Chapter 2
Review of Related Literature

2.1 Introduction

A review of related literature identifies, evaluates and synthesises the relevant literature within a particular field of research. It illuminates how knowledge has evolved within the field; highlighting what has already been done; what is generally accepted; what is emerging and what is the current state of thinking on the topic. It is an overview of the previously published works on a specific topic. A literature review serves to situate the current study within the body of the relevant literature and to provide context for the reader.

In this chapter, an attempt has been made to review related researches to understand and analyse the efforts that have so far been made to implement e-learning idea.

2.2 Reviews of Related Literatures

(Gaur, 2018) has made a study on Research Trends in E-Learning. According to her, E-learning is playing very important role in the present educational scenario. It has potential to change the whole education system and due to this very reason, it has become one of the most preferred subjects for the researchers. Research works on e-learning are going on in various disciplines like Mass Communication, Education, Information Technology (IT) and Distance Education. Scholars are working on the various aspects of e-learning. This study analyzed the various research works on e-learning to find out the research trends in this field.

(Abdelsalam M. Maatuk, 2021) have conducted a study on The COVID-19 pandemic and E-learning: challenges and opportunities from the perspective of learners and instructors. The study has emphasized on four dimensions to achieve the expected results as follows: The extent of using E-learning in the Faculty of IT; Advantages of E-learning; Disadvantages of E-learning; & Obstacles to implementing E-learning. They determined that "Learning and teaching in an electronic environment still provide many advantages, including, reducing expenses. It was also a successful alternative for many learners to return to study in educational institutions during the spread of the Covid-19 virus, despite facing many issues and challenges. By analyzing the results, they have achieved encouraging results to highlight some of the issues, challenges and benefits of using the e-learning system in the higher education sector."

(Aboagye, 2020) presented a study on COVID-19 and E-learning: the challenges of Learners in tertiary institutions in Ghana, that aims to examine learners' challenges about how to deal with e-learning in the outbreak of COVID-19 and to examine whether learners are prepared to study online. The study concluded that a blended approach that combines traditional and e-teaching must be available for learners.

Another study that aims to explore the e-learning process among learners who are familiar with web-based technology to advance their self-study skills is described in (Radha, 2020). The study results show that e-learning has become popular among learners in all educational institutions in the period of lockdown due to the COVID-19 pandemic.

A study that aims to investigate the characteristics, benefits, drawbacks and features that impact E-learning has been presented in (Ms, 2013). Some of the demographic features such as behaviours and cultural background impact student education in the E-learning domain. Therefore, for lecturers to design educational activities to make learning more effective, they should understand these features. The study is applied to learners in Lebanon and England to assist instructors to understand what scholars expect from the learning management systems.

(Aljawarneh S. M., 2010) presented the comparison between different E-learning tools in terms of their goals, benefits and drawback. The comparison assists in providing when to use each tool. The outcomes show that instructors and learners prefer to use MOODLE over Blackboard in the e-learning environment. One of the major challenges that face the E-learning environment is security issues since security is not combined into the active learning development process.

(Meghna Bhatia, 2018) conducted a study on E-learning Platforms Security Issues and Vulnerability Analysis. The major contribution of this paper is to inform the educational community about the prevailing vulnerabilities and the probable risks and flaws with the significant results, and offer a valuable contribution to the developing communities of the above platforms by recommending a significant security model. This security model can be easily adapted to the needs of every different e-learning platform or even web platforms in over-all since this is an almost non-existing topic in the current scientific literature.

The work described in (Goyal, 2012) has tried to emphasize the importance of e-learning in modern teaching and illustrates its advantages and disadvantages. Also, the comparison with Instructor Led Training (ILT) and the probability of applying E-learning instead of old classroom teaching was discussed. In addition, the study showed the

major drawbacks of ILT in institutions and how using E-learning can assist in overcoming these problems.

(Nicholas Kipkurui Kiget, 2014) opined on Evaluating Usability of E-Learning Systems in Universities in September 2014. The aim of this study was to evaluate usability attributes that affect e-learning systems in Kenyan universities. The study had two fold objectives; determining status of e-learning platforms and evaluating usability issues affecting e-learning adoption in Kenyan universities. The research took a case study of one of the public universities, which has implemented MOODLE e-learning system. The usability attributes evaluated were user-friendliness, learning ability, technological infrastructure and policy. The research made recommendations, which could help universities accelerate the adoption of e-learning systems.

(Samir, 2014) illustrated various predictions of e-learning for educational purposes. The study aims to show how to keep learners motivated in e-learning. The evaluation of student motivations for online learning can be challenging because of the lack of face-to-face contact between learners and teachers. The study shows that one way to increase student's motivation is by allowing them to complete an online assessment form on motivation.

Many users of e-learning platforms see that online learning helps ensure that e-learning can be easily managed, and the learner can easily access the teachers and teaching materials (Gautam, 2020); (Mukhtar, 2020). It also helped to reduce the effort and travel expenses and other expenses that accompany traditional learning. E-learning reduced significantly the administrative effort, preparation and lectures recording, attendance, and leaving classes. Teachers, as well as students, see that online learning methods encouraged pursuing lessons from anywhere and in difficult circumstances that prevent them from reaching universities and schools. The student becomes a self-directed learner and learns simultaneously and asynchronously at any time. However, there are many drawbacks of e-learning, the most important of which is getting knowledge only on a theoretical basis and when it comes to using everything that learners have learned without applied practical skills. The face-to-face learning experience is missing, which may interest many learners and educators. Other problems are related to the online assessments, which may be limited to objective questions. Issues related to the security of online learning programs and user reliability are among the challenges of e-learning in addition to other difficulties that are always related to the misuse of technology.

Web-based education, digital learning, interactive learning, computer-assisted teaching and internet-based learning are known as E-learning (Aljawarneh S. A., 2020); (Lara, 2020); (Yengin, 2011). It is mainly a web-based education system that provides learners with information or expertise utilizing technology. The use of web-based technology for educational purposes has increased rapidly due to a drastic reduction in the cost of implementing these technologies. Nowadays, many universities have recognized the importance of E-learning as a core element of their learning system. Therefore, further research has been conducted to understand the difficulties, advantages, and challenges of e-learning in higher education. These issues have the potential to adversely affect instructors' quality in the delivery of educational material (Yengin, 2011).

2.3 Conclusion

It is necessary to focus on the impact and extent of teacher acceptance of e-learning. The age difference between the teachers and the learners indicates that the teachers received most of their studies and teaching skills through traditional teaching and learning methods, which may make their acceptance of e-learning different from the student's acceptance of modern methods of e-learning and education in general. The Review of Related Literature has given an idea about this study.