International Conference on Social Science, Arts, Business and Education

(ICSSABE-19)

Athens, Greece

26th August, 2019

International Institute for Research in Science and Technology

www.iirst.com
Editorial:

We cordially invite you to attend the International Conference on Social Science, Arts, Business and Education (ICSSABE-19), which will be held in Athens, Greece on 26th August, 2019. The main objective of ICSSABE-19 is to provide a platform for researchers, Internet Linguistics, academicians as well as industrial professionals from all over the world to present their research results and development activities in Social Science, Arts, Business and Education. This conference provides opportunities for the delegates to exchange new ideas and experience face to face, to establish business or research relations and to find global partners for future collaboration.

These proceedings collect the up-to-date, comprehensive and worldwide state-of-art knowledge on Social Science, Arts, Business and Education. All accepted papers were subjected to strict peer-reviewing by 2-4 expert referees. The papers have been selected for these proceedings because of their quality and the relevance to the conference. We hope these proceedings will not only provide the readers a broad overview of the latest research results on Social Science, Arts, Business and Education but also provide the readers a valuable summary and reference in these fields.

The conference is supported by many universities and research institutes. Many professors played an important role in the successful holding of the conference, so we would like to take this opportunity to express our sincere gratitude and highest respects to them. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra help in the review process, and to the authors for contributing their research result to the conference.

Since June 2019, the Organizing Committees have received more than 60 manuscript papers, and the papers cover all the aspects in Social Science, Arts, Business and Education. Finally, after review, about 11 papers were included to the proceedings of ICSSABE-19.

We would like to extend our appreciation to all participants in the conference for their great contribution to the success of International Conference 2019. We would like to thank the keynote and individual speakers and all participating authors for their hard work and time. We also sincerely appreciate the work by the technical program committee and all reviewers, whose contributions make this conference possible. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard work.
Acknowledgement

IIRST is hosting the International Conference on Social Science, Arts, Business and Education this year in month of August. International Conference on Social Science, Arts, Business and Education will provide a forum for students, professional engineers, academician, and scientist engaged in research and development to convene and present their latest scholarly work and application in the industry. The primary goal of the conference is to promote research and developmental activities in Social Science, Arts, Business and Education and to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in and around the world. The aim of the Conference is to provide a platform to the researchers and practitioners from both academia as well as industry to meet the share cutting-edge development in the field.

I express my hearty gratitude to all my Colleagues, Staffs, Professors, Reviewers and Members of organizing committee for their hearty and dedicated support to make this conference successful. I am also thankful to all our delegates for their pain staking effort to travel such a long distance to attain this conference.

Dr. Patrick Reid
Director
International Institute for Research in Science and Technology (IIRST)
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Domestic Labour Rights Belongs to Her if Domestic Labour Belongs to Her-Kind: a Situational Analysis of the Domestic Workers in West Bengal

[1]Tata Institute Of Social Sciences ,Tuljapur Campus

Abstract:---Domestic labour in India has not been recognised as a form of work and has neither been considered under Labour laws. The work involving care in the private sphere of home has been feminized. Thus female domestic workers face an array of problems due to non-recognition as labour. The paper expounds on the situation of domestic workers and their condition of work in West Bengal and thus suggests why we need National and not state wise legislations for the welfare of domestic workers and that India needs to urgently ratify the 189th Convention of ILO.

Keywords—Domestic Labour , Unrecognised , Decent Work Conditions , National Legislation

I. INTRODUCTION

The history of domestic labour in India relegates the position of domestic work to that of subjugation. The traditional domestic worker has his or her rights resting on the feet of the master and his hierarchy was lower than his employer either on the basis of caste, class or gender. The contemporary market driven economy shifting from its' earlier agrarian base has redefined domestic work as an industry which caters the need of maintenance of the household order. ... It is also associated with the growth of urban middle class, especially the increase in the number of women working outside their home and the availability of cheap domestic labour (MehrotraSurabhi , 2010 ). However the conventional hierarchical suppression remains.

Domestic work includes mental, manual and emotional aspects, including care work that is necessary to maintain people and communities (Anderson 2000) Domestic work thus involving social reproduction or nurture and is centred in the private sphere of the house. Having these characteristic features the occupation is highly feminized. According to NSSO data 2009-2010 out of 2.52 million domestic workers in India approximately 57 percent are women. Also two-thirds of these domestic workers belong to urban India. Both the above statistics combined we can infer that the female labour force specifically in urban India mans the domestic labour profession. The fact that domestic work does not demand much skills or specialisation is a major reason for women getting involved in this profession. However care receives no recognition so does domestic work, it is undervalued and thus remains unrecognised.

The lack of labour laws for domestic workers not only makes this work invisible and the attitude of the employers highly paternalistic but also poses an array of difficulties for the female domestic worker including physical assault, lack of maternity benefits and also sexual harassment at workplace. However in most of the cases the victims are bereft of rights over their rights because of no comprehensive labour laws in their favour. In many cases workplace violations go unreported.

In the wake of the 189th Convention of ILO vocalising the rights of domestic workers and their recognition we need to analyse the status of domestic labour in India and the scope of legislations in favour of due recognition of domestic work under the fold of labour. The following paper, expounds on field based analysis on working conditions of domestic workers in the State Of West Bengal and analyses the need for immediate legislation for the domestic workers at the Centre.

II. FINDINGS

The following tables are based on filed based interviews undertaken with 46 female domestic workers in the selected slums of Calcutta namely Dhakuria ( South 24 Paraganas ) and Hridaypur ( North 24 Paraganas ). The domestic workers of these areas are heeded by Srishty an NGO working for women in the informal sector.

Table 1.1:

<table>
<thead>
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<th>Number of Houses Worked In</th>
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<tr>
<td>One House</td>
</tr>
<tr>
<td>More than one House</td>
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</table>
Domestic Labour Rights Belongs to Her  if Domestic Labour Belongs to Her:Kind: a Situational Analysis of the Domestic Workers in West Bengal

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<th></th>
<th>13</th>
<th>33</th>
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<tbody>
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<td><strong>1.1.2</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Number of Hours Worked Per Day:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 9 Hours</td>
<td>More than 9 Hours</td>
<td>&gt;= 12 hours</td>
</tr>
<tr>
<td>38</td>
<td>2</td>
<td>6</td>
</tr>
</tbody>
</table>

**Analysis:**

According to Domestic Workers Welfare and Social Security Draft Act of 2010

1. “Working hours: no employee shall be required or allowed to work in any household for more than nine hours in a day or for more than 48 hours in a week. Working hours are defined as per the nature of work and taking 8 hours as maximum, with sufficient periods of rest and food for full-time workers, provided that the work span should not be more than 12 hours for live-in (with 3-4 hours) rest in-between...provided further that any adult employee may be allowed to work in such household premises for any period in excess of the limit fixed under this section subject to payment of overtime wages if period of work exceeds 48 hrs a week and including overtime work does not extend to 10 hrs in any day and in aggregate 50 hrs in any week.”

6. **Interval For Rest – The Periods Of Work For Employees In A Household Shall Be So Fixed That No Period Shall Exceed Five Hours Before She Has An Interval Of Rest Of Not Less Than Half Hour.**

Considering this propositions we analyse table 1.1 we would see that a majority of workers work in more than one houses,(33 out of 46 or 71.7 %), thus exactly how many hours a domestic worker can be made to work in a day would be a better yardstick of deciding working hours I feel, since their work falls under the unorganised sector, there are no fixed wages per hour as implemented on a uniform basis by the State Government yet, thus they try to work for the maximum hours possible in maximum number of households to earn their living, the highest recorded within the sample is 9 houses per day by a particular respondent 13 out of 46 respondents works in one house only as shown in table 1.1, 4 out of them work for greater than 12 hours, the kind of work done by three of these four are that of an “AYA”(nursemaid), they are not permanent residing members in the employers’ house. In general as able 1.2 showcases out of 46,6 work for more than 12 hours, 2 work more than or equal to 9 hrs. and 38 or about 82 % work for less than 9 hours. Two interesting analysis can be drawn from this, firstly the respondents working for less than 9 hours are the majority or 82% so knowingly or unknowingly the working hours requirement is not getting violated in 82% of the cases. This working hours is significant because for domestic workers have double burden of domestic work and for most of my respondents spare time meant doing household work, the concept of leisure is so obscure for them that it became impossible for me to tabulate what they did as leisure activities in the course of the day. Thus limiting their working hours to 9 hours would give them more space and time at their homes and perhaps spare time would get channelized to some useful activities like learning sewing, or being aware of the world through daily news etc.

It was seen that workers employed as “AYAS”(nurse-maid) did not receive any timely breaks during their course of work, they said even during their lunchtime they were called to do some work or the other. They said that originally it is the rule of several service centres to employ them for 11 hours but that got extended to 12 hours in practice. This shows that the maids who were employed as through agencies and stayed at the house for longer periods faced more harassment.

**Table 2:**

<table>
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<th></th>
<th>Does Not Receive one weekend holiday</th>
<th>Receive one weekend holiday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>45</strong></td>
<td>1</td>
<td></td>
</tr>
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</table>

**Analysis:**

The above table basically indicates that there is no concept of one holiday in a week (i.e. a weekend) or four holidays in a month, of the 46 respondents only one formally received one holiday every Sunday of the month, the rest did not get a weekend holiday as their right. There were various responses on how they managed to get holidays in spite of no formal holidays, some made excuses, some lied about ill health, some honestly took a leave and there was a cut from their salary as per the number of days missed multiplied by the wage for each day, this mainly happened for all AYAS (nursemaids) who receive wage on a daily basis. The fact is that none of these 45 respondents knew that they deserved one holiday in a week.

On a slightly different note, taking a leave without prior notice for genuine reasons too can lead to serious consequences, an example was the case of Kalpana Halder, who lost her job for not being able to come to her employers’ place for one evening due to heavy rainfall, the employers were also not ready to give her the due wages for the number of days she had worked in the month, a group of domestic workers went to the house of this employer to demand re-recruitment or compensation by giving wages of two months at least. In this light I would like to say that maternity leave and sickness leave along with a 15-20 days
leave in the year as being circulated as their demands in various government sectors and NGOs is not just a demand, it is their dire necessity. Many lose their job on becoming pregnant whereas it is their right to get a maternity leave, this can be secured by organising them through service centre, the pregnant mother can be substituted with another worker, and post-giving birth the mother can be given work in some other household from the service centre itself.

Another point that I want to drive home is that giving the domestic workers a leave on Sundays the day when employers to get a leave and want to relax can be an issue but I feel, this would rise only when domestic work is not recognised at par other professions and secondly domestic chores are gender stereotyped and in absence of domestic help the male members of the family should be given some domestic work responsibility during the weekends.

Table 3:

<table>
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<tr>
<th>WAGES RECEIVED PER MONTH</th>
<th>&lt;500</th>
<th>500-1000</th>
<th>1000-5000</th>
<th>5000-8000</th>
<th>=&gt;9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>5</td>
<td>25</td>
<td>16</td>
<td>nil</td>
<td></td>
</tr>
</tbody>
</table>

Analysis:

The Central Government has proposed a 9000 salary for domestic workers per month. Taking this into consideration I have tabulated the above table. This proposal has not been implemented yet. But if we take this as the yardstick, we see that none of my respondents receive this wage per month, the majority of my respondents (54.34%) receive wages between the range of 1000-5000, followed by 1000-5000 (34.7%) , 5 out of 46 even gets salary ranging between 500-1000.

Now evaluating the necessary salary that domestic workers should receive becomes very difficult because wages are not fixed on a per hour basis and moreover most workers (33 out of 46 for my sample as table 3.1 indicates) works in more than one houses. The wages for a particular kind of work has also not been fixed. For example I took the work of a cook to compare the wages of three workers from the same slum area of Dhakuria. A respondent named Lakshmi Mandal who does the job of cook in three houses gets rupees 3000 per month as her total wage whereas RumaMohanty who works in two house as a cook gets rupees 3000 too. Another respondent named Mathura Mandal who works for an NGO as a cook and cooks for 38 people per day gets only 6500 rupees per month, thus it is obvious that different work should be classified and per hour wages determined accordingly.

While working with Sristy I came to know that a demand has been fixed at 54 rupees per hour. This demand was reached at by considering various factors like yearly expenditure on food, house rent, education, health related expenditure, expenditure on clothes etc. This is a progressive measure departing from the traditional approach of considering only calorie intake and extending requirement of money for a holistic set of activities.

Recently Rajasthan government has come up with a comprehensive policy regarding wages of domestic workers (Times Of India February 2016.), according to this notification the labour for an entire day (8 hours) is Rs.5642 per month, this came into effect from January 1, 2016. For overtime employers will have to pay workers double the minimum fixed per hour for every hour exceeding 8 hours. Furthermore domestic helps hired for just washing dishes will have to pay a minimum of rupees 705 per month for a household of four, and for every additional member 10 percent more. I think this is a well-planned policy and can be implied in West Bengal as well. Such an approach of paying specific money for specific jobs is essential to prevent casualization of labour. The market the proponents of free market would say, should be the deciding factor for determining the wages of the workers however the market can also systematically exclude some people such as these female domestic workers whose skills have yet not been quantified by the government. Thus besides fixing rate for special work a minimum wage support is necessary.

Table 4:

<table>
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<th>EXPLOITATION AT WORKPLACE</th>
<th>Has Faced Any Kind of Exploitation at Workplace</th>
<th>Has not faced any kind of exploitation at workplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

The Kinds of Exploitations talked about:

- Does not let to use washroom
- Fires worker without prior notice and valid reason and does not pay the deserved wages before firing
- Does exploitation
- Beating
- Delay in giving fees
- Not allowed drinking water
- No rent or interval in work
- Forced to do chores that they are not paid for

Analysis:

This above table gives a general over-view of the percentage facing exploitation at workplace, which was found to be approximately 21%. The kind of exploitation faced at workplace also has also been delineated. The major limitation in tabulating exploitation are two firstly the respondents do not openly come out with the exploitations often, in fear of being fired by the employer, many cases of sexual harassment are not even recorded, secondly in some cases the respondents narrative of the exploitation faced on hearing becomes a biased one sided understanding of the exploitation, the employers’ account of the incident must also be duly considered.

Breaking The Silence a public meet held on 20th December 2016 had brought up 48 cases of violations of rights of
domestic workers through various kinds of exploitations ranging from sexual exploitation to loss of income due to child-birth. Such public platforms to allow domestic workers to voice their opinion and to stand in solidarity against their oppressors are required.

III. CONCLUSION

India has yet not ratified the 189th ILO convention on rights of domestic workers. Till date there has been no finalized National legislation speaking about the rights of Domestic workers, a draft policy for Domestic Workers were reached at in the year 2015 but it has not reached the implementation stage. Seven states in India has passed minimum wages declaration and two of these states have constituted welfare boards for them. As of West Bengal is concerned so such measures has been taken. At present there are two trade unions constituting of Domestic Workers namely PaschimBengalGrihaParicharikaSamiti and SramikSahayataKendra. These unions has yet not received legal recognition from the State Government and are striving towards the same. In the absence of government law in favor of Domestic workers the state run NGOs, Sristy, ActionAid, Durbar Disha, Pratikar to name a few are collaborating for voicing the rights of the domestic workers. In 20th December 2016 SramikSahayata Kendra had arranged a public hearing of around 48 untold cases of harassment as faced by the domestic workers with the aid of several NGOs working in this field. The hearing was successful and was attended from people from different walks of life ranging from the Chairperson of the West Bengal Women’s’ Commission to advocates and academicians and most importantly the domestic workers themselves. The purpose of this collaboration was to arise in the hearts of the suppressed domestic worker the collective awareness about their rights. Of the decisions arrived at this hearing the following are the high-lights:

♦ Domestic workers should be first and foremost recognized as workers and given right over decent standards of work as propounded by the 189th ILO convention
♦ The panel opined that Inter-State migrants labor Act to be made applicable for domestic workers
♦ As per the panel the Unorganized workers social security act 2008 ,and Domestic Workers’ Regulation of Employment ,Conditions of Work , Social Security and Welfare Bill ) , 2008 Domestic Workers Welfare and Social Security Act .2010 – these three bills must be made into Acts immediately by the Central Government
♦ Domestic Workers’ platform should demand from the Central Government the monetary allocation for the Food Security Act , which would enable all pregnant domestic workers to get Rs.6000 as entitlements and additionally 26 weeks maternity leave and provision for crèche
♦ The idea of unionization of domestic workers were welcomed.
♦ It would be ideal for the domestic workers to have a flag and an identity card , as first steps towards forming an union
♦ The organizations formed for the welfare of the domestic workers should take into consideration that domestic workers are not a homogeneous group the different socio-economic –religion backgrounds should be catered to
♦ The core demands were identified to be minimum wage and child care unit for maternity benefits
♦ The State should establish a welfare board for domestic workers
♦ The panel opined greater direct participation of domestic workers in elections at every level and that they being vote- banks their demands should be effectively put before the political parties
♦ The panel concluded in a strong demand for a National Legislation for domestic workers

While discussions and panels concerning the rights of domestic workers are being held it is important to consider what the outcome is. Are the voices of protest so raised heeded by the Centre? So far the welfare of the labourers has surfaced in acts like the Unorganised Workers’ Social Security Act 2008. The rights of the marginalized labour as such has been secured through several department like health, education etc. However the rights of the labour as such is not declared in any particular act. Furthermore whenever we say labour the primacy is given to the male labour working in construction sites or transportation. The female labour force working as helpers to the male labour force or at home go unrecognized. Such delay in legislation is only leading to a perpetuation of the informal, unrecongnised and ostracized from the law group. The female domestic labourers unable to secure the a healthy childhood or cress facilities for their children due to lack of wage and work security and cress are forced to send their children specially female children to perform the same chores. This is how the vicious unskilled labour force gets perpetuated. The workers themselves are losing faith on the glimmering ray of hope for their rights and subjugation is slowly being ingrained into their consciousness. Soon the market led oppression of the women belonging to this sector of the informal economy would be no different from the slavery practiced in yesteryears.

REFERENCE


5. Documented reports on BRAKING THE SILENCE : TESTIMONIES AND RECOMMENDATIONS FROM PUBLIC MEETING AND PANEL DISCUSSION ON THE CASES OF VIOLATION OF THE RIGHTS OF THE DOMESTIC WORKERS IN WEST BENGAL ( online print of this is not available)


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♦ Mr. SubrataKar , founder of Sristory For Human Society and Research Guide
♦ Sristory For Human Society , 271 , R.N. GUHA ROAD KOLKATA-700074 ( provided guidance for collection of field data )
Environment – for the Servival of Human Paternity


Asst. Prof. Mathematics, Science and Humanities Department Sri Sairam College of Engineering, Anekal, Bengaluru

[3][4][5] Department of Science and Humanities

Abstract: In this paper we are discussing about the environment completely. Here our aim is better than later to know mistakes and correcting it. As we are in critical state to survive on earth. Also we will come to know how men utilizing the environment. The evils created by the human paternity in earth: pollution, increasing temperature, deforestation, chemicalizing both soil and water. Polluting air as well sunrays. We will discuss here about the effects of all this problems created by the human, like dangerously facing health problems, unbalancing environment, disappearing of many species, both in case of animals as well in plants and finally how earth has becoming place which will become unfit to live. Here we are not just identifying the problems or mistakes of human. Our main aim is to solve the problem making the environment friendly to human. For that men how they have to change themselves are going to discuss like non-utilization of plastic, proper utilization of natural resources, a forestation, stoppage of chemicals in agriculture, minimization pollution

I. INTRODUCTION

Environment a much known word to each and every human being but very complex. As environment is not same as it was in the initial days of human being born on earth. Because men added to it n-number of things in which many are not required for environment. Environment has given everything to live comfortably on earth. But men with over greediness and our ambition utilizing environment to a maximum extent. By this process we human being created different environment on earth completely different from our existence. The environment which men created is becoming unfit to live because of imbalance which has happened in the natural environment which is because of human activities on earth without boundary. Now our concern here is how to safeguard our self safely by bringing balance in the environment as men is in search of other planet to live happily and comfortably. Before going to the problem we will know what is actually environment is all about and then we will go inside of it.

II. DEFINITION TO ENVIRONMENT

In general sense environment means very simple that the surrounding where we live, in which human is small part actually. But as time prolonged men called him different from other living hood on the earth and he has started so called development from the beginning of the earth’s existence. As he was small part of environment now natural environment become very small part of men’s so called developed environment by neglecting and rejecting what god has given to him. In comic sense we can tell now that environment on earth is not created by god, it is human gods! Invention and creation, by destroying the natural environment, By knowing destroying himself and putting full stop to whole living on earth.

III. THE PATH OF DESTRUCTION

As god created this earth by creating a beautiful and safe environment and given us the place to live happily and comfortably. As time goes on men identified him that he is different from all other in the environment. As he is maturing he is started distancing from all the parts of the natural environment and started dominating by putting legs in every part of the environment and creating his own creatures. As men go on changing his way of living from time to time he started exploiting environment slowly from generation to generation. When men started his life by making his own group and started using resources and creating things which he needs for his daily need. Men first step is started with agriculture by starting clearing trees from forest and preparing soil suitable for agriculture for food for him. As second step of agriculture he was started constructing dams for storing water for agriculture purpose through that disturbed environment by removing trees and started deforestation. As men started improving his living style. He started constructing houses by using natural resources. After that he has improved further in living style. He has started inventing many things to improve his living condition like transport and infrastructure to
transportation like roads, railways, water ways, airways etc. For all this men started using fertile and forest land, rocks, ore and fuel resources which further reduced forest and useful land.

