



E-ISSN: 2706-8927  
P-ISSN: 2706-8919  
[www.allstudyjournal.com](http://www.allstudyjournal.com)  
IJAAS 2020; 2(3): 683-686  
Received: 10-06-2020  
Accepted: 13-07-2020

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## Status of smart class room in government schools of Arunachal Pradesh

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### Abstract

Education plays a significant role to mechanize the development of human being and this mechanization starts in four walls called classroom. This is the 21<sup>st</sup> century the age of science and technology and this science and technology brought a drastic change in context of education system. The smart class is the product of science and technology which is innovative educational content for the students.

This paper is emphasized on the status of smart class room in the Government schools of Arunachal Pradesh. Arunachal Pradesh is one of the North East states of India where education was started very late in comparison to other states of India but the present scenario of education system of Arunachal Pradesh is quite progress and develop due to fastest innovation of science and technology. Investigator used the journals, news paper, magazines and reports as sources of the data for this paper.

**Keywords:** Education, science and technology, smart class and Arunachal Pradesh

### Introduction

Teaching and learning is the main component of education which requires the specific environment and other facilities in four walls. Class room is the place where this teaching and learning process happen and develop the modification of behaviour of the students in a socially desirable way. In 21<sup>st</sup> century we need to change and modify the existence classroom into smart classroom. The smart classroom refers to integrating technology into teaching and learning makes more innovative for teacher and students. Integrating technology means the involvement of information and communication technology (ICT) in class room and it offers to great enhance the students learning. The ICT has more effective and provide opportunities for using multiple technologies such as Video, computer, telecommunication etc.

Smart classroom is a part of information and communication technology (ICT) and it includes to modern equipments and innovative teaching learning resources and material in existed classroom. The smart classroom is a revolutionary classroom which includes every facility of science and technology such as, computer, projectors, laptop, white board, etc which accumulated in existed four walls.

Education: Education is dynamic term which defined by many people in different ways. An education means the modification of behaviour in a socially desirable way which emphasised that, an educated person has such behaviour that, every section of the society would accept to that behaviour.

Science and technology: Science and technology refers to discover and brought the new innovative things which makes a work an easy and reduce the manual work.

Smart class: Smart Class is an innovative classroom which accumulated with the well equipments of information and communication technology (ICT) like computer, projector, laptop and other tools for online and blended education in existed classroom.

Arunachal Pradesh: Arunachal Pradesh is one of the largest State in the northeast region with a population of about 13, 83,727 showing only 0.11 per cent of the India's population.

Our state have 25 districts with a population of 13, 82,611 as per census 2011. In context of Education it was started very late in comparison to other states of India. The first formal school education was established in 1918 in Pasighat and second in 1922 at Dambuk and at present the state has 1 central university, 1 deemed university, 6 polytechnic colleges, 1 national institutional of technology, 1 horticulture and forest college, 16 degree colleges, 11 DIET colleges, 101 higher secondary schools, 185 secondary school, 329 middle schools, 1280 primary schools and 137 pre-primary schools.

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The literacy rate of the state according to census 2011 is 66.95%.

### Origin of Smart Class

This smart class has developed in 1986, David Martin and Nancy Knowlton were driving through upstate New York when David first described a product idea he had been working on to Nancy. A year later, SMART was founded. Originally, the company was the Canadian distributor for a U.S projector company and revenue was generated through projector sales. That revenue was directed towards the research and development of the SMART Board interactive whiteboard, which would combine the simplicity of a whiteboard with the power of a computer. (Dipankar Das pp67-79)

### Meaning of Smart Class

This is 21<sup>st</sup> century in age of science and technology era. Technology plays a vital role in every fields and whole world lives with the product of science and technology. In these days smart classroom and smart schools are dream of every students and teachers and this smart classroom gives more opportunity to enhance learning to the students and make more active and smart to the teachers and also reduce the manual works of teacher and keep busy to the students. Smart classroom is a new innovative and revolutionary classroom which adopted a new techniques and equipments in the existing classroom. The smart classroom includes the new methods of teaching and new resources and materials of teaching learning so that students can better learn and understanding with retention. This smart classroom integrating with the new technologies like computers, projectors, specialized software and hardware to enhance the better teaching and learning and get a good opportunity to enhance students learning.

### Merits of Smart Class

1. An opportunity to help every student to learn at his own pace and path for them is the most important benefit of digital learning.
2. Digital learning is extending learning opportunities in world wide.
3. It will reduce to the manual works of the teachers.
4. Learning resources and material will be available for the students.

### Significance of the study

Present study is determined the status on Smart Classroom in the Government schools of Arunachal Pradesh. On 3<sup>rd</sup> March 2017, the Chief Minister and his cabinets along with the Chief Secretary Government of Arunachal Pradesh had introduced the Smart classroom in Government schools of Arunachal Pradesh. The Government of Arunachal Pradesh has decided to introduce the smart classroom project under Chief Minister's Adhunik Shiksha Yojana in the Government schools of Arunachal Pradesh and also State Cabinet has endorsed the introduction of smart classroom in Government schools of state in phase wise manner. The first phase of cost amount 30.00 Crore rupees for year 2017-18

and implementation of first phase Smart class room in 713 schools in the state was formally launched by Honorable Chief Minister at Higher Secondary school Itanagar on 15<sup>th</sup> July 2017.

### The significances of the present study are

1. Through this study we can get the investment amounts on implementation of Smart Class in Government schools of Arunachal Pradesh.
2. Through this study we can aware about total government schools of Arunachal Pradesh where Smart Class has been implemented properly.
3. The present study will give the information of implementation of Smart Class in Government schools of Arunachal Pradesh in districts wise.
4. Present study will give the information of total numbers of training of teachers.
5. Present study will help the students to know about the knowledge of technology.

