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# LEARNABILITY: AN INEVITABLE SKILL NEEDED FOR SUSTENANCE IN INDUSTRY 4.0

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## ABSTRACT

*Today we are living in the era of fourth industrial revolution demanding variety of skills set for delivering various jobs. The world is transforming in a contingent way. This transformation is not only in terms of technology but a complete domino effect is being witnessed in the recent past. The technology, demography and the social changes are affecting the professional as well as personal life styles. The techniques and procedures followed in the organizations are becoming obsolete very quickly resulting in the need for new techniques. New jobs are created; even the most demanded jobs in the current days are not even present few years back. Thus the job description and the job specification is changing a lot these days. It is not the survival that is threatening the employee work force but it is about the sustenance of their jobs. Learnability is the skill that is coming to the aid of employees for sustenance. Learnability is the ability to quickly grow and adopt skill set to be employable throughout their working life. In this regard this study is aimed to identify the need of learnability skill among the people and how it affects their career.*

*A survey was conducted with a sample of 120 employees working in different sectors to identify the need to unlearn the present skill set and relearn the new skills for their job upgradation. The study revealed that unlearning and relearning is needed in every sector like educational institutions, software, manufacturing, fast moving consumer goods etc.,. The time span for the change process varies from one sector to the other. The employees seeking new skills are being headhunted by the corporate world and are reaching the tip of their career ladder and the others are left behind.*

**Keywords:** Learnability, Industry 4.0, Sustenance, Skills

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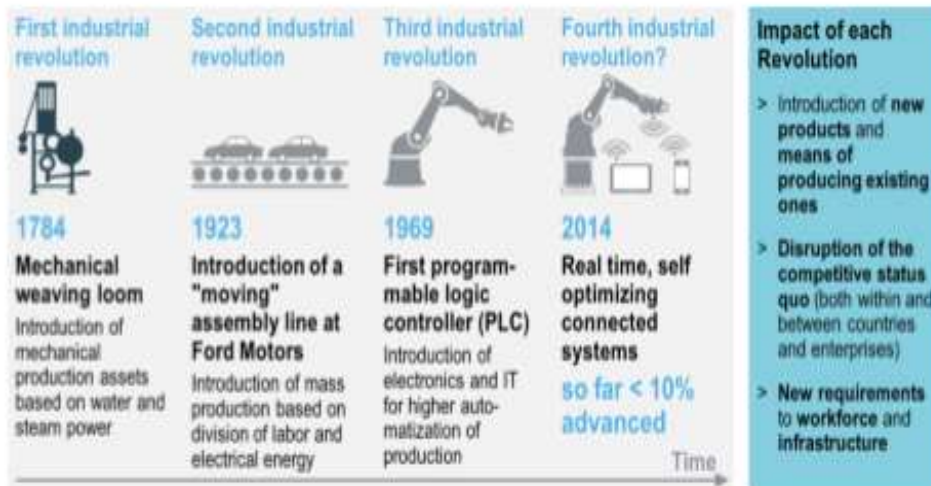
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## 1. INTRODUCTION

The industrial sector is in fourth industrial revolution popularly known as Industry 4.0. Industry 4.0 is connecting the real and the virtual worlds resulting in production systems which are cyber physical production systems. Thus the manufacturing sector is experiencing a huge transformation in manufacturing.

Figure 1: Development stages of industrial manufacturing



Source: Roland Berger

Figure 1

The transformation is coercing the employees to learn many things to suit to the changes made in the industry. Thus the attribute learnability has become the basic requisite in the present days to survive in the industry. An employee is expected to develop in 360 degrees to remain demanded in the professional environment. Fourth industrial revolution is expecting to change the social learning process and the way the tasks are being done in the organization. Basically Learning is an unavoidable and inseparable process with in the journey of any species on this earth and especially for the human beings it is the need of the hour. Because for all the species rest of the human beings this learning is only for survival but only for human beings it's not only survival but also sustenance in their field where they exist or work. One has to invite the change in to one's life, this is willingness to learn and the ability to adapt the changing scenarios in one's job or life.

Once market leader in the field of mobile phones and today it is no more, just because of the company missed out the learning and eventually it lost its business. The company didn't do anything wrong, but it could not update to the contemporary developments which made the company disappeared. This was the case of the great NOKIA at once.