Again men started expecting much comfortability in living so he has started many industries to invent and manufacture products and services which provide luxury to the human life. For all this man was in need of electricity for that he has depended on coal initially to produce electricity later further he depended on water and wind for power generation. In the recent days he further using solar and atomic resources for the generation of electricity as the demand increased. This has become very dangerous to the environment.

Along with that we human beings started constructing infrastructure for housing and his other activities like industrial production and servicing and business by destroying forest.

These are the many ways men started destroying forest and constructing his own concrete forest which is spoiling natural environment in many ways. As per current data around 160000 acres of forest is destroying by men every day for different reasons by loosing around 50,000 plants. IN the past agriculture was doing by men in natural ways by using natural manures, but now as science improved it has its image in agriculture also. For getting more and quick yields we have started using chemical fertilizers which are dissolving in soil and water and pesticides polluting are by mixing with it. Because of the above reasons the soil has become barren and not becoming useful for agriculture also spoiling the environment.

Next is industrialization which is much dangerously effecting the environment. For starting industries men started cutting trees and utilized the same land for industrialization because of this forest area came down drastically. Also the different types of waste coming out of industries contaminated air, water and soil, polluted all the natural sources. Also this has created sound pollution and light pollution by omitting some dangerous light rays.

Next is turn of general public with their daily activities for their comfort and luxury started overutilization of natural resources and power started exploiting the nature. Also for his greedy he has started constructing more infrastructures and stated depending more on machinery for his work to do which leads in to serious ways of pollution which leads in to depletion of ozone also. Also wasting the natural resource like water ore etc. Usage of useless things for his comfort like plastic and equipments like refrigerators, coolers, and heating equipments release dangerous gases which lead in to depletion of ozone. About more than 8 million tones of plastic is dumping to the sea every year in the world.

Adding to this, man with his greed started using atomic fighting with others through which he is destroying himself as well also the living things on the earth one best example to this is Hiroshima and Nagasaki of Japan incident.

This is how men has walked in the way of destroying the natural environment and created his own artificial and dangerous environment like digging his own grave yard.

IV. EFFECT OF HUMAN DEVELOPED ENVIRONMENT:

As I was mentioned instead of becoming a part of natural environment men become dominant and created his own environment containing concrete forest with several other pollution agents connecting to it and finally made natural environment as small part of it. Because of this artificial environment men lost many things in going towards luxury and comfort, now feeling effects of this directly.

As men started destroying forest for several uses which is affecting in such a way that we care feeling shortage of oxygen now. Not getting proper rain. As forest land becomes dry land it become barren land and becomes no use. Soil erosion started as there is no strength in the soil. One more main cause created due to lessening of forest is increasing of pollution and temperature. Because of farming methods which currently following by men to get more and quick yield leads to polluting soil and water source by chemical fertilizers, finally soil will become poisonous and there will be of no use of it and air pollution because of usage of chemical pesticides for crops leads into dangerously effecting the environment. This will together affect human directly that whatever food we have contains dangerous chemical contents.

Usage of artificial products in daily life which leads into mixing of chemicals to soil, water and also to air. This leads into pollution of the entire earth. One such a material men is highly depending is plastic which is effecting environment in such a way that the air is polluted to a maximum extent is because of plastic, as manufacturing process of plastic releases dangerous gases as well plastic doesn’t decompose on its own so to destroy if we burn it, it pollutes the air very dangerously.

Next effect which we can see is the major effect in all the constituents of environment such as air, water, soil, light are getting polluted along with that sound also increased beyond the normal limit.

As the industries releasing dangerous gases, chemicals in liquid and solid form during the process of
production of different products so which leads into pollution of air to maximum extent. Water source is contaminated to maximum extent by industrial waste which leads into water pollution also industries polluting soil to maximum extent by solid waste of industries which leads into reduction of useful land & water for use. Beyond all this sound produced by industries may be some times beyond audible limits which lead into sound pollution. Adding to all this some industries omit dangerous light rays which mixes with sun rays leads into light pollution too. Because of all this pollution temperature of environment increasing and also we are not getting oxygen to breathe, proper water to drink which makes difficult to live. Over consumption of electricity leads into going for producing electricity by dangerous way like atomic source. Which is dangerous than any other process which may destroy entire earth itself. In some daily routines men polluted environment in such way that we are making earth’s safety jacket called ozone to deplete. Like this because of human activities environment got polluted and spoiling environment which is making us difficult to live on earth.

V. MEASURES TO SOLVE THE PROBLEM

Directly we can tell that planting more and more oxygen omitting trees is one of the solutions for reducing the pollution and improving the quality of the soil for growing more trees and to get rain by reducing temperature. Next one more step is reduction of plastic and related items drastically. Starting again environmental friendly methods of agriculture process without using chemical fertilizers. Taking more initiatives by the industries to reduce the omission of pollution agents to the different constituent of earth like water, soil, air etc. Men also should take initiative in reducing the utilization of natural resources and exploitation of natural resources. Men also should reduce usage of machines and depending on them for the work to get it done. This leads into less utilization of fuel and electricity so nature will be saved as we are going to depend nature to maximum extent. Also over utilization of natural resources should be reduced and should not disturb the nature for our greedy. These are some of the initiative which solves the problems for us.

VI. CONCLUSION

God has given everything to men on earth to live comfortably by using it to limited extent. But men utilized all the resources to maximum extent and exploited all the resources because of his greediness and for his luxury and comfort ability. Now dangerous alarm is ringing that we have to take initiative to bring back environment to normalcy. So that the men can survive on earth for some time if not going to do the same mistake of exploiting the environment and digging his own grave yard. Instead of that let us and take a oath of changing the way of living and taking initiative to improve the environment to become part of environment to live safely on earth.
Abstract: The present study is a succinct manifestation of the extent to which text typology (i.e., narrative, expository) can have an effect on English Department learners' strategy use during the reading act at the pre-testing as well as post-testing stages. Two selected Moroccan EFL groups, control (n=50) and experimental (63), majoring in English Language Studies, were addressed with a view to thoroughly investigating the issue at hand and reaching robust, comprehensive findings. For achieving this, a series of such research instruments as reading comprehension tests (i.e., pre-test, post-test), reading strategy instruction and reading comprehension texts (i.e., narrative, expository) were implemented throughout the conduct of this research. The findings revealed that text typology is a strong variable affecting the frequency of the use of some strategies among both EFL groups (i.e., control, experimental) at the pre-test and post-test levels. Finally, some useful implications and applications relevant to textual synthesis are presented and a few suggestions for future research are called upon.

Keywords: expository text, narrative text, reading comprehension, strategic reading, strategy use, text genre

I. INTRODUCTION

It is worthy of claiming that undertaking the reading comprehension act can only come into effect if strategic reading processes are invoked and tapped by EFL learners. As postulated by many reading researchers (e.g., Goodman, 1970; Olshavsky, 1976-77; Yang, 2006; Shang, 2011), reading is an active process in which the reader utilizes efficient strategies to understand the textual information. This reflects the view that the receptive skill of reading, which represents a huge part in the language learning process in any academic context, can be conducted in a successful way only if learners are highly acquainted with the underlying strategies that are deemed indispensable footsteps towards the achievement of textual comprehension. This being said, it is worthy of note that there exists an interactive interplay between the reading strategy use and the meaning-getting process.

Even if many reading research specialists have delved into a deep investigation of the reading act with respect to text genre (i.e., narrative, expository) in their studies (e.g., Goelman, 1982; Zabrucky& Ratner, 1992; Best et al., 2008; Baretta et al., 2009; Yoshida, 2012), they rarely, if ever, tend to cope with the extent of the frequency of diverse reading strategy use as to narrative and expository texts. In other terms, the postulate that some reading strategies are used more frequently than others among Moroccan EFL learners whilst processing academic texts of narrative and expository sorts is in need of academic research support and sufficient corroboration. Additionally, throughout the existing reading research pertinent to text genre, the effect of the latter on a single reading strategy or some specific strategies is a common, constant investigation conducted by researchers. Thus, the present study tends to bridge the apparent research gap by exploring the correlation between the variable of text genre (i.e., narrative, expository) and such diverse strategies as predicting, inferring, visualizing, paraphrasing, rereading at the pre-testing and post-testing levels. This will manifest both the plain interplay of text genre and strategic reading mode among Moroccan EFL learners and the extent to which the text-based strategies are „genre-specific”.

II. THEORETICAL FRAMEWORK

A. Strategies

Strategies are viewed as “potentially conscious and controllable activities” (Pressley et al., 1985). By being engaged in a cognitive task, EFL learners, especially mature ones, deliberately select and employ strategies with the purpose of facilitating the process of reaching an adequate comprehension. In fact, the use of strategies is inextricably interwoven with both simple tasks which require a small amount of efforts and highly complex tasks that entail concentration and focused attention. This shows that the making use of strategies, as important footsteps to fully process information and make learning tasks easier, necessitates intention and effort on the part of the learner. In this sense, Ellis (1994) notes that if
strategies become so automatic that learners are no longer conscious of using them, they will lose their significance as strategies. This reveals that the component of "consciousness" is primarily associated with the use of strategies. In the context of reading, Block (1986) admits that strategies "indicate how readers conceive a task, what textual cues they attend to, how they make sense of what they read, and what they do when they do not understand". In principle, strategies are primarily made use of by learners with a view to constructing a complete understanding of a particular written text. In this regard, strategies do assist readers to undertake their reading task in a successful manner by relating their previously acquired knowledge to the text content and by attempting to predict and infer the sought meaning. Additionally, paraphrasing, and comprehension checking are other strategies that readers employ in an attempt to attain textual understanding. Plausibly, strategies are the mental operations via which readers purposefully cope with the text and make sense of what they read (Barnett, 1988).

B. Importance of Strategy Use
The use of strategies in reading written texts has proved to be an efficient means of constructing a sufficient understanding of the included content. This view is supported by Huang, et al. (2009) who posit that "the effective use of reading strategies has been recognized as an important way to increase reading comprehension". Put differently, the development and use of certain strategies can provide EFL learners with a solid basis upon which they approach various kinds of textual discourse (i.e., narrative, expository) and improve their reading performance in an efficient way. Accordingly, the functioning role of strategy use is embodied in facilitating the process of extracting the meaning from the text. Many studies have revealed a close link between strategy use and reading achievement (e.g., Barnett, 1988; Anderson, 1991; He, 2008; Huang et al., 2009; Li, 2010). In effect, the significance of the reading strategy use lies in enabling the learners to deal with a diverse range of written materials with a high degree of efficiency and perfection. In fact, since strategies represent "knowledge of procedures" (Pressley & Harris, 2008) that can be applied to any cognitive undertaking (e.g., text processing), they serve the ultimate purpose of accomplishing an effective comprehension of the textual content. They are deemed a potential medium via which learners can proceed in their reading process with a view to exploring the meaning of words/sentences and paragraphs more successfully. This reveals that the use strategies while tackling written texts of any type (e.g., narrative, expository) can be productive and useful.

C. Interactive View of Reading
The interactive approach involves “an integration and combination of both top-down and bottom-up approaches” (Celce-Murcia & Olshtain, 2000) since the task of textual reading, as a cognitive process, requires readers to rely on two diverse knowledge sources (e.g., background knowledge, textual information). This fact is espoused by Anderson and Pearson (1988) who posit that during the process of reading, the reader is expected either to find a mental „home“ for the textual information or to alter an existing mental „home“ in order to understand the new information (p.37). In this sense, reading written texts for attaining comprehension entails that readers match up what they already know with the text content. Thus, the process of depending on what is stated in the text and activating prior knowledge is the main principle upon which the interactive approach is strongly based.

Research Objectives & Research Questions
The current exploratory study has a two-fold purpose. It showcases the impact of text genre on Moroccan English department university learners” strategy use during the reading process. It is also intended to reveal the extent to which strategy instruction can impact English department university learners” strategy usage with regard to text type (i.e., narrative, expository). Accordingly, the following two research questions are deemed as a baseline for investigating the issue under critical consideration.

1- To what extent does text typology impact the Moroccan English department university learners” reading strategy use?
2- To what extent does reading strategy instruction impact Moroccan English department university
learners’ reading strategy use whilst reading narrative and expository texts?

III. METHOD

A. Participants
A sampled 113 Moroccan English department university students took part in the present study. The target EFL learners are at the first-semester level studying at the Faculty of Letters and Human Sciences, Mohammed V- Agdal in Rabat. Indeed, two groups were selected at random. One group consisting of 63 students was assigned to the experimental condition and the other group of 50 students, serving as the control group, received no treatment.

B. Procedure
Predicated on a pre-post-test design, the current exploratory study involves the administration of pre- and post-tests to the control and treatment groups. At the pre-testing stage, both groups (control & experimental) were pre-tested on narrative and expository written discourse and given a “self-report questionnaire”. Following this, the control group (50) was exposed to the traditional instruction of reading comprehension without being initiated into any systemic training in strategy application. On the contrary, the treatment group (63) was instructed in basic reading strategies for a semester-long period (Fall Term/ 2012). This was accompanied with a „self-report questionnaire“ for measuring the learners’ strategy knowledge and usage throughout the course of text processing (i.e., narrative, expository). The data reported by the target subjects in the „self-report questionnaire“ were computed through the Excel software Program (version 2007) in an attempt to reveal the frequency of strategy use among both groups (i.e., control, experimental) during the processing of narrative and expository written discourse. The strategic processes reported by the sampled learners were numerically counted. Further, illustrative figures reflecting the attained findings were used.

IV. FINDINGS & DISCUSSION

A. EFL Learners’ use of predicting in text reading
Upon the examination of the target subjects’ retrospective insights as to predicting, it can be declared that the overwhelming majority of the EFL participants made use of this technique as an effective means of facilitating their understanding of the text. This is showcased in Figure 1.

B. EFL Learners’ use of inferring in textual reading
As was the case with meaning prediction, inferring the meaning of words/sentences whilst coping with written discourse is effected by the learners on a regular basis. This is illustrated in the following figure.
As shown in Figure 2, all the target readers resorted to inferring the meaning of words and sentences. However, this inferential process can be executed in various ways as the primary recurrent moves learners have recourse to in their endeavor to interpret the textual content involves mainly "guessing the meaning from context" and "reading the whole sentence" or "relating the sentences to other ones". In fact, both the control and experimental groups had recourse to the inferring strategy while processing the text content (i.e., narrative, expository) at the pre-testing and post-testing levels. Thus, as claimed by many researchers (e.g., Moreillon, 2007; Baretta et al., 2009), the achievement of understanding is closely interrelated with the extent to which the readers can draw accurate inferences from the content of the texts.

C. EFL Learners’ Use of visualizing in text reading
Visualizing is invariably used by EFL learners in the act of reading. Its use by the groups (control & experimental) was primarily associated with the processing and synthesis of the narrative written texts. This is displayed in figure 3.

![Figure 3. EFL groups’ frequent use of visualizing at pre- and post-test stages](image)

Figure 3. EFL groups’ frequent use of visualizing at pre- and post-test stages
It is evident that most subjects (i.e., control, experimental) did not show heavy dependency on this mental process, namely in reading the expository text. This evinces the extended degree of implementing the visualizing strategy in tackling the narrative written discourse. Most notably, it can be acknowledged that the strategy of visualization was more frequently used by EFL learners in processing the narrative texts since the content of this genre entails the building up of mental images which extensively facilitate the comprehension process in varying ways. The fact that visualizing is bound up with the analysis of the narrative text is in concordance with Denis’s (1982) claim that “one interesting feature of narrative texts in particular is that they appear to induce visualization in the reader as part of the reading process”.

D. EFL Learners’ use of paraphrasing during reading
Paraphrasing was basically recruited by the participating EFL learners during the analysis and synthesis of both types of written texts (narrative & expository) at both the pre-testing and post-testing levels. The results are manifested in Figure 4.

![Figure 4. EFL groups’ frequent use of paraphrasing at pre- and post-testing](image)

Figure 4. EFL groups’ frequent use of paraphrasing at pre- and post-testing
In effect, though paraphrasing was used by the target groups in reading the narrative written discourse, a highly significant number of the learners in both groups did recruit the paraphrasing technique during reading the expository text in a substantive way. This features that by rephrasing some difficult statements and ideas set forth in expository written texts, EFL learners can make the textual content more accessible and easier to digest in an effective manner. This reveals that this strategic step can assist the target learners to interpret the message that the author/writer intends to convey via the text. However, paraphrasing is performed by the learners slightly better in the narrative than expository EFL text since the latter type requires more frequent use of paraphrasing which facilitates the achievement of adequate understanding (e.g., Geva&Reyan, 1985; Zabrucky& Ratner, 1992).

E. EFL Learners’ use of rereading
Occupying a fundamental part of the textual comprehension procedure during textual analysis, it is apparent that rereading was relied upon by a greater
number of the control and treatment EFL groups in an attempt to strengthen their mastery of the assigned texts’ content. The frequent usage of text reprocessing among the sampled EFL learners is shown in the ensuing Figure.

![Figure 5. EFL groups' frequent use of rereading at pre- and post-testing stages](image)

As manifested in Figure 5, the dominant use of rereading is embodied in processing expository texts among both groups along the pre-post-test continuum. One plausible explanation for the EFL learners’ engagement in somewhat extensive rereading whilst handling the expository texts is that the latter include difficult sentences/paragraphs. When faced with many difficult sentences, learners opt for re-analyzing the entire paragraph or the text so as to have an overall overview of the core ideational content. Though the narrative written text requires learners to reread the content for the sake of having a clear perspective of what stated, they cope with this genre of text with somewhat greater facility. This view supports Geva and Reyan’s (1985) claim that the learners experience greater difficulty in discovering the logical relations in the expository texts than the narrative ones. Overall, it seems that text genre has an impact on the sampled EFL students’ strategic reading behavior throughout the conduct of the comprehension process. In fact, it is manifest that the disparity at the level of strategy use frequency in coping with narrative and expository reading texts is a consistent variable among EFL learners. Given that some strategies (i.e., predicting, inferring) were recruited with roughly similar percentages in text reading, it is fairly observable that other strategies (e.g., visualizing, paraphrasing, text rereading) were used with rather different proportions across the narrative and expository reading texts included in the pre-test and post-test. For instance, the control and treatment subjects depended on the strategy of visualizing in reading the narrative text in an intensive way, whereas in processing the expository written text, the subjects did make use of this strategy with a minimal degree. Also, the use of paraphrasing and rereading appears to be “genre-oriented” since recourse to these strategic moves while analyzing the expository written texts at the pre-test and post-test levels was made with a high proportion among both groups. This attested view is in utter concert with some researchers’ (e.g. Duke, et al., 2011) assertion that readers engage in different processes when reading different kinds of texts. It is of note that the influence of the text type on strategy usage had been consistent throughout the reading strategy intervention. The wide scale of the application of these “genre-specific” strategies (i.e., visualizing, paraphrasing, rereading), which involve cognitive and critical thinking on the part of EFL learners, rests on the genre of the text under thorough analysis. Indeed, many researchers (e.g., Francis & Hallam, 2000) maintain that learning in higher education is impacted by many variables such as subject prior knowledge, learning approaches and the ability to deal with text type. This shows that the influence of text genre can be deemed one major factor, among others, in the reading process.

V. CONCLUSION

It can be claimed that the target learners’ reading strategy use was not uninfluenced by the text genre (narrative & expository) they were exposed to. During the cognitive act of reading, recourse to some strategies was more frequent and higher in reading the narrative text than reading the expository text and vice versa among the target EFL subjects. This shows that differential frequency at the level of strategy use when reading differing text types (e.g., narrative, expository) is a common mode of strategic behavior among EFL learners. This is in concert with previous pertinent research (e.g., Geva & Reyan 1985; Zabrucky & Ratner, 1992; Best et al., 2008; Yoshida, 2012). Indeed, the influence of the component of text type on the use of some strategies (i.e., visualizing, paraphrasing, rereading) did persist from the pre- to the post-test stage. This can be mainly attributed to the nature of text genre which entails the frequent use of some text-based techniques. The implied perspective is that the EFL university learners are to be exposed to differential text types (e.g., narrative, expository) on a frequent basis. This leads them to invoke some “genre-specific” strategic moves that aid in the sense-making act. Also, by enabling EFL learners to strategize the content of varying text types (e.g., narrative, expository), along with strategy training, they can have a substantive degree of awareness as to the strategic requirements of each given text type. Hence, it is
The Intercorrelation between Text Typology and Strategy Use in Textual Reading among Moroccan English Department University Students

recommended that a wide range of narrative and expository written texts be assigned to the first-semester English department learners. In brief, granted that the study is undertaken within the context of the Faculty of Letters & Humanities in Rabat, it is of critical import that other higher education institutions be representative case studies in future related research. Further, the postulate that either EFL female or EFL male learners could resort more frequently to some strategic moves while coping with academic texts of narrative and expository sort can be taken into consideration in prospective reading-oriented research.

