows that:

- 54% of the repliers spent lower time with my family due to technology innovation and lack sufficient ICT knowledge to perform my job effectively.
- 53% of the repliers Due to the advancement of technology, I had to stay in touch with my job even while on vacation.
- 52% of the repliers I don't have enough time to study and keep my technology up to date chops and frequently I find using and comprehending new technologies to be too complicated.
- 47% of the replier’s particular being is life. raided by technological development Techno-complexity
- 40% of the replier offered my holiday and weekends to stay up to date with new technology
- 30% of the repliers set up new rookies more knowledgeable about computer technology than I am in this association
- 28% of the repliers Taking a while to learn and use new technology

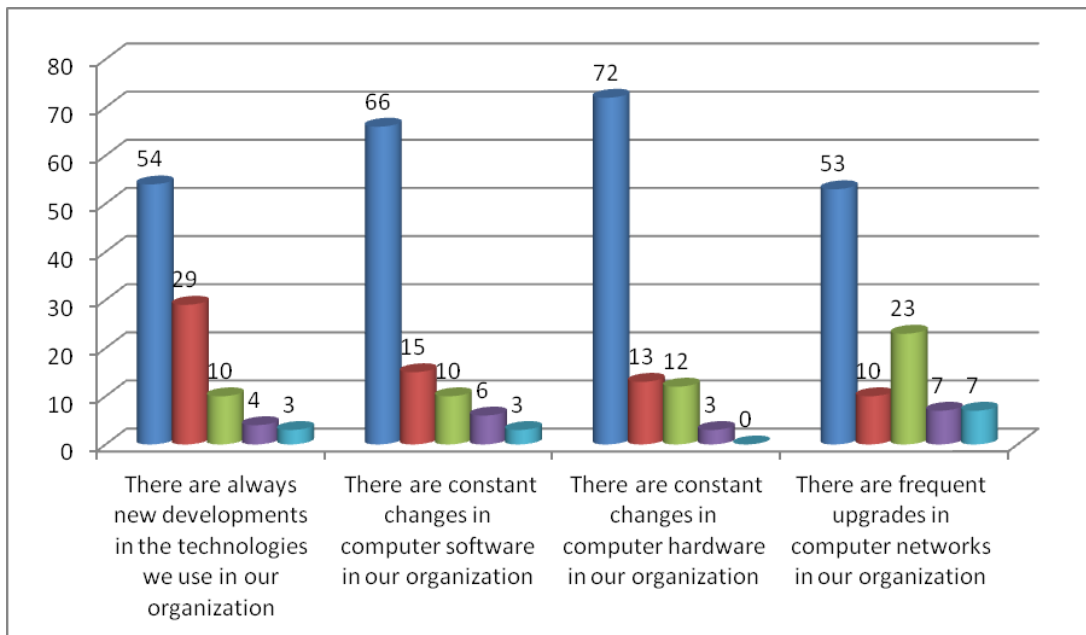
**Table-3**

**Table showing techno-uncertainty**

S	Particulars	SA	%	A	%	N	%	DA	%	SD	%	TOTAL
1	There are always new advancements in the technologies our Association employs	65	54	35	29	12	10	5	4	3	3	120
2	The software in our systems is always changing Association	79	66	18	15	12	10	7	6	4	3	120
3	In our association, computer hardware is always changing.	87	72	16	13	14	12	3	3	0	0	120
4	In our association, computer networks are updated frequently.	63	53	12	10	28	23	9	7	8	7	120

Figure.no: 9 - perception of employees about techno-uncertainty

This table shows that:



- 72% of the repliers said that in our association, computer hardware is always evolving.
- 66% of the repliers said that our association's computer software is updated frequently.
- 54% of the repliers aid that the technologies we employ in our organization are always



evolving.

