Perceptional Barriers of E-learning of Teachers and Learners in India

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ABSTRACT

Purpose: India is a fast-developing country with large population. Providing education to such a large population itself is a challenge and access to quality training for professional and personal development and education through powerful tool of e-learning has become need of the hour. e-Learning has so much of potential in India, but adoption has been slow and will need a major marketing and awareness effort. In India, globalization of education has generated sudden quantitative growth in higher education. However, to meet this sudden growth there is an acute dearth of qualified and trained teaching faculty. To implement successful e-learning environment, it is very important to identify and remove or minimise the barriers before teachers and learners. Intrinsic barriers are related to individual perceptions and these barriers are sometimes based on the personal experiences of the respondents. This study is intended to investigate the perception of barriers related to e-Learning in formal higher education in India along with analysis of prospect of e-Learning in the related areas.

Design/Methodology/Approach: This research study is a descriptive study which aims to study the existing scenario related to barriers of implementing e-learning in higher education sector in India. This study has adopted quantitative approach using primary data. The quantitative data was collected through survey questionnaire. This survey questionnaire was developed after reliability testing and validation.

Findings: This paper highlights the Intrinsic/Perceptional barriers in implementing E-learning in Higher Education in India. The biggest problem in the growth of e-Learning in Higher Education of India seems to be Intrinsic/perceptional problem. Faculty members and learners have concerns regarding lack of motivations and interest towards e-Learning. Respondents also indicated difficulty and frustration to adopt and opt for e-Learning.

Originality/Value: This research study outlines the triangulation of the results related to perception barriers perceived by faculty members, administrators and learners and highlights that these barriers are of paramount importance and their minimisation or removal is most important aspect for successful implementation of e-Learning. Therefore, policy makers should come out with some motivational mechanism to overcome such psychological barrier. A dedicated ICT department needs to be established in every educational organization. Faculty and learners are key stakeholders of any higher education institute, and e-learning cannot be successfully implemented until and unless the intrinsic barriers are removed. There is need for further systemic research to unearth the key factors associated with these intrinsic barriers and identify the solution to remove these factors.

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Introduction and Rational

India is a fast-developing country with large population and providing education to such a large population itself is a challenge and access to quality training for professional and personal development and education through powerful tool of e-learning has become the need of hour.

There are number of organizations across the globe, which provide training and impart education through e-resources. e-Learning has so much of potential in India, but adoption has been slow and will need a major marketing and awareness effort (Martin et al., 2003;Awadhiya & Miglani, 2016).

e-Learning is a largely used terminology generally denoting to web-based and online education, blended learning, distributed, networked and flexible learning, etc. It is progressively being accepted as an instrument to increase the access to high quality education and developmental opportunities and encompasses of all forms of electronically supported learning and teaching methods.(Sharma & Mishra, 2008; Pulist, S. K., 2013).

The education sector in India is no longer bound to just classrooms. Thanks to new start-ups, higher internet and smart phone penetration, the online learning space in India is growing manifold. The e-Learning market in India is estimated to be around $3 billion. The central government’s efforts to make digital learning available to students in every corner of the country are also aiding the sector (Bhattacharya & Sharma, 2007).

In recent years, the Indian government has invested a great amount of money and has put considerable efforts into providing quality education and promoting new technologies to all citizens. Several initiatives have been set up to develop the e-Infrastructures, which are deemed necessary to support and encourage distance learning. Perhaps the most significant among these e-Infrastructures, the Integrated National Knowledge Network (iNKN) endeavours to build a “technology backbone” in the country (Andronico et al.,2008).

e-Learning has so much of potential in India, but adoption has been slow and will need a major marketing and awareness effort (Aggarwal, 2009). In India, globalization of education has generated sudden quantitative growth in higher education. But to meet this sudden growth there is acute dearth of high-quality trained teaching faculty. An effective education system must provide harmonious balance between the theory and practical knowledge in order to understand the technical aspects and applications in real life. Most of the universities are having their distance learning program divisions (DLPD) and virtual classrooms. These virtual classroom and virtual institutes are growing at high speed to replace the traditional classroom learning (c-Learning) with the emerging e-Learning technology. e-Learning growth mainly depend on ICT infrastructure and internet penetration. India is now having good ICT infrastructure and internet base is also strong enough (Scott et al., 2008; Gowthaman et al., 2017).