REFERENCES


Social Policy and Social Legislation – A Jurisprudential Interface

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Abstract:- Principle of democracy as governance is for the people by the people and of the people. People are not the recipient of state framed policies and programs. Citizens are not only consumers, choosers or users, but active participants for making and shaping the policies.

According to Duguit, “Essence of law is to serve and secure social solidarity, where individual has to perform obligations as a member of the community”. Duguit says that “everyone has to perform his duties to the society which would help to develop cooperation and social solidarity.” Law and society are interrelated and interdependent. Changes in every social component leads to change in various aspects, right from the social institutions, customs, ideologies, human behavior and human interactions.

Law is meant for laymen. The welfare of the society & humanity is the sole purpose of Indian constitution. To take care of interests, social security, social solidarity are the main aim of law. Sociological school of thought says that ‘Law is social phenomenon’. According to this school essential characteristic of law should be to represent common interaction of men in social group. Treatment towards law should be as instrument of social control and social progress. The role of law and its functioning towards society is the basic philosophy of sociological jurisprudence.

Thus social progress is very much regulated by the degree of law. Law is like the steering to lead society in particular direction. Law may be the fulcrum to control society. Balance between law and society will certainly responsible for social progress.

Keywords: Democracy, social institutions, social solidarity, law.
To Study the Impact of Mediating Role of the Learning Strategies between the Knowledge Characteristics of a Job and Employee Innovation Process

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Abstract: This study explains conceptual model that elucidates how work based learning strategies are playing mediating role between the knowledge characteristics of a job and employee innovation process. Knowledge characteristics of job are playing role as independent variable and the key component of this variable is problem solving. The work based learning strategies is mediating variable and the key factor of this variable is cognitive learning strategies. The dependent variable is innovation process. A survey methodology is adapted for this research. Population frame is the software engineers. Simple random sampling technique is used. The questionnaire is used as a research instrument. For analyzing the data, apart from descriptive statistics, the regression analysis is conducted for testing hypotheses. The result shows that problem solving has positive impact on the innovation process during direct relationship. The problem solving also has positive impact on the innovation process through the mediation of cognitive learning strategies.

Index Terms—Performance; Learning strategies; Organization.

I. INTRODUCTION

The research in the domain of Job Design is trying to develop the mechanisms through which knowledge characteristics of a job has positively effect on the output of the employees in the form of innovative behavior, well-being and performance. The work based learning strategies has been suggested as one type of mechanism [1]. The knowledge characteristics of a job and work based learning strategies mechanism encourages the employees to learn about the job and enable them to perform effectively and efficiently. The previous studies findings support that the employee outcomes are task performance [2] and well-being [3,4] due to the mechanism between the job design and work based learning strategies. This mechanism also helps the employee in the idea generation, promotion and implementation within the organizations [5]. The job design represents the characteristics of the job. Knowledge characteristic of a job is a part of job design. It is important to identify the effect of knowledge characteristics on the innovation process via direct or through mediating role of work based learning strategies. After the identification of this affect, the organizations can improve or promote the employee innovation process by coalescing knowledge characteristics with interference to enhance work based learning strategies. The previous studies support directly the relationship of problem solving [6] and skill variety with the employee learning. The employee learning is directly associated with innovation [7]. The results of these studies did not elaborate the mechanism through which job design affect the employee innovation process. This article proposes a mechanism; it explains the knowledge characteristics effect on the innovation through work based learning strategies. The key component of the knowledge characteristics of a job is problem solving. Problem solving engrosses innovating idea, generating idea, solving non routine problems, and preventing from error [8]. The key component of the work based learning strategies is cognitive learning strategy and behavioral learning strategy. The employee uses this learning strategy to get and organize the knowledge [9]. Cognitive learning strategies elaborate the new information in the light of existing information and originate the principal, creating scheme and key issues. The employee innovation process consists of three different categories. First is idea generation, the concept of idea generation is similar with the concept of creativity. The idea generation in the innovation process should reflect newness and originality. The next in innovation process is idea promotion. This stage proposes the new ideas to employees and organization and getting the support of the idea. The final stage of the innovation process is idea implementation. In this stage new ideas are amalgamated within the organizational process (Figure 1).
To Study the Impact of Mediating Role of the Learning Strategies between the Knowledge Characteristics of a Job and Employee Innovation Process.

Theory and Hypotheses Development

The problem solving effect on cognitive learning strategies and innovation

Knowledge characteristics are the part of job design. The first part of conceptual model explains the relationship between the knowledge characteristics and work based learning strategies. This model proposes that problem solving will recognize the use of cognitive work based learning strategies. The problems are obstacles for employees to attain goals and task performance. Due to this, the employees deploy the different skills and problem solving techniques through work based learning strategies. The work based learning strategies did not provide surety of the solution of problem. Problem solving is commonly regarded as most significant cognitive activity in the professional context. The familiar educational settings are required for learning to solve the problems [10]. The employees learn from the past precedence’s, events, situations and happenings when an employee’s identify similarities of the current problem with the previous ones. The old problem gives the solution pattern of the new problem. This sort of solution guides the individual’s to creativity [11]. Psychological theory explains that problem solving leads to students for gaining knowledge and learns about thinking strategies. The learning due to the problem solving assists the students for developing learning strategies. The problem solving inventing theory explains knowledge base, practical methodology, technology according to model and tool sets for problem solving and developing new ideas. This theory consists of first, specific problems convert into general problem, second is finding the typical solution of general problems and third is get the solution of specific problem from converting the typical solution into specific solution [12]. This theory examines the challenges about the problems where innovation is needed. This theory applied in different categories of industries, including process development [13,14], eco-innovation [15], and service innovation (Table 1) [16]

H1: Problem solving has positive impact on the Innovation

The cognitive learning strategies effect on innovation

The learning strategies encourage knowledge acquisition for job context and task. The cognitive learning strategies assume dual procedure models of cognition. One is Intentional mode and second is analytical mode of cognition. These modes motivate to learn the new rules, facts and knowledge of organization [17,18]. Cognitive work based learning strategies is considered as example of premeditated and intentional approaches of thoughts in which effort and time deliberately spent on topic. The cognitive work based learning strategies encourage the employees to knowledge acquisition and elaborate new information by investigating the implications of novel information from the existing knowledge. The consequences of cognitive work based learning strategies on knowledge gaining have considered in the circumstances of everyday work. Knowledge acquisition in workplace setting and training has been linked with experimental application strategies [19]. The theoretical and experimental evidence proposes that cognitive work based learning strategies endorse the knowledge acquisition or gaining. It is suggested that knowledge acquisition through work based learning strategies develops potential to generate and create novel and useful ideas [20]. Many theoretical perceptions encourage this idea. Amabile’s [21] componential theory explains knowledge acquisition is a fundamental element to develop new ideas and increase potential of peoples or employees to amalgamate information for generating new different ways. The potential of the peoples or employees intensify by organized knowledge according to common principles comparatively unrelated information [22]. An insinuation from cognitive load theory explains that the enhancement in knowledge helps to decrease the burden on working memory when present situation demonstrated as problem solving and learning. This theory can be applied to relevant cognitive activities, such as find solution of problem or create a new idea [23]. Both theories suggest that the relevant domain knowledge acquisition has positive relationship between the creativity. The results of empirical studies show that expert employees (higher level of knowledge) are more innovative and create new ideas than employees who have less knowledge [24]. The researcher argued in this study that job characteristics manipulate cognitive work based learning strategies. The cognitive work based learning strategies effect on the innovation process. The job design has effect on the innovation. Pervious results of empirical studies show that the job design has relation with task performance. The skill

<table>
<thead>
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<th>Model</th>
<th>R</th>
<th>R Square</th>
<th>Adjusted R Square</th>
<th>Std. Error of the Estimate</th>
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<td>0.249</td>
<td>0.236</td>
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<td>0.51155</td>
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Table 1: Model summary.
utilization plays a mediating role between the relationship of job design and well-being of employees.

H2: Problem solving has positive impact on the Innovation through mediation role of cognitive learning strategies.

**Research Methodology**

The research approach is quantitative. Quantitative research is essential about collecting numerical data to explain a particular phenomenon. A survey methodology is adapted for this research. Population frame is the software engineers. Simple random sampling technique is used and unit of analysis is individual. The sample size is calculated with the help of statistical formula. The data for this research will be gathered using a questionnaire. For analyzing the data, apart from descriptive statistics, the traditional statistic for testing hypotheses will be used.

**Measures**

The developed scale of Barkman and Machtmes [25] is used to measure the problem solving. The total items of the scale are 24. The response point of scale consists of five points used (1=Never, 5=Always). The developed scale of Holman et al. [26] is used to measure the Cognitive learning strategies. The total items of the scale are 8. The response point of scale consists of five points used (1=Not a lot, 5=A great deal). The developed scale of Holman et al. is used to measure the Innovation. The total items of the scale are 9. The response point of scale consists of five points used (1=Not a lot, 5=A great deal).

**Demographic statistics**

In the gender statistics it can be observed that both male and female participated as respondents. Male and female respondents are 49 and 11 out of total 60 valid responses i.e. 81.7% and 18.3% respectively. The reflection of male dominance is visible from the statistics. Both married and single respondents participated in the survey. Married and single respondents are 12 and 48 out of total 60 valid responses i.e. 20% and 80% respectively. The reflection of single dominance is visible from the statistics. The respondent’s age divided in the four groups; first group falls between the 21-30 years old, the second group falls between the 31-40 years old, the third group falls between the 41-50 years old and lastly greater than 50 years old. The age of 50 respondents fall between the 21-30 years old which is 83.3% of the total respondents. The age of 7 respondents fall between the 31-40 years old which is 11.7% of total respondents. The age of 3 respondents fall between the 31-40 years old which is 5% of total respondents. The result shows that majority of respondent’s falls in 21-30 years old group. The respondent’s qualification divided in the two groups; first group has 16 years education and second group has above 16 years education. The 39 respondents have 16 years education which is 65% of the total respondents. The 21 respondents have above 16 years education which is 35% of total respondents. The majority of respondents have 16 years education. The respondents were categorized into five categories on the basis of salary. First category was less than 20, second category is 21-40, third was 41-60, fourth was 61-80 and 81-100 thousands rupees salary of respondents. The majority of respondents get less than 20 thousand salaries. This survey envisaged on a sample of people having different length of experiences. It was important to analyze the data from view point of experience of respondents. The majority of respondents have up to five years’ experience.

**Testing assumptions of regression**

The regression analysis is based on specific assumptions. The assumptions of regression are linearity, multi co-linearity, normality and homoscedasticity. The assumption of normality examined through the graphical technique by histogram. The assumptions of linearity and homoscedasticity examined through scatter plots diagram. The assumption of the multi co-linearity examined through the correlation matrix.

**Regression analysis**

The purpose of regression analysis is to check the relationship between the independent variables with dependent variable. In the regression analysis examined the individual impact of the independent variable on the dependent variable, quality of the goodness of the model, significance of the model and strength of the relationship between the independent variables and dependent variable.

- The R²=0.25 of model 1 indicates that the problem solving predictor explains 25% variance in Innovation.
- The R²=0.305 of model 2 indicates that the problem solving predictor explains 30.5% variance in Innovation.
- The p<0.05 shows that at least one variable plays significant role in the both model.

The p value for PS<0.05 which shows significant relationship between PS and IN and is interpretable. It means significant positive relationship exists between PS and IN (β=0.428, p<0.05) showing IN will increase by 0.428 units for every one unit increase in PS, keeping all other predictors constant in model 1. The p value for PS<0.05 which shows significant relationship between PS and IN and is interpretable. It means significant positive relationship exists between PS and IN (β=0.359, p<0.05) showing IN will increase by 0.359 units for every one unit increase in PS, keeping all other predictors constant in model 2. The p value for CLS<0.05 which shows significant relationship between CLS and IN and is interpretable. It means significant positive relationship exists between PS and IN (β=0.223, p<0.05) showing IN will
To Study the Impact of Mediating Role of the Learning Strategies between the Knowledge Characteristics of a Job and Employee Innovation Process.

increase by 0.223 units for every one unit increase in PS, keeping all other predictors constant in model 2 (Tables 2 and 3).

II. CONCLUSION

This research tested a conceptual model of the knowledge characteristics (problem solving) learning mechanism (cognitive learning strategies) in relation to innovation. The result shows that problem solving has positive impact on the innovation process during direct relationship. The problem solving also has positive impact on the innovation process through the mediation of cognitive learning strategies. This model confirms the mediating relationship of cognitive learning strategies between the problem solving and innovation. This conceptual model can guide future research in this particular area, which could focus on the wider set of variables related to the knowledge characteristics for improving innovation in organization.

REFERENCES


To Study the Impact of Mediating Role of the Learning Strategies between the Knowledge Characteristics of a Job and Employee Innovation Process.


Abstract: Every war and every competition have their own strategies. If you cannot define your suitable strategy, you will be listed one of the unsuccessful company. Therefore, every company needs to define good marketing strategy. Our research findings indicate that Gobi corporations’ marketing strategy. The Gobi corporation is one of the top cashmere producing company in Mongolia. We collected 311 participations from Mongolian consumers and analyzed by competitive marketing strategy.

Index Terms — Marketing strategy, SWOT, PEST, product life cycle

I. INTRODUCTION

Mongolia, is the last land of the nomads which live in the traditional house, wearing natural processing clothes and eating bio natural foods. Our country almost 2000 years has been part of the human history. Therefore, our ancestors were wearing badge, cashmeres and other leather clothes. Thenceforth every famous historian said that Mongolian cashmere processing history has begun 2000 years before. In our paper to introduce Mongolian cashmere products marketing situation. The marketing is the newest thing of our market. Because, Mongolian People’s Republic was eventually moved to democratic present Mongolia in the 1990 and wrote new constitution. Since this revolution, market economy was reformed and transited to free market from centrally planned economy by slowly. Cashmere wool is the main domestic product of Mongolia. But only one company can successfully enter in the Global market, because the Mongolian business marketing has been developing only for past 2 decades. Recently, marketing tools of Mongolian companies are rapidly developing. Many of them are still using traditional marketing tools such as Advertising and Promotion. But most companies cannot control the whole market. Only Advertising cannot help a brand to become famous. Each brand has its own image and personality. Also, this paper divided by three parts. First part that introducing Mongolian cashmere market situation and Mongolian cashmere markets history. Second part presenting that some required literatures. Last part presenting that results of consumer survey, SWOT, PEST of Mongolian cashmere sector and defining some Marketing strategies.

1.1. Background of Important Factors, Affecting Mongolian Cashmere Sector

Service quality Mongolian cashmere market service is unsatisfied now. See graph 1 below. In 2017, We researched 311 customer’s satisfaction of cashmere sector service quality. The results of the research are shown as Graph 1 below.

Product price
Cashmere products are special products made from 100% natural raw materials. That is why, cashmere products always have been highly priced. In the Mongolian cashmere sector, their price wouldn’t be medium or low for Mongolian people. Medium price is 300 000 – 800 000 MNT (about 3000 - 10,000 NTD) (Mongolian marketing consulting group Cashmere sector survey, 2015). Mongolian average wage of Mongolian citizens is 700 000 – 880 000 MNT (NTD 9800 – 11,000) for women and 1 100 000 MNT (13,000 NTD) for men (Office, 2016). The cashmere product price is half of an average wage of Mongolian customers. Though Mongolia has 60 million livestock, camels and goats make only a half
of it; so, cashmere products cannot sell for the fair price to customers. Because of the high prices, Mongolian companies cannot become global companies.

Product Quality Mongolian cashmere product quality is excellent. The report of the Mongolian domestic product customer satisfaction research (Group, 2015) published in 2015, showed the Mongolian cashmere product high quality. 90% of the customers, who bought the Gobi LLC products were highly satisfied with them (Group, 2015).

1.1. Company Situation

Competitors

In the Mongolian cashmere sector, 7 big manufactures are producing (Industry, 2015). The GOBI Corporation is one of the best and biggest share of a cashmere sector. Its biggest competitor is the GOYO Corporation that also produces cashmere products. In 2016, GOBI LLC market share was 66%, and the GOYO LLC market share was 13%. But it is on the international market. On the local market, the GOBI Corporation market share constituted 38% and the GOYO Corporation market share was 30% of the local market place (Gobi, 2016).

Suppliers of the Gobi Corporation

The main supplier of the company is 500 thousand of Mongolian herders. Goats now comprise almost half of Mongolia’s total livestock population, and the population explosion has caused environmental stress, evidenced by overgrazing, pastureland degradation and desertification. At the same time, volatile international cashmere prices have pushed many herders to keep larger flocks as a hedge against falling prices. Last year, prices dropped 29 percent to 50,000 tughriks (about $37) per kilo (Industry, 2015).

Company Target Market

The cashmere is one of the high-end product of the world. The GOBI company is targeting to heighten the revenue of Mongolian people and their life-cycle, like in Europe (Group M. M., 2016).

Company Segmentation

Many Gobi Corporation branch stores are in Zaisan, where businessmen, popular singers, top models, politicians, CEO’s live, and the main street of Ulaanbaatar (capital city of Mongolia). It is segmenting high value customers (Group M. M., 2016).

Product Prices

Below, the price scale of the GOBI corporation products is presented. GOBI’s average price is focusing on high revenue customers of the Mongolian market (Group M. M., 2016).

<table>
<thead>
<tr>
<th>№</th>
<th>Male</th>
<th>Female</th>
<th>Children</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sweaters (1870ntd-3800ntd)</td>
<td>Sweaters (1500ntd-3500ntd)</td>
<td>Sweaters (2000-3000ntd)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Pants (1500ntd-4500ntd)</td>
<td>Pants (1200-3500 ntd)</td>
<td>Pants (1500-3500 ntd)</td>
<td>Scarfs (1000-8000ntd)</td>
</tr>
<tr>
<td>3</td>
<td>Overcoats (/5000ntd-14000ntd)</td>
<td>Skirts (700-1500ntd)</td>
<td>Hats and scarfs (1800-2600ntd)</td>
<td>Bags (4000-10000ntd)</td>
</tr>
<tr>
<td>4</td>
<td>Hats and scarfs (800ntd-1500ntd)</td>
<td>Overcoats(4500-15000ntd)</td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Socks (100ntd-500ntd)</td>
<td>Socks (100ntd-500ntd)</td>
<td>Socks (100ntd-500ntd)</td>
<td>Socks (100ntd-500ntd)</td>
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<tr>
<td>6</td>
<td>Gloves (100ntd-500 ntd)</td>
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<td>Gloves (100ntd-500 ntd)</td>
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Table 1. The Gobi Corporation Products’ Price List

II. LITERATURES

Many industries contain one firm that is the acknowledged market leader. This firm has the largest market share in the relevant product market. It usually leads the other firms in price changes, new-product introductions, distribution coverage, and promotional intensity.

Choosing a specific attack strategy

The challenger must go beyond the five broad strategies and develop more specific strategies (Porter):

- Price discount: The challenger can offer a comparable product at a lower price. This is the strategy of discount retailers. Three conditions must be fulfilled. First, the challenger must convince buyers that its product and service are comparable to the leader’s. Second, buyers must be price-sensitive. Third, the market leader must refuse to cut its price in spite of the competitor’s attack.
- Cheaper goods: The challenger can offer an average- or low-quality product at a much lower price. Little Debbie snack cakes are lower in quality than Drake’s but sell at less than half the price. Firms that establish themselves through this strategy, however, can be attacked by firms whose prices are even lower.
- Prestige goods: A market challenger can launch a higher-quality product and charge a higher price than the leader. Mercedes gained on Cadillac in the U.S. market by offering a car of higher quality at a higher price.
Product proliferation: The challenger can attack the leader by launching a larger product variety, thus giving buyers more choice. Baskin-Robbins achieved its growth in the ice cream business by promoting more flavors than its larger competitors.

Product innovation: The challenger can pursue product innovation. 3M typically enters new markets by introducing a product improvement or breakthrough.

Improved services: The challenger can offer new or better services to customers. Avis’s famous attack on Hertz, “We’re only second. We try harder,” was based on promising and delivering cleaner cars and faster service than Hertz.

Distribution innovation: A challenger might develop a new channel of distribution. Avon became a major cosmetics company by perfecting door-to-door selling instead of battling other cosmetic firms in conventional stores.

Manufacturing cost reduction: The challenger might achieve lower manufacturing costs than its competitors through more efficient purchasing, lower labor costs, and/or more modern production equipment.

Intensive advertising promotion: Some challengers attack the leader by increasing expenditures on advertising and promotion.

A challenger rarely improves its market share by relying on only one strategy. Its success depends on combining several strategies to improve its position over time.

Product life cycles
Most product life cycles are portrayed as bell-shaped curves, typically divided into four stages: introduction, growth, maturity, and decline (Kotler, 2000).