Change – Growth – Improvement - Development

We want to grow, improve and finally develop ourselves.

What is development - normally speaking it is a betterment from yesterday to today and from today to tomorrow. This can't be taken place without the continuous learning or life long learning which means learn – unlearn & relearn, but we don't notice this change.

In the name of updating and upgrading of our skills we unlearn the old methods and switch to new and better methods in the name of relearning but we don't name it is a relearn.

Learning is defined as the relative permanent change in the knowledge of a person or behavior due to experience. The three features defined are:

- The change is long-term rather than short-term;
- The locus of the change is the content and structure of knowledge in memory or the behavior of the learner;
- The cause of the change is the learner's experience in the environment rather than fatigue, motivation, drugs, physical condition or physiologic intervention.”

–*From Learning in Encyclopedia of Educational Research, Richard E. Mayer*

*I am still learning – Michel Angelo*

Michelangelo, who is renowned for sculpture, painting, poetry and architecture at the age of 87 is proclaiming about the need of learning. Thus we should all make learning as a continuous process in our life and be a life long learner.

The Lifelong learning is the continuous pursuit of knowledge in a voluntary and self-motivated manner. It improves the self-sustainability, employability and individual development among the people.

## **2. REVIEW OF LITERATURE:**

Learning is the process of acquiring new or modified knowledge, behaviours, skills or preferences. The learning ability can be observed in humans, animals and sometimes machines also. The learning may be instant or repeated experiences teach humans and the learning is a continuous process. Learning process is a continuous one in the human beings and it lasts for life time. Learning is affected by various internal and external factors. The internal factors are like goals, interest, attention, fatigue, learning activities etc. The external factors are heredity, status of students, and physical environment.

(Boser, 2018) Many people believe that learning is a task for intelligent people but they forget that it is for everyone. That is why people don't focus on the right process of learning. People feel that learners are being born. But the recent researches indicate that the learners are being made and not only born. Boser identified three practical ways to build the learning skill. They are organize your goals, think about thinking and reflect on learning.

(Pérez, 2015) Perez conducted a study on comparing the adaptive learning to traditional learning. The adaptive learning involves the usage of tools and technology based artifacts to enhance the learning process among the students. The study compared the exercise scores of the students with the exercise scores of students with traditional learning and observed that the results are far better for the students with adaptive learning. The computer has been the long standing solution for the scalability and the cost of individual instructions.

(Jana Hackathorna, 2011) Jana conducted a study on four teaching techniques i.e lecture, demonstrations, discussions and in class activities. They observed that the four methods are suitable for different levels of learning and to various students. They vary in the depth of learning. But each method is useful for all teachers and students. The benefits from each method are varying depending on the activity of learning and the students.

## **3. RESEARCH GAP**

The research in the area of learning was mainly focused on how the teaching methods should be implemented to train the students but not on the employees. New methodologies were introduced to teach students but not the people who are all in the industry already. Thus this study in conducted to prove that new methodologies are required to teach new methods to teach the employees and the graduates who are already in the market.

### 3.1. Objectives of the Study

The objectives of the present study are

- To examine the relationship between learning and sustenance.
- To identify the most important factors affecting the process of learning among individuals.

### 3.2. Hypothesis of the Study

H0: There is no statistically significant relationship between experiential learning and income levels.

H1: There is statistically significant relationship between experiential learning and income levels.

## 4. RESEARCH METHODOLOGY

The present study is a descriptive study which tries to establish the relationship between learning and sustenance in the industry.

### 4.1. Method of Data Collection

#### *Primary Data*

Data collected from the employees with MBA qualification using semi structured interview process with the support of structured questionnaire. Management education is very prominent and need to be transformed according to the changes in the organizations. And MBA graduates are needed in every industry and thus they were selected as a sample.

#### *Secondary Data*

Data is collected from various sources of print (newspapers, magazines, journals, research reports and books) and electronic media (websites, e-journals and databases).

**Research Instrument:** Structured questionnaire in google forms.

### Sample Design

#### *Sampling Universe and Sample Unit*

The population for the study is all employees. Thus for the study employees working in various industries were selected.

#### *Sampling Procedure:*

The samples are drawn using non-probability method of sampling.

