Transformation of Knowledge in Teaching Learning Environment Adoption of Innovative Methodology in Teaching Software Engineering

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ABSTRACT

Teaching is a noble profession which requires special skills for the transformation of knowledge from teaching domain to the learning domain. This profession requires deep knowledge, dedication in teaching, encouragement, and control over the activities of the learning domain, providing the knowledge to the learning domain, teaching the discipline, behavior and smart skills as out of box teaching subjects. The teacher has to continuously upgrade himself in discharging the knowledge because whatever he has learned in his learning domain might be outdated. The Knowledge is always updating and it is the responsibility of all the teachers to update their knowledge so that they can effectively transform the same to the learning domain. The knowledge transformation in technical subject needs a rather different methodology than the traditional classroom based teaching. The subject like Software Engineering needs a different method of teaching than the traditional classroom based teaching. In this subject the learning domain should be active in looking into the various aspects of the software development. In this subject, the traditional classroom based teaching does not transform the knowledge to the learning domain because the learning domain cannot follow the subject since the domain does not have any idea about the subject. This paper explains the need for active teaching in software engineering where in the learning domain has to be active than the teaching domain. The teaching domain has to concentrate on various concepts which are supposed to be given to the learning domain and guide the learning domain how to get the knowledge, effective use of the available technology and its adoption at the right place. The objective of this paper is how to convert the learning domain into smart learning domain. This paper strongly recommends the case study based teaching and learning practice than the traditional unidirectional classroom teaching.

Keywords: Teaching domain, Learning domain, Smart learners, Methodology, Knowledge transformation.