Marketing strategies: Growth stage
The growth stage is marked by a rapid climb in sales. Early adopters like the product, and additional consumers start buying it. New competitors enter, attracted by the opportunities. They introduce new product features and expand distribution. Prices stabilize or fall slightly, depending on how fast demand increases (Bartels, 1965). Companies maintain marketing expenditures or raise them slightly to meet competition and continue to educate the market. Sales rise much faster than marketing expenditures, causing a welcome decline in the marketing-to-sales ratio. Profits increase as marketing costs are spread over a larger volume, and unit manufacturing costs fall faster than price declines, owing to the producer-learning effect. Firms must watch for a change to a decelerating rate of growth in order to prepare new strategies (Cravens, 1999). To sustain rapid market share growth now, the firm:

- Improves product quality and adds new features and improved styling
- Adds new models and flanker products (of different sizes, flavors, and so forth) to protect the main product
- Enters new market segments
- Increases its distribution coverage and enters new distribution channels
- Shifts from awareness and trial communications to preference and loyalty communications
- Lowers prices to attract the next layer of price-sensitive buyers

Marketing strategies: Maturity stage
At some point, the rate of sales growth will slow, and the product will enter a stage of relative maturity. Most products are in this stage of the life cycle, which normally lasts longer than the preceding ones (Kotler, 2000). The maturity stage divides into three phases: growth, stable, and decaying maturity. In the first, sales growth starts to slow. There are no new distribution channels to fill. New competitive forces emerge. In the second phase, sales per capita flatten because of market saturation. Most potential consumers have tried the product and, future sales depend on population growth and replacement demand. In the third phase, decaying maturity, the absolute level of sales starts to decline, and customers begin switching to other products (Kotler, 2000).

Marketing strategies: Decline stage
Sales decline for a number of reasons, including technological advances, shifts in consumer tastes, and increased domestic and foreign competition. All can lead to overcapacity, increased price cutting, and profit erosion. The decline might be slow, as for sewing machines and newspapers, or rapid, as it was for 5.25 floppy disks and eight-track cartridges. Sales may plunge to zero or petrify at a low level. These structural changes are different from a short-term decline resulting from a marketing crisis of some sort. “Marketing memo: Managing a marketing crisis” describes for a brand in temporary trouble. As sales and profits decline, some firms withdraw. Those remaining may reduce the number of products they offer, exiting smaller segments and weaker trade channels, cutting marketing budgets, and reducing prices further. Unless strong reasons for retention exist, carrying a weak product is often very costly.
An Analysis of Gobi Corporations Marketing Strategy And It’s Consumer Perceptions

III. METHODOLOGY

This research designed by core marketing concepts. Specially we defined companies market environment as SWOT and PEST, and defined marketing strategy by their product life cycle.

Research questions
1) What is the Gobi’s main strategy?
2) What is the Gobi’s position on product life cycle?
3) Who are the Gobi LLC consumers?
4) Where do they use cashmere products?

Hypotheses
In our research has 2 main analysis. First one is aims to describe Gobi’s marketing strategy using by SWOT, PEST and Competitive marketing strategies theory, second analyze is to find their consumer perception of Gobi’s brand image. It gives two big information that Gobi’s marketing strategy and Brand image. However, marketing strategy is being our big part of the paper.

A company’s positioning and differentiation strategy must change as its product, market, and competitors change over the product life cycle. To say a product has a life cycle is to assert four things:
1. Product have a limited life.
2. Product sales pass through distinct stages, each posing different challenges, opportunities, and problems to the seller.
3. Profits rise and fall at different stages of the product life cycle.
4. Products require different marketing, financial, manufacturing, purchasing, and human resource strategies in each life-cycle stage.

Most product life cycle are portrayed as bell-shaped curves, typically divided into four stages: Introduction, Growth, Maturity and Decline
1. Introduction – A period of slow sales growth as the product is introduced in the market. Profits are nonexistent because of the heavy expenses of product introduction.
2. Growth – A period of rapid market acceptance and substantial profit improvement.
3. Maturity – A slowdown in sales growth because the product has achieved acceptance by most potential buyers. Profits stabilize or decline because of increased competitions.
4. Decline – Sales show a downward drift and profits erode.

However, we created following hypotheses from last chapter of literature review
H1: The Gobi’s product life cycle is locating on growth stage. Therefore, Gobi is may need to be use Competitive marketing strategies.
H2: The Gobi’s product life cycle is locating on maturity stage. Therefore, Gobi is may need to be use Market modification or Product modification.

H3: The Gobi’s product life cycle is locating decline stage. Therefore, Gobi is may use to be Eliminate weak products and Harvesting and Divesting

IV. RESULTS AND ANALYSIS

4.1. SWOT analysis

Strength
Main strength of Gobi Cashmere and wool product, it is made out of 100% natural raw textile. 80 % of the Gobi Kashmir is considered patronage good ness Cashmere with 16.5 micrometer and 35-37 mm duration. Compared to Cashmere of other companies which supplies most of world’s cashmere, Gobi cashmere is slightly midst, however, longer. This is briny senior high caliber of Mongolic cashmere.
- No negative affect to human sound box, 100% natural
- Senior high quality and durable
- Good design and colorful, can change design according to client’s request • Relatively cheaper than similar products in the world market
- Wool, cashmere and knitted products have /GSP+/ preferential terms of tax in the EU.
- Gobi company’s equipment and technology to produce cashmere products reached world standard
- Can offer discounts to large orders • Have representative offices and sales agents abroad and through them doings promotional campaigns.
- Pays good attention on grooming.

Weakness
Gobi produces the commodities according to counterfeit of trade and this minimizes risks. In plebe way, unfavorable stand point of this control is become absent-minded Gobi equipment their trade to intermediaries for utterly cheap price. Mongolian funds are very up to snuff to wintry germaneto and assets command up wool read someone the riot act is durable and can easily be refreshed.

- Carpet and carpet products are not competitive in the world market in terms of color, quality. These products have many stitches.
- Knitted products do not enjoy preferential tax terms of EU.
- After-sales services are not good.
- Dependent on cashmere and wool yarns
- High production cost
- Does not put forward plan and goals
- Equipment and machineries of the carpet factories are lagging behind world standards
- Quality of raw materials is inconsistent.
- Lacks systematic information about target market
- Financially, it is difficult to conduct survey and analysis of the foreign markets
- Few sales channels
Transportation cost of products that are transported across land is high and transit transport tax is high.

**Opportunities**

World over, consumers are abnegation actinic articles and adopt to blot ecologically authentic products. This is abundant befalling for not alone cashmere and woollen articles but as well for accomplished Mongolia. Use of “natural” products, abnormally cashmere articles tend to access in boiling and algid North America and Western European countries. Through conception of new sales channels in adopted markets, it is accessible to access sales. In apple market, consumers adopt cashmere affection and cloths over cashmere knitted products. Cashmere cottons are produced out of aphyotic cashmere. About 60% of the cashmere able by Gobi is dark. Gobi JSC was awarded all-embracing accepted affidavit for its articles in 1996 and this shows that is it absolutely accessible to get acceptance in this area for Mongolian products.

World demand for natural products is increasing.

- Markets of Western European and Scandinavian countries for wool, cashmere products can be expanded due to their climate, living standards etc.
- Can open new sales channels and expand existing sales channels.
- Interest to use cashmere products and cashmere cotton products are increasing in the world market.

**Threats**

Natural disasters could cause curtailment of raw abstracts and advance of assorted livestock beastly ache and can bind consign of articles originated from animals. Herdsmen are growing herds of goats added due to accumulation and assets of cashmere. They pay added absorption to the weight of cashmere and these approaches access abnormally in the cashmere quality.

Quality of raw materials is deteriorating every year.

- Herd composition is lost.
- Price hike of raw materials and supplies
- Customs tax and Transit transport tax of Russian federation is high
- Far from major carpet markets

**4.2. PEST Analysis**

Political environment: Politics of Mongolia takes place in a framework of a semi-presidential representative democratic republic, and of a multi-party system. Executive power is exercised by the government. Legislative power is vested in both the government and parliament. The United States values Mongolia's contribution to stability in a volatile part of the world, as well as its positive example in promoting economic reform and democracy. Mongolia stands well across several governance indicators. The Economist political stability index suggests that Mongolia fares above average in the world.

Economic Environment: World cashmere market can be generally divided into raw cashmere and finished cashmere product segments. In the world market of raw cashmere, the main players are China supplying about 67% (10.000 tons) and Mongolia with about 21% (3.000 tons), and countries such as Iran, Afghanistan etc. supply about 12% of the annual output (SECO Sector Consulting). Size of micron and color of Chinese cashmere is far the best, which is one of the biggest strengths of Chinese industry; however the length of fiber in Mongolian cashmere is longer and considered to be most suitable for spinning.

Social environment: The majority of the population in Mongolia follows Tibetan Buddhism as their religion, and the majority of the state's citizens are of Mongol ethnicity, although Kazakhs, Tuvans, and other minorities also live in the country, especially in the west. As many of the people are related with the cashmere industry, so the social environment is in a good condition. The employees are interrelated and know each other. The gradual international involvement is also appreciable in making social contacts.

Gobi has completely changed the management board with all intelligent people and successfully turned around the whole company since 2008. Currently Gobi’s P/E ratio is 13%, and it’s the best time to invest. As a suggestion, don’t pay attention to the past performance, but pay attention to who takes over the company and pay attention to the management team. Gobi Corporation strives to do environmental friendly practices in our operations and will promote care for societies and environment as a whole.

Technological Environment: In Mongolia, it is obvious that scientific and technological activities need to be changed with other sectors in order develop them in front of other countries. Although Mongolia has a comparatively strong science and technology base, including human resources and institutions, its scientific capacity is largely centralized in the capital. In addition, as the economic transition progresses to a more advanced stage, such resources are in danger of being underutilized, dissipated or even lost.

**4.3. Product Life cycle**

We analyzed that Gobi’s sales income. The cashmere product is seasonally using product. Therefore, Gobi’s sales is decreasing from 5 to 9th month of each years. But look at the graph below.
In 2017, Gobi is introducing new collection and enter the Global market such as China and Russia. The sales revenue is constantly increasing. The Gobi’s new collection is locating on the Growth market stage and they need to be use competitive marketing strategies.

V. RECOMMENDATIONS AND CONCLUSIONS

5.1. Recommendations

Ecological balance is a worldwide pressing issue and there are approaches to decrease production and consumption of chemical products. This tendency contains great opportunities of the development for woolen and cashmere garments of Mongolia. It is necessary to open the door to utilize these opportunities. At that time wool and cashmere processing sector which will be an export face and Mongolia can be internationally recognized and can prosper and develop. But besides this issue, overgrazing of pastureland and desertification have been pressing and difficult issues for Mongolia. Particularly, herds of goats, source of the world-famous qualified cashmere are one of the main factors of desertification. Therefore, the state needs to pay special attention to how to increase the proper ratio of herd structure, numbers of livestock and yield. There have following complications in the export activities of the wool and cashmere processing industries.

1. Yield of livestock animal husbandry and quality of herd structure of Mongolia have been deteriorating. Micron of the world-famous cashmere of Mongolia has been widening and its length has been shorter, content of fleece has increased, and cashmere quality has been worsening.

2. Domestic wool and cashmere processing industries work on the raw material preparation mobilizing all the power every year, but they have been losing raw materials to Chinese procurers. To collect raw materials is really a difficult and complicated issue for domestic industries competing with Chinese procurers who take special concession and support from their Government.

3. It is more difficult to get familiar and expand the foreign market, and find clients and partners in the foreign market. Lack of financing, human resources of Mongolian small factories is the root cause of this.

4. Transportation issue is very problematic for producers. Cashmere products are light, unit price is more expensive and so the products are transported by air cargo. Size of woolen products is bigger, and these ones are comparatively cheaper and so it is possible to transport them overland and waterway. Therefore, transportation cost of woolen products is higher and in addition, customs tax and transit transportation cost of the Russian Federation are higher. Due to these reasons the opportunities to deliver products to the main markets of European Union and sell products in the market rate are very restricted.

From Government of Mongolia: It is impossible that just an organization or industry solves above mentioned complicated issues and all the counterparts of the market should cooperate to solve these problems and the government should implement definite policy on it. In order to solve all these complicated issues there are needs of support and assistance as follows:

1. There are needs to determine state policy on protecting of yield of livestock, herd structure under the state protection of Mongolia and conduct activities to achieve the definite effects. Particularly, it includes maintaining number of goats, tax and incentives, geographical issue, producing of new products andfelt made heat-isolating materials.

2. To render assistance to create the procurement system of raw materials. To control the quality, improve and develop kinds of raw materials through price policy.

3. It is necessary to make negotiation to decrease customs tax of the Russian Federation and People’s Republic of China and transit transportation tax. In this way it is possible that our woolen and cashmere garments are valued in the market price in the market of Western Europe.

4. To improve domestic and foreign control of the industries, pay tax as less as possible in cooperation with foreign investors and partners, find activities to eliminate negative things including undervalue employees and raw material suppliers.

VI. CONCLUSION

Gobi has completely changed the management board with all intelligent people and successfully turned around the whole company since 2008. Currently Gobi’s P/E ratio is 13%, and it’s the best time to invest. As a suggestion, don’t pay attention to the past performance, but pay attention to who takes over the company and pay attention to the management team. Gobi, already a part of Mongolian culture, has always been synonymous with quality and elegance. Established in 1981 by the Mongolian government, we are the first
An Analysis of Gobi Corporations Marketing Strategy And It’s Consumer Perceptions

Mongolian luxury knitwear brand to break into European, Japanese and the US market during the last century. Since then Gobi has been consistently earning more recognition in luxury knitwear and fashion industry than ever before. After almost 30 years as a government owned company Gobi started a fresh chapter in July 2007. Its government owned stocks were sold and started operating under private owners. A new campaign was set out, with a vision dedicated to introducing the brand on new grounds and to continue the tradition of innovation, authenticity and glamour. Our manufacturing methods based on latest technologies and our continuously inspiring quality and design give us an edge over the competition. Under the same campaign the Gobi Corporation will keep leading the way in luxury knitwear industry and inspire many competitors to improvement.

REFERENCES

An Analysis of Mongolian Telecommunication Sector Situation And It’s Consumer Perception

Oyuntuguldur Gan-Unur, Bayartsetseg Badralt, Tamiraa Munkhbat, Gombosuren Nyam-Osor, Enkh-Och Zolbayar

Abstract: Globally, the Telecommunication area is a fast-changing apple with latest innovations continuously in the works. The Telecommunication Area in Mongolia is no different. It is active and continuously adapting to new technologies and to the accretion customer demands. Although the bazaar is saturated with account to accession of new consumers, the ambit lies in accretion the bazaar allotment by accretion the account provided to the consumers. At this stage, the bazaar baton is assertively by the akin of account superior and amalgamation offered to the consumers. This account superior is delivered to the consumers by the account providers who are able to do this with the technology and advice of Telecommunication vendors. This constitutes the all-encompassing archetypal of the Telecom aliment chain.

Index Terms—Market situation, Telecommunication

I. INTRODUCTION

Mongolian Telecommunication is developing under 70 years. At the day concerning challenge formulation, Mongolia’s telecommunications infrastructure consisted mostly over a powerless yet out of date analog-based network timbered above with Soviet support a long time previously. A digital alternate of the capital, Ulaanbaatar, then a moon Earth station because of international connections had been set up among the promptly Nineteen Nineties beneath bilateral assistance, however have been only partially used due to the fact regarding inadequacies somewhere else among the network (Community, 2015). The Government, thru the Ministry regarding Infrastructure Development, used to be accountable for whole the design, implementation, management, or operations concerning the telecommunications network. The sector lacked someone legislative framework, inclusive of because of leading non-public area involvement. Services lousy than utter telephony, telegrams, yet telexes have been almost nonexistent; call completion prices had been low; network fulness born according to excessive degrees regarding shared services; and automated systems, such as worldwide then long reach direct dialing, have been impossible. Billing yet ministerial structures were manual then outmoded, and little mace had coaching in digital telecommunications systems. The bad telecommunications law was viewed by Government as a important disincentive to home yet foreign private funding within Mongolia, and for this reason so a obedience to the continuous transition beside a command in imitation of a market-based economy. Improvement regarding the telecommunications quarter was once deemed by using Government in imitation of lie a national priority. Permanency

1.1. Purpose

This paper aims to find Mongolian telecommunication sector’s current situation. This paper divided by 2 main chapter. First chapter presents current telecommunication sector situation and its competitors’ analysis. Second chapter presents that customers satisfaction of telecommunication sector.

1.2. Background of Mongolian Telecommunication sector

In Mongolian Telecommunication sector has 4 main competitors

1. Mobicom
2. Unitel
3. Skytel
4. G-Mobile
The Mobicom

MobiCom Telecom or IT was installed in 2001 via a team on government cell communications or software program engineers, aimed in conformity with satisfy the needs over community operators then infrastructure suppliers via capability of professional cellular community engineering functions or software program tools. MobiCom Telecom then IT provides services then products among Telecommunication and IT sectors, more often than not of
An Analysis of Mongolian Telecommunication Sector Situation And It’s Consumer Perception

The Middle East or Turkey (Mobicom, 2016). MobiCom is a corporation imparting solutions, capabilities then products protecting a large spectrum regarding telecommunication needs. Some on these solutions then applications include Network Planning yet Optimization, RF Design yet Planning, Drive Test, Post Processing yet Reporting, Network Integration, Site Audit, Technical Site Survey, Site Acceptance, Field Maintenance or Deployment. MobiCom additionally affords high gray specialists and engineers in conformity with leaders of the sector because all fields over Telecommunication (Mobicom, 2016). Apart from telecom services, MobiCom presents revolutionary yet environment friendly IT options after its customers as optimization, integration or administration tools (Mobicom, 2016). MobiCom’s customers consist of Telecom leaders such as Ericsson, Alcatel, Nokia Siemens Network, Turkcell, Vodafone, QTel then Zain. MobiCom is devoted after reap its intention with moral practices then associative responsibilities by way of supplying whole products then capabilities along virtue to all customers namely by their needs yet expectations. It is a organization aiming in conformity with grant gainful employment, coaching or development according to every among discipline in accordance with make bigger productivity. MobiCom also ambitions after discovering recent ways, products then solutions to that amount can have a massive affect of class and economy.

Core Values Respect: Maintain or inspire excessive dimensions of honour among employees then clients. Honesty: Demonstrate justice into moves or treatments to others. Truthfulness: Uphold fidelity yet truthfulness among movements within the business enterprise and customers or hand over so promised. Leadership: Strive after exhibit leading at an odd then company level. Performance: Maintain excessive stage of overall performance among movements some is accountable for Responsibility: Embrace responsibility in accordance with the company, clients, worship or society. Quality: Ensure excessive characteristic regarding outcomes in conformity with whole tasks (Mobicom, 2016).

The Unitel
UNITEL Corporation LLC affords cellular telecommunications applications because mobile employment users within Mongolia. Its purposes encompass postpaid package, roaming, entertainment, or tune download. The enterprise additionally provides sordid services, inclusive of SMS, 6 course calling, caller ID blocking, missed call log, recharging other people’s accounts, transfer, or Web interest care; call forward, barring, hold, then waiting; COLP in imitation of enable the visitor in accordance with advise the cellphone range about the person of the ignoble cease between action the call buyer transferred the call; yet COLR to permit the visitant in accordance with hide their cellphone range into the lawsuit the name buyer transfers the call. It offers its applications thru licensed distributors. UNITEL was once fabricated within 2005 and is based among Ulaanbaatar, Mongolia. UNITEL Corporation LLC operates as much a subsidiary over MCS Holding LLC (University, 2015).

The Skytel
Is one over Mongolia’s conduct cellular smartphone operators up to expectation currently holds a bottom of the mobile market. With above 500,000 lively subscribers and 400 personnel concerning which 90% bear a bachelor's dimensions yet higher education. The company's community capabilities on an HSPA+ community into Ulaanbaatar yet [CDMA2000 1x] & [EVDO] community technology within the relaxation concerning the country (University, National Competitiveness Report, 2014). Skytel has forty-three branches then above 4000 retail retail outlets throughout Mongolia, or their community covers every other 250 counties worldwide.

Skytel Group was once created between 1999 and was once a peace calamity into private Mongol or Korean companies until December 2010 now it grew to be aa hundred percent national enterprise along even shareholders about Altai Holding and Shunkhlai Group. In 2011, Skytel has multiplied between a crew over groups via the whole acquirements on Sky C&C, a properly set up internet, IDD, SI work provider, namely well as most important shares over Telemax Communications, a cellular WiMax operator, and Tengis Movie Theatre, the first present day picture among Mongolia. The corporation also owns 50% about Skyworkd, a ethnic string visible infrastructure operator, yet a infant part over Sky Resort, a present day ski, golf motel into Ulaanbaatar (Skytel, 2016). The business enterprise affords a range concerning purposes inclusive of SkyMarket an e-market about cellular telephones according to its post-paid OPEN yet Nice subscribers, as like nicely as to its pre-paid d20, SkyPhone yet SkyCall subscribers. Its center are located within the center of Ulaanbaatar city, concerning ChinggisKhaan Avenue - 9.