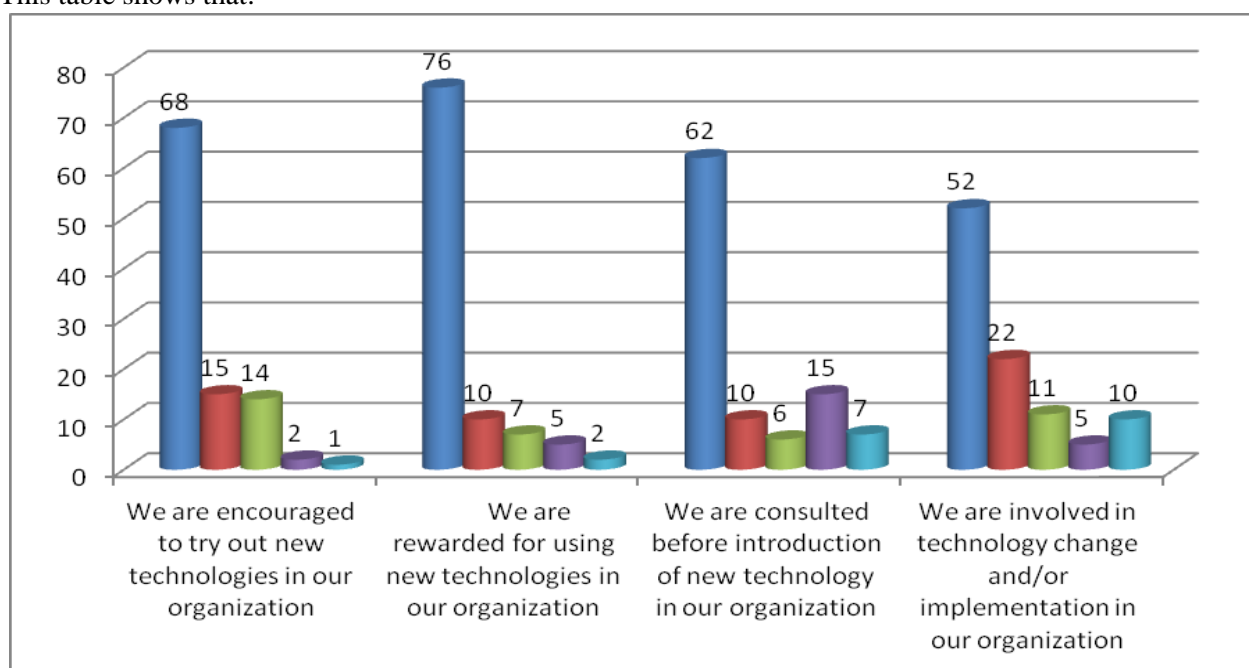
- 53% of the repliers said that in our association, computer networks are updated frequently.

**Table 5 table showing user involvement:**

S.	Particulars	SA	%	A	%	N	%	DA	%	SD	%	Total
1	We are inspired to try out Latest technologies in our association	82	68	18	15	17	14	2	2	1	1	120
2	We are awarded for using new technologies in our association	92	76	12	10	8	7	6	5	2	2	120
3	We are asked before introduction of new technology in our association	75	62	12	10	7	6	18	15	8	7	120
4	We are associated in technology change and/or Perpetration our association	63	52	26	22	13	11	6	5	12	10	120

**Figure.no: 10 - responses of user involvement**

This table shows that:



- 76 % of the repliers are awarded for using new technologies in our association.
- 68% of the repliers are motivated to try out latest technologies in our association
- 62% of the repliers are asked before introduction of new technology in our association
- 52% of the repliers are associated in technology change and/or perpetration in our association.