Conventional system of learning is effective but it has its own limitation in respect to accommodation of number of learners, time and place. The education receiving population in India is growing exponentially. Therefore, there is a need for new system of learning which is not only effective but has more potential and can cater the entire population of the world. The e-Learning is the solution for the problem and the system is already operational.

Implementation of e-Learning is having many problems, in spite of that Indian e-Learning market is fast growing market. Despite the many positives for technology-enabled learning, India’s e-Learning industry is facing its share of challenges. The key challenges identified are accreditation and recognition, costs, lack of awareness and, resistance from a segment of traditionally-oriented faculty and administrators in some institutions of higher learning. Hence in brief, there are problems in implementation of e-Learning even though it has massive prospects and advantages in India to cater educational need of vast population of the country (Garai & Shadrach, 2006).

As far as higher education sector is concerned, various stakeholders include learners, faculties, administrators, academic institutions, government and non-government regulators/policymakers, society at large, etc. Researchers and experts including Kundi et al. (2010) have opined that teachers, students and education administrators are the main stakeholder of e-Learning in any educational set up.

To Implement successful e-learning environment it is very important that the barriers faced by teachers and learners are identified and addressed in such a way that they get removed or minimised (Yacob et al., 2012; Awadhiya et al., 2014; Andersson, 2008). There are various types of barriers such as extrinsic barriers and intrinsic barriers. These barriers are specific to country to country and sometimes region to region. Intrinsic barriers are related to perceptions of an individual and these barriers are sometimes based on the personal experiences of the respondents (Bingimlas,2009).Since India is very diversified country in terms of socioeconomic conditions, languages, the study is intended to investigate problems related to e-Learning in formal higher education in India along with analysis of prospect of e-Learning in the related area (Olson et al., 2011)

Methodology

This research study is a descriptive study which aims to study the existing scenario related to barriers of implementing
e-learning in higher education sector in India. This study has adopted quantitative approach using primary data. This study is a part of a major study, which was carried out to identify the:

- Technological barriers to implement E-learning in Higher Education in India
- Pedagogical barriers to implement E-learning in Higher Education in India
- Intrinsic/Perceptional barriers to implement E-learning in Higher Education in India

This paper presents the results related to Intrinsic/Perceptional barriers to implement E-learning in Higher Education in India.

The quantitative data was collected through survey questionnaire method. This survey questionnaire was developed after reliability testing and validation.

This survey questionnaire aimed to get the views and opinions of the faculty, administrators’ and learners’ Intrinsic Barriers to e-learning:
1. Lack of motivation towards e-Learning
2. e-Learning will not add value to my performance
3. Difficulty to adopt e-Learning
4. Lack of interest to use e-Learning
5. Poor previous experiences with e-Learning
6. Complication and Frustration in using e-Learning
7. e-Learning is not engaging enough

The population of this study comprised of all the learners, faculties and administrators associated with formal higher education institutes in India which have adopted e-Learning practices. Required data was collected from a total of 300 learners and 200 faculties and administrators.

Results and Discussion
Responses towards Intrinsic Barriers of E-Learning

The analysis of the data collected from 300 learners and 200 faculties and administrators from various Higher Education Institutes is presented below:

A. Lack of motivations towards e-Learning

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

<table>
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<tr>
<th>Response from learners (Chart 1A)</th>
<th>Response from faculties and administrators(Chart 1B)</th>
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<td><img src="image1.png" alt="Chart 1A" /></td>
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<th>Combined response (Chart 1C)</th>
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Mean: 3.0033 3.105 3.044
As seen from chart 1A above, that 300 learners responded to the questionnaire and among them, a total of 59 learners (19.7%) agreed, and a total of 70 learners (23.3%) strongly agreed that “Lack of motivations towards e-Learning” is one of the key problems associated with e-Learning in higher education in India. Similarly, as referred at Chart 1B above, out of 200 faculties and administrators 44 respondents (22%) agrees and 52 respondents (26%) strongly agrees that it is a key problem. Putting it together, overall, 46.4% of respondents comprising of 111 respondents (representing 22.2%) having agreed, and 121 respondents (representing 24.2%) having strongly agreed and believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.044 (as shown in table 1) is also indicative of the same.