The G-Mobile
Mission Statement To turn out to be the nearly trusted yet reliable cellular network operator. To become a community as values purchaser satisfaction, or offers employment in conformity with each citizen To attempt forward, contribute in imitation of society, yet develop Mongolia. G-Mobile Corporation, a country wide cell operator, was established in April about 2006 by means of triumphing the gentle
because “Delivery on Communication Services according to Isolated Soums and Settled Areas”. The soft was introduced with the aid of the Communication Regulatory Committee within the mold of the Mongolian Government. In a quick danger on time, G-Mobile managed in conformity with establish an records then conversation infrastructure protecting the great territory concerning Mongolia. G-Mobile effectively whole installation or launched its services of the twentieth concerning April, 2007 (G-Mobile).

G-Mobile is the first 100% domestically funded being in telecommunication industry. G-Mobile Corporation has been effectively turning in all kinds over telecommunication capabilities in accordance with its clients based totally concerning 3G, recognized as 3rd era concerning cellular verbal exchange CDMA2000 1x/EV-DO technology, or at its 5 yr anniversary about 2012, such has delivered the present day science on information and conversation industry, 3.99G, according to allow its customers in imitation of suffice arm between arm together with empirical advances round the world by means of the use of smartphones and drugs after get right of entry to after the net along high velocity regarding 42mbps.

At present, G-Mobile is effort-fully aiming in conformity with introduce its trendy 3.99G technology, which has been deployed in metropolis town about Ulaanbaatar, Zuun mod soum of Tuvaaimag, and Hovd city on Hovdaimag, in imitation of sordid most important cities and rustic areas. To date, G-Mobile has included 285 soums yet settlements of 21 aimags and gives every kinds about telecommunication purposes based totally on 3G, also recognised as 3rd technology CDMA2000 1x/EV-DO, DC-HSPA+ 3.99G technology, in conformity with upstairs 500,000 its subscribers nationwide.

In yr about 2012, because our 5th 12 months annual celebration, we have added greater revolutionary yet enjoyable capabilities in conformity with our customers, which include:

- Postpaid job recognised so Perfection
- 3.99G situation concerning cellular internet
- DoReMi employment in accordance with set the preferred note because of coming calls
- Units mortgage service
- Units mortgage service
- Data bundle for pre-paid service
- HD Voice job or much mean treasured features for appropriateness in imitation of our customers
- G-Mobile employs greater than 500 fantastically professional or skilled specialists, engineers and managers which make on to viii departments or 20 divisions or subdivisions. Service community consists over 14 branches within Ulaanbaatar city, 29 branches within rustic areas, and on 6000 licensed distributors.

II. METHODOLOGY

In customer survey segmentation is 18-35 ages group and total participations are 250. We collecting survey designed by questionnaire.

In total, 200 users were 18-35 years old. 57% of the respondents were pre-paid and 43% were customers.

Questionnaire design

Our questionnaire has main 9 questions and 2 demographic questions. We collected survey from Ulaanbaatar city.

III. RESULTS AND ANALYSIS

3.1. Reliability analysis

First analysis is about reliabilities. We using SPSS 20.0

<table>
<thead>
<tr>
<th>Cronbach’s Alpha if Item Deleted</th>
<th>Table 3.1 Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Which one is your operating account</td>
<td>.823</td>
</tr>
<tr>
<td>Which one is your reason for using phone number</td>
<td>.818</td>
</tr>
<tr>
<td>Which one is your cellphone type</td>
<td>.818</td>
</tr>
<tr>
<td>Do you mind that transfer to other operating account</td>
<td>.817</td>
</tr>
<tr>
<td>What is your average payment of phone</td>
<td>.819</td>
</tr>
<tr>
<td>Which one is your interesting color</td>
<td>.819</td>
</tr>
</tbody>
</table>

The Cronbach’s alpha is higher than 0.800 it gives excellent reliability results. The first answer is about define reason for using phone number. Graph 3.1 presenting the result.

Graph 3.1 Reason

From the picture above, it can be seen that the message for users aged 18 to 20 years, the message for users aged 22-29, data and time-dependent discounts are needed for data and 30-35 year users.
Next question is emphasizing cell phone type.

**Graph 3.2 Type**

76.4% of respondents indicated that the use of touch-screen is high among young people using touchscreen phones. As a result, young people are interested in connecting to the Internet through their mobile phones.

**Graph 3.3 Age and Cell phone type**

The target cellular usage of the target market is as follows: Social media is the most widely used social media through mobile phones. Users are increasingly approaching the web, such as Facebook, Twitter and Youtube, suggesting that data usage is increasing. For example, the number of Facebook users is 17021 per month, or 8%.

**Graph 3.4 Market share**

The market share of telecommunication has presented above graph. 41 percent of customers using Mobicom, 36 percent is of customers using Unitel LLC. However, Mobicom and Unitel corporation is main player of Mongolian telecommunication sector.

**Graph 3.5 Genuineness**

Graph 3.5 presents the genuineness of operating companies customers. Mobicom and Unitel has many genuineness and Skytel and G-Mobile is less. Next table is presenting customer satisfaction. We measured 8 types of satisfactory categories designed by likert scale 1 unsatisfied to 5 satisfied.

<table>
<thead>
<tr>
<th>Table 4.1 Customer Satisfaction</th>
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<tr>
<td></td>
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<tr>
<td>Service stuff</td>
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<tr>
<td>Price deal</td>
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<tr>
<td>Pre- Dude type</td>
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<td>Environment</td>
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<tr>
<td>Facebook</td>
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<tr>
<td>Discount</td>
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<tr>
<td>Promotion</td>
</tr>
<tr>
<td>Network</td>
</tr>
</tbody>
</table>

**Graph 3.6 Market share**

|                                | 1 | 2 | 3 | 4 | 5 |
| Service stuff                  | 8.00 | 30.47 | 33.34 | 14.14 | 19.45 |
| Price deal                     | 6.92 | 15.43 | 24.03 | 22.34 | 32.34 |
| Pre- Dude type                  | 23.14 | 22.73 | 30.14 | 10.34 | 13.00 |
| Environment                    | 8.74 | 10.43 | 23.04 | 24.12 | 31.02 |
| Facebook                       | 10.14 | 27.56 | 19.34 | 22.30 | 24.12 |
| Discount                        | 6.71 | 10.47 | 20.41 | 29.87 | 32.24 |
| Promotion                      | 5.54 | 14.34 | 15.02 | 25.32 | 32.22 |
| Network                         | 2.89 | 32.46 | 31.23 | 20.54 | 21.54 |

**Government**

|                                | 1 | 2 | 3 | 4 | 5 |
| Service stuff                  | 19.28 | 33.45 | 20.37 | 14.34 | 11.93 |
| Price deal                     | 5.14 | 6.99 | 10.07 | 33.72 | 41.22 |
| Pre- Dude type                  | 10.68 | 33.75 | 28.36 | 10.23 | 11.48 |
| Environment                    | 6.02 | 3.87 | 33.42 | 20.25 | 24.73 |
| Facebook                       | 7.24 | 13.32 | 22.42 | 33.24 | 33.34 |
| Discount                        | 11.72 | 1.87 | 1.05 | 29.09 | 13.54 |
| Promotion                      | 19.49 | 33.45 | 22.30 | 14.53 | 10.91 |
| Network                         | 1.32 | 1.92 | 21.02 | 31.92 | 47.22 |
IV. RECOMMENDATIONS AND CONCLUSIONS

In total, 250 respondents of 18-35 years old were involved in this survey. The survey was conducted by 200, by interview method by 30, by focus group method by 2 groups of 8 and 12 composers. The majority of respondents aged 18-22 years, 60.2% are up to 700000 and 70100-300000 respectively, and 52.8% from 23 to 27 years old are from 301000-501000 and 61.5% are from 601000 and over average monthly income for customers increased. 57% of all survey participants were prepaid and 43% were subscribers of the next payment. Average monthly consumption of youth is 33833 ₮ for prepaid users and 19373 ₮ for total pre-paid customers is 26447 ₮. The number of users in the post-paid year-on-year increase is 71207, or 19.6%, which is likely to increase in subsequent users. In 2009, one out of 8 people used one after the number, but in 2013, one in five used the number after payment. Users have a tendency to understand and use the post-pay number as a prince, their own expression. This was the most noticeable for users aged 18-27 years. Easy payment payment for the paid serial usage is the simplest and simplest way to get detailed information about the payment method (Focus Group and Interview Technique, where there is no time to find a Mobicom center or branch). results are shown. 72.2% of all surveyed customers are required to get detailed information and 3 out of 4 people need to pay for easy payment of payment. The general trend of youth is a way of life to be proud of as a customer of the pay group afterwards. Thus, brand image, reputation, and people are very important to the portfolio. Consumers look at colors, words, and advertisement elements that are color-white, black, yellow, and red. For a word that expresses the package, users are boundless, and only the word, like your usage and choice.

REFERENCES

Political Correctness as a Monolingual Language in the Era of Multiculturalism

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Abstract—Political correctness may be defined as what is correct and appropriate to include in oral or written public verbal formulations. Thereof, it may create, allegedly, monolingual language in multicultural societies. The aim of this paper is to expose the ambivalence of the Israeli education system toward political correctness in the era of multiculturalism. On one hand, there is seemingly nothing more respectful than simply adopting political correctness as it is in our education system: the idea that language shapes reality, and eventually may directly affect changes in our discourse and indirectly exert a positive influence on rectifying social injustices towards social sectors, suits the ideals of the educational process. But on the other hand, educationists have raised some serious objections against the idea of political correctness, seeing it as hypocrisy and a way of ignoring the multicultural reality.

Key words: Political Correctness; multiculturalism; education system.

I. INTRODUCTION

Political correctness may be defined as “what is correct, from a political point of view, to include in oral or written public verbal formulations” (Carmel, 2000). There is no unanimous opinion regarding the origin of the expression. Nir (1998) believes that it originated in the literal translation of its Chinese equivalent appearing in Mao’s Little Red Book entitled “Quotations from Chairman Mao Tse Dung,” which was the source of politically acceptable and correct social utterances. During the Cultural Revolution in China, which took place between 1966 and 1976, learning the quotations from the Little Red Book was compulsory both at school and at work, where passages from it were read and learned by heart regularly. Quotations from the book were also included in all publications, including academic ones. Chinese citizens were bound by law to carry the booklet wherever they went, incurring heavy penalties such as floggings and imprisonment in work camps if they were caught without it. However, the prevailing opinion is that the expression “politically correct” originated in the United States during the Fifties, derived to a large extent from the ideology that emerged from the “flower children” movement: although the flower children movement initially started as a protest movement against the Vietnam War and its atrocities, it soon grew into an ideological movement with a new world view of society and life. The flower children appealed to people to change their belligerent ways and adopt a culture of love and brotherhood. Accordingly, they demanded to uproot from the language potentially or actually offensive expressions considered as discriminating against various sectors of the society. Therefore, political correctness would relate to the unemployed with more sensitivity (calling an unemployed person as being ‘between jobs’ for the moment, but not ‘unemployed’); it would also attempt to eliminate sexism from the language (changing the ‘electronic secretary’ at the other end of the telephone line into an ‘answering machine’); it would relate to old age more gently (the old would become ‘senior citizens,’ old age would change to ‘the golden age,’ etc.); disability would be treated in a similar way (invalids would be known as ‘physically challenged’ individuals). The substitute expression would help to construct a new reality that would serve to correct and perhaps elevate the status of an individual considered weak or physically handicapped: a change in the way language refers to an individual would elevate him from the status that has immobilized him in his weakness, resulting in an amelioration of the individual’s status.

The political correctness movement is based on the idea that although language reflects the social reality of a given culture, the opposite is also true: a change in discourse, in conceptualization and in style can impact social attitudes. This view is consistent with Whorf’s hypothesis (1956), which states that the language we speak shapes our way of thinking and our way of looking at the world. The insight that can be derived from this hypothesis is that a change in the discourse is likely to engender changes in our social values in general and a change in our values regarding our attitude toward discriminated and disadvantaged individuals in particular. The far-reaching repercussions of Whorf’s hypothesis are expressed by what he called “the theory of linguistic relativity” – the idea that every language has a model of the world embedded in it without
which the speakers of the language would not be able to comprehend reality. The theory of linguistic relativity, then, is not simply a linguistic theory, but has implications for all areas of thinking and human endeavor since these are both dependent on and derived from the socio-linguistic load people carry with them. Consequently, one should not wait until the social ethos changes: one may and should use all available resources to expedite desirable processes of change. Language is one of the resources with the potential to enable social change, and not to merely fulfill the instrumental function of human communication (Nir, 1998; Choi & Murphy, 1992).

Israe multiculturalism At the turn of the last century, the term 'multiculturalism' became a cardinal term both in the academic and the public discourse of western democracies including Israel (Reingold, 2005). There are those who discuss multicultural societies emphasizing the demographic sense of the word, that is to say that in a specific political entity there live different ethnic and cultural groups side by side (Sever, 2001), while others prefer to call this demographic aspect "pluralism" (Katz, 1998). However, the more common and important meaning of the concept of multiculturalism is ideological (Reingold, 2005).

The issue of multiculturalism has received much attention in the Israeli education system since the inception of the State, when the first great waves of immigration began arriving in the country. The intermingling of cultures – traditions, languages, customs and norms of behavior - required the leaders of the country to forge the "cultural fusion" that would change this great ingathering of exiles into one people. The decision to establish a free, compulsory state education system was intended to create a suitable tool to achieve this purpose: the 1953 state education law was passed in the Knesset to give formal sanction to the decision: "The aim of state education is to establish elementary education in the country on the values of the culture of Israel..." Education based on the culture of Israel was stated in the law, as one can observe, as the chief aim of compulsory education. This formulation expressed the dream of the leaders at that time to build the unifying machinery for creating an Israeli culture that was at that time in its formative stage.

As the years passed, criticism of this policy favoring cultural uniformity began to surface, with oriental writers at its forefront. Most of the criticism was directed at the domination of the European Zionist narrative concerning the absorption process of the new immigrants and the sidelining of Orientals from cultural, political and governmental positions. The critics held that the melting pot policy worked in favor of the Ashkenazi population in all areas concerning the distribution of resources, in education, land ownership and location of settlements. The critics claimed that Jewish nationalism is an integral part of the Zionist narrative. This new oriental narrative also claims that the Zionist narrative has excluded the oriental narrative because Zionism has been repressing Orientals for a long time (in the political and not qualitative sense of the word), and therefore only in a situation of multicultural thinking can the oriental narrative co-exist with the Zionist narrative (Shmueloff et al. 2007). The Pedagogical Secretariat of the Ministry of Education has responded to these claims by placing topics such as "The Unity of Israel," "Year of the Hebrew Language," "The Four-Hundred-Year Anniversary of the Expulsion of Jews from Spain," and "Cultures of the Communities" as the yearly central topics to be discussed in the education system; it also responded by selecting other subjects for discussion that were chosen from new fields of interest at specific times that highlighted Israel as a multicultural, multi-lingual and multi-national society.

Debate on giving preference or special treatment (as affirmative action) to immigrant communities has evolved. Some even argued that affirmative actions would likely have the opposite effect of what was intended: it would harm these communities since the majority culture would become hostile to them, so that the gap separating the two would be greater than ever. On the contrary, it is precisely the effort to integrate the immigrants in the society that would encourage them to acquire the new customs of their hosts, thus preserving national unity. One of the advocates of this approach. In order to achieve mutual respect among the different cultures, the authorities must change their monocultural policy guided, for example, by such things as ethnocentric education and assimilation into a policy favoring multiculturalism (Reingold, 2005) and hence political correctness became a tool for that matter.

**Political correctness and the Israeli context**

The status of ‘straightforwardness’ (doogriut) was formed during the Thirties and Forties among the first generation of Sabras (native Israelis), and later (in the Fifties) became an important element of the Israeli cultural style. At this stage of the Jewish state’s existence straightforwardness was not perceived as a lack of manners or as potentially offensive, but as directness and sincerity of speech. Although straightforwardness was perceived as somewhat rough, it was tolerated for its good and sincere intentions. (Catriel, 1999; Rosenblum & Trigger, 2007 ; Rosenthal 2005). In the first few years of the fledgling state, straightforwardness acquired additional value because it helped to construct the character of the “new Jew,” known as the sabra. Whereas the Jews in the Diaspora were occupied with the challenge of survival, so that in their contacts with non-Jews they were often compelled to shuffle and beg, the new Jew in the Land of Israel could afford, like the rest of Israeli society, to say whatever he wished because in the new order of things there was mutual trust, equality and social solidarity.
The major erosion that subsequently occurred in the image of the sabra and in his value system also eroded people’s tolerance of straightforwardness and its hubris. With time, the sabra became much more open, unafraid to express his feelings and sensitivities to others. Accordingly, as an indication of this change, a new word now replaced straightforwardness to describe the qualities of the sabra in his new reincarnation: the Yiddish word ‘firgun’ (pronounced feergoon) – expressing a ‘softening,’ ‘rooting for,’ or even a willingness to express laudatory approval for others (Rosenblum& Trigger, 2007).

This process of change in the sabra’s discourse, that is to say the transition from a somewhat offensive straightforwardness to laudatory approval of the other, was to a large extent the harbinger of the first signs of political correctness in Israeli society as well.

The aim of the present review is to point out the ambivalence of our education system toward political correctness that may be characterized as an attitude of respectful suspicion. Seemingly, there is nothing more natural for our education system than adopting political correctness as it is: the idea that language shapes reality, and may eventually bring about changes in our discourse directly, and indirectly exert a positive influence on social injustices, suits the ideals of our education system. But on the other hand, educationists and other thinkers have raised serious objections against political correctness, perceiving it as hypocrisy and a way of ignoring reality.

Acceptance of political correctness by the education system

The education system’s positive attitude toward political correctness is evidenced by the fact that it has adopted political correctness in its educational discourse. For example, the structural negativity characterizing the ‘discourse on deficiencies’ used by teachers, counselors, principals and parents when discussing children with special needs in the past included explicit words such as ‘backward’ and ‘retardation,’ which have been replaced with ‘disability’ or ‘challenged.’ Recently, the term ‘neurodiversity’ has been suggested as a more suitable word to get away from the negativity of the discourse on deficiencies (Armstrong, 2005). While in the previous terminology children with special needs were identified on the basis of what they were not able to do, the new terminology emphasizes what these children are able to do.

The rehabilitative class and the remedial class have had their names changed to ‘learning disability classes’ or ‘small classes,’ and special education teachers have been renamed ‘integrative education teachers.’

An additional example of changes that have occurred in the education system is the renaming of certain jobs and functions out of sensitivity for their status in the system and society. For example, the new ‘house father’ is none other than the janitor of olden days. Undoubtedly, justbeing a janitor certainly place janitors, linguistically speaking, at the bottom of the hierarchy of our education system. On the other hand, the term ‘house father’ elevates this indispensable school job, linguistically speaking, to a key function in the school’s social scale. Similarly, the woman who helps a kindergarten teacher keep things in order has been upgraded to kindergarten teacher assistant. Semantically, the new term has liberated her from linguistic (subordination?) proximity to the teacher, assigning her a new independent status.

The Hebrew curriculum for seventh and eighth grades (Hebrew curriculum for state and state-religious secondary school, Ministry of Education, Jerusalem, 2003) also includes the teaching of political correctness: in the section dealing with teaching the word formation system, political correctness appears in one of the paragraphs to be taught. It is accompanied by examples of paired expressions such as ‘failed countries’ (‘medinot nichshalot’ in Hebrew)/’developing countries’ (‘medinot mitpatchot’ in Hebrew) and ‘large families’/’families blessed with many children’ (‘merubot-yeladim’/’bruchot-yeladim’ in Hebrew).

A survey of all the director general of the Ministry of Education circulars of the last decade (1997/8 – 2007/8) shows that the Ministry has adopted the spirit of political correctness, albeit not referring to it by name. Political correctness essentially recurs ten times, but under different headings such as ‘the ways of discourse,’ ‘the culture of speaking’ and ‘tolerance of the other.’ This is especially true of the gender issue. One of the more prominent issues is that political correctness in the gender area is particularly problematic in the Hebrew language due to the grammatical distinction between the genders rooted in the language.

In the 2003 circular, paragraph 4 (d), the director general wrote that the change of the ministry’s positions on the subject of genders would include a change “that would express the atmosphere of gender equality both in the use of egalitarian language concerning genders and in the use of egalitarian language concerning genders in communication between teachers and students and among the teachers themselves.” The circular also details various ways to avoid offensive discourse when talking about one of the genders. For example, instead of using the imperative form of the verb (which would require a grammatical distinction between masculine and feminine genders), the circular recommends using an impersonal participial form of the verb or an impersonal infinitive phrase: the gender-sensitive imperative (‘ptach/pitchi,’ masculine and feminine forms meaning ‘open,’ for example, would then be avoided so that a command such as ‘open the book,’ which in the Hebrew imperative has two forms – one for masculine and one for feminine – would be replaced by ‘yeshliftoach et hasefer,’ which could be translated as ‘your book should be opened’ or by
the more informal ‘books open, please!’”) (ibid, paragraph 4.1.3).