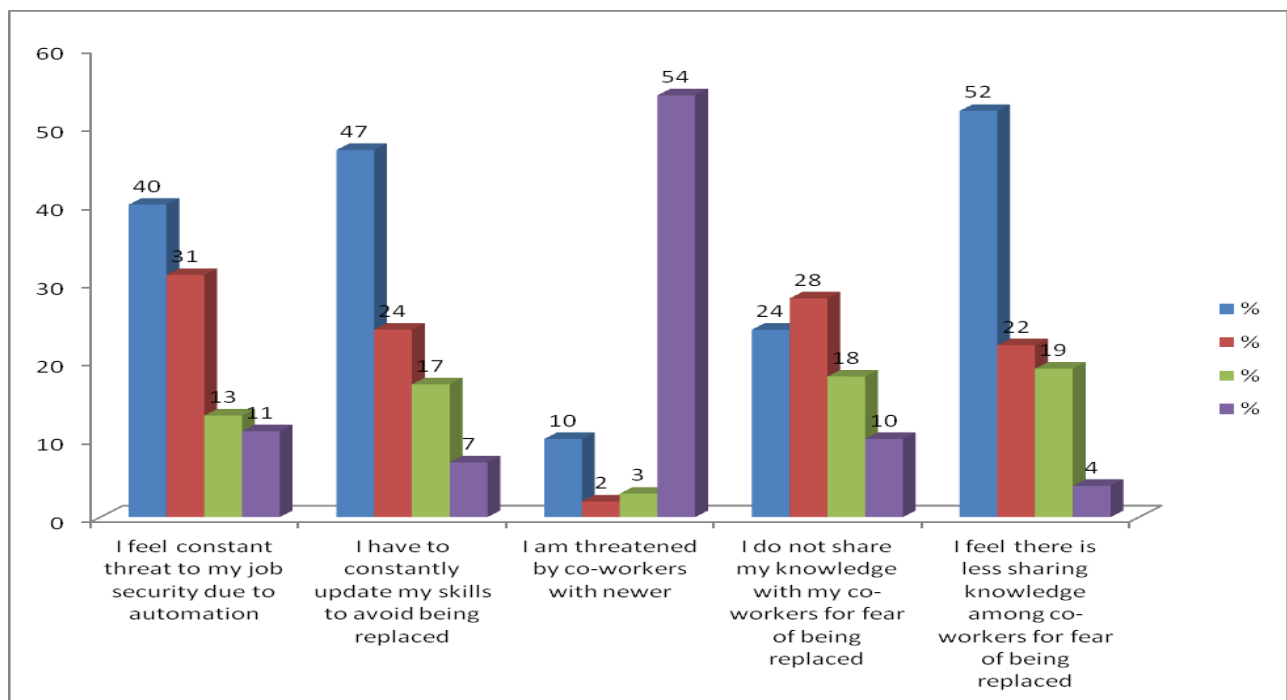
**Table 5**

**Perception of employees about techno-insecurity**

S. No.	Particulars	SA	%	A	%	N	%	DA	%	SD	%	TOTAL
1	Due to robotization, I feel like my career is constantly in danger.	48	40	37	31	16	13	13	11	6	5	120
2	To prevent getting replaced, I have to regularly update my chops.	56	47	29	24	21	17	8	7	6	5	120

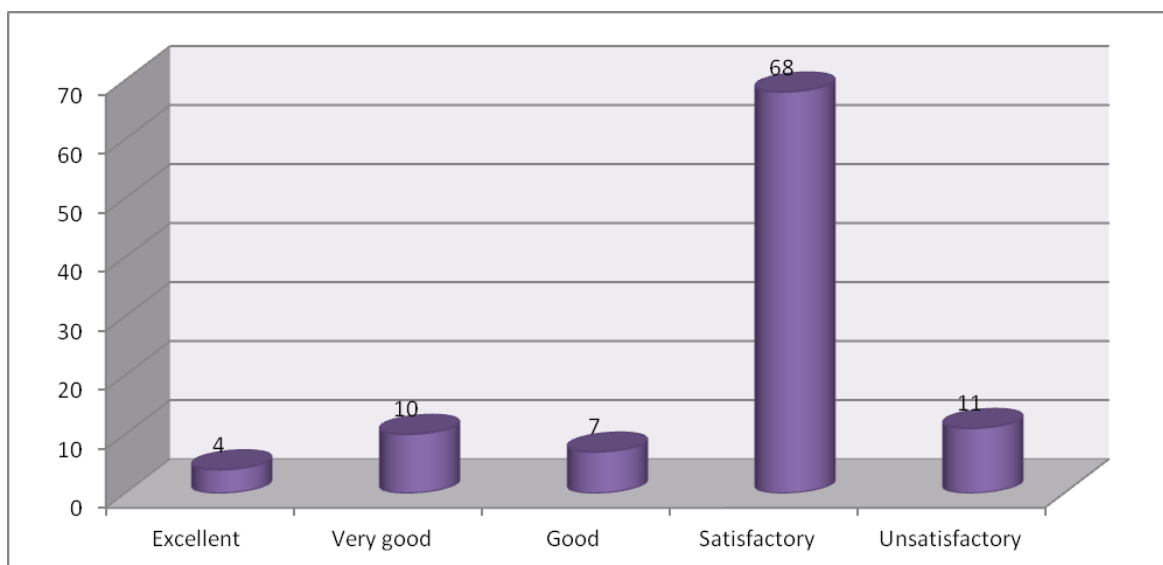
3	My coworkers with newer jobs always watch me.	12	10	2	2	4	3	65	54	37	31	120
4	I don't share my expertise with my coworkers out of concern that I would be replaced.	29	24	33	28	22	18	12	10	24	20	120
5	I believe there is less knowledge sharing among coworkers because of concern about being replaced.	62	52	27	22	23	19	5	4	3	3	120

Figure.no:11 - techno insecurity



- 40% of the repliers strongly agree that constant trouble to my job security due to robotization
- 47% of the repliers strongly agree that constantly modernize my chops to avoid being replaced
- 65% of the repliers disagree that hovered by co-workers with newer
- 28% of the repliers agree that they don't partake share my expertise with my colleagues for dread of replacement
- 52% of the repliers strongly agree that Coworkers are less likely to share information for fear of being replaced.

Fig. no. 12: training programme organized in software companies



From the **above** table it's inferred that 68% among the satisfactory responders in the software-organized training programme and 11% of the repliers wrong in training programme organized in Software companies. majority respondents found the training programs run by software corporations to be adequate.

**Analysis of chi square**

H0: There is no connection amongst the staff, who fined new technology and age to be too complicated to comprehend and apply.

H1: There is a relationship between the employees regard the usage of new technologies and ages to be excessively complicated.