#### *Sample Size:*

The sample was selected on convenience basis. In total responses of 139, 120 responses were collected from individuals who are MBA qualified and working presently in variety of industries. A google form was used to collect data through e-mails.

## 5. DATA ANALYSIS

The first phase of the research is done through frequency analysis where all questions for both the analysts in the questionnaire are analyzed using SPSS. The analysis gave the bird's eye view of the overall analysis. The questionnaire being very technical and of greater depth lead to the need of being each question reviewed individually where frequency analysis was best suitable. It was done with the help of SPSS and Excel 2010.

## 5.1. Results and Discussion

The basic profile of the respondents is given in the Table No. 1:

**Table 1** Basic Profile of Respondents

|                |                 | Frequency | Percent |
|----------------|-----------------|-----------|---------|
| Gender         | Male            | 99        | 82.5    |
|                | Female          | 21        | 17.5    |
|                | Total           | 120       | 100.0   |
| Age            | 23 - 30 Years   | 63        | 52.5    |
|                | 31 - 40 Years   | 38        | 31.7    |
|                | 41 - 50 Years   | 19        | 15.8    |
|                | Total           | 120       | 100.0   |
| Monthly Income | 15000 - 20000   | 35        | 29.2    |
|                | 20001 - 50000   | 44        | 36.7    |
|                | 50001 - 100000  | 20        | 16.7    |
|                | 100001 - 300000 | 21        | 17.5    |
|                | Total           | 120       | 100.0   |
| Experience     | 1 - 5 Years     | 62        | 51.7    |
|                | 5 - 10 Years    | 16        | 13.3    |
|                | 10 - 15 Years   | 20        | 16.7    |
|                | 15 - 20 Years   | 20        | 16.7    |
|                | Above 20 Years  | 2         | 1.7     |
|                | Total           | 120       | 100.0   |

The sample is widely distributed between the age group of 23 to 50 with monthly incomes ranging from Rs. 15000/- to Rs. 3,00,000/-. The study revealed that the employees with more experience are earning when compared to the employees with low experience. This can be justified by Pearson correlation test on the sample.

**Table 2** Correlations

|                |                     | Monthly Income | Experience |
|----------------|---------------------|----------------|------------|
| Monthly Income | Pearson Correlation | 1              | .563**     |
|                | Sig. (2-tailed)     |                | .000       |
|                | N                   | 120            | 120        |
| Experience     | Pearson Correlation | .563**         | 1          |
|                | Sig. (2-tailed)     | .000           |            |
|                | N                   | 120            | 120        |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

Pearson Correlation test is used to establish the relationship between two variables. Thus the Correlation test between the monthly income of the respondents and their experience have resulted in a positive value of 0.563. the positive value indicates that these two variables are linearly correlated. But we can see that the value is only 0.563 which means there is also a lag in it. That is more experience gives more income but if the experience is not gained by employees in terms of knowledge but only number of years, then more earning is not possible by learning.

In this regard the study is continued to identify the factors to affect the learning process of employees. Eleven factors were selected to identify their impact on employees. Thus Cronbach's alpha test is conducted to measure the internal consistency of the factors.

**Table 3** Reliability Statistics

| Cronbach's Alpha | Cronbach's Alpha Based on Standardized items | N of items |
|------------------|--|------------|
| 0.920            | 0.921  | 11         |

Cronbach's Alpha test gave the reliability of the measurement and the study is proceeded further to study the impact of these factors on learning. The variables covariance was estimated followed by Mann Whitney test to rank these factors.

**5.2. Correlations**

**Table 4** Descriptive Statistics

|                   | Mean | Std. Deviation | N   |
|-------------------|------|----------------|-----|
| Technology        | 2.11 | 1.044          | 120 |
| Job Demands       | 1.79 | .934           | 120 |
| Job Migration     | 2.43 | 1.098          | 120 |
| Trainer           | 2.36 | 1.091          | 120 |
| Complexity        | 2.40 | .874           | 120 |
| Interest          | 1.71 | .911           | 120 |
| Family            | 2.31 | 1.091          | 120 |
| Colleagues        | 2.40 | 1.118          | 120 |
| Company support   | 2.12 | .980           | 120 |
| Career Growth     | 1.73 | .968           | 120 |
| Financial Benefit | 2.06 | 1.071          | 120 |

