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## **A Study on Smart Classes Education**

### Mahendra Parmar<sup>1</sup>

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In today's scenario, every individual country is thinking about intensifying the quality of education system. Globalization has caused advancement in technology and digitalization, however education is still out of reach from this digitalization movement. As it be known fact that traditional method of learning has lost its effectiveness which increase the responsibility of the education system to introduce smart education system for gaining student interest and increasing their academic growth. Smart classes is a concept introduced by David many year back but helped the student in making learning more effective and interesting. "Change is the law of nature", so traditional method of teaching is also changed with new technology of teaching system. In this paper a study has been done on the effectiveness of smart classes in education system and how it help students in improving their reading skills and academic achievement.

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1. All India Institute of Public & Physical Health Sciences, Delhi, INDIA



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#### Introduction

Earlier, education was solely traditional, old methods were used for teaching purposes but in today, education system has been modified day by day and maximising the learning capabilities of student. Don Knezek, (CEO of the International society for technology) stated that education without technology is just like medicine without tools. Therefore, advancement in education system is very necessary for improving student learning capabilities. Currently, numerous types of technologies are used, few of them are listed below:

- Computerized classrooms
- Blogs and Wikipedia
- Wireless Classroom Microphones
- Mobile Devices
- Interactive Whiteboards
- Digital Video-On-Demand
- Online Media
- Online Study Tools
- Digital Games (Goswami, 2014)

Smart classrooms are basically electronically enhanced lecture theatres and classrooms originated back in 1987, David and Nancy founded SMART. In India EDUCOM was launched in 2004. Basically smart class is technological concept but helpful for contextual awareness, classroom layout and management. SMART stands for Showing, Manageable, Accessible, Real-time Interactive and Testing.

The objective of smart classes is to support different kind of formal learning, non-formal learning and informal learning activities. Smart class basically includes an interactive whiteboard, DVD's, PPT's and an instructor. These smart classes has not only changed the interest level of student but also enhanced their academic performances. Easy understanding, enjoyable learning, effective communication, improves academic performance, enhanced learning experience are major 5 reasons why smart classes are an essential part of our education system. EduComp, SMART, RTIVC and DIGIclass are few of the renowned merchants in market, who are provided basic setup to the school (Liu, et al. 2017; Chaudhary et al., 2014; http://www.ssbinternationalschool.in).

Basic principles which are supposed to be considered to transform any formal learning space into a smart classroom are entitled below. These are based on pedagogical configuration:

- Flexibility of physical arrangement
- Adaptability
- Comfort
- Multiplicity
- Connectivity
- Personalization
- Order/Organization
- Openness
- Safety/Security (Das, 2016)

#### **Benefits from Smart Class**

- Enhance teacher's efficiency and productivity.
- Complex concepts can be explained in an easy way.
- Makes learning an interesting task.
- Enables teachers ability to evaluate the learning achieved by their students (Jena, 2013).



Figure 1: Smart Classroom

#### **Review of Literature**

Marcellus and Ghrayeb (2002), studied the effects of smart classrooms from students' point of view. According to the student's point of view, the blackboard teaching is helpful in problem solving whereas smart classroom is helpful in learning the basic facts and information. In their study, they concluded that the combination of blackboard and smart classroom technology should be used.

**Jena** (2013), conducted an experimental study in Jalandhar, district of Punjab. In his study, 60

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secondary school students from Royal Convent School were selected by using simple random sampling technique. After the thorough study, he concluded that smart class learning environment is better than traditional class.

Chaudhary et al. (2014), discussed about much growing technology smart class and e-learning which was generated back in 1980s. Smart class and e-learning helps the students in learning and improving their academic performance. This new technology must be encouraged in the current education system.

Ashfaque et al. (2014), discussed the modern trends i.e. smart classes and e-learning in education system, these new technologies encouraged the education system and make the learning different and interesting.

Menon (2015), studied about the effectiveness of smart classroom in understanding chemistry of secondary school students. They also concluded that interaction of gender and teaching method do not significantly affect the academic achievement in chemistry of secondary school students. Smart class was way more effective than anciently followed methods.

**Bano** (2016), for analysis, she took 30 first grade students from Govt. High school Bakshipora and conducted the experiment on the basis of pre-test and post-test. After her study, she concluded that the smart classroom learning positively helped the students in scoring better in comparison to the traditional teaching methods.

**Takawale and Kulkarni (2016),** focused the effectiveness of smart classroom over traditional classroom. For this study, two groups of students were managed and 20 students in each group. One group was taught through traditional method

whereas another group was taught through smart board. After their study they concluded that there is significant difference between two groups in terms of academic achievement still they cannot conclude that smart class teaching is the best method of teaching and there can be some limitation on the execution and maintenance of Smart classrooms.

**Bakken** *et al.* (2016), presented a review of the benefits of smart class in the overall development of students they stated that students with disabilities are also benefitted with smart classes.

**Siddiqui and Masud (2016),** proposed a smart class model framework to improve the entire educational activity

**Talesara (2016),** she conducted her analysis on 30 students from Christian Eminent School Indore City. After execution of her studied, she found that students gained more knowledge as well as marks when they were taught using smart classes.

**Davidovitch & Yavich (2017),** focused on the smart board and evaluate its effect on the school education system. A positive correlation was present between interest and clarity, which was directly proportional to each other.

#### Conclusion

According to the available review on smart class, it has been concluded smart classes increases the interest level of student in all subject and ultimately it help in developing the students learning ability and improving their academic performance. Smart class education system have more positive impact on students academic performace in comparison to traditional education system. The usage of this new technology must be encouraged in rural area as still there are many rural areas where smart classes are not introduced.



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