**Age of employees finding it difficult to acknowledge and apply new technology cross-tabulation**

		Employees finding it difficult to acknowledge and apply new technology					Total
		Strongly Agree	Agree	Moderatee	Disagree	Strongly Disagree	
	Count	36	0	0	0	0	36
	Expected	18.6	7.8	3.6	1.5	4.5	36.0
20-25	Count	26	4	0	1	5	36
	Expected	18.6	7.8	3.6	1.5	4.5	36.0
25-30	Count	0	21	0	0	0	21
	Expected	10.9	4.6	2.1	.9	2.6	21.0
30-35	Count	0	1	12	2	3	18
	Expected						

Above 40	Count	9.3	3.9	1.8	.8	2.3	18.0
		0	0	0	2	7	9
		4.6	2.0	.9	.4	1.1	9.0
Total		62	26	12	5	15	120
		62.0	26.0	12.0	5.0	15.0	120.0

**Chi-Square analyses**

	Value	df	Asymp. Sig. (2-sided)
The Pearson Chi-Square	235.030 <sup>a</sup>	16	.000
Probability ratio	204.845	16	.000
Between-Linear Association	68.916	1	.000
N of Valid Cases	120		

**Karl Pearson's Correlation-Based Analysis**

1. H0: There is positive relationship between the uses of modern technology requires a lot of time and spent lower technology has made it harder for me to spend time with my family.
2. H1: There is negative relationship between the Need a lot of time to understand and utilise modern technology and spent lower owing to technological improvement, more time with my family

**Correlations**

		Need a huge time to acknowledge and use latest technologies	less time with my family as a result of technological innovation.
Need a lot of time to understand and utilize modern technologies	Pearson Correlation	1	
	Sig. (2-tailed)		.013
spending less time with my family as a result of technological advancement	N Pearson Correlation	110	.886
	Sig. (2-tailed)	.013	110
	N	110	120

Since r is positive (r=0.13), there is a positive association between the need for a significant amount of time to recognize and utilize the most recent technologies and the decreased amount of time I spend with my family due to technology advancement.

**ANOVA One-Way Classification**

1. **H<sub>0</sub>:** There is a significant distinction between the training programme that makes the SAP HANA DBMS migration process easier and the requirement that employees maintain their skill sets in order to avoid being replaced.
2. **H<sub>1</sub>:** There is no discernible difference between the training programme, which facilitates the SAP HANA DBMS conversion process, and the requirement that staff maintain their skill sets in order to avoid being replaced.

**Test of Homogeneity of Variances**

Employees have to frequently modernize their skills to evade of being replaced

LeveneStatistic	df1	df2	Sig.
15.016	2	117	.000

**ANOVA**

Employees have to frequent modernize their skills to evade of being replaced

	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	(joined) Unweight	9.724	2	4.862	3.665	.029
	Linear Weighted	9.268	1	9.268	6.987	.009
	Term Deviation	7.464	1	7.464	5.627	.019
		2.260	1	2.260	1.704	.194
among Groups	155.201	117	1.327			
Total	164.925	119				

This table shows that:

- 54% of the repliers spent lower time with my family due to technology advancement and do not know enough about ICTs to handle my job satisfactorily.
- 53% of the repliers Had to be in touch with my work indeed during my holiday due to technology advancement
- 52% of the repliers Do not find enough time to study and upgrade my technology chops and frequently find it too complex for me to understand and use new technologies
- 47% of the repliers particular life is being raided by technology advancement Techno-complexity
- 40% of the replier offered my holiday and weekend time to keep current on new technologies
- 30% of the repliers set up new rookies to this association know further about computer technology than I do
- 28% of the repliers Need a long time to understand and use new technology

**Suggestion for Future Scope:**

- Although stress management has gained popularity among individuals, the level of awareness across all employees should be raised.
- Stress operation must be fostered among workers through a regular Stress operation training session.
- Association personnel must achieve emotional stability in order to ensure the physical and

internal health of the tone and the service association.

- Stress may have a detrimental impact on the performance of the workers in the organisation; to avoid this, the workers should have internal stability.
- Prior to the technical migration process, proper communication must be provided. This will boost employee enthusiasm for the new database.
- The SAP HANA DBMS training time can be increased from one day to one week. This
- This will increase awareness of the new specialized features and make database migration easier.

## Conclusion

There are several indicators of technological stress. For example, technology enables us to do many effects at the same time. If we work from home, we may cook our regale in the microwave oven roaster and converse on the phone. Even while technology allows us to perform several tasks at once, our brains get overburdened. We call this "Multitasking Madness," and it's becoming more common by the day. We've gotten into the habit of saying, "Because we can, we do." We may find ourselves difficult to think clearly, and we may become distracted and unable to sleep peacefully as the stimulus from the load keeps our brain working overtime. The experimenter has gained an understanding of the complex difficulties surrounding the Employees at software businesses experience technological stress. Based on the numerous findings, several valuable and practical recommendations have been made to the functioning of software firms in order to minimize technical stress and increase the overall productivity of specialized professionals.

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