



Chemical Education

**Novel Pedagogical methods for Effective Learning of Chemistry
in Engineering Education**

P. Padmavathi* and K. Madhavi

Department of Humanities and Sciences, VNR Vignana Jyothi Institute of Engineering and Technology,
Hyderabad, **INDIA**

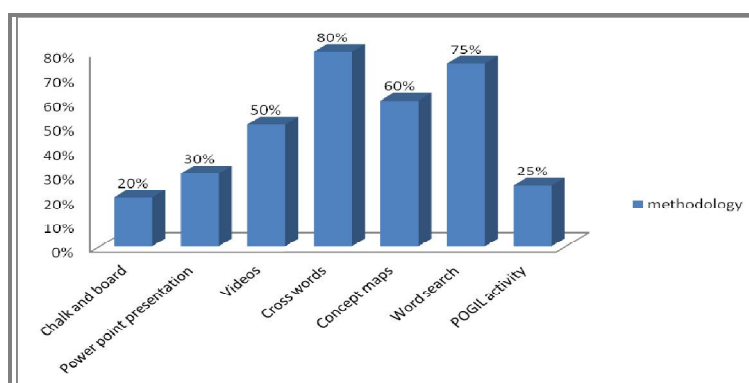
Email: padmavthi_p@vnrvjiet.in

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ABSTRACT

Chemistry is considered as a central science as it connects to all other sciences like physics, biology, geology etc. Basic knowledge of chemistry helps even a common man to understand how things around us are made and react. Hence learning chemistry is essential for a science student to explore their core domain more effectively. Chemistry is a mystery to a majority of the students as it involves equations and formulas which demand more attention and memory from the student. Students especially engineering students give more priority to their core subjects and the faculty dealing the subject experience tough time to get their interest towards chemistry. Hence there is a need to develop new teaching and learning strategies to improve the learning process by the students. With the help of active learning techniques which brings involvement of each and every student made it easy to unravel the mystery of chemistry and make the study simple. Activities like crossword puzzle, word search, match the following, concept maps have been designed on various threshold topics in Engineering Chemistry subject and implemented. The response from students is enormous.

Graphical Abstract



Percentage of students in favor of various activities.

Keywords: Learning Chemistry, effective teaching, students, activities, Involvement, Improvement.