

Design E-learning System for Under Develop Country

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Abstract— E-learning is a useful tool for improving the quality of teaching and learning. It is a gives of modern science for the development of the traditional education system. Combination of conventional learning and e-learning, the education system can be more affluent and efficient. Education is one of the best keys for the development of a country and e-learning is one of the best ways to develop conventional education system. Compared with conventional education, e-learning has excellent advantages, which cannot found in conventional learning. Especially e-learning is more important for the underdeveloped country because it helps a lot, of college and University students to enrich their knowledge, especially on their preferred subject. This paper will show how to implement an effective e-learning system in an underdeveloped country.

Keywords: E-Learning, Conventional Education, Affluent, Combination, Enrich

I. INTRODUCTION

The traditional education system student need to come classroom to attend the teacher lecture in time. However, in the system of e-learning, the student does not need to attend class. It is open 24/7 [1]. Students can attend the lecture of his convenient time [5] [7]. With the breakneck expansion of Information and Communication Technology, online learning has been mixed into conventional education [2][6]. E-learning is highly favorable to provide cost-effective education irrespective of time and geographical boundaries [5][6][10]. By this system, tutoring can also reach in the remote region [3]. In the traditional education system, the time fixed, classroom fixed and most of the time teacher also set but in the e-learning system anytime, anywhere, and anyone from any others organization can take the class via internet and students can also partake the course from anywhere, anytime there is no restriction. A country can change dramatically in his education system by using e-learning. It does not substitute the conventional education system. "In developing countries, e-learning can compensate for the weakness of conventional education system" [5], blended learning becoming popular day by day [2]. Advantages of e-learning are huge, but there is some prerequisite to use this facility. Basically, under developing countries, people are depriving of the facilities of e-learning because there is a shortage of proper guideline and Consciousness and also a little bit of misunderstanding. To implement e-learning system must need money, but more important things, to know the importance of e-learning for a country. Every country expends a massive amount of money for the better education of their people. However, the thing is that some are lacking because everything is changing day by day. Everything is updated day by day, in some countries so fast, some countries slowly, education system also part of these system some countries education system updated day by day, in some countries updating slowly that's why we see

a massive gap between two countries, for example, China and Bangladesh or India and Nepal or America and China. In this competition, those countries who have huge money they are improving fast like China, India but Nepal Bangladesh, this kind of country going up very slowly which is not adjustable in this modern age. E-learning is a kind of new teaching method via the internet, in China, many high school and college using the e-learning system [1]. Under developing country can use e-learning system, by this system they can use others countries resources and also can promote their education system because in this system they do not need a vast amount of money but need some networking implementation and even electricity, and multimedia system. We discuss in this paper how to establish e-learning system in under developing country to update the conventional education system.

II. RESEARCH MODEL AND HYPOTHESES

From the beginning time of the concept of e-learning to till date, many researchers researching e-learning because of the benefits of e-learning. They know the importance of e-learning, and they can imagine the result of e-learning, many people see the word of e-learning but most of them, they do not know the importance of e-learning for the better understanding and better result from e-learning we should take some step. It is not clear into many people; a teacher can use different technologies as a tool of e-learning like the computer, projector, audio/videotape, television, satellite, and internet etcetera. However, with the rising development of the internet, the concept of e-learning has been completed where learning is done through the web [5]. How to establish NERI and to fix its structure for successful implementation of the e-learning system. Many researchers talk about National e-learning development center [4]. Some of also speak e-learning system [1]. We know that in the less developed country; there is a bureaucratic complication and also a shortage of money. Therefore, we have to ensure that all kind of related work of establishment of e-learning will be complete without interruption with low cost. Here in this paper, have shown a whole structure of e-learning.

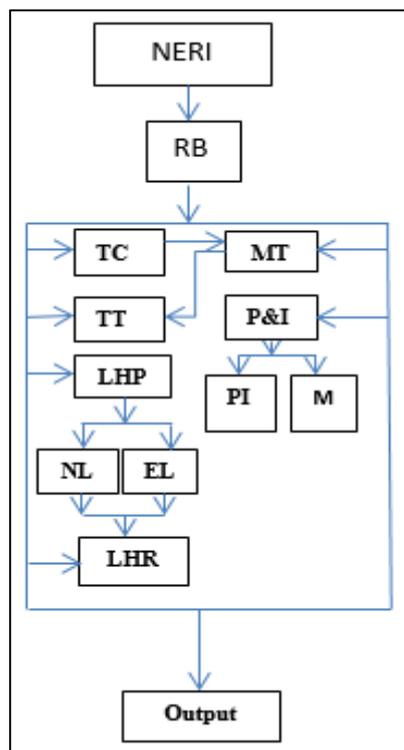


Fig. 1: The Research Model and Hypotheses (Conceptual framework)

NERI= National E-learning Research Institute.

RB=Research Board.

TC=Teacher Collect

TT=Teacher Training

LHP=Lecture and Homework Prepare

NL=National Language

EL= English Language

LHR=Lecture and Homework Review

MT=Master Trainer.