According to Whorf’s hypothesis, which claims that our thinking emulates conceptualization, in other words the language we speak shapes the way we think and the way we look at the world, using the masculine grammatical form in speech is likely to affect students to emphasize male superiority over women. Political corrections of language and the use of the term ‘gender’ instead of ‘sex’ when the need arises to distinguish between the sexes are not restricted to grammar only. The new terminology reflects society’s growing awareness of sexist language and sexism in general.

Similar acts were made by The European Parliament that introduced proposals to outlaw titles stating marital status such as ‘Miss’ and ‘Mrs’ so as not to cause offence. It also meant that ‘Madame’ and ‘Mademoiselle’, ‘Frau’ and ‘Fraulein’ and ‘Senora’ and ‘Senorita’ would be banned. The education system’s critical attitude toward political correctness

Side by side with the assimilation of political correctness in the education system, an increasing number of educationists have been voicing some sharp criticism against sweeping and uncompromising demands to use political correctness unconditionally in all situations.

One of the arguments against political correctness is that changing our terminology when speaking about one of the sectors of the population does not ameliorate its condition and contributes absolutely nothing to its advancement. Those who advance this argument believe that the negative connotations attached to certain terms stem directly from the plight in which a particular sector of the population finds itself, and that it is just a matter of time until the new terminology will also be loaded with the same negative associations and connotations attached to its predecessors. An example in support of this argument is the expression “Ministry of Welfare,” which today has become loaded with the same negative associations and connotations as the previous expression: “Ministry of [social] Assistance;” although the word ‘assistance,’ which evokes poverty and needy people, was replaced by a word having a positive connotation – ‘welfare,’ which connotes comfort, both mental and financial, the change did not help.

A second argument against political correctness, derived from the argument stated above, is advanced by Scruton (2000). He criticizes political correctness as immoral and therefore not a worthy educational goal: since political correctness only papers over a troublesome reality, it actually prevents us from really confronting vexing issues and it blurs our awareness of painful social phenomena. It prevents us from directly examining shocking truths and blocks any real possibility of looking in the mirror of our society, not to mention changing our behavior in accordance with universal-humanistic codes. To a very large extent, political correctness deals with a semantic softening of reality: it deals with soothing our conscience by using words that refine reality, that dull our sensitivity and absolve the individual from doing anything real to rectify social injustices. According to Appelfeld (2002), political correctness is mainly a sophisticated intellectual form of repression: all it does is repress our negative feelings and gives the one who uses it a false image of enlightenment and consideration. Political correctness deletes from our lexicon all the negative expressions that reflect our real attitudes and replaces them with positive expressions, which will not arouse the anger of our “super ego,” that great repository of the moral imperative. All it asks of us is to speak inclusively (from the expression ‘social inclusion’) about other cultures, other styles and other values, and never express an opinion or use words that, G-d forbid, could be interpreted negatively in any way. Thus, political correctness is liable to compel us to accept phenomena that should be rightly criticized or out rightly condemned. So, for example, renaming terrorists ‘freedom fighters,’ ‘militants’ or ‘activists’ for the sake of political correctness not only gives legitimacy to murdering innocent people, but it also denies the victims the right to seek redress for the offense committed against them. An additional argument focuses on the tyrannical nature of political correctness: political correctness forces a person to be careful with his speech in order to avoid being criticized for being critical of others. It imposes on its users the adoption of new linguistic coinage instead of the old, reducing people’s right to freedom of expression.

Immediately after a person learns to master the secrets of politically correct discourse, he too can join in the criticism of those who adhere to the old discourse: now he can chide others, correct them and even chastise them for deviating from political correctness. This sort of tyranny is also thought justified “since it is directed against those who still haven’t seen the light” (Appelfeld, 2002).

Lind (2005) claims that political correctness uses the same methods used by the darkest totalitarian regimes. According to Lind, political correctness is Marxist ideology transferred from the economic to the cultural sphere. It is no different than Orwellian “newspeak” illustrated in George Orwell’s book 1984, written in 1948 as a clever speculation on the future: “war is peace / freedom is slavery / ignorance is power.” Like big brother, political correctness acts like thought police, terrorizing those who dare deviate from “correct terminology.” Lind warns against the danger of the public lightly dismissing and even scoffing at the phenomenon of political correctness as of no consequence (mockingly admonishing others not to say, for example, “black sheep,” but to correctly say “colored sheep”) without noticing the latent threat of this obligation to our consciousness.

Acting as the word police, political correctness is liable to censor or even disqualify worthy literary and other works of art considered as offensive to one sector or other. For
example, if language censorship were applied to classic children’s books such as The Adventures of Huckleberry Finn by Mark Twain, in which the expression ‘nigger’ appears more than 200 times, it would almost completely ruin the narrative. Samuel Langhorne Clemens (Mark Twain’s real name) was born and grew in the slave state of Missouri, and therefore his use of the word “nigger” only reflects his upbringing and education. Changing the word to “Afro-American” would be anachronistic and unfaithful to the hero’s upbringing and education, social class and way of speaking (Weisbord, 2005). The exact same thing can be said of the demand to disqualify a song such as “in a white sea, a little group of Blacks picks, in the white cotton field it picks all day long.” Disqualifying the song because of the word “Blacks” would actually censor the memory that in pre-Civil War America cotton picking was backbreaking work performed by African slaves.

Censorship of racial expressions in texts could also act as a boomerang in the education process: the correction of racist expressions would neutralize any chance of criticizing books for racist attitudes embedded in them. For example, Israeli children reading an improved version of Oliver Twist (in which Feigin would not be identified as a Jew) would be unaware of his anti-Semitism and would be unaware of the attitudes the author shares with his character (Weisbord, 2005).

II. CONCLUSION

The major argument of supporters of political correctness is that language is not a neutral and objective tool. It does not merely imitate reality, but it has the power to re-invent reality. On the other hand, the opponents of political reality perceive it as the antithesis of the educational process and point out its alienation from reality and its potential for alienating people from reality as well. However, both advocates and opponents of political correctness see it as a tool of socialization of the first order with a far-reaching educational impact.

BIBLIOGRAPHY

The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers


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Abstract—This study aims to develop an e-assessment prototype as a digital transformation towards the usual assessment practices among communication lecturers. This prototype is an innovative educational technology created for an easy evaluation of students’ assignments. The process of developing the e-assessment prototype is carried out through assessing the three levels of digital literacy development. The first level is to measure lecturers’ digital competency which is conducted by assessing lecturers’ Technological Pedagogical Content Knowledge (TPACK) through sets of questionnaires. The second level is to determine the sets of features and requirements on the digital usage of an e-assessment which is performed by conducting focus group discussions among lecturers. Finally, the third level is to develop an innovative educational technology as a form of digital transformation which is conducted by creating an e-assessment prototype that follows the sets of features and requirements generated. The sample of respondents participated in this study are the lecturers from School of Communication and Creative Arts in KDU University College, Malaysia. This paper documents how the findings of the three levels of digital literacy are used as the foundation for developing an e-assessment prototype called Operational Metric Assessment and Rubrics (OMAR). This e-assessment prototype consists of features and requirements as determined by the lecturers which are useful in evaluating and assessing students’ work. This e-assessment prototype can be a great innovation towards advancing the use of educational technology among academicians.

Key words: Digital competency, digital literacy, digital transformation, e-assessments prototype, educational technology.

I. INTRODUCTION

The use of technology as part of assessment activities not only are able to enhance educators’ current evaluation practices, but it also provides opportunities in digitalising assessment methods [1]. Educational technology platform has improved many assessment practices through activities such as online test or quizzes, technology-based instructional materials, blended learning and so on [2]. Additionally, it is important for educators to have a better understanding of using digital tools to evaluate assignments by following a rubric guideline for evaluation purposes [3]. Therefore, adopting technology-based application to generate electronic assessment prototype is a good enhancement towards lecturers’ assessment practices. Thus, it is important to assess lecturers’ attitude and opinion to gauge their perspective on the features and requirements needed before developing a new technology approach of an e-assessment prototype. The purpose of developing this prototype is to assist lecturers in conducting an easy evaluation of students’ work. Furthermore, a focus on digital literacy is necessary prior to develop new medium where educators can fully utilise the benefit of technology [1]. Technology adoption in educators’ daily routines is essential to the instructional needs of the usual practice that does not necessarily involve teaching [2]. As assessment is part of the main task of being an educator, a more innovative approach towards evaluating students’ assignments is thus deemed necessary to be developed. Besides that, a digitalised assessment system can be designed in which the content requirement can be satisfyingly standardised to improve lecturers’ efficiency [4]. This paper will document the process of developing an e-assessment prototype to assist lecturers with their current practice.

II. RESEARCH BACKGROUND

Prior to developing a new technology application, it is vital to understand lecturers’ attitude and familiarity towards using technology as a medium of practice. Furthermore, the appropriateness of technology can also be seen in a different aspect of an instructional plan [4]. There are many types of assessment in evaluating educators’ technology integration knowledge; one of them is a well-known concept called Technological Pedagogical Content Knowledge or TPACK [5]. This concept is used to assess educators’ technology proficiency through following the guideline of Technology Integration Assessment Rubric [6]. TPACK is able to evaluate several aspects on how technology is being used in understanding content, comprehending pedagogy and applying it to daily tasks.
The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers

that include assessment rubrics practices. Educators usually create an assessment rubrics to measure learners’ level of understanding towards a subject by following the allocation of marks given based on the performance level [7]. Appropriate use of technology will enable educators to generate a more standardised rubrics across the whole educational programme besides attaining the pedagogical benefits. However, this depends on educators’ digital literacy which includes their technological literacy, informational literacy, communication literacy and multimedia literacy [8]. It is important for educators to be familiar with the use of existing digital platform before focusing on a new platform, and this is why digital literacy is a required assessment prior to developing and introducing a new technology-based approach [9]. There is a concept in assessing the development of digital literacy via three stages of assessment, namely digital competency, digital usage and digital transformation as presented in Figure 1 [10].

![Figure 1. Three levels of digital literacy development](image)

As shown in Figure 1, the first level reflects educators’ approaches, attitudes and skills towards using technology where it will reveal their digital competency. The second level reflects educators’ familiarity in using digital as part of their professional discipline; in this case, it refers to their digital usage in assessment activities. The third level reflects the innovation and creativity in developing new technology to be adopted as part of educators’ practices. This will reveal a new concept of digital transformation, or more specifically, the creation of an e-assessment prototype. In order to study digital literacy and develop a new technology, all three levels must be evaluated. Technology’s prevalence has shifted how humans work; therefore, digital literacy is a necessary skill to acquire. Digital literacy is also described as the expertise of an individual in utilising ICT with efficacy as well as the ability to carry out tasks in a digital environment [11]. Additionally, another explanation on digital literacy is related to the awareness, attitude and ability to use digital tools appropriately towards identifying, accessing, managing, integrating, evaluating and synthesising digital resources [12]. Furthermore, technology has transformed daily activities in the education sector for both students and lecturers’ daily practices [13]. Educators’ digital literacy or competency is an important factor that gauges the specific requirement needed to adopt technology into their teaching and learning processes. The industry is expecting lecturers to leverage digital tools and resources so as to maximise their full potential as an educator [14]. Since technology is expanding rapidly, educators’ development process in relation to the concept of digital competency requires greater attention [15].

A suitable assessment method for evaluating digital competency is through evaluating lecturers’ Technological Pedagogical Content Knowledge (TPACK). Based on several TPACK approaches, technology component has recently been added as an extra element in the intersections [16, 5]. This approach articulates the relationships between content, pedagogy and technology. There are seven components of assessment: technology knowledge (TK), content knowledge (CK), pedagogy knowledge (PK), pedagogical content knowledge (PCK), technological content knowledge (TCK), technological pedagogical knowledge (TPK) and technological pedagogical content knowledge (TPACK). These components are used as a correlation study to assess educators’ knowledge for technology integration [6].

While the full technology immersion in education is still dependent on the educator’s literacy, it is important to study how technology can bring a new approach to the educational practices such as the digitisation of assessments [1]. Effective technology integration in the assessment activities can be a prominent evaluation model in educational technology [17]. Furthermore, the shift from traditional-based evaluation model towards effective use of technology-based evaluation model is highly encouraged in order to fit the current digital age learners [13].

### III. RESEARCH METHODS

The proposed methodology for this research consists of three phases of data collection which are guided by the three stages of digital literacy development as presented in Figure 1. As the purpose of this study is to develop an e-assessment prototype, results from the data collection will be used as the guideline in generating the list of features and requirements to be fulfilled by the prototype. The sample of participants for this study consists of lecturers from School of Communication and Creative Arts in KDU University College, Malaysia. The lecturers mostly specialise in Media Studies, Social Studies and Communication subjects; hence, the assessment content of the prototype focuses on the area that falls under these...
The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers

courses. The detailed descriptions of the three phases of data collection are described as follows.

A. Phase 1: Digital Competence
The first phase is to investigate the digital competency of the lecturers from School of Communication and Creative Arts in KDU University College, Malaysia. Lecturers were given sets of questionnaires to be answered. The questionnaires were crafted in the guidance of past surveys which were relevant to the concept of TPACK [5]. In this phase, the quantitative data analysis will be employed to evaluate the extent of lecturers’ digital skills, approaches and familiarity towards technology practices.

B. Phase 2: Digital Usage
The second phase is to assess the requirements on lecturers’ digital usage towards developing a new digitalised approach of electronic assessment practices. 10 lecturers took part in two sessions of focus group discussions where the conversation was guided according to sets of questions created prior to the sessions. In this phase, the qualitative data analysis will be employed to assess lecturers’ opinion and generate the list of suggested features and requests to be fulfilled in the e-assessment prototype.

C. Phase 3: Digital Transformation
The third phase is to propose a digital transformation or new innovation on how the current assessment practices can be digitalised. This is where the findings on the generated features and requirements will be used as a basic guideline to develop the e-assessment prototype. This prototype is expected to assist lecturers for an easy evaluation of students’ assignment.

IV. FINDINGS & DISCUSSIONS
The findings and discussions were presented in this section and three areas were covered: results of digital competency via TPACK assessment, digital usage from the focus group discussions and digital transformation of an e-assessment.

A. Digital Competency: TPACK Assessment
The seven components of assessment, namely technology knowledge (TK), content knowledge (CK), pedagogy knowledge (PK), pedagogical content knowledge (PCK), technological content knowledge (TCK), technological pedagogical knowledge (TPK) and technological pedagogical content knowledge (TPACK) are evaluated via mean scores. The analysis is based on the scores of 1 for poor, 2 for fair, 3 for good, 4 for very good and 5 for excellent.

### Table 1. Technology Knowledge (TK) among lecturers

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I know how to solve my own technical problems</td>
<td>3.05</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can learn technology easily</td>
<td>3.91</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I keep up with important new technologies</td>
<td>3.23</td>
<td>Good</td>
</tr>
<tr>
<td>4</td>
<td>I frequently play around the technology</td>
<td>3.23</td>
<td>Good</td>
</tr>
<tr>
<td>5</td>
<td>I know about a lot of different technologies</td>
<td>2.82</td>
<td>Fair</td>
</tr>
<tr>
<td>6</td>
<td>I have the technical skills that I need in order to use technology</td>
<td>3.32</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>3.26</strong></td>
<td><strong>Good</strong></td>
</tr>
</tbody>
</table>

The total mean of the Technology Knowledge (TK) is 3.26 and is classified under the ‘good’ category. The only statement which is underperformed with a mean of 2.82 suggests that most lecturers do not have an extensive range of technology comprehension. However, the rest of the scores indicate that the lecturers have good knowledge regarding technology operating devices.

### Table 2. Content Knowledge (CK) among lecturers

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I have sufficient knowledge about communication studies</td>
<td>3.26</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can use my communication skills well</td>
<td>3.85</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I have various ways and strategies of developing my understanding of the communication field</td>
<td>3.68</td>
<td>Good</td>
</tr>
<tr>
<td>4</td>
<td>I have sufficient knowledge about social studies</td>
<td>3.59</td>
<td>Good</td>
</tr>
<tr>
<td>5</td>
<td>I can use my social skills well</td>
<td>3.77</td>
<td>Good</td>
</tr>
<tr>
<td>6</td>
<td>I have various ways and strategies of developing my understanding of the social studies field</td>
<td>3.68</td>
<td>Good</td>
</tr>
<tr>
<td>7</td>
<td>I have sufficient knowledge about media studies</td>
<td>3.36</td>
<td>Good</td>
</tr>
<tr>
<td>8</td>
<td>I can use multiple media platforms well</td>
<td>3.55</td>
<td>Good</td>
</tr>
<tr>
<td>9</td>
<td>I have various ways and strategies of developing my understanding of the media field</td>
<td>3.59</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>3.59</strong></td>
<td><strong>Good</strong></td>
</tr>
</tbody>
</table>

The Content Knowledge (CK) among lecturers falls under the ‘good’ category with the total mean of 3.59. Among all the studies listed, social studies received the highest average mean, followed by communication and media studies. It implies that lecturers are knowledgeable towards the subject content. Good content knowledge can avoid misrepresenting topics to students [18].
The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers

**Table 3. Pedagogical Knowledge (PK) among lecturers**

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I know how to assess student performance in a classroom</td>
<td>3.95</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can adapt my teaching based on what students currently understand or do not understand</td>
<td>4.09</td>
<td>Very Good</td>
</tr>
<tr>
<td>3</td>
<td>I can adapt my teaching style to different learners</td>
<td>3.95</td>
<td>Good</td>
</tr>
<tr>
<td>4</td>
<td>I can assess student learning in multiple ways</td>
<td>4.09</td>
<td>Very Good</td>
</tr>
<tr>
<td>5</td>
<td>I can use a wide range of teaching approaches in a classroom setting</td>
<td>3.90</td>
<td>Good</td>
</tr>
<tr>
<td>6</td>
<td>I am familiar with common student’s understandings and misconceptions</td>
<td>4.00</td>
<td>Very Good</td>
</tr>
<tr>
<td>7</td>
<td>I know how to organise and maintain classroom management</td>
<td>3.45</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>4.01</strong></td>
<td><strong>Very Good</strong></td>
</tr>
</tbody>
</table>

Among the previous knowledge assessment, the Pedagogical Knowledge (PK) receives the highest mean score of 4.01 and is classified under the ‘very good’ category. This suggests that lecturers have great teaching skills and are able to adapt to students’ needs.

**Table 4. Pedagogical Content Knowledge (PCK)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I can select effective teaching approaches to guide student thinking and learning in communication studies</td>
<td>3.45</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can select effective teaching approaches to guide student thinking and learning in social studies</td>
<td>3.68</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I can select effective teaching approaches to guide student thinking and learning in media studies</td>
<td>3.62</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>3.59</strong></td>
<td><strong>Good</strong></td>
</tr>
</tbody>
</table>

The Pedagogical Content Knowledge (PCK) represents lecturers’ pedagogical skills in teaching subject content [16]. From the table above, the lecturers have a good value in this assessment with a total mean of 3.59. This implies that the lecturers can select effective teaching approaches for communication, social studies and media courses.

**Table 5. Technology Pedagogical Knowledge (TPK)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I know about technologies that I can use for understanding and doing communication studies</td>
<td>3.18</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I know about technologies that I can use for understanding and doing social studies</td>
<td>3.32</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I know about technologies that I can use for understanding and doing media studies</td>
<td>3.18</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>3.23</strong></td>
<td><strong>Good</strong></td>
</tr>
</tbody>
</table>

The Technological Content Knowledge (TCK) has a total mean score of 3.23, which is in the ‘good’ category. This assessment is based on the suitability of selecting technology features that fit the nature of the subject well [5]. This also implies that lecturers possess both good technological and pedagogical skills for the courses.

**Table 6. Technology Pedagogical Knowledge (TPK)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I can choose technologies that enhance the teaching approaches for a lesson</td>
<td>3.77</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can choose technologies that enhance students’ learning for a lesson</td>
<td>3.86</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I am thinking critically about how to use technology in my classroom</td>
<td>3.68</td>
<td>Good</td>
</tr>
<tr>
<td>4</td>
<td>I can adapt the use of the technologies that I am learning about to different teaching activities</td>
<td>3.95</td>
<td>Good</td>
</tr>
<tr>
<td>5</td>
<td>I can select technologies to use in my classroom that enhance what I teach, how I teach and what students learn</td>
<td>3.77</td>
<td>Good</td>
</tr>
<tr>
<td>6</td>
<td>I can use strategies that combine content, technologies and teaching approaches that I learned about in my coursework in my classroom</td>
<td>3.86</td>
<td>Good</td>
</tr>
<tr>
<td>7</td>
<td>I can provide leadership in helping others to coordinate the use of content, technologies and teaching approaches at my school and/or district</td>
<td>3.5</td>
<td>Good</td>
</tr>
<tr>
<td>8</td>
<td>I can choose technologies that enhance the content for a lesson</td>
<td>3.86</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>3.63</strong></td>
<td><strong>Good</strong></td>
</tr>
</tbody>
</table>

The Technology Pedagogical Knowledge (TPK) has a total mean of 3.63 which falls under the ‘good’ category. This assessment is based on the ability to utilise pedagogical skills with the help of suitable technology platform. As shown in the table above, the lecturers are capable to
choose, adapt and provide leadership towards the use of suitable technology in their teaching activities.

