CSC BAL VIDYALAYA
Technology enabled Playful Learning
POWERED BY CSC ACADEMY

Early to bed

Technology enabled Playful Learning
CSC Bal Vidyalaya

Digital India — Power To Empower

CSC ACADEMY — ISO 21000:2018 Certified

CSC BAL VIDYALAYA

Network in India

An initiative to inspire every child, especially in rural India, for overall growth through safe and inclusive technology enabled playful Early Childhood Care and Education in the age group of 3-7 years.

Total Opened CSC Bal Vidyalaya: 1254

*As dated on 18.05.2022

Ladakh 2
Jammu & Kashmir 16
Himachal Pradesh 32
Chandigarh 2
Punjab 23
Uttarakhand 16
Haryana 100
Delhi 8
Rajasthan 56
Uttar Pradesh 244
Bihar 17
Sikkim
Arunanchal Pradesh
Assam 43
Nagaland
Meghalaya 8
Manipur
Gujarat 274
Madhya Pradesh 24
Jharkhand 59
West Bengal 112
Tripura 8
Mizoram
Daman & Diu
Chhattisgarh 69
Odisha 6
Dadra & Nagar Haveli
Maharashtra 116
Telangana 3
Goa 2
Karnataka 1
Andhra Pradesh 1
Tamil Nadu 7
Puducherry
Andaman & Nicobar Islands 2
Lakshadweep
Kerala 3

States Covered: 28

Districts Covered: 360

Blocks Covered: 703

Women Owners: 112

Educators Associated: 2119

Children Enrolled: 2534

Educators Trained: 208

CSC Bal Vidyalaya Patrika

Editorial Team

Shweta Sharma
Vivek Kumar
Pinky Sharma
Akansha

CSC Bal Vidyalaya Framework ©

CSC Bal Vidyalaya

Technology enabled Playful Learning

Why ← **What**

How

- Over 85% of a child's cumulative brain development occurs prior to the age of 6
- Boost Child confidence
- Children learn the way they enjoy
- Diversity & inclusion
- Children have their own way and pace of learning
- Quality early childhood development (NEP2020)
- New teaching pedagogy
- Smooth transition to Primary school

- Pre-school education in age group of 3-6 years
- Available for Nursery and KG classes
- Play and activity based learning
- A holistic learning approach
- Technology enabled playful learning
- Transforming role of Teacher to Influencer

CSC ACADEMY™
ISO 21000:2018 Certified

CSC ACADEMY™
ISO 21000:2018 Certified

Providing
Affordable technology
Digital learning tools
Self learning interactive tools

Developing appropriate technology enabled learning pedagogical practices for:

- Physical and motor development
- Foundational numeracy and literacy
- Self confidence, communication, creativity
- Singing, music, dancing, drawing
- Logical thinking, collaborative & inquiry based learning

Transforming Role
Teachers to Educators – Influencer – Motivators – Facilitator
Up-Skilling, Training, Coaching
Appreciation
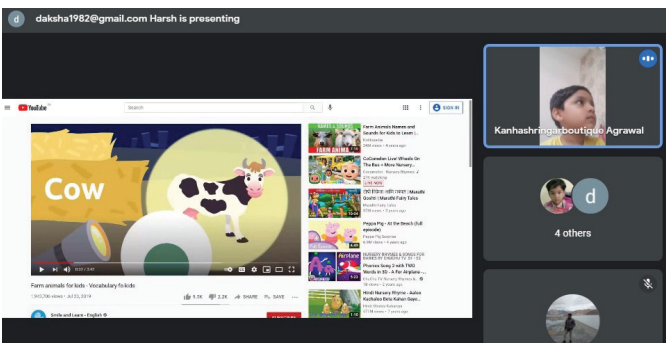
What is learning?- Vivek Kumar, CSC Academy

Learning is one of the most important activities of human life. It begins with birth of a person and happens throughout the entire life span. This includes language learning at a younger age, learning habits, skills, postures and gestures, likes and dislikes, preferences, knowledge, value systems and finally learning to adapt to diverse situations of life.

A very obvious question that comes in everyone's mind is what is learning. Let's understand the concept of learning by taking few examples below.

A three-year-old girl was overly affectionate with a neighbourhood dog, and the dog responded by biting the girl's leg. After that, whenever she saw the dog, she started crying and went to her mother.

The mother of a nine-year-old boy, Sanjeet, insists that her son should bring milk daily from the milk booth. In turn, mother gives him some money. The money, when saved for two or three weeks, enables the boy to purchase things of his own choice. As a result, he develops an appreciation for the value of money.

