

## A STUDY OF SCIENTIFIC ATTITUDE, TEACHING EFFECTIVENESS AND PHYSICS ACHIEVEMENT AMONG PHYSICS SENIOR SECONDARY STUDENTS

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### **ABSTRACT**

*The global documented aim of secondary science teaching is to develop and augment rationality, objectivity, open-mindedness, curiosity, scientific temperament, etc. The development of such qualities helps in the development of a major quality as scientific attitudes (SAs). And a teacher plays vital roles in not only cognitive but non-cognitive developments among the students as well. The present work was aimed at finding the impact of teaching effectiveness (TE) and SAs over physics achievement (PA) of senior secondary students. The study utilized 309 senior secondary students in Shahjahanpur district of Uttar Pradesh, India. The results show good significant correlations among TE & SA and TE & PA, but a weak correlation between SA & PA. And no gendered responses were reported among students SAs and experienced physics TE. While the multiple stepwise regression analysis does not establish SAs as a predictive variable of PA and only TE was found to have 18.3% of the total variance in students' PA scores.*

**KEYWORDS:** *Scientific Attitude, Teaching Effectiveness, Physics Achievement*