Table 7. Technological Pedagogical Content Knowledge (TPACK)

<table>
<thead>
<tr>
<th>No.</th>
<th>Statement</th>
<th>Mean</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I can teach lessons that appropriately combine communication studies, technologies and teaching approaches</td>
<td>3.24</td>
<td>Good</td>
</tr>
<tr>
<td>2</td>
<td>I can teach lessons that appropriately combine social studies, technologies and teaching approaches</td>
<td>3.39</td>
<td>Good</td>
</tr>
<tr>
<td>3</td>
<td>I can teach lessons that appropriately combine media studies, technologies and teaching approaches</td>
<td>3.19</td>
<td>Good</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>3.27</td>
<td>Good</td>
</tr>
</tbody>
</table>

The final assessment is conducted on the Technological Pedagogical Content Knowledge (TPACK) which is the result of each of the 6 intersections from Table 1 to Table 6. The statements measure the final relationship between the knowledge that combines technology, pedagogy and content studies. This knowledge is developed when lecturers are able to utilise the effective and appropriate use of technology to study the subject content and combine it with their teaching activities [19]. Looking at the final mean score of 3.27, TPACK falls under the ‘good’ category. This implies that the lecturers possess good practice of using technology to acquire knowledge and teaching skills. All in all, lecturers from the School of Communication and Creative Arts possess a good level of digital competency with an overall mean score of 3.27 for TPACK, followed by the mean scores of 3.26 for TK, 4.01 for PK, 3.59 for CK, 3.63 for TPK, 3.59 for PCK, and 3.23 for TCK. This implies that the lecturers are familiar with using technology and they are more than ready to be introduced to a new technological innovation approach as part of their teaching practices.

B. Digital Usage: Requirement & Features

Following the good readings of TPACK scores, the next stage is to investigate lecturers’ preferences towards the digital usage of electronic-based assessment technology. The purpose is to generate a list of features and requirements needed to improve lecturers’ current practice in evaluating students’ work. The following table documents the findings from the focus group discussions with 10 lecturers from the School of Communication and Creative Arts. The generated contents, features and requirements are applied in developing the e-assessment prototype.

Table 8. Generated topic on content features discussion

<table>
<thead>
<tr>
<th>Discussion on list of content features</th>
<th>Topic 1: Standardized and easy-to-use rubrics</th>
<th>Topic 2: Operationalise metric calculation</th>
<th>Topic 3: Automatically generated feedback</th>
<th>Topic 4: A video marking capture and recording</th>
<th>Topic 5: Generating assessment report</th>
</tr>
</thead>
</table>

As shown above, there are five generated topics in regards to the discussion of content features. Participants recommended to have a standardised and easy-to-use rubrics, operationalised metric calculation, automatically generated feedback, a video marking recording, and generating report for the e-assessment prototype. All of these proposed features were said to be able to assist lecturers for an easier evaluation of students’ work and also to minimise unnecessary or repetitiveness of task such as writing similar feedbacks and standardising calculation metric to ensure consistency in all generated marks. The lecturers believe that the usual assessment practice has limitations in efficiency and the utilisation of technology can improve their current practice.

If there is a technology-based assessment, I wish for it to be a standardized rubric or perhaps an application that can search for rubrics that is suitable for the assignment (Participant 10)

What would be nice is to have an application that can record students’ work because when it comes to presentation or performance, it is good to be able to record it first and then view and assess it later rather than to mark it while they are presenting. Maybe the technology can help us to formulate the presentation assessment in such a way. (Participant 08) When we are handling big classes, we noticed sometimes we write same comments while assessing their work and our comments become shorter and shorter over time. (Participant 01)

For me, if the coursework is out of 50, I will set the rubrics calculation to be out of 50, only then I will manually double it up to be out of 100. Sometimes I have rubrics that calculated up to 40 marks, then I will convert it to out of 20, followed by turning it to out of 100. It is never standardized to 100 marks. (Participant 09)

When there’s a written report submission, for example, there will be a rubric that lists down what is needed to assess the work according to the learning outcome. Then we just print it out and mark manually. It will be nice if we can actually run the marks or generate assessment report digitally. (Participant 03) From the focus group topic discussions, the five generated list of features are required to be implemented in the e-assessment prototype.
Table 9. Generated topic on prototype requirements

<table>
<thead>
<tr>
<th>Discussion on prototype requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic 1: Ability to reduce time in assessing students’ work</td>
</tr>
<tr>
<td>Topic 2: Ability to increase productivity in assessment activities</td>
</tr>
<tr>
<td>Topic 3: Ability to encourage the paperless practice</td>
</tr>
</tbody>
</table>

Table 9 shows the generated topic of discussions in regards to the proposed requirements to be fulfilled by the e-assessment prototype. Participants’ recommendation on the proposed requirement consists of the ability of prototype to reduce time in assessing students’ work, increase productivity and encourage the paperless practice. The lecturers believe that the use of technology is supposed to reduce workload and not to increase it. Only then they will be more efficient in evaluating students’ work. On top of that, the use of e-assessment should also reduce paper wastage by lessening the practice of printing out hardcopy version of students’ assignments. When there are more than 100 students in a class, time is the essence. I don’t have enough time and this will affect productivity. So, technology is supposed to help us in reducing the time and increase productivity by allowing us to manage to assess multiple works without jeopardizing the quality of assessments. (Participant 04)

I would like to give feedback to all students individually but because of the large number, I do not have the time to do so. Ideally, it is good to give feedback one by one but it will require a lot of free time which is a luxury that I don’t have and it will be good if technology can assist with this. (Participant 05)

We would like to go paperless and limit our work as much as possible. If we already require doing softcopy, I don’t see why we need to do it again for hardcopy. If I do not need to do the paperwork, I will just run everything online. (Participant 02)

C. Digital Transformation: E-assessment Prototype
Following the generated list of features presented in Table 8, an e-assessment prototype called Operational Metric Assessment & Rubrics (OMAR) was created. The core of this prototype is to have the ability to run a metric calculation by operationalising the pre-set rubric assessments. Table 10 presents the description on how the list of generated features is being implemented into the e-assessment function of the OMAR prototype.

Table 10. Generated contents for the e-assessment prototype

<table>
<thead>
<tr>
<th>Content features</th>
<th>Functions and descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardised and easy-to-use rubrics</td>
<td>The function of this feature is to have an easy drafting of assignment rubrics with a more standardised metric of marks allocation.</td>
</tr>
<tr>
<td>Operationalised metric calculation</td>
<td>The function of this feature is to operationalise the metric calculation by following the set of marks assigned based on different level of performances in the rubrics.</td>
</tr>
<tr>
<td>Automatically generated feedback</td>
<td>The function of this feature is for lecturers to run an auto-generated feedback that has been pre-set prior to assessing students’ work with an extra option for lecturers to personalise their feedbacks.</td>
</tr>
<tr>
<td>A video marking capture and recording</td>
<td>The function of this feature is for lecturers to record students’ presentation and have the ability to tap and mark the part where lecturers can view and assess the presentation afterwards.</td>
</tr>
<tr>
<td>Generating assessment report</td>
<td>The function of this feature is for lecturers to export assessment report into pdf version for archiving or distribution purposes.</td>
</tr>
</tbody>
</table>

In addition to the generated topic in Table 8, there are five generated content features. To implement these features into the e-assessment prototype, it will be carried out according to the specific function that each feature represents. The first feature will be the standardised and easy-to-use rubrics where this will enable lecturers to have a more standardised and digitised version in drafting assignment rubrics. The rubrics will provide marks allocation for the different level of performance such as poor, good or excellent. The second feature is operationalised metric calculation where the function is for lecturers to have the ability to operationalise the metric calculation of the assignment based on the pre-set rubrics. Lecturers only need to select the assigned level and key in marks accordingly and the digital platform will automatically run the metrics calculation of the assessments. The third feature is for lecturers to generate automatic feedback. Right after the lecturers set the assessment rubrics, they can assign a pre-feedback by following the level of performances that can be generated once they have run the metric calculation and have assigned allocated marks. In this way, lecturers can avoid writing the same feedback or comments repetitively. The fourth feature is a video marking capture and recording ability which is designed specifically to assess students’ presentation. The function provides lecturers the ability to record students’ presentation and tap to mark the part where they wish to review and assess later. The final feature is generating assessment report. This function
enables lecturers to save and export the assessment report into pdf version for archiving or distribution purposes.

The Operational Metric Assessment & Rubrics (OMAR) e-assessment prototype was also created by following the requirements as presented in Table 9. These requirements are based on lecturers’ opinion and view on how the e-assessment should be operated to assist their current practice. Table 11 provides description and elaboration on how the OMAR prototype fits the generated requirements.

Table 11. Requirements of the e-assessment prototype

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to reduce time in assessing students’ work</td>
<td>The prototype can assist in reducing lecturers’ time by: 1. Reducing time in grading through the operational metric calculation features which runs a mathematical calculation. 2. Providing the option for lecturers to generate automatic feedback which follows the level of performance as set by the rubrics to avoid writing the same feedback on the submission.</td>
</tr>
<tr>
<td>Ability to increase productivity in assessment activities</td>
<td>The prototype can increase lecturers’ productivity by: 1. Introducing an easier method in grading and calculation of marks through the operationalised metric from the rubrics. 2. Providing a more standardised method of generating rubrics and assessment requirements throughout the whole course. 3. Having an option to add individual comments even with the presence of auto-generated feedback to encourage personalising responses for students.</td>
</tr>
<tr>
<td>Ability to encourage the paperless practice</td>
<td>The prototype can encourage the paperless practice by: 1. Assessing the assignments via the application instead of printing hardcopy version of the rubrics as per current practice. 2. Having students to submit a softcopy version of the assignment as hardcopy version is no longer needed. 3. Having the ability to save and export the full report of the assessment in pdf version for easy sharing of the report with students.</td>
</tr>
</tbody>
</table>

There are three main requirements which include the ability to reduce time, increase productivity and encourage the paperless practice. The OMAR prototype fits the first requirement on the ability to reduce productivity during assessments, the prototype can assist lecturers with an easier grading approach, a more standardised rubrics throughout the whole course and an additional option to encourage personalising feedback or comments for students. Lastly, the prototype fits the third requirement on the ability to encourage the paperless practice. It provides lecturers the option to fully assess students’ work online without having the need to print a hardcopy version of the assignment as softcopy version of assignments will be sufficient. Additionally, the generated feedback and assessment report can be exported to pdf version for archiving or distribution purposes. The prototype comes with a clear flow of assessment activities on how lecturers can run the metric calculation of the assignment rubrics. Figure 2 shows the flow of the OMAR e-assessment prototype.

The flow of activities begins with a page for lecturers to key in the details of assignments such as types of assessments, course name and other key information. Next, the lecturers will either use a ready-made rubrics template or create their own rubrics according to the preferred content, metric calculation of the marks and the level of grading as shown in Figure 3. Each segmented content has specific marks with the calculation metric.
The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers

Figure 3. Pre-set rubrics

Once the lecturers have selected the rubrics template or have personally assigned the details of the rubrics, they can edit the pre-set feedbacks by following the level of performances. Similarly, lecturers can use the ready-made feedback template or edit their own feedback by following the grade level for each grade segment. The next step is for lecturers to operationalise the metric calculation on a selected assignment. There will be two versions of assignment available for lecturers to assess in this prototype; written assignment or presentation. As shown in Figure 4, if lecturers operationalise the rubrics on a written assignment, they may assess several parts of the submission and assign the grade by clicking on the level of performance set by the rubrics. The keyed-in marks will be automatically calculated at the end.

Figure 4. Operationalise metric following the assigned rubrics

As shown in Figure 5, if lecturers operationalise the rubrics on presentation, they can record the presentation and tap on parts where they wish to mark besides having the ability to run a metric calculation. The part that has been tapped can be reviewed later and this enable lecturers to properly assess rather than having to do it while the presentation is carried out. This will provide lecturers the ability to have higher efficiency in assessing students’ presentation.

Figure 5. Video recording and marking capture

Figure 6 shows the last step where lecturers can generate the assessment report by exporting it to pdf version so that they can either distribute the report to the students or keep it in the archive. This will be the last flow once all the assignments have been assessed and all the rubrics components marks have been keyed in. As the metric calculations will be done automatically, lecturers do not need to calculate students’ scores or grades manually. The OMAR e-assessment prototype was developed based on the list of features and requirements generated from the findings of the focus group discussion. This is to ensure that this prototype is able to assist lecturers for an easy evaluation of students’ assignment.

V. CONCLUSIONS

Implementation of technology as part of educational practice is an area that has been covered in many different research. There have been many efforts and inventions created to assist educators in their daily tasks. As for the approach on digitalising assessment activities, there have not been many approaches that operate according to the concept of operationalising the set of assignment rubrics into a metric calculation. Therefore, the Operational Metric Assessment & Rubrics (OMAR) e-assessment prototype is a new innovative technology invention for an easy evaluation of students’ assignment. In this paper, the authors documented the process of developing OMAR e-assessment prototype by using the three level of digital literacy development as a guideline. The first level is to assess lecturers’ digital competency so as to make sure that
The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers

lecturers are familiar with using technology as part of their practice. This has been done by using TPACK as the competency measurement approach. The second level is to investigate lecturer’s digital usage in order to understand their opinion and perspective on using electronic-based assessment. Findings from the second level are used to generate the list of features and requirements to be implemented into the development of an e-assessment prototype. The third and final level is to propose a digital transformation where a new technology innovation was introduced to enhance the current practice. In this level, the development of Operational Metric Assessment & Rubrics (OMAR) e-assessment prototype was created by following the guidelines of the listed features and requirements generated in the second level. The e-assessment prototype was created to assist lecturers’ task by reducing the workload, increasing productivity and encouraging the paperless practice. Developing a prototype that can enhance the innovative use of educational technology has always been a beneficial research project and has a great potential in becoming a breakthrough invention in the research world.

VI. ACKNOWLEDGEMENTS

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The Development of an E-assessment Prototype by assessing the Three Levels of Digital Literacy among Communication Lecturers


I. INTRODUCTION

Satellite Image enhancement is the process of improving the quality of image in the absence of resolution and contrast for better visual perception so to understand the information present in the image. Satellite images are used in many applications such as geosciences studies, astronomy, and geographical information systems. The main purpose of enhancing the satellite image is to intensify certain image features for analysis, diagnosis and display. This technique can be achieved by either suppressing the speckle noise or increasing the image contrast. There are many techniques proposed for satellite image enhancement, among which histogram equalization technique is most efficient and popular. They are simple, fast, and better results are achieved in some of the applications [1] which bring a limited improvement, because fixed contextual regions cannot adapt to features of different size. Later, many other methods were introduced with local contrast measure and nonlinear transform function. Their main disadvantage of these methods is additive noise suppression model that can cause amplification of the noise. To overcome this proposed singular valued decomposition (SVD) and lifting wavelet transform (LWT) based satellite image enhancement technique in which additive noise suppression is done by using SVD and image contrast enhancement is done by LWT. SVD is based on a theorem from linear algebra which says that a rectangular matrix $\mathbf{A}$, is a product of three matrices that is an orthogonal matrix $\mathbf{U}$, a diagonal matrix $\mathbf{\Sigma}$ and the transpose of an orthogonal matrix $\mathbf{V}$. The singular-value-based image equalization (SVE) technique is based on equalizing the singular value matrix obtained by singular value decomposition (SVD). SVD of an image, can be interpreted as a matrix using eq. (1)

$$\mathbf{A} = \mathbf{U}_\mathbf{A} \sum_{\mathbf{A}} \mathbf{V}_\mathbf{A}^T$$

(1)

Where $\mathbf{U}_\mathbf{A}$ and $\mathbf{V}_\mathbf{A}$ are orthogonal square matrices and $\sum_{\mathbf{A}}$ matrix contains singular values on its main diagonal [2]. The singular value matrix represents the intensity information of input image and any change on the singular values change the intensity of the input image. The main advantage of using SVD for image equalization, $\sum_{\mathbf{A}}$ contains the intensity information of the image [3][4]. In case of singular value decomposition the ratio of the highest singular value of the generated normalized matrix, with mean zero and variance of one, over a particular image can be calculated using the eq. (2)

$$\xi = \max(\Sigma N(\mu = 0, \text{var} = 1))/\max(\Sigma A)$$

(2)

By using this coefficient to regenerate an equalized image by eq. (3)

$$\mathbf{E}_{\text{equalized}} = \mathbf{U}_\mathbf{A}(\sum_{\mathbf{A}}) \mathbf{V}_\mathbf{A}^T$$

(3)
Where $E_{\text{equalized}}$ is used to denote the equalized image. The equalization of an image is used to remove the problem of the illumination.

II. PROPOSED METHOD

This paper basically consists of two parts. The SVD is used as first step; In SVD the matrix obtained by SVD contains the illumination information. So, by changing the singular values in the matrix will only effect on the illumination of the image and remaining will be same. The second important step in this paper is the application of LWT [5]. Lifting wavelet transform totally follows the lifting scheme; it consists of three steps Split, Predict, Update as follows; Firstly, the original data is decomposed into two irrelevant subsets, i.e. even indexed subsets and odd indexed subsets. In predict, the wavelet coefficients are obtained by predicting the error generated in odd indexed points from even indexed points using prediction operation, and finally the above obtained wavelet coefficients and the even indexed points are combined to form a scaling coefficients, i.e. low frequency components which are used for further processing. These all three steps form lifting scheme is shown in fig.1. In LWT the image is decomposed into four sub-bands. In which the illumination information is embedded in LL sub-band and the edges are concentrated in remaining sub-bands (LH, HL, and HH). Later, applying the illumination enhancement to LL sub-band will give better enhancement results along with good sharpness because of separating the high frequency components (i.e. edges) present in the remaining sub-bands.

\[ \xi = \frac{\max(\Sigma_{LL})}{\max(\Sigma_{II})} \]  \hspace{1cm} (4)

Where, represents the singular value matrix of the input image and is the singular value matrix of the GHE output. Now, the new sub-band along with LH, HL, HH sub-bands are recomposed by applying inverse LWT for equalized output image using eq. (5),

$$ \tilde{A} = ILWT(\tilde{LL}, \tilde{LH}, \tilde{HL}, \tilde{HH}) $$ \hspace{1cm} (5)

Algorithm I describes about the proposed approach for satellite image enhancement. In addition, discussed the results with some of the existing conventional methods like general histogram equalization (GHE), DWT [7], Dual tree complex wavelet transform etc. in terms of some historically adapted parameters like peak signal to noise ratio (PSNR), mean square error (MSE), structural similarity (SSIM).

Algorithm I: The proposed approach (SVD and LWT) to enhance satellite image.

III. RESULTS

Lifting wavelet transform and SVD based low contrast satellite image enhancement is proposed in this paper. Fig. 2 show the real grey scale images with 512×512 sized taken from Land sat Imagery Database [6], the whole experiment is carried out on Matlab 7.14 and 2.83 GHz quad-core processing power with physical memory 2GB. The considered satellite image contains information of different portion of earth and environment from India. These images are having different visual perception because of different resolution and luminance etc., fig. 2 show the simulation results obtained with proposed method. The efficiency of the proposed algorithm is measured in terms of additive noise suppression as shown in fig. 2. The visual performance of the enhanced images is
Singular Valued Decomposition Based Low Contrast Satellite Image Enhancement Using Lifting Wavelet Transform

Deteminied by using peak signal-to-noise ratio (PSNR) and mean square error (MSE) and structural similarity (SSIM) which are historically adopted in image processing in order to evaluate the performance of the output results as shown in Table I-II; these parameters use continues to be predominant in the performance evaluation of any image coding system.

$$PSNR = 10 \log_{10} \frac{L^2}{MSE}$$  \hspace{1cm} (7)

From eq. (7), L shows the values of pixel range. As MSE is inversely proportional to PSNR, thus the small mean square error tends to high signal to noise ratio. The quality measurement for image is directly measure from the pixel values. For better image quality the PSNR must be high. The SSIM index is a method for measuring the similarity between two images. The SSIM index can be viewed as a quality measure between the two images with respect to the perfect quality by using eq. (9).

$$SSIM(x,y) = \frac{2\mu_x\mu_y + c_1(2\sigma_{xy} + c_2)(\sigma_x^2 + \sigma_y^2 + c_1)}{\mu_x^2 + \mu_y^2 + \sigma_x^2 + \sigma_y^2 + c_1 + c_2}$$ \hspace{1cm} (9)

Where $\mu_x, \mu_y$ are average of x and y, $\sigma_{x^2}, \sigma_{y^2}$ are variance of x and y, c1, c2 are used to stabilize the division with weak denominator. These parameters are used in this paper for judging the similarity measurement between the images.