From the above examples, it is clear that **learning refers to change in behaviour.** There was a noticeable change in the behaviour of the three year old girl after the dog has bitten her. It is also clear from the above examples that **the change in behaviour due to learning is relatively permanent.** That is, the change in behaviour is neither for the time-being (shorter duration) nor it is necessary that it will be forever. The change will last for some period of time. It is also possible that the change in behaviour may not be reflected immediately after learning.

In the third example, the mother wanted to inculcate some household responsibilities in the child. For this, she rewarded each time the milk bringing behaviour of the child. It means **that change in behaviour is due to practice.** Furthermore, in order to bring the desired change in behaviour it is essential that reinforcement is given each time the child exhibits the desired change in behaviour.
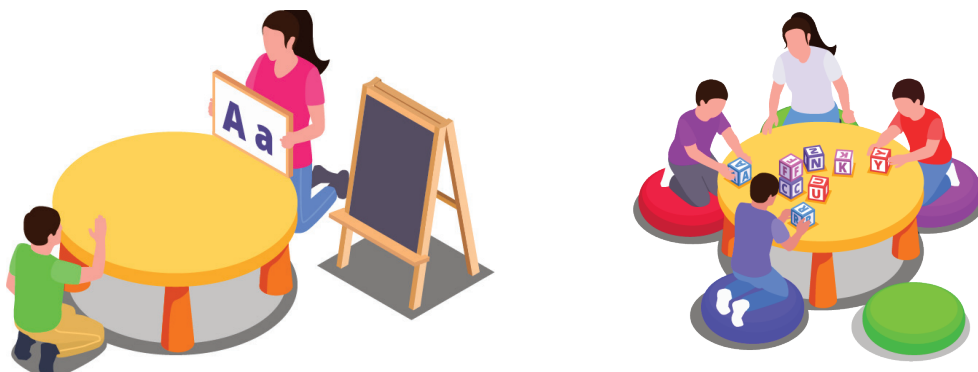
In terms of change in behaviour, learning can be described as **establishing association between stimulus and response.** For example, the teacher shows the picture of a cat to children and asks what this is? The children do not know the answer. Then the teacher says: This is a cat. After the repeated presentation of the picture (the stimulus) and word 'cat' (response), the children learn to associate picture with the word. Each time the children are able to associate picture with the words, the teacher gives then reinforcement, such as, praise, toffee, etc. This is how, there is a change in behaviour because of change in knowledge.

To be continued...

CSC Bal Vidyalaya Develops AR based course for Preschoolers with help of IIT Delhi

CSC runs a research lab at IITD called DIVINE lab (Design and Innovation in VLE's Indigenous Network Ecosystem). The DIVINE lab incharge at IITD, Professor Jyoti Kumar undertook a project to develop AR based activities for development for children of age 3-6 years. The pilot project has created a benchmark study of international curriculum, national curriculums, identified the need for AR based content, designed the AR content, developed the applications for android, conducted pilos with children and collected feedback from teachers and children. Finally it is planning to roll out the applications for the benefit of teachers and students across the country.

The goal of AR based intervention is to prepare Indian children for 21st century skills. Throughout the world countries are today focusing on these skills. In Finland they call it 'Transversal Competencies'. The European Union has named it as a 'Key Competency'. Similarly CBSE has come up with a handbook on 21st century skills. The 21st Century is also known as the information era.

In this era, students need a different type of approach to handle today's challenges. So this is one such way where students can interact with traditional learning and technology at the same time. 21st Century skills being developed through the AR apps are Information, media & technology literacy, Critical thinking, Problem solving, Initiative and self direction, Collaboration. Further, this initiative argues that AR can be a very good aid to develop the competencies of Literacy, Linguistics, STEM, Digital, Socio Emotional, Civic, Entrepreneurship, Cultural etc. in children.

The idea is to equip both rural and urban India with best possible learning aids. We want to prepare our next generation for the age of digital literacy. We want to raise a child who can use the digital tools to enhance competencies and enable learning. To achieve this we are using AR technology. It provides an immersive experience and makes the learning joyful. AR can boost the learning as it can help in visualization of abstract concepts better and it also manages the limitation of resource availability in schools. The AR app will also support teachers to engage children in learning better and easy ways.