B. e-Learning will not add value to my performance

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

As seen from chart 2A above, out of 300 learners responded to the question and majority of the learners agreed that “e-Learning will not add value to my performance” is one of the key problems associated with e-Learning in Indian education system. Similarly, as seen at Chart 2B above, out of 200 faculties and administrators 71 respondents (35.5%) agree and 56 respondents (28%) strongly agrees that it is a key problem. Putting it together, overall, 54.8% of respondents comprising of 139 respondents (representing 27.8%) having agreed, and 135 respondents (representing 27%) having strongly agreed believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.224 (as shown in table 2) indicates that learners / faculties/administrators believe that e-Learning adds no value to their performance.

C. Difficulty to adopt e-Learning

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:
As seen from chart 3A above, out of 300 learners, a total of 81 learners (27%) agreed, and a total of 96 learners (32%) strongly agreed that “Difficulty to adopt e-Learning” is one of the key problems associated with e-Learning in higher education in India. Similarly, as depicted in the table 3B above, out of 200 faculties and administrators 91 respondents (45.5%) agrees and 57 respondents (28.5%) strongly agrees that it is a key problem. Putting it together, overall, 65% of respondents comprising of 172 respondents (representing 34.4%) having agreed, and 153 respondents (representing 30.6%) having strongly agreed believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.598 (as shown in table 3) is also indicative of the same.

D. Lack of interest to use e-Learning

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

As seen from chart 4A above, out of 300 learners, majority of the learners (83.4%) agreed that “Lack of Interest to use e-Learning” is one of the key problems associated with e-Learning in higher education in India. Similarly, as shown at Chart 4B above, out of 200 faculties and administrators 98 respondents (49%) agrees and 77 respondents (38.5%) strongly agrees that it is a key problem. Putting it together, overall, 85% of respondents comprising of 232 respondents (representing 46.4%) having agreed, and 193 respondents (representing 38.6%) having strongly agreed believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 4.108 (as shown in table 4) is also indicative of the same.
E. Poor previous experiences with e-Learning

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

As seen from chart 5A above, out of 300 learners, significant number of learners (73.6%) agreed that *Poor previous experiences with e-Learning* is one of the important problems associated with e-Learning in Indian higher education scenario. Similarly, it can be seen at Chart 5B above that out of 200 faculties and administrators 82 respondents (41%) agrees and 70 respondents (35%) strongly agrees that it is a key problem.

Putting it together, overall, 74.6% of respondents comprising of 200 respondents (representing 40%) having agreed, and 173 respondents (representing 34.6%) having strongly agreed believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.856 (as shown in table 5) is also indicative of the same.

F. Complication and Frustration in using e-Learning

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

As seen from chart 6A above, out of 300 learners, significant number of learners (73.6%) agreed that *Complication and Frustration in using e-Learning* is one of the important problems associated with e-Learning in Indian higher education scenario. Similarly, it can be seen at Chart 6B above that out of 200 faculties and administrators 82 respondents (41%) agrees and 70 respondents (35%) strongly agrees that it is a key problem.

Putting it together, overall, 74.6% of respondents comprising of 200 respondents (representing 40%) having agreed, and 173 respondents (representing 34.6%) having strongly agreed believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.856 (as shown in table 5) is also indicative of the same.
As seen from chart 6A above, out of 300 learners, significant number (81.4%) learners agreed/ strongly agreed that “Complication and Frustration in using e-Learning” is one of the key problems associated with e-Learning in higher education in India. Similarly, at Chart 6B above, it is clearly depicted that out of 200 faculties and administrators 74 respondents (37%) agrees and 81 respondents (40.5%) strongly agrees that it is a key problem. Putting it together, overall, 79.8% of respondents comprising of 214 respondents (representing 42.8%) having agreed, and 186 respondents (representing 37%) having strongly agree believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 3.992 (as shown in table 6) is also indicative of the same.

