



Neeru Mittal

PGT Computer Science(SRDAV PUBLIC SCHOOL, Delhi)

Delhi State Awardee-2019

National ICT Awardee-2019

Global SDG Ambassador,

Global Learning Mentor

Empatico Founding Connector,

Global Minecraft Mentor,

MCE, Flip Grid Students Voice Ambassador

Education



1989



'O' Levels (High School)
Oshwal Academy,
Mombasa, Kenya

'A' Level
University of London, Centre,
Dar-Es- Salaam, Tanzania

1991



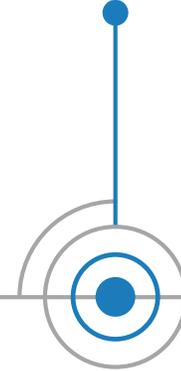
1993



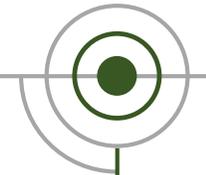
B. Sc. Computer Science
University of Delhi

BCA,
IGNOU

2002



2004



MCA,
IGNOU



1997-
Present

Education



Post Graduate Diploma in
Computer Applications,
IGNOU

In-Service Training
Programmes

2002

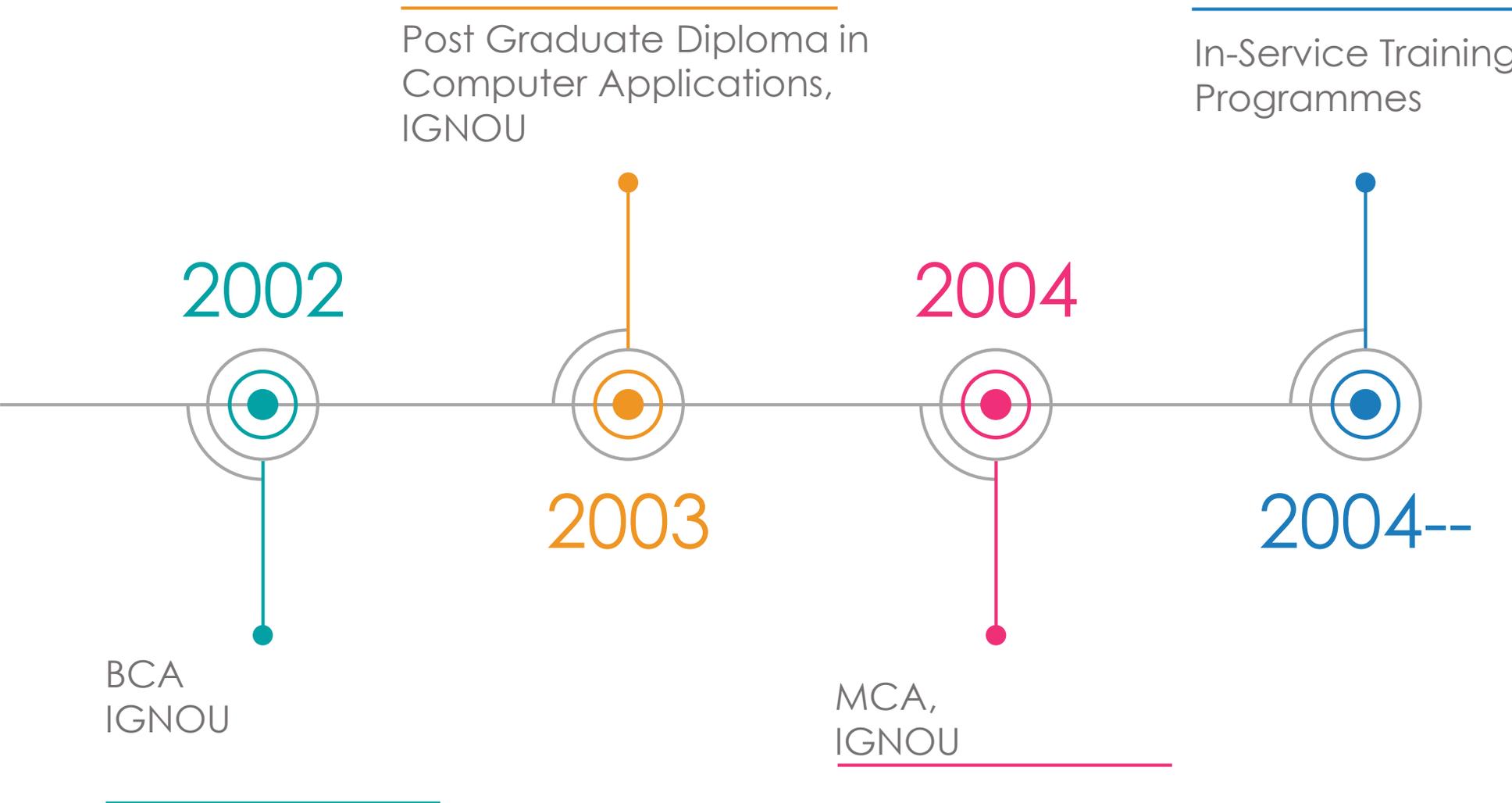
2003

2004

2004--

BCA
IGNOU

MCA,
IGNOU



Challenges

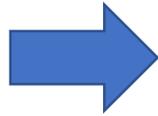
1. Overall low enrollment in Computer subjects
2. Lack of interest in learning coding.
3. Girls' enrollment was negligible.



