INVESTIGATING INHIBITING FACTORS AFFECTING MOOCS ADOPTION AMONG TEACHERS IN HIGHER EDUCATION INSTITUTIONS OF INDIA

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Abstract
Massive Open Online Courses (MOOCs) has the potential to eradicate the digital divide and endorse education globally among the learners in the education industry. Through MOOCs platforms, teachers can upgrade their knowledge skills and abilities in their respective fields. The present study aims to identify the inhibiting factors underlying the adoption of MOOCs by teachers employed in higher education institutions. The research has employed an Interpretative Phenomenological Analysis of qualitative research methodology. In this research, teachers from the identified Universities of Uttarakhand, India are selected as the respondent to investigate the factors affecting the adoption of MOOCs. Findings reveal that technological barriers, financial barriers, and lack of awareness act as inhibiting factors in adopting MOOCs by teachers of HEI. This study also contributes to the literature by assessing the factors influencing teachers’ intention to adopt Massive Open Online Courses for learning. Through this paper, the three stakeholders of MOOCs, that is teachers, HEI and MOOC provider are suggested measures that will enhance the support and acceptability of the online courses.

Keywords: Massive Open Online Courses (MOOCs), Teachers, Universities, Technology adoption.

DOI: https://doi.org/10.24818/beman/2021.11.2-06

1. INTRODUCTION
Massive Open Online Course (MOOCs) is an emerging source of e-learning for anyone from anywhere. MOOCs are offered by renowned universities and educational institutions across the globe through
In this study, the authors aim to identify the inhibiting factors that affect the adoption of MOOCs among teachers in higher education institutions of India. The adoption of MOOCs has been beneficial in providing opportunities to learn from the leading universities around the world. These platforms have been instrumental in up-skiing the knowledge repository of learners and have been successful in beneficially impacting the learning process. The adoption of MOOCs by teachers is critical in today's fast-paced educational environment. The continuous need for innovation and extensive use of technologies in higher education institutes make continuous learning imperative for teachers. MOOCs provide flexibility of learning to teachers and offer additional knowledge from their busy work schedules. Despite the multiple benefits of MOOCs, the number of enrolled teachers for learning from MOOCs is relatively low. The present study intends to identify the inhibiting factors underlying the adoption of MOOCs by teachers in the higher education institutions of India. Teachers are selected from the Universities of Uttarakhand, India. Education is the pivot of development and growth, and the paper will rest a positive
implication on all the major stakeholders of higher education that is: teachers, institutions, and MOOC providers.

2. LITERATURE REVIEW

MOOCs provide opportunities to learn from the world's leading universities through online platforms. MOOCs is popular for several reasons such as easy accessibility through the internet (Sanchez-Gordon and Luján-Mora, 2014), variety of choices for learners (Means et al., 2009), cost-efficient for learners (Mohapatra and Mohanty, 2016) and quality learning materials (Barclay & Logan, 2013). Prior research have studied learner's perspective on MOOCs by using the technology-user-environment perspective, innovation resistance, task-technology fit; social cognitive theory; the unified theory of acceptance and use of technology (Tseng, et al., 2019); theory of planned behaviour, social support theory; regulatory focus theory; self-determination theory, network externalities; technology acceptance Model; SDT and theory of relationship quality and the expectation confirmation paradigm. However, majorities of these models have been applied to understand the student's intentions to adopt MOOCs. Gupta (2019) and few researchers have focussed on teacher's perspectives and their adoption (Raza et al., 2020; Nagasampige et al., 2018; Koutsodimou, and Jimoyiannis, 2015). Table 1 shows the studies conducted on a different type of learner's intention to adopts MOOCs

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<tr>
<th>Learner Categories</th>
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<td>Teachers</td>
<td>Raza et al., (2020); Nagasampige et al., (2018); Koutsodimou, and Jimoyiannis, (2015)</td>
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3. RESEARCH METHODOLOGY

Interpretative phenomenological analysis (IPA) of qualitative research methodology is employed in this research. IPA aims to explore and understand in detail about the person's experience of a particular phenomenon. Smith (1996) precisely stated that IPA is deployed in situations where the sample size understudy is small, and they are required to be analyzed at greater lengths. Many authors have used IPA.
in recent research studies (Gupta and Bhaskar, 2020; Joshi et al., 2020) This study has done an in-depth analysis by using semi-structured interviews with teachers of the private Universities situated in Uttarakhand, India. Few of the questions that are asked include

- Have you heard about MOOCs? What do you know about it?
- Have you acquired any certificate from MOOCs? Why or why not?
- What reasons will you enumerate for not acquiring a certificate from MOOCs?
- Do you have any institutional policy to do MOOCs?
- Are you interested to pursue MOOCs? Why or why not?