**Table 5** Correlations

|               |                                   | Technology | Job Demands | Job Migration | Trainer | Complexity | Interest | Family | Colleagues | Company support | Career Growth | Financial Benefit |
|---------------|-----------------------------------|------------|-------------|---------------|---------|------------|----------|--------|------------|-----------------|---------------|-------------------|
| Technology    | Pearson Correlation               | 1          | .558**      | .450**        | .482**  | .579**     | .414**   | .376** | .459**     | .489**          | .520**        | .378**            |
|               | Sig. (2-tailed)                   |            | .000        | .000          | .000    | .000       | .000     | .000   | .000       | .000            | .000          | .000              |
|               | Sum of Squares and Cross-products | 129.592    | 64.708      | 61.367        | 65.342  | 62.800     | 46.792   | 50.992 | 63.800     | 59.483          | 62.467        | 50.242            |
|               | Covariance                        | 1.089      | .544        | .516          | .549    | .528       | .393     | .429   | .536       | .500            | .525          | .422              |
|               | N                                 | 120        | 120         | 120           | 120     | 120        | 120      | 120    | 120        | 120             | 120           | 120               |
| Job Demands   | Pearson Correlation               | .558**     | 1           | .499**        | .338**  | .567**     | .432**   | .295** | .362**     | .513**          | .691**        | .567**            |
|               | Sig. (2-tailed)                   | .000       |             | .000          | .000    | .000       | .000     | .001   | .000       | .000            | .000          | .000              |
|               | Sum of Squares and Cross-products | 64.708     | 103.792     | 60.833        | 40.958  | 55.000     | 43.708   | 35.708 | 45.000     | 55.917          | 74.333        | 67.458            |
|               | Covariance                        | .544       | .872        | .511          | .344    | .462       | .367     | .300   | .378       | .470            | .625          | .567              |
|               | N                                 | 120        | 120         | 120           | 120     | 120        | 120      | 120    | 120        | 120             | 120           | 120               |
| Job Migration | Pearson Correlation               | .450**     | .499**      | 1             | .571**  | .562**     | .531**   | .442** | .583**     | .741**          | .521**        | .578**            |
|               | Sig. (2-tailed)                   | .000       | .000        |               | .000    | .000       | .000     | .000   | .000       | .000            | .000          | .000              |
|               | Sum of Squares and Cross-products | 61.367     | 60.833      | 143.467       | 81.367  | 64.200     | 63.167   | 62.967 | 85.200     | 94.933          | 65.867        | 80.967            |
|               | Covariance                        | .516       | .511        | 1.206         | .684    | .539       | .531     | .529   | .716       | .798            | .554          | .680              |
|               | N                                 | 120        | 120         | 120           | 120     | 120        | 120      | 120    | 120        | 120             | 120           | 120               |

