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KEY COMPETENCIES REQUIRED FOR STUDENTS IN PROBLEM SOLVING - A REVIEW AND A MODEL PROPOSED

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ABSTRACT

Problem Solving Skills enables the scholars to face and resolve problems in their daily lives especially it is essential in the education sector. These skills when mastered will be a catalyst for them to achieve their desired goal. Most of today's Education Institutes use educational data mining and data analytics to predict / improve the students' performance level in problem solving. This research paper focuses on devising mechanisms to empower and enrich the scholars especially in the Information Technology [IT] Industry. This paper highlights three major facets. First facet is to find the significance of problem solving ability, secondly list various key competences required for solving a problem and an approach / method to be followed in solving a problem. This study helps the scholar to identify the vital problem solving skills which IT / IT enabled industry expects to have a better placement.

1. INTRODUCTION

Problem Solving Skill (henceforth PSS) is an essential skill (A.F.ElGamal,2013) that is mandatory for scholars in every industry. This skill is required not only for their professional life but can be extended to their real lives as well. PSS is the sequential process of understanding and analyzing information related to a given situation (problem) and solving it systematically to produce appropriate results. This includes phases like Identifying, Analyzing, Generating, Selecting and Evaluating. This helps in making quality decisions and provides an optimal solution for any given problem.

PSS is unquestionably one of the most important skills required in the computer world which helps to design a framework for devising quality solutions. So, Educators should help the scholars in solving problems by combining creative thinking (new ideas) and critical thinking (to analyze and validate ideas).

To perform this Educational data mining and Learning analytics (A.F.ElGamal,2013) helps in predicting the students problem solving level and help them to improve it in Problem Based Learning Environment with sufficient contents and exercises to nurture this skills which helps them to face this competitive world.

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