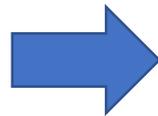
Strategy : Teach students the way they want to learn



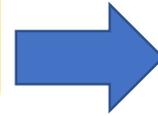
ENGAGE



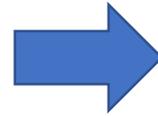
EMPOWER



EXPLORE



EXPERIMENT



EVALUATE

Pillars of Strength: Teaching Pedagogies

- Differentiated Learning
- Creativity
- Critical Thinking
- Joyful Learning
- Communication
- Global Citizenship
- Compassion

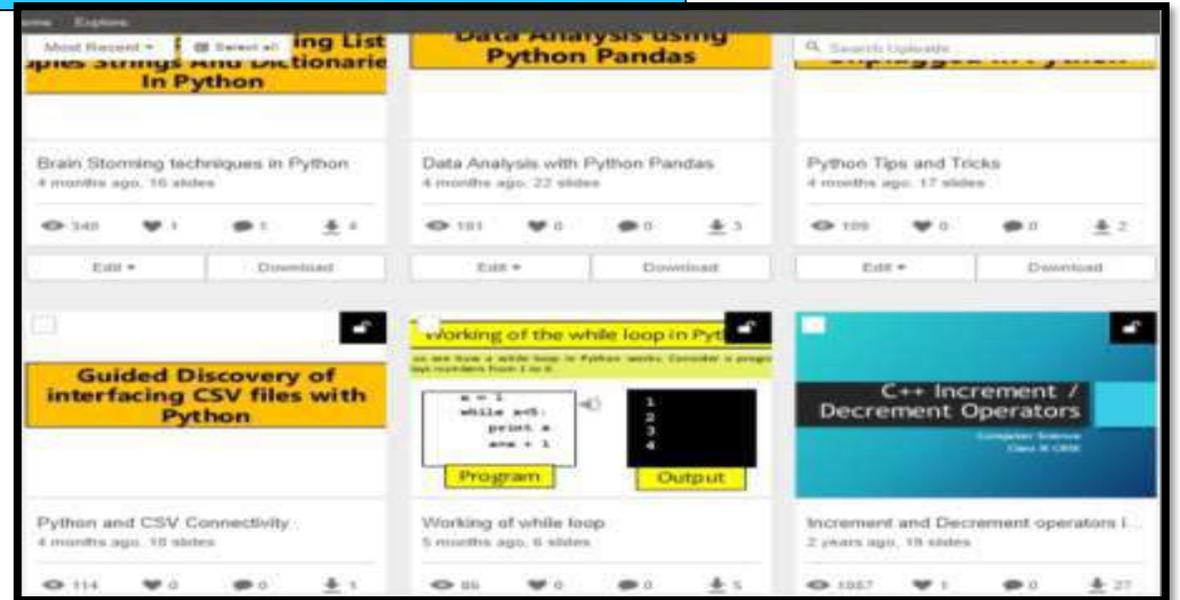


Creating ICTs for anyone, anytime, anywhere Learning

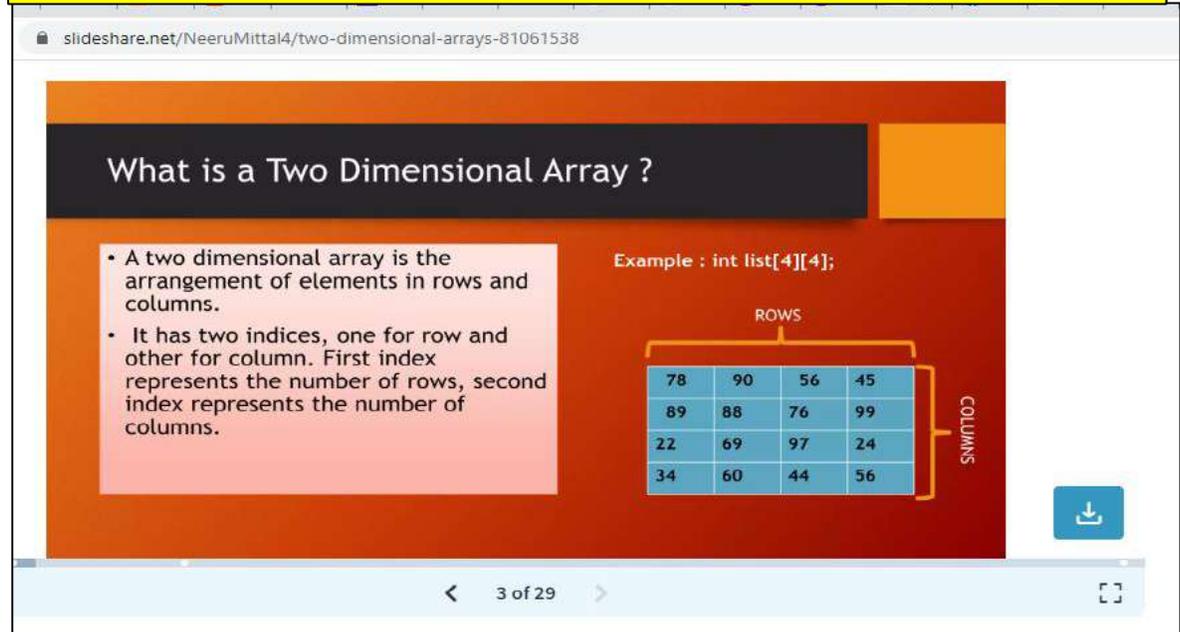
Educational Resources Created



