

ONTOLOGY DRIVEN E-LEARNING

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Abstract

Today learning is open to everyone and teaching is not restricted to any vertical sources such as schools and colleges. The educational view points are to ensure that the learner has acquired knowledge through any means to ensure required levels of competencies.

This research project argues that learning can be made more effective when it is learner-centered. A learner may have acquired some knowledge without developing any analytical skills, effort to commit to learning or the ability to maintain a continuous process of learning. More seriously, the learner may not have developed adequate interest about a subject though it appears as if the learner has learned. From the educational perspective these are crucial issues that need to be addressed. As such measuring the development of mental attributes associated to a learning process is of great importance.

Many learners on further education do not always possess the pre-requisite skills to cope with the challenge of the learning environment. This is because the environment where they are expected to study does not support the learner adequately. Ultimately, the success or failure at courses can be determined by their ability to adapt to most appropriate strategy within a particular learning situation. There have being many research done on learner centered education. This novel research is focusing on developing mental attributes of a learner. The mental attribute are of qualitative and quantitative in nature. In order to compute the mental attributes of a learner, there is a need to standardize the evaluation processes. It further researched into philosophical approaches used in learning. Buddhist philosophy describes that managing mental attributes based on Iddipada is an effective way to learning. The Iddhipada concept is categorized into four namely Chandra. Varian, Cite and Viands. A designed a questionnaire based testing model to identify the learners' mental attributes is used to quantify these attributes. This method was evaluated successfully. Therefore it is proposed that this evaluation method to be used in e- Learning systems. In conclusion this evaluation method can be improved to be used in any e-Learning system and will effectively manage mental attributes of a learner.