G. e-Learning is not engaging enough

The responses collected from the sample respondents including learners and faculties and administrators have been exhibited in charts below:

As seen from chart 7A above, out of 300 learners, a total 53.8 % agreed/ strongly agreed that “e-Learning is not engaging enough” is one of the key problems associated with e-Learning in higher education in India. Similarly, it is seen clearly at Chart 7B that out of 200 faculties and administrators 7 respondents (3.5%) agrees and 8 respondents (4%) strongly agrees that it is a key problem. Putting it together, overall, 23.2% of respondents comprising of 54 respondents (representing 10.8%) having agreed, and 62 respondents (representing 12.4%) having strongly agree believe that this to be a key problem associated with e-Learning in higher education in India. The associated mean value of 2.426 (as shown in table 7) indicates that learners/faculties/administrators believe that e-Learning is engaging enough.

Findings and Discussion

The study revealed that the biggest impediment in successful implementation of e-Learning in India is the lack of interest in its use, and this exploration is reflected not only on overall basis including all the learners, faculties and administrator respondents, but individually also, as reflected by highest overall mean score of 4.10, mean score of 4.07 for learners, and mean score of 4.16 for faculties and administrators. Researchers have reported that “HEIs are constantly facing problems of user dissatisfaction with newly introduced systems, mismatches between a new technology and the existing work practices, underestimating the technological complexity for employees, and inefficient end-user support (see Bondarouk, 2006).” On the similar lines, it was observed by Sitlani and Jain (2020) that “as e-learning does not accommodate all kinds of teaching pedagogies, it is very difficult to integrate e-learning systems with other systems”. Further, Researchers have also reported that “teachers don’t find e-Learning environments matching with their teaching styles”. (see Mehra & Mital, 2007).

This finding was reinforced as respondents perceiving ‘using e-learning to be complicated and frustrating’ was found to be the second most critical barrier with mean scores of 4.02, 3.95 and 3.99 respectively for learners, faculties and administrators and overall basis. Researchers have concluded in course of their studies that “e-learning systems can make the users frustrated, confused and reduce their interest in learning” (see Juutinen and Saariluoma; 2006). Further, it was observed by Sitlani and Jain (2020) that learner respondents perceived that “education through e-learning mode will be a hard nut to crack as it is difficult for them
to adopt e-learning”. On the similar lines, Klamma et al. (2007) reported that “individual satisfaction is closely related with the commitment of the individual to participate and contribute.

The probable reason behind this seems to be the previous poor experience of respondents of the study as poor previous experience with e-learning has been revealed to be the third most crucial barrier in successful implementation of e-Learning in India. One of the probable reasons behind this seems lack of required skill-set by learners, faculties and other key stakeholders. In course of their study, Ahmad Al-adwan et al. (2012) observed that “instructors and students must possess specific skills to successfully use various e-Learning tools. Lack of training hampers growth of e-Learning therefore intensive training is required”. Further, as respondents have reported lack of interest in use of e-learning, one of the major concerns of HEIs shall be development of “learner-centric content” that is suitable for online learning.

**Conclusion**

The e-Learning initiatives has lead to the globalisation of academic learning and helped to overcome the barriers related to age, place, time and socio-economic status. The technological revolution has added a whole new dimension to the prospects of higher education.

The biggest problem in the growth of e-Learning in Higher Education of India happens to be Intrinsic/ perceptional problem. Learning technologies have the potential to enhance educational innovation, but the e-Learning adoption rate of faculty in universities is so far disappointing. The motivation and capability of faculty to use information and communication technologies (ICT) in teaching and learning is influenced by competence development measures and wider institutional incentives that universities offer.

The results show that, mere introduction of ICT training courses does not sufficiently motivate faculty to acquire the required competences and to engage in e-Learning. Universities have to create innovative portfolios for faculty development which extend both the scope and breadth of formal training with non-formal measures like communities of practice, peer groups and networks. Beyond these competence development measures, institutional incentives like e-Learning rewards and career opportunities for e-Learning champions increase the motivation of faculty to sustainably use learning technologies for their courses.