In this research, teachers have been selected as the respondent to understand the inhibiting factors in adopting MOOCs. In totality, the sample profile includes 11 teachers who participated in this study, as per Smith and Osborn, (2003) the IPA study sample size can range from 1 to 15. The sample of the study comprises of 6 males and 5 females belonging to the age group 23 to 55 years with a minimum of 3 years of teaching experience. 7 participants were post-graduates and 4 were having a PhD degree. The average time duration of the interview was 50 minutes and the overall timing of the interviews fluctuated between 30 to 115 minutes.

4. RESULTS

The findings have been grouped under two larger units known as “meaning units” or “themes,” Themes revealed that the inhibiting factors to adopt MOOCs among the teachers of Higher education institutions are technological barriers, financial barriers, and lack of awareness.

Theme-1: Lack of awareness

Lack of awareness is one of the prominent factors that is identified as a barrier by most of teachers. They were not familiar with the MOOCs and the various platforms that offer online courses. Teachers also faced difficulty in understanding the functionality of MOOCs platforms which resulted in a negative attitude towards MOOCs.

“I have heard about MOOCs, but not sure how it functions like enrolling process, online fees payment, mode of examination, etc. “ (Respondent-1)

“I want to enrol in MOOCs, but I face difficulty in selecting the platform for learning courses. Same course is offered by Course Era, EdX, NPTEL, etc. I can’t find any differences among them” (Respondent-5)
Theme- 2: Technological barriers
Teachers were not well versed in the online learning process. They face many technical difficulties related to hardware, software, uninterrupted power supply, and internet connectivity which demotivates them to enrol for MOOCs. Many teachers do not have an upgraded laptop or software to run the online courses. Many online courses require good internet connectivity to play pre-recorded videos and completing the live online assessment.

“I wish to do online courses, but I do not have a good internet network connection at home. It keeps on getting disconnected due to uninterrupted power supply” (Respondent-3)

Theme- 3: Time constraints
Teachers were not inclined towards MOOCs due to time constraints as they have to devote additional timeslot from their daily routine. They feel burdened with existing job duties and responsibilities; it becomes difficult for them to give extra time to learn from MOOCs. Some courses even need to be finished within the stipulated time, it becomes difficult to adhere to the timeline while managing their personal and professional life.

“I wish to do online courses, but I don’t have time to devote on a daily basis. I have so many tasks already lying on my desk, which need to be completed at the earliest to meet the deadlines of my universities” (Respondent-3)

5. DISCUSSION AND CONCLUSION
Teachers are not aware of online platforms, types of programs, and different courses that are offered under MOOCs. Even though the conventional courses and institutions offering the courses are well recognized, still MOOCs is not well recognized, and teachers are not aware of their existence and benefits. The only medium through which teachers are aware of MOOCs is through the internet, that too when they show a little interest and take initiative. The awareness about MOOCs and its benefit is restricted to experienced teachers who are involved in research and development. (Nagasampige, et al., 2018; Castano-Munoz et al., 2018; Malita et al., 2018). MOOCs need consistent technological infrastructure and high-speed internet connection without which it becomes difficult for the teachers to complete the course. In developing countries, internet connectivity is a major problem that demotivates teachers to adopt online courses (Vinay & Bhaskar, 2020; Joshi et al., 2020; Kizilcec & Halawa, 2015; Bhaskar et al., 2020). Teachers felt encumbered due to existing job commitments, consecrate time to complete courses MOOCs will disturb their work-life balance. MOOCs require teachers must devote significant amounts of time and money (Tseng et al., 2019; Chaudhary and Bhaskar, 2016). Teachers need to keep up with the rapid pace
of change in the educational innovations and technologies for learning; MOOCs give flexibility and convenience to teachers to learn additional from their busy work schedules with the added advantage of the availability of free content and resources. Teachers are responsible for continually renewing and developing their knowledge and skills.

MOOCs have emerged as a significant COMPONENT for teachers over the years. It is imperative to understand which factors influence the teachers to enrol in MOOCs. The study holds relevance to various stakeholders. Higher education institutions will be able to recognize inhibitors and can take corrective measures for promoting MOOCs among teachers. Secondly, MOOCs providers will be able to focus on developing self-paced courses in cutting edge areas at affordable prices to motivate teachers for enrolling in MOOCs for personal and professional development. Thirdly, teachers will be able to identify the utility and device measures to overcome those inhibiting factors and can focus on the motivators for enrolling in MOOCs for career growth and development. The higher education institute may provide financial and technical support to the teachers to enhance their skills through MOOCs. Providing time and including MOOCs certification as one of the parameters of appraisals will motivate the teachers to adopt MOOCs.

6. LIMITATIONS

The current study is not aloof with limitations. The future study can create a strategy and confirm the conclusion with the triangulation method. The study is based in India, the results may vary if conducted in other parts of the world. The study can be conducted with a different set of participants to have detailed awareness about the inhibitors of MOOCs for teachers of HEI.

REFERENCES


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