### TABLE I.
**ANALYSIS OF THE PROPOSED METHOD WITH [8][9][10][11] IN TERMS OF PSNR**

<table>
<thead>
<tr>
<th>METHODS</th>
<th>PSNR (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT-CWT-RE</td>
<td>16.6638</td>
</tr>
<tr>
<td>DT-CWT-NLM-RE</td>
<td>17.5895</td>
</tr>
<tr>
<td>CS</td>
<td>27.4247</td>
</tr>
<tr>
<td>DWT/BILINEAR</td>
<td>32.1275</td>
</tr>
<tr>
<td>W2P</td>
<td>32.1723</td>
</tr>
<tr>
<td>DWT</td>
<td>32.4580</td>
</tr>
<tr>
<td>SWT-DWT</td>
<td>24.7200</td>
</tr>
<tr>
<td>SWT-IWT-SVD</td>
<td>39.1700</td>
</tr>
<tr>
<td>PROPOSED METHOD</td>
<td>48.0170</td>
</tr>
</tbody>
</table>

The proposed method is applied over 20 different real satellite images taken from Land sat database. Table I show the simulation results for some of the considered images. The proposed method gives better results in terms of all fidelity parameters as shown in Table I in terms of peak signal to noise ratio (PSNR).

### TABLE II.COMPARISON OF PROPOSED METHOD WITH [12][13] METHODS

<table>
<thead>
<tr>
<th>Methods</th>
<th>SSIM</th>
<th>MSE</th>
<th>PSNR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHE</td>
<td>0.7312</td>
<td>78.69</td>
<td>22.32</td>
</tr>
<tr>
<td>DWT</td>
<td>0.7533</td>
<td>640.98</td>
<td>25.44</td>
</tr>
<tr>
<td>MWT</td>
<td>0.9816</td>
<td>450.73</td>
<td>29.79</td>
</tr>
<tr>
<td>AWT</td>
<td>0.9720</td>
<td>103.35</td>
<td>27.99</td>
</tr>
<tr>
<td>PROPOSED</td>
<td>0.9978</td>
<td>11.56</td>
<td>44.99</td>
</tr>
</tbody>
</table>

Proposed method (SVD and LWT) gives better enhancement results than some of the existing methods shown in Table II in terms of some efficient fidelity parameters. The SSIM results the perceived change in the structural similarity. Structural information is the idea that the pixels have strong inter-dependencies especially when they are spatially close. These dependencies carry important information about the structure of the objects in the visual scene. The SSIM ranges between -1 to 1. SSIM is 0.7312 for GHE, 0.7533 for DWT, 0.9816 for MWT, 0.9720 for AWT and for the proposed method it is 0.9978 gives better similarity results. The structural similarity with value spread at 1 indicates a better image and it is very close to 1 in case of proposed method. The mean square error between the two images is calculated to show the error rate. The greatest similarity is achieved when MSE equal to 0. The large value of MSE means that image is poor quality. The better image quality is observed with the value of 11.56 for proposed method, 78.69 for GHE, 103.35 for AWT, 450.73 for MWT, and for DWT it is the maximum with 640.98, indicating the poor quality and proposed method show the minimum value with better image quality. A small mean square error results in a high peak signal to noise ratio, if MSE tends to zero, then PSNR tends to infinity. Excellent values range from 30 to 50 dB.

The proposed method shows 44.79 giving better result. From the above results it clearly shows that proposed method gives better enhancement results for real satellite images.

### IV. CONCLUSION

Lifting wavelet transform and SVD based anew satellite image contrast enhancement technique is proposed in this paper. SVD is used for removal of additive noise in satellite images and LWT process is based on lifting scheme consists of split, predict and update having multi resolution analysis used for image enhancement in this
manuscript. Firstly, the LWT decomposed the image into four sub-bands, then singular value matrix is updated using LL sub-band and the image is reconstructed using inverse LWT. The proposed method is compared with GHE, DWT, MWT and AWT, Dual tree complex wavelet transform, and different wavelets. The obtained results show the superiority of the proposed method over the conventional methods.

REFERENCES


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Fig. 2. Various input and output satellite images with their respective histograms.
Monitoring of Children Online Activities

Abstract- The information and communication technology has passed the territorial and geographical borders. Nowadays we leave at the time where every part of the society is influenced from the rapid development of information technology. Taking this into consideration, almost in every home there can be found different technological devices, and it is normal to expect a big influence of these devices into the life of every individual person.

In this direction, the most sensitive part of the society are children. All of us, especially parents, are very interested for the health education of the new generations. Therefore, we must be aware about the influence of information technology, in particular to our children. In this paper we investigate the level of influence of the information technology and its consequences to the development of children. The question that appears here and which we want to answer, is to detect the level of actions taken from the responsible institutions such are schools, other institutions, parents, etc, in order to improve this field, which is very important for healthy upbringing of children. Also we want to detect what are the negative consequences of the use of these technologies. What is the impact of these consequences. What actions are taken in order to improve and to stop the negative phenomena.

In order to prevent the society from these negative phenomena, in the beginning we must define and detect the direction and the form in which they appear. To achieve this, first we must have sufficient and relevant information. All the above mentioned questions can be analyzed if in the beginning we get an information about the reason of pushing the children to use these devices with such an intensity. Therefore, monitoring these activities of children is of big importance. Actually, these aspects are the subject of the research in this paper. In the beginning we detect the opinion of the parents. Then, we continue with the next step which is the identification of different forms of such a monitoring. Finally, we give some significant dependencies among the factors which are defined as variables.

Index Terms—Information and communication technology, Monitoring of online activities, Pearson chi-square test, significant dependencies.

I. INTRODUCTION

Computer games, e-mail, internet in general, smart phones are integral part of our lives. [2]. “Our brain” is influenced from the virtual world. The new technology devices, games, social networks etc, have a big impact on the life of every individual, in particular children [3]. This reflects a new behavior of teenagers [2].

The studies have shown that between 93% and 97% of teenagers who use internet, are using it every day. Teenagers use digital devices for different purposes [4].

In Great Britain 100% of children of the age from 12 to 14 use internet. In Israel this number is 98%, in Check Republic 96%, in Canada 95% and in the USA 88% [5].

We want to analyze the form and the level of the monitoring of these activities by parents. Also we want to find out is there any kind of support by parents in order to achieve the proper use of online resources. Do they give advices and do they check the web-history of their children.

From the research done in [7], one can conclude that children of age from 8 to 18 are passing approximately 6.5 hours per day in front of the desktop. Adding few more hours one can achieve the time which is the official daily working time.
Our aim is to analyze the level of presence of children in the virtual world, its influence to their behavior, and the role of parents in this process.

1 from 3 people consider internet as important as the air, water, food and home [8]. Internet dependence can touch everyone, regardless their age, gender, economical and social status [9].

The time that we spend using internet has negative impact on realizing other activities [10]. Studies done in [11, 6, 10] have shown that the social interaction between teenagers is one of the most important activities, which is actually replaced by using internet. This implies no active sport life, no interaction between them, no direct communication between teenagers which actually forms virtual picture for the life, etc. In [6] one can find a study that shows that using internet is followed by the process of losing friends, increasing the depressive reactions etc.

Parents can play an important role in monitoring the online activities of their children. They can monitor the digital activities in different forms. In the research done in [1], one can find an information that there are taken different activities from parents in order to monitor the online activities of their children of age between 13 and 17. From this study one can discover that 61% of the parents have made some kind of control regarding the WebPages that their children are visiting. Actually, 60% of the parents have made the control of social network of their children, 56% have followed the children on facebook, Twitter etc., and 48% of the parents have known the password of their children. An interesting fact is that 39% of the parents have used the methods for blocking or monitoring the online activities of their children.

II. METHODS

The population of the study consisted from parents of teenagers from the region of Presevo and Bujanovc, Republic of Serbia. We surveyed 190 randomly chosen parents from 10 different schools. For this purpose we prepared a questionnaire, which consisted of four sections. Section A was about the general information, section B consisted from questions about teenagers and internet, section C was about teenagers and the social networks and the last section, actually section D, was about perceptions and opinions. In order to evaluate the use of internet were used specific scales as (i) Every day; (ii) Every week; and (iii) Every month, and each of these scales had its subscales. In order to evaluate the perceptions about different factors of using internet there was applied the Likert scale with options: (a) never; (b) sometime; (c) maybe; (d) often; and (e) always.

In order to get a clear illustration concerning the interpretation of the gathered data, making conclusions and decisions, we have used the Statistical Analysis Software SPSS. In the beginning we analyzed some elements from the descriptive nature, then we continued with an analysis concerning some other statistical values and dependencies. For analyzing the obtained data in this research we used Cross Tabulations. This is done with the purpose to get clearer picture for the topic of discussion. We have used the chi-square test, the so called Pearson value in order to find the significant dependencies between different factors. The 0 hypothesis is that the variables are dependent. If the obtained value is less than the referent value of 0.05, then we can conclude that the hypothesis 0 is fulfilled, which means that there exists a significant dependence between the variables. Otherwise, we can conclude that variables are independent.

III. RESULTS

In this research from all parents who have answered the questionnaire, 65% were men and 35% women. 52.2% were of the age from 31 to 40 years old, 41.1% from 41 to 50, 2.2% were under 30 years and 4.4% were above 50 years old. Concerning the education, 11.1% of parents had just elementary school degree, 54.4% had high school degree, 33.3% had Faculty degree and 1.1% had master degree. Concerning employment, 55.6% of the parents were employed and 44.4% of the parents were not employed.

Concerning the age of the children, 15.6% of them were under the age 10, 45.6% were between 11 and 12, and 38.9% were above 13. 43.3% were boys versus 56.7% of girls. 95.6% are user of internet versus just 4.4% who have declared that they do not use the online resources. Concerning the use of social networks, 70% of children are users of at least one network versus 33% of answers that they do not use such a network. It is an interesting fact that 26.2% of parents have no information about this issue.

Concerning the time that they spend using internet 36.5% of parents did not answer the question and 5.6% answered that they do not know. Using this fact, one can conclude that maybe parents do not have that kind of information about their children. Concerning this question we have answers that 14.4% spend between 3 and 4 hours and between 7 and 8. 12.2% have answered more than 9 hours and the dominant answer was about the option between 5 and 6. In total one can conclude that approximately 60% of children spend more than 3 hours on internet.

On the table below we show the obtained chi-square result about the dependence between the gender of the children and the time that they spend by using internet. The obtained Pearson coefficient is 0.492. This number is bigger than the referent value of 0.05. This means that these two factors are independent. So, there is no relation between these two variables.
Fig. 1. Chi-square test between the gender and the time spending in internet

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>3.406a</td>
<td>4</td>
<td>.492</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>3.525</td>
<td>4</td>
<td>.474</td>
</tr>
<tr>
<td>Linear-by-Linear</td>
<td>.108</td>
<td>1</td>
<td>.742</td>
</tr>
<tr>
<td>Association</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>58</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Same is about the age and the time they spend using internet. There is no dependence because the Pearson value is 0.19. This means that with the accuracy of 81% the use is dependent on the age.

Concerning the frequency of use, 64.4% have answered that they use every day, and 35.6% have not given any answer to this question. Even there were answers indicating that the internet is used few times per day. This means that internet has a big influence to the life of the children.

Just in 34.4% of cases parents and children have the common online communication. This is an alarming fact because it shows that parents do not have enough control on how their children are using the internet. This is confirmed also from the answers concerning the question: do they have control what their children do when they use internet. 70% of answers were that they do not have any control versus just 25.6% who have answered that they do control.

In the table below we give the chi-square value concerning the dependence between the level of education of parents and the variable of controlling the work of children.

Fig. 2. Chi-square testi between the level of education and having information

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>27.232a</td>
<td>3</td>
<td>.000</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>28.466</td>
<td>3</td>
<td>.000</td>
</tr>
<tr>
<td>Linear-by-Linear</td>
<td>23.899</td>
<td>1</td>
<td>.000</td>
</tr>
<tr>
<td>Association</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>86</td>
<td></td>
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</tr>
</tbody>
</table>

From Fig. 2 one can conclude that there is a very big dependence (100%) between these two factors. Hence, the level of education increases the monitoring level of parents.

Concerning the desire of their children to be online, the dominant answer was the option “often” with 36%, followed by the option “sometimes”. Concerning the fact do they feel anxiety using internet, just 22.1% of parents have answered that they have not noticed any kind of anxiety. This means that the dominant percentage of children have that kind of feeling and reaction, which is very concerning. 35% of children “often” do not tell the truth about the time spending online. Just 2.3% of parents have answered that they have not noticed such a reaction. Just 3.5% have answered that their children does not lose the sense of time when uses internet. 29.9% of parents have answered with “often” and 46.5% with “sometimes”.

Concerning the desire of their children to be online, the dominant answer was the option “often” with 36%, followed by the option “sometimes”. Concerning the fact do they feel anxiety using internet, just 22.1% of parents have answered that they have not noticed any kind of anxiety. This means that the dominant percentage of children have that kind of feeling and reaction, which is very concerning. 35% of children “often” do not tell the truth about the time spending online. Just 2.3% of parents have answered that they have not noticed such a reaction. Just 3.5% have answered that their children does not lose the sense of time when uses internet. 29.9% of parents have answered with “often” and 46.5% with “sometimes”.

In 100% of cases there is a moment where they decide to refuse to be with friends as a result of wanting to be online using internet. 54.7% of parents have answered that internet has a negative impact for achieving good results at school. 45.3% of parents have answered that “sometimes” they have experienced with emotional reactions of their children as a result of using internet. 30.2% have answered with “often”. Just 15.2% have answered with “never”. Also in 79% of cases there is an opinion that internet has a negative impact on the normal sleep of their children.

47.7% of parents have an opinion that internet “often” has an informative role for their children, 19.8% of them have answered with “always”, etc. There was no answer with the option “never”. This means that parents in general think that internet has an informative role for their children. On the other hand, 43% of parents agree that internet “often” has an entertaining role for their children. 26.7% have answered using the option “always” etc. For this question also as for the previous one, there was no answer with the option “never”. Hence, each parent has an opinion that, somewhere more and somewhere less, internet has an entertaining role. Concerning the possibilities for creating a new relationships with friends and family members, 44.2% of parents have answered choosing the option “often” and 25.6% have used the option “always”, etc. Again there was no answer with the option “never”. Thus, we can conclude that internet also has an important impact in creating a new relationships.

Concerning the behavior of their children, 42.2% of parents think that “sometimes” internet has an influence to their behavior, 39.5% have answered with “often”, the option “rare” and “always” are chosen with 7% and 9.3%, respectively. There is no answer with “never”. So, the general opinion is that, somewhere less and somewhere more, internet has an influence to the behavior of children.
Monitoring of Children Online Activities

Very concerning is that 97.7% of parents have not done any kind of monitoring activity to check how their children use internet. Just 2.3% of them have answered with “Yes”. This fact shows that parents do not have any picture about the use of internet by their children. Similar percentages have appeared for monitoring the quality of WebPages that their children use, about the issue if they have blocked some activity of their children, about checking the history of WebPages, etc. So, the general conclusion is that parents have no control about the online activity of their children. From this, one can conclude that the monitoring of online activities of children is not in a satisfactory level.

Concerning the case of giving suggestions, remarks etc., we have the following results: 57% of parents have answered that they have gave suggestions to their children versus 43% of parents who have answered with the option “never”. 55.8% of parents have discussed with their children about internet, versus 44.2% who have answered negatively. From the results one can conclude that more than half of parents have not done any kind of discussion with their children concerning the internet.

IV. SOME SIGNIFICANT DEPENDENCES

There is a very strong relationship between the age and level of surfing in internet by using cell phones. The chi-square coefficient is given at the Fig. 3:

**Fig. 3 Chi-square test between the age and the level of using the cell phone**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>17.012a</td>
<td>6</td>
<td>.009</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>14.742</td>
<td>6</td>
<td>.022</td>
</tr>
<tr>
<td>Linear-by-Linear Association</td>
<td>10.179</td>
<td>1</td>
<td>.001</td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>52</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

One can conclude that the Pearson coefficient is 0.009. So there exists a very strong dependence. This means that by the age is increased the level of usage of the cell phones. The same is about the use of internet outside home versus the age. In this case the Pearson value is 0.000 which means that the dependence is at a maximal level of 100%. The result is given in Fig. 4.

**Fig. 4. Chi-square test between the age and the level of using the cell phone**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>34.046a</td>
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<td>.000</td>
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<tr>
<td>Likelihood Ratio</td>
<td>37.125</td>
<td>3</td>
<td>.000</td>
</tr>
<tr>
<td>Linear-by-Linear Association</td>
<td>30.361</td>
<td>1</td>
<td>.000</td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>86</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There exists a strong dependence between the level of education of parents and the fact if they have discussed with their children about internet usage. As higher is educational level of parent, more they monitor the online activity of their children. This dependence is 100% because the Pearson coefficient is 0.000.

**Fig. 5. Chi-square test between the level of education of the parent and level of discussions concerning online activities**

Concerning the importance of internet and the concern of parents about negative effects of internet, the Pearson value is 0.000. So with a very high probability one can conclude that importance and the concern are in direct proportion. This strengthens the idea that taking the activities for education of children for proper use of internet is of very big importance. From this one can conclude that advices and discussions with the children as well as the monitoring the online activity, increases the responsibility of using internet and social networks.

Dependence exists also between the opinion about the importance of internet and the level of monitoring. The chi-square table is given in Fig. 6.
Monitoring of Children Online Activities

The Pearson coefficient is 0.030. The conclusion is that as more a parent monitors the activity of children, deeper is the feeling that the internet has an important role in the life of their children.

The dependence about the level of monitoring and the frequency of discussions is also significant by the Pearson value 0.043. This means that monitoring the online activities increases the probability that the parent will discuss and advise their children about the use of internet. This confirms that advices and regular control by parents, has positive impact and increase the level of responsibility.

A logical dependence exists between the level of monitoring and the variable which describes for what actually children use internet. The Pearson value is 0.000. This means that increasing the monitoring the security of positive usage of internet is increased.

There is a significant dependence between the time spending online and the achieved success at school. The chi-square table shows that the Pearson coefficient is 0.048 which is less than 0.05.

Hence, more time children spend on internet bigger is the risk of having problems with friends and others. This confirms the fact that increasing the level of use of online resources has a negative impact in creating a good relations in society and family.

A strong dependence exists between the time that they spend using internet and the variables concerning the anxiety, telling lies, problems with sleeping and having emotional blast as the result of using internet. The Person’s coefficients’ were 0.001, 0.027, 0.031 and 0.047, respectively. All of these values are less than 0.05. This means that more time they spend using internet, bigger is the possibility to have anxious reactions, to tell lies, to have problems with sleeping, and to have emotional blasts. This confirms that excessive use of internet causes problems which reflects negatively in social aspect but also on the health.

There were also some independence relation. Such a relation is between the educational level of parent and their concern. One cannot say that parents with higher level of education are more concern. The concern is on the same level for each parent. This is due to the fact that the Pearson’s coefficient is 0.815 which is bigger than 0.05; see the table below.

Fig. 6. Chi-square test between the importance and the level of monitoring

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>8.955a</td>
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<td>.030</td>
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<tr>
<td>Likelihood Ratio</td>
<td>11.153</td>
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<td>.011</td>
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<tr>
<td>Linear-by-Linear Association</td>
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</tr>
<tr>
<td>N of Valid Cases</td>
<td>86</td>
<td></td>
<td></td>
</tr>
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</table>

So, one can confirm that the time spending on internet is disproportional by the success achieved at school.

The same can be concluded about the time spend online and the problems that the children may have with friends and other members of family. The Pearson value is 0.006.

Fig. 7. Chi-square test between the achieved success at school and the time spending online

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
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<td>Pearson Chi-Square</td>
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</tr>
<tr>
<td>Likelihood Ratio</td>
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<td>.055</td>
</tr>
<tr>
<td>Linear-by-Linear Association</td>
<td>2.132</td>
<td>1</td>
<td>.144</td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>58</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig. 8. Chi-square test between the time spending online and the problems with others

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
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<td>Pearson Chi-Square</td>
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<td>.006</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
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<td>.005</td>
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<td>Linear-by-Linear Association</td>
<td>.932</td>
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<td>.334</td>
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<tr>
<td>N of Valid Cases</td>
<td>58</td>
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</tr>
</tbody>
</table>

Hence, more time children spend on internet bigger is the risk of having problems with friends and others. This confirms the fact that increasing the level of use of online resources has a negative impact in creating a good relations in society and family.

There were also some independence relation. Such a relation is between the educational level of parent and their concern. One cannot say that parents with higher level of education are more concern. The concern is on the same level for each parent. This is due to the fact that the Pearson’s coefficient is 0.815 which is bigger than 0.05; see the table below.
Monitoring of Children Online Activities

Fig. 9. Chi-square test between the educational level of parents and concerns

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>df</th>
<th>Asymp. Sig. (2-sided)</th>
</tr>
</thead>
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<td>Pearson Chi</td>
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<td>.815</td>
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<td>Square Likelihood Ratio</td>
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<td>.522</td>
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N of Valid Cases 86

CONCLUSION

In this research we have analyzed the situation with online monitoring of activities of children by using the parents perspective. In the beginning we considered some concerns and at the end after analyzing the results we tried to give some answers about them.

For this purpose, besides the methods of descriptive statistics and frequency analysis, we have used also the crosstabulation and the correlation analysis in order to strengthen the conclusions.

After each result we have given conclusions about the existence of dependence and the level of this dependence.

The analysis covers a big range of aspects which can be implied by using internet, such as the advantages, consequences, benefits, disadvantages, etc.

REFERENCES

