

COMPUTER AIDED LEARNING

Introduction

In the context of the national mandate under RTE to provide quality education to every child, by ensuring universal access, equity, universal retention and achievement, the Department of Education of the NCT of Delhi has launched a flagship program. With a new Computer Aided Learning (CAL) initiative of SSA, the Department of Education in the NCT of Delhi is seeking to fulfill the imperative of providing education that can engage the interest of every child, so that retention and learning can be ensured.

What is CAL?

Computer Aided Learning is an integrative technology, which describes an educational environment where a computer program is used to assist the user in learning a particular subject. It refers to an overall integrated approach of instructional methods. Computer aided learning is a device/learning strategy to make teaching more interesting joyful and sustainable.

VISION

- To make learning a joyful experience for students.
- To develop interest in learning concepts.
- To enhance students' achievement level through Computer Aided Learning.

Class VI Bridge Course

In the pilot phase it was decided to address the very high failure and dropout rates at Class VI level, by introducing a multi-media Bridge Course in all subjects which would be delivered in the first three months of Class VI, to bridge gaps in content and skills.

Partnership for Implementation

Recognizing the project's potential for large-scale impact, the Ernst & Young Foundation offered to support the Pilot Phase by providing state of the art hardware to equip CAL classrooms in 200 schools. This support to the Department at a very critical juncture enabled the implementation of the very ambitious Pilot Phase.

CAL Classroom set up in school consists of

- a) One Computer CPU with UPS.
- b) One 29" Television Monitor.
- c) Computer cabinet.
- d) Colorful chairs.
- e) Keyboard & Mouse.

Content available

Sr. No	Class	Subject
1	Bridge Course	Science
		Maths
		Social Science
		English
		Hindi
2	VII	Science
		Maths
		Social science
3	VIII	Science
		Maths
		Social science
		English
4	IX	All except Hindi
5	X	All

CAL Resource Center



New Cal lab unit in school



Status of CAL lab in DOE schools

Sr. No	District Name	Total School	School Having Cal	Unit Available	Unit Functional	TV Available	TV Functional	CPU Available	CPU Functional	Cal software Is Available	being taken CAL class by teacher
1	East	114	110	157	101	159	111	154	111	67	59
2	North East	126	109	261	163	266	188	254	174	84	84
3	North	63	58	134	98	134	104	138	99	47	47
4	North West A	110	101	228	169	230	177	227	173	84	84
5	North West B	125	110	256	195	259	208	256	208	107	107
6	West A&B	135	120	277	160	282	187	266	177	82	81
7	South West A	40	47	105	85	105	89	104	89	35	36
8	South West B	87	77	178	134	180	146	178	152	64	64
9	South	165	138	304	203	300	206	298	208	102	100
10	Central	41	40	90	78	90	80	86	82	38	38
11	New Delhi	5	5	9	9	9	9	9	9	5	5
Total		1011	915	1999	1395	2014	1505	1970	1482	715	705

Action Taken in 2014-15

1. 597 Govt. schools have been provided new CAL unit in 2014-15.
2. 700 Govt. schools have been provided 500GB external hard-disk for updating Cal content.
3. 60 newly opened Govt. Schools have been provided new Cal unit with 42 inch LED TV.

Action Plan for 2015-16

1. Training of teachers for using CAL lab in schools.
2. Training of teachers for developing CAL content in CAL resource center.
3. 4 Govt. schools will be provided new CAL unit.
4. Class VI syllabus (Science, Maths, Social science, English) and approx 100 Science activity for Class VI will be completed this year.

Support and Monitoring

- A support system was developed with the CAL Resource Team available for on-site follow-up and mentoring to teachers, with a module for online feedback from teachers to the CAL Resource Centre.
- District and zonal officials visited CAL classrooms on a monthly basis and submitted their report online on a prescribed format.
- Students performance was measured through a common test given to all students. irrespective of whether they studied with the help of CAL or not.

Present status

- Monitoring Inspection Proforma has been developed for the C R C coordinators.
- Lessons for class VII are completed and Lessons for class VI are under preparation.
- Through online Proforma, information about the efficacy of the program is being regularly evaluated.

Link of CAL clip

1. **Blood Jingle science (Bridge course class-VI)**
2. **How will we separate mud from muddy water?(Science Activity class-VI)**
3. **How does light travel?(Science Activity class-VI)**
4. **Do all material conduct electricity?(Science Activity)**
5. **Symmetry (Maths class-VII)**
6. **Nitrogen cycle (Microorganism class-VIII)**
7. **Right To Education UEEM Delhi (Hindi)**
8. **Right To Education UEEM Delhi (English)**

*All clips are developed by CAL lab Timarpur