### Objectives of the study

The objectives of the present study are,

1. To study the introduction of Smart Class in Arunachal Pradesh.
2. To study the status of Smart Class room in Government schools of Arunachal Pradesh.
3. To study the status of training of teachers.

### Methodology and Source of Data

Data are collected mainly from secondary sources such as relevant articles, reports, books, journals, different Govt. institutions, and Director of Elementary Education, Department of Education, Government of Arunachal Pradesh and Governments of India.

### Analysis of data

1. **Objective:** On 3<sup>rd</sup> March 2017, the Chief Minister and his cabinets along with the Chief Secretary Government of Arunachal Pradesh had introduced the Smart classroom in Government schools of Arunachal Pradesh. The Government of Arunachal Pradesh has decided to introduce the smart classroom project under Chief Minister's Adhunik Shiksha Yojana in the Government schools of Arunachal Pradesh and also State Cabinet has endorsed the introduction of smart classroom in Government schools of state in phase wise manner.
2. **Objective:** The first phase of cost amount 30.00 Crore rupees for year 2017-18 and implementation of first phase Smart class room in 713 schools in the state was formally launched by Honourable Chief Minister at Higher Secondary school Itanagar on 15<sup>th</sup> July 2017. In the first phase it covered 713 Government schools of Arunachal Pradesh to establish a Smart Class room. It includes 182 Government Secondary schools, 100 Government Higher Secondary schools, 178 Upper primary schools and 253 Primary schools where Smart Class have been implemented.

**Table 1:** District wise detail numbers of government schools in the first phase

Sl. No	Districts	GHSS	GSS	UPS	Pry Schools	Total
1	Tawang	3	8	8	18	37
2	West Kameng	7	6	8	14	35
3	East Kameng	6	8	8	10	32
4	Papum Pare	4	12	8	10	34
5	Capital Complex	5	7	22	22	56
6	Lower Subansiri	6	14	8	9	37
7	Kurung Kumey	3	5	8	12	28
8	Kra-Daadi	1	7	8	12	28
9	Upper Subansiri	6	11	8	12	37
10	Upper Siang	5	5	8	12	30
11	West Siang	10	21	8	8	47
12	Siang	5	5	8	12	30
13	East Siang	10	16	8	13	47
14	Lower Dibang Valley	3	11	8	11	33
15	Dibang Valley	1	1	4	9	15
16	Anjaw	2	1	4	8	15
17	Lohit	2	7	4	7	20
18	Namsai	5	9	10	8	32
19	Changlang	9	15	10	14	48
20	Tirap	3	8	10	14	35
21	Longding	4	5	10	18	37
	Grand Total	100	182	178	253	713

**Table 2:** District wise detail numbers of government schools in the second phase

Sl. No	Name of Districts	No. Of Schools
1	Kamle	35
2	Lower Dibang Valley	7
3	Lohit	20
4	Namsai	19
5	Lower Siang	20
6	Siang	10
7	West Siang	11
8	Upper Siang	11
9	Tawang	17
10	West Kameng	34
11	East Kameng	24
12	Lower Subansiri	12
13	Capital Complex	26
14	Papum Pare	27
15	Anjaw	30
16	Upper Subansiri	2
17	East Siang	35
18	Tirap	5
19	Kurung Kumey	21
20	Changlang	37
21	Longding	8
22	Kra-Dadii	15

**3. Objective:** The Director of Elementary Education, Government of Arunachal Pradesh has organized a training of master trainer program on 26<sup>th</sup> -27<sup>th</sup> May 2017 at Directorate office. Where 25 numbers of Master Trainers from 21 districts including Capital complex were trained.

#### Training of teachers

1. Four levels of training has been completed by Educational consultants India Limited (EDCIL)
2. 25 Master trainers have been trained across the state.
3. 103 teachers have been trained from Capital Complex.
4. 1097 teachers across 21 districts of Arunachal Pradesh.

So far the concerned of first phase there are 1973 teachers have been trained and 888 number of teachers have trained in second phase.

#### Conclusion

To sum up the present study that, Smart classroom is a new innovative and revolutionary classroom which adopted a new techniques and equipments in the existing classroom. In context of our state it is totally new concept and very recently our Government of Arunachal Pradesh has decided to introduce the smart classroom project under Chief Minister's Adhunik Shiksha Yojana in the Government schools of Arunachal Pradesh and also State Cabinet has endorsed the introduction of smart classroom in Government schools of state in phase wise manner.

In the first phase there is 713 Government schools have been implemented a Smart Class and along with 1973 teachers have been trained. All the presented data have been collected from the secondary source of data such as relevant articles, reports, books, journals, different Govt. institutions, and Director of Elementary Education, Department of Education, Government of Arunachal Pradesh and Governments of India. Almost all the objectives have been fulfilled of this present study. Present study will help to the parents and students to know about the Smart Classroom and also help to the Government and public for more update regarding the implementation of Smart Classroom in Government Schools of Arunachal Pradesh in districts wise.

### Suggestions

Some suggestions for stake holders and state Government of Arunachal Pradesh and other states of all over the India that,

1. State Government should provide more funds for upgrading the implementation of Smart Classroom in Government schools of Arunachal Pradesh.
2. Disburse the fund according to the number of schools in districts of Arunachal Pradesh so that every students will avail the opportunity.
3. Concerned Department should conduct a refresher course for trained teacher.
4. Teacher training colleges must provide a pedagogy subject of educational technology.
5. Teacher training colleges like B.Ed and DIET should give training to the teacher trainees with their internship program.
6. Newly recruited teachers must be given at least 6 months training for online education.

These suggestions are applicable for every state across the country.

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