

Chapter 17

Rethinking Distance Education in the Era of Industry 5.0 and Its Integration With Social and Emotional Learning

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ABSTRACT

The present study aims to understand the concept of Industry 5.0 in the higher education sector and its role in transforming distance education in India. An exploratory research design is used to understand and outline the concept of Education 5.0 and its associated benefits for higher education institutions (HEIs). An extensive literature review was carried out to collect the data from the available research papers, reports, and articles in the field of Industry 5.0 and HEIs. The data were then analyzed to explore the avenues of Industry 5.0 implementation in the distance education sector in India. The findings of this study suggest that the incorporation of advanced technology in the traditional distance learning model is urgently required which will enable the HEIs to develop a blended or hybrid learning model. The study also outlines the key features and concerns that every distance education institution may have about Industry 5.0. In addition, the benefits of Industry 5.0 in distance education in India are also discussed in this study.

INTRODUCTION

Education styles are the basis of all human behaviors in a society. Education is an engine that broadens the perspective of our wisdom with other constraints like emotional, social, and economic prevailing in the surroundings. The behavior of any society depends upon their literacy level. A society that is deprived

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of education falls into unethical behavior, they cannot just analyze what is right and what is incorrect. Society education is very important as they not only secure their lives with correct decisions but also deal logically, practically, and cordially with the norms, policies, regulations, and beliefs framed by the government or higher authorities for a better living (University of Technology, 2021).

Despite a long and successful history, distance learning became much more widespread with the outbreak of COVID-19 and the educational institutions' closure (Lumin, 2021). Venter (2010) found that online students from Asian Pacific countries tend to experience isolation during distance learning as isolation from teachers, while European learners tend to experience isolation relative to their peer relationships.

The remote learning market by revenue is expected to grow at a CAGR of 12.62% during the period 2022-2026. The rising adoption of digitalization is surging the growth of the remote learning market across the globe (Research and Markets, 2021). Distance learning programs at the higher-education level are likely to see an overhaul in the next 12-15 months. This will involve the development of quality standards and also a set framework on what modules of a curriculum could be offered on distance-learning platforms. In recent decades, colleges and universities in several countries have increasingly incorporated distance education into their education programs and offered online education experiences to students. Distance education can be offered in two main formats: synchronous or asynchronous courses. Asynchronous Distance Education (ADE), such as recorded learning videos, comprises the common formats of the majority of electronic learning instruments, such as Moodle. Synchronous Distance Education (SDE), in turn, involves the stimulation of the communication models of traditional education to a certain extent by synchronizing teaching and learning, as in live web conferences and virtual classrooms (He et al., 2020). The use of SDE has gained increasing attention in recent years, especially in business management programs. Education 5.0 is relatively new and not much research has been done to establish how it intends to deliver its objectives. Also, social-emotional education will allow distance online education to compete with traditional schooling environments and mitigate educational opportunity disparities through improved online experiences. Concerning the rise of technology in other sectors including education, this study aims to explore the applications and relevance of Industry 5.0 in distance education and investigate its benefits for students and teachers. Hence, the objective of the study is to investigate the applications of Industry 5.0 in the education sector and its benefits for the distance education program in India.

To understand and outline the benefits of Education 5.0, an exploratory research design was used. This study includes analyzing the existing research papers, articles, and reports, to explore the avenues of industry 5.0 implementation in distance education. An extensive literature review was carried out by identifying and selecting research papers from Scopus, google scholar, and other databases.

The rest of the paper is structured as follows: The next section discusses distance education in India and the concept of Industry 5.0. Discussion about Education 5.0 and the integration of Social and Emotional Learning is presented in the following section. The role of artificial intelligence and virtual learning management system in higher education and the conclusion is presented in the fourth and fifth section, respectively.

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