|                 |                                   |        |        |        |         |        |        |         |         |         |        |        |
|-----------------|-----------------------------------|--------|--------|--------|---------|--------|--------|---------|---------|---------|--------|--------|
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Trainer         | Pearson Correlation               | .482** | .338** | .571** | 1       | .589** | .461** | .676**  | .777**  | .660**  | .370** | .277** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   |         | .000   | .000   | .000    | .000    | .000    | .000   | .002   |
|                 | Sum of Squares and Cross-products | 65.342 | 40.958 | 81.367 | 141.592 | 66.800 | 54.542 | 95.742  | 112.800 | 83.983  | 46.467 | 38.492 |
|                 | Covariance                        | .549   | .344   | .684   | 1.190   | .561   | .458   | .805    | .948    | .706    | .390   | .323   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Complexity      | Pearson Correlation               | .579** | .567** | .562** | .589**  | 1      | .612** | .452**  | .592**  | .583**  | .485** | .487** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   | .000    |        | .000   | .000    | .000    | .000    | .000   | .000   |
|                 | Sum of Squares and Cross-products | 62.800 | 55.000 | 64.200 | 66.800  | 90.800 | 58.000 | 51.200  | 68.800  | 59.400  | 48.800 | 54.200 |
|                 | Covariance                        | .528   | .462   | .539   | .561    | .763   | .487   | .430    | .578    | .499    | .410   | .455   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Interest        | Pearson Correlation               | .414** | .432** | .531** | .461**  | .612** | 1      | .362**  | .429**  | .631**  | .588** | .560** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   | .000    | .000   |        | .000    | .000    | .000    | .000   | .000   |
|                 | Sum of Squares and Cross-products | 46.792 | 43.708 | 63.167 | 54.542  | 58.000 | 98.792 | 42.792  | 52.000  | 67.083  | 61.667 | 65.042 |
|                 | Covariance                        | .393   | .367   | .531   | .458    | .487   | .830   | .360    | .437    | .564    | .518   | .547   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Family          | Pearson Correlation               | .376** | .295** | .442** | .676**  | .452** | .362** | 1       | .690**  | .477**  | .278** | .272** |
|                 | Sig. (2-tailed)                   | .000   | .001   | .000   | .000    | .000   | .000   |         | .000    | .000    | .002   | .003   |
|                 | Sum of Squares and Cross-products | 50.992 | 35.708 | 62.967 | 95.742  | 51.200 | 42.792 | 141.592 | 100.200 | 60.683  | 34.867 | 37.842 |
|                 | Covariance                        | .429   | .300   | .529   | .805    | .430   | .360   | 1.190   | .842    | .510    | .293   | .318   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Colleagues      | Pearson Correlation               | .459** | .362** | .583** | .777**  | .592** | .429** | .690**  | 1       | .662**  | .402** | .457** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   | .000    | .000   | .000   | .000    |         | .000    | .000   | .000   |
|                 | Sum of Squares and Cross-products | 63.800 | 45.000 | 85.200 | 112.800 | 68.800 | 52.000 | 100.200 | 148.800 | 86.400  | 51.800 | 65.200 |
|                 | Covariance                        | .536   | .378   | .716   | .948    | .578   | .437   | .842    | 1.250   | .726    | .435   | .548   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Company support | Pearson Correlation               | .489** | .513** | .741** | .660**  | .583** | .631** | .477**  | .662**  | 1       | .626** | .642** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   | .000    | .000   | .000   | .000    | .000    |         | .000   | .000   |
|                 | Sum of Squares and Cross-products | 59.483 | 55.917 | 94.933 | 83.983  | 59.400 | 67.083 | 60.683  | 86.400  | 114.367 | 70.733 | 80.183 |
|                 | Covariance                        | .500   | .470   | .798   | .706    | .499   | .564   | .510    | .726    | .961    | .594   | .674   |
|                 | N                                 | 120    | 120    | 120    | 120     | 120    | 120    | 120     | 120     | 120     | 120    | 120    |
| Career Growth   | Pearson Correlation               | .520** | .691** | .521** | .370**  | .485** | .588** | .278**  | .402**  | .626**  | 1      | .712** |
|                 | Sig. (2-tailed)                   | .000   | .000   | .000   | .000    | .000   | .000   | .002    | .000    | .000    |        | .000   |

## Learnability: An Inevitable Skill Needed for Sustenance in Industry 4.0

|                   |                                   |        |        |        |        |        |        |        |        |        |         |         |
|-------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
|                   | Sum of Squares and Cross-products | 62.467 | 74.333 | 65.867 | 46.467 | 48.800 | 61.667 | 34.867 | 51.800 | 70.733 | 111.467 | 87.867  |
|                   | Covariance                        | .525   | .625   | .554   | .390   | .410   | .518   | .293   | .435   | .594   | .937    | .738    |
|                   | N                                 | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120     | 120     |
| Financial Benefit | Pearson Correlation               | .378** | .567** | .578** | .277** | .487** | .560** | .272** | .457** | .642** | .712**  | 1       |
|                   | Sig. (2-tailed)                   | .000   | .000   | .000   | .002   | .000   | .000   | .003   | .000   | .000   | .000    |         |
|                   | Sum of Squares and Cross-products | 50.242 | 67.458 | 80.967 | 38.492 | 54.200 | 65.042 | 37.842 | 65.200 | 80.183 | 87.867  | 136.592 |
|                   | Covariance                        | .422   | .567   | .680   | .323   | .455   | .547   | .318   | .548   | .674   | .738    | 1.148   |
|                   | N                                 | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120     | 120     |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