PI=Problem Identification

P&I= Planning and Implementation

M=Maintenance

National E-Learning Research Institute is an organization for development of a Countries e-learning system. It is divided into several parts, in our policy we consider, this is an autonomy organization because of, to avoid the all kind bureaucratic problem and to get quick decision. Government and Policymaker should give priority to the different issue of NERI. We have describe the all parts activity step by step.

A. Research Board (RB)

It is a most crucial part of NERI, the first task of NERI is to select the perfect person for Research Board, those people are experienced and famous in this sector, they have to give priority for RB member if it is necessary foreign consultant also can join in this board. Must be careful to select the RB member

How to be an expert in this sector. They will provide all the tips to be an expert teacher and also how to conduct class by using multimedia and how to inspire the student about e-learning. Because they will do all the activities of NERI. They will select others member for the other part of NERI as their requirement, and they will also flow the rules

for the select member for a different part of NERI. Best experience and well-known person in this field will get preference. Under of research board (RB), six central departments, and four sub-department in our system.

B. Master Trainer (MT)

Master trainer will be responsible for the train up the entire teacher, how to teach to the students ideally, and how to use e-learning and also how to conduct class by using multimedia. MT will inspire all teacher, how to make their slide for teaching students and

C. Teacher Collect (TC)

The main task of this department is to find out subject wise teacher, who has good command in his subject and who also has some basic knowledge about e-learning and

Information technology, though they will get training by the master trainer about their task. After getting the training, they will prepare a subject-wise lecture slide and homework moreover, and they will also brief to the teacher who will use this slide, like demo class.

D. Teacher Training (TT)

Teacher Training Department arranges the training of the whole teacher. Master Trainer will train up all the general teacher of their subject-wise. They will teach to the teacher how to conduct the class by using multimedia and how to use slide and how to give homework to the student online and also how to encourage to the student about e-learning and moreover, they will help the student to understand the combination of conventional education and e-learning they can learn modern education.

E. Lecture and Homework Preparing (LHP)

LHP responsible for preparing lecture and homework, under of this department there is also two sub-department, one is for National language (NL) lecture and homework preparation team and another for English language (EL), lecture and homework prepare team. Because in a country these two medium most important, there also can be another language, if they need, that they can use others style.

F. Lecture and Homework Review (LHR)

After finishing the preparing of lecture and homework, Lecture and Homework Review department will review all the lecture and homework for the better result, when their review will complete and if there is no problem, then the lecture and homework ready for field-level service after confirmation of RB, it will deliver for the student.

G. Planning & Implementation (P&I)

Planning & Implementation department is responsible for implementing all kind of infrastructure for e-learning service, and it will also plan for how to connect different educational institute with the e-learning system. Under this department, there is, also two sub-department, one is for Maintenance (M) and another for Problem Identification (PI). PI for find out the all problem-related to e-learning for example network problem, computer problem, projector problem etcetera and Maintenance will solve the problem.

III. BUDGET

National E-learning Research Institute will work for the whole country, but it is not possible to established e-learning system entire country at a time, it is time-consuming and related to money that is why we have prepared this budget to consider a specific part of a nation. We have discussed here Bangladesh, and we develop a budget to review a district of Bangladesh. In this system has many things, which will be done one time, and it will use the whole country even all over the world, for example, lecture and homework. The pilot project time duration is three years, though NEIR establishes one time for the entire country. As much as cover the area cost will reduce day by day.

IV. DISCUSSION

In the e-learning system, there are many advantages, but it also has a few disadvantages like (a) Abuse of the internet. (b)The learner has too much freedom [1]. Use of e-learning is not a big deal now a day; the fact is that to establish the system because some researcher already proved that most of the students of developing country they think that, they have necessary skills and adequate knowledge to use e-learning systems [4]. "Self-efficacy of female students also a strong indicator of their acceptance of e-learning" [7]. In the e-learning system, mainly, there are two types of user, type (a) Teacher and type (b) student both are very important for the system. It is essential to understand the policy both types, that means teacher and students because the success of e-learning depends on these two types of users. So when preparing anything related to e-learning, should remember these two types of users. We mentioned in our system for making lecture and homework in two languages because we have seen the previous experiment some researchers talk about language barrier [4][8]. In the developing and under-developing country most of the student is not good at English as like as their mother tongue; that is why we discussed this issue, every teacher should also emphasize about the language issue. In practical life, have seen some teacher they do not feel the interest to lead the class via multimedia system this is only because lack of practical training and less attention on technology so authority should take the responsibility proper training of teacher and grow up the interest about Information and Communication Technology. Generally, in a developing country, a higher education instructor is accustomed to conventional education approaches [5].

V. FUTURE WORK

In the future, the main task will be how to reduce the cost of e-learning, proper use of e-resources. By using e-learning how to develop the existing teaching process and introduce with the modern education system of under developing countries students. Many countries are growing fast in the education sector by using e-learning, for example, China. China established NERC a few years ago, and it is contributing to the education sector in a different way the full name of their organization is "National engineering research center for e-learning" [9].

VI. CONCLUSION

Have designed this system compare with different e-learning system. Have been given highest priority how to ensure to establish best effective e-learning system with low cost. The reason for this paper to get a better outcome from the e-learning system.

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