Resources from DIVINE lab did a pilot in **CSC Bal Vidyalaya** in Delhi. Total of 3 **CSC Bal Vidyalayas** in Delhi were visited for the pilot testing. Aim of the visit was to understand the userset which includes the teachers and the end user i.e. the students. There was a secondary objective to also train the teachers to be more familiar with the type of difficulties they will face during the testing of the app and development of the markers.

Each school was visited twice for 4 to 5 hours each visit. The sessions started with storytelling and later conducted AR based activities by using the story as context. Feedback for both stories and apps were received which were used to refine the Apps. The feedback received from educators was positive. They were happy to use the apps and said that they were looking for such a technology to engage their children better. The feedback received from parents was also shared by educators from **CSC Bal Vidyalaya** Uttam Nagar. educators said parents were surprised and happy to see their children handling the tabs so well. One of the children in the same school tried to teach her mother through the AR app and parents said they liked the steps the school was taking for their children. The overall visit to the schools was really fruitful and helped us to catapult the process and our understanding to a whole new level.

CSC Bal Vidyalaya Inaugurated in Jatusana by MD CSC SPV, Dr Dinesh Tyagi

23rd April was an auspicious day for the people of Jatusana, Rewari of the state Haryana. Technology enabled Playful Learning based pre-school, CSC Bal Vidyalaya was inaugurated jointly by Dr. Dinesh Tyagi (MD, CSC SPV) and Shri Ravinder Yadav (CEO Zila Parishad, Rewari). CSC Bal Vidyalaya is a unique initiative of CSC Academy, a not for profit organisation, registered at Electronics Niketan, Ministry of Electronics and Information Technology, CGO Complex New Delhi. **It is the fastest growing network of pre-schools in India, especially rural India. Currently, there are more than 1000 CSC Bal Vidyalaya are functional across 28 states of India.**

On the occasion of inauguration of CSC Bal Vidyalaya Jatusana which is run and managed by Ms Sonu Bala, Dr Dinesh Tyagi emphasized on the need and importance of technology enabled schools in future. He said, Indian education system is going through a raid change in terms of use of technology in classrooms. CSC Bal Vidyalaya is a revolutionary initiative in the area of Early Childhood Care and Education and functions completely in sync with National Education Policy 2022. He added further that CSC Bal Vidyalaya are not curriculum based, instead outcome based.

To ensure better learning outcomes, digital equipments like Amazon Alexa, Computer, LCD TV and digital tablets are used in classrooms. Theses gadgets not only make the delivery part by the educators effective also ensures the learning becomes joyful and long lasting.

Shri Ravinder Yadav Ji said that such educational initiatives will certainly bring expected positive change in the society in coming years. He thanked the whole team of CSC Academy for such initiatives.

The occasion was graced and appreciated by Mr Naveen Sharma (Vice President, Skills), Mr Ashish Sharma (Head, Haryana), Mr Vivek Kumar, Mr Prabhjot Singh, Md Arif, Mr Arvind Rathi and hundreds of residents of the village Jatusana.

Some of the Glimpses of the Activites
at various CSC Bal Vidyalayas

# CSC Bal Vidyalaya Master Trainer Certification Program - Digital Skills and Learning Outcomes

In today's life, we are strongly connected to digital environment. Digital Skills are becoming increasingly important in teaching-learning process as educational technology evolves alongside general digital development in our society. Therefore, It has become essential for educators to develop their digital literacy, which allows them to use and replicate their ideas in technology enabled learning environment.

With this in mind, we launched a series of four online training programs for the educators of CSC Bal Vidyalaya in batch wise mode. The program is named as "CSCBV Master Trainer Certification – Digital Skills and Learning Outcomes". Around 500 educators from 500 different CSC Bal Vidyalaya across 28 states and 389 districts were shortlisted for this training.

Showing them different online tools, inspiring them to use the tools in the classroom to make learning joyful and delivery effective and long lasting was our priority. Few other top focus were, understanding the learning goals, learning outcomes, learning pattern of children and Child Learning Assessment Framework (CLAF).

The training will allow educators of CSC Bal Vidyalaya to feel confident when working on their lessons. Especially when selecting various digital tools and applications which are meaningful to them and suit to the learning needs of children.

