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TOWARDS INDUSTRY 5.0 – TERTIARY EDUCATION STUDENTS' PERCEPTION ON THE DIGITALIZED OPERATIONS ECOLOGY OF COMPETENCY BUILDING DIDACTICS

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Abstract

We live in a world of complexities. The magnitude of these complexities is increasing day by day and shall gain momentum even further in the near future when we all are set to experience yet another industrial revolution, Industry 5.0. Here human creativity shall astoundingly converge with intelligent machines to provide user-friendly resource-efficient solutions more accurately. The shift here is paradigm in nature as it requires human beings to be value-driven and is understood to achieve the industrial goal of production along with the attainment of societal objectives such as the harmony of the planet with its living beings and resources. But the knowledge and skill sets that we possess today are fast becoming obsolete. A constant skill shift is experienced in all sectors of employment. The curriculum of yesteryears primarily imparted through conventional classroom education cannot meet these growing demands where the Industry 5.0 key attributes such as the type of job creation, skill sets required and technological advancements are becoming overly progressive for an average human being to comprehend easily. The digital revolution, to a considerable extent, can pave the way for attainment of the time bound goals and further beyond this period by developing these competencies in the students undergoing college/ university education. The paper examines how all these key competencies (such as Intellectual, motivational, emotional and social with a number of related subsets in each of these areas) are perceived to have been built up from the data received from 198 students of different courses (mostly from eastern part of India) to gauge Industry 5.0 readiness. Primary data is subjected to a series of single normal distribution tests, and then committed to principal components extraction and exploratory factor loadings to arrive at an understanding of the perceived priorities of students undergoing such training. The results are summarized in harmony with the initial research framework and the conclusions drawn.

Keywords: Key competencies, Industry 5.0, digitalization, tertiary education, sustainability

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