

Executive Summary of Minor Research Project entitled ‘Effectiveness of Flipped Classroom on the learning of Concepts of Physics at Senior Secondary level’

The present research study entitled “Effectiveness of Flipped Classroom on the learning of Concepts of Physics at Senior Secondary level” was conducted with the objective to find the effect of Flipped Classroom on the learning of Physics at Senior Secondary level. The sample of the study comprised the students of Demonstration Multipurpose School, Regional Institute of Education, Ajmer of class XI of CBSE. The total number of students was 21. The research was based on experimental method including control group and experimental group. Two chapters (Motion in a plane and Laws of motion) from NCERT Physics textbook of Class XI were chosen for the Flipped classroom strategy. Online resources were identified on these chapters. The assessment of the groups were carried out through the pre-test and post-test. Comprehensive analysis of Students’ performance in pre and post-test indicated that the flipped classroom had positive effect on students’ understanding of concepts of physics (Fig.1). Non-availability of internet access to many students at home was however an issue which needs further attention.

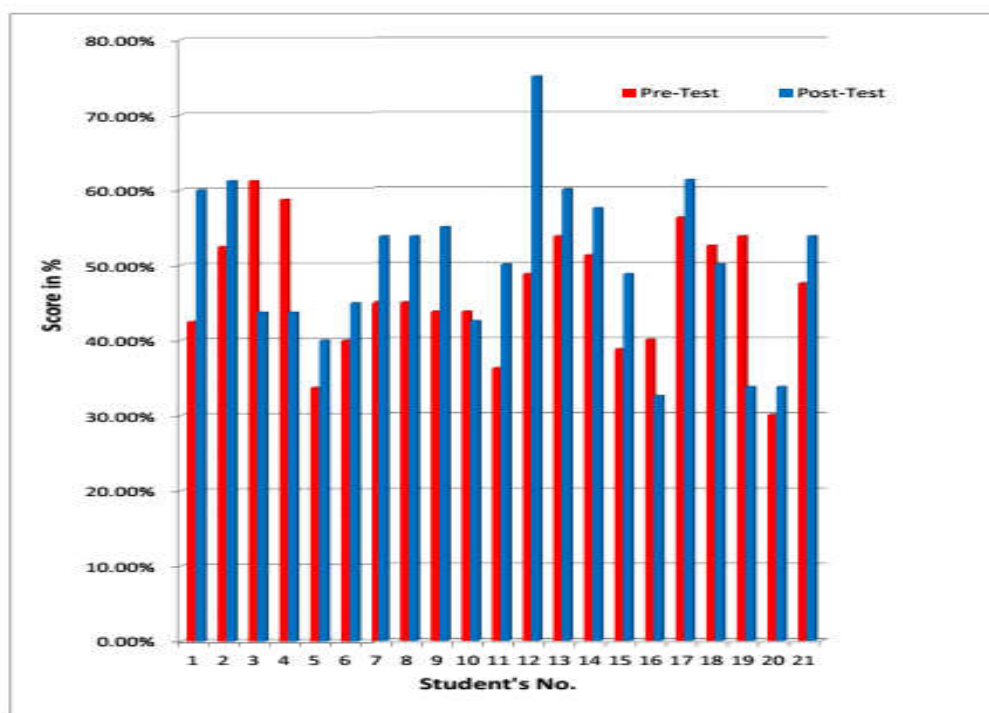


Fig. 1: Student wise score in Pre-test and Post-test

Findings of the study indicate that flipped classroom may be a good strategy for augmented learning. Dr. V. P. Arya was the Principal Investigator and Prof. S.V. Sharma was the Co- PI of the project. The report of the project was submitted in March 2019. Investigators are thankful to National Council of Educational Research and Training, New Delhi for the financial support.