Incorporation of e-learning does not necessarily guarantee motivated student. Also, there is huge distance gap between pear groups leading to lack of socialisation. Therefore, it becomes important find out ways to motivate students in an online environment. It is essential for teachers to understand their students’ motivation. There is a need for interactive e-learning methods to eradicate the barriers. There is a need for orientation and self motivation of teachers and learners for effective use of e-learning. Adequate support needs to be provided for enhanced digital learning to both faculties and students. Proper training, skill enhancement workshops and hands-on trainings to increase the level of their technological and communication skills to be able to benefit significantly from the opportunities offered by e-learning. The lack of confidence and experience in using technology might be extra obstacle for other students. In e-learning process, students work independently and some students might find it difficult to understand their contents, due to the lack face-to-face contact with instructors and other fellow students. All these factors indicate that these students will not be able to participate effectively and succeed in the e-Learning process. Consequently, in order to appropriately progress and successfully use all e-learning tools to effectively access online information, some students need orientation on the necessary some specific skills. Certainly, E-Learning would increase the motivation and engagement of students for learning and help them to become self directed independent learners. Teachers also needs to develop and restructure their courses in way that they suit online requirement for which their soft skills need to be adequately trained and enhanced for mastering technical achievements and new advancements offered by e-learning.

To help instructors during the transition period will require management support together with resources and sufficient time allocation. It is evident that E-Learning success in higher education depends on effectiveness of delivery and adequate training of instructors in the adoption of E-Learning initiatives.

For successful implementation of e-learning, necessary measures to overcome the perceptional barriers are must. It can be concluded that, Student, Instructor, Infrastructure and Technology and Institutional Management dimensions are the most important dimensions to influences the usages of E-Learning systems. Thus, we recommend that institutions should provide more attention to above said barrier factors of E-Learning to ensure more successful implementation of an E-Learning system.

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Annexure 1

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Instances where selected sources appear: 1
Reviewer's Comment 1: Perception barriers are considered as the biggest problem in the growth of e-learning in higher education in India. Taking that into consideration the study outlines the triangulation of the results related to the perceived barriers by faculty members, administrators and learners.

Reviewer's Comment 2: The study is empirical in nature based on the quantitative approach based on the data collected from 300 learners and 200 faculties and administrators from various Higher Education Institutes which improves the reliability of results. The findings of the study reveal the lack of interest in use as the biggest impediment in successful implementation of e-Learning in India.

Reviewer's Comment 3: A good and significant number of literatures are reviewed by the authors as well as mentioned in the references. Overall, the paper promises to provide a strong base for the further studies in the area.

The article has 0% of plagiarism which is the accepted percentage as per the norms and standards of the journal for the publication. As per the editorial board’s observations and blind reviewers’ remarks the paper had some minor revisions which were communicated on a timely basis to the authors (Soni, Gaikwad & Sitlani) and accordingly all the corrections had been incorporated as and when directed and required to do so. The comments related to this manuscript are noticeably related to the theme “Perceptional barriers of E-learning of teachers and learners in India” both subject-wise and research-wise. Globalisation has created the need for the development of education through e-learning. Whereas, there is a dearth of qualified and trained teaching faculty to successfully implement the learning environment. To address the concerning issue the study tries to investigate technological/ pedagogical and perception barriers of e-learning of teachers and learners in formal higher education in India. Overall, the paper promises to provide a strong base for the further studies in the area. After comprehensive reviews and editorial board’s remarks the manuscript has been categorised and decided to publish under “Empirical Research Papers (ERP)” category.

The acknowledgment section is an essential part of all academic research papers. It provides appropriate recognition to all contributors for their hard work and effort taken while writing a paper. The data presented and analyzed in this paper by (Soni, Gaikwad & Sitlani) were collected first handily and wherever it has been taken the proper acknowledgment and endorsement depicts. The author is highly indebted to others who had facilitated in accomplishing the research. Last but not least endorse all reviewers and editors of GJEIS in publishing in a present issue.

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