### 5.3. Mann-Whitney Test

**Table 6 Ranks**

|                   | Gender | N   | Mean Rank | Sum of Ranks |
|-------------------|--------|-----|-----------|--------------|
| Job Demands       | Male   | 99  | 59.78     | 5918.00      |
|                   | Female | 21  | 63.90     | 1342.00      |
|                   | Total  | 120 |           |              |
| Technology        | Male   | 99  | 60.38     | 5977.50      |
|                   | Female | 21  | 61.07     | 1282.50      |
|                   | Total  | 120 |           |              |
| Trainer           | Male   | 99  | 58.86     | 5827.00      |
|                   | Female | 21  | 68.24     | 1433.00      |
|                   | Total  | 120 |           |              |
| Complexity        | Male   | 99  | 62.61     | 6198.00      |
|                   | Female | 21  | 50.57     | 1062.00      |
|                   | Total  | 120 |           |              |
| Interest          | Male   | 99  | 63.74     | 6310.50      |
|                   | Female | 21  | 45.21     | 949.50       |
|                   | Total  | 120 |           |              |
| Family            | Male   | 99  | 57.91     | 5733.00      |
|                   | Female | 21  | 72.71     | 1527.00      |
|                   | Total  | 120 |           |              |
| Colleagues        | Male   | 99  | 57.69     | 5711.00      |
|                   | Female | 21  | 73.76     | 1549.00      |
|                   | Total  | 120 |           |              |
| Company support   | Male   | 99  | 58.74     | 5815.50      |
|                   | Female | 21  | 68.79     | 1444.50      |
|                   | Total  | 120 |           |              |
| Job Migration     | Male   | 99  | 59.77     | 5917.00      |
|                   | Female | 21  | 63.95     | 1343.00      |
|                   | Total  | 120 |           |              |
| Career Growth     | Male   | 99  | 58.51     | 5792.50      |
|                   | Female | 21  | 69.88     | 1467.50      |
|                   | Total  | 120 |           |              |
| Financial Benefit | Male   | 99  | 57.96     | 5738.00      |
|                   | Female | 21  | 72.48     | 1522.00      |
|                   | Total  | 120 |           |              |

**Table 7** Test Statistics

|                        | Job Demands | Technology | Trainer  | Complexity | Interest | Family   | Colleagues | Company support | Job Migration | Career Growth | Financial Benefit |
|------------------------|-------------|------------|----------|------------|----------|----------|------------|-----------------|---------------|---------------|-------------------|
| Mann-Whitney U         | 968.000     | 1027.500   | 877.000  | 831.000    | 718.500  | 783.000  | 761.000    | 865.500         | 967.000       | 842.500       | 788.000           |
| Wilcoxon W             | 5918.000    | 5977.500   | 5827.000 | 1062.000   | 949.500  | 5733.000 | 5711.000   | 5815.500        | 5917.000      | 5792.500      | 5738.000          |
| Z                      | -.537       | -.087      | -1.181   | -1.579     | -2.437   | -1.854   | -2.010     | -1.274          | -.527         | -1.495        | -1.843            |
| Asymp. Sig. (2-tailed) | .591        | .930       | .238     | .114       | .015     | .064     | .044       | .203            | .598          | .135          | .065              |

a. Grouping Variable: Gender

Mann-Whitney test ranked the top three factors as Technology, Job migrations and Job demands. Technology is the driving force of the world since its prominence from 1990 to till date. That is the technology updation in every field needs the employees to learn it and implement it in their work environment to get benefitted from it.

Job migration is also affecting the learning in employees as they want to represent themselves suitable to the new job. An employee will be interested to migrate when he or she gets an increase in the salary or emoluments, or designation or most importantly self satisfaction.

Job demands is another important factor as the changing role of an employee is making the employee to learn many things.

## 6. OTHER FINDINGS FROM THE STUDY

- Males have responded that their interest towards learning is the most important factor affecting their learning. Females have opined that the family influences a lot on the learning process of individuals.
- In the process of learning the employees are expected to learn Technical skills followed by Managerial and Soft skills. Irrespective to the industry they are working in the employees are being asked for the technology to be sustainable in the market.

## 7. CONCLUSION

Thus it is very clear that the employees in various fields need to upgrade their skills regularly to sustain in the industry. Learning should be lifelong process and cannot be left behind at any stage in the life of an individual.

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