Some of the Glimpses of the Training
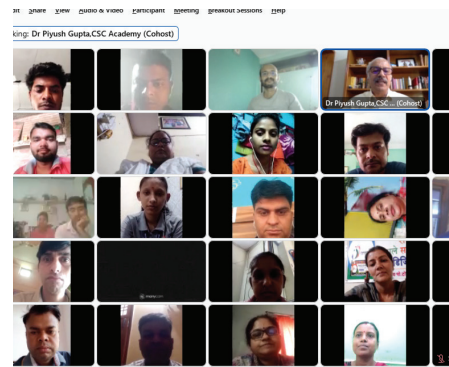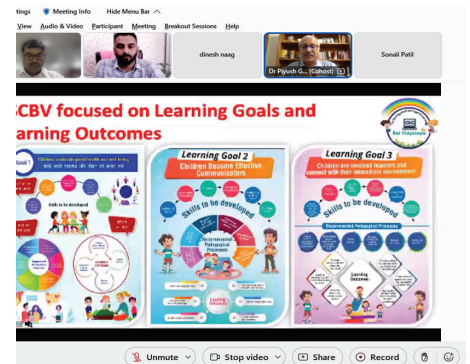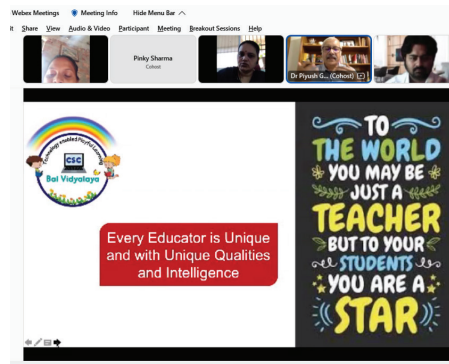
Activities at CSC Bal Vidyalaya

Baisakhi celebration at
CSC Bal Vidhyalaya, Panchkula

CSC Bal Vidyalaya,
Valwada, Gujarat

CSC Bal Vidyalaya,
Odisha

CSC Bal Vidyalaya,
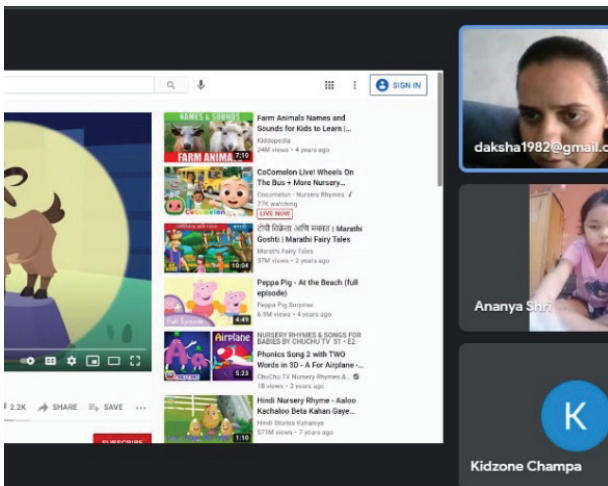Kiran Garden, West Delhi
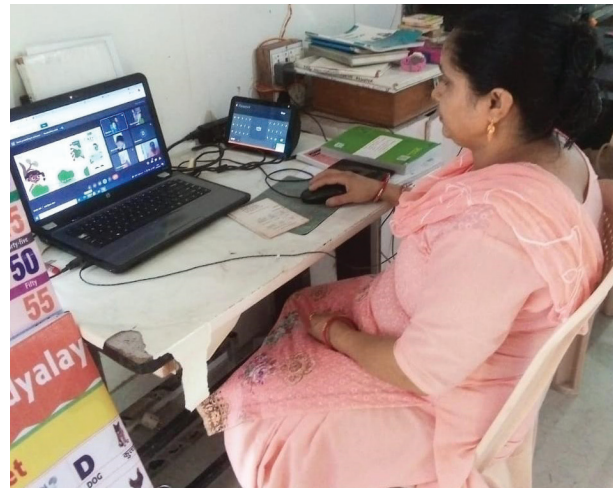

CSC Bal Vidyalaya,
Punjab

CSC Bal Vidyalaya,
Durg, Chhattisgarh

Making Technology enabled Learning Interactive and Playful

Check Webinar recordings on CSC YouTube Channel under CSCBV Playlist–

https://bit.ly/3JT1juB

CSC Bal Vidyalaya, a step towards Rural Transformation

Children must be taught How to Think, Not What to Think

- Margaret Mead

Technology enabled Playful Learning

CSC

Bal Vidyalaya

Share your CSC Bal Vidyalaya Stories
All CSC Bal Vidyalaya CSC VLE and Educators
may send their Stories, activity photos to
cscbalvidyalaya@cscacademy.org

Mention your CSC Bal Vidyalaya address,
your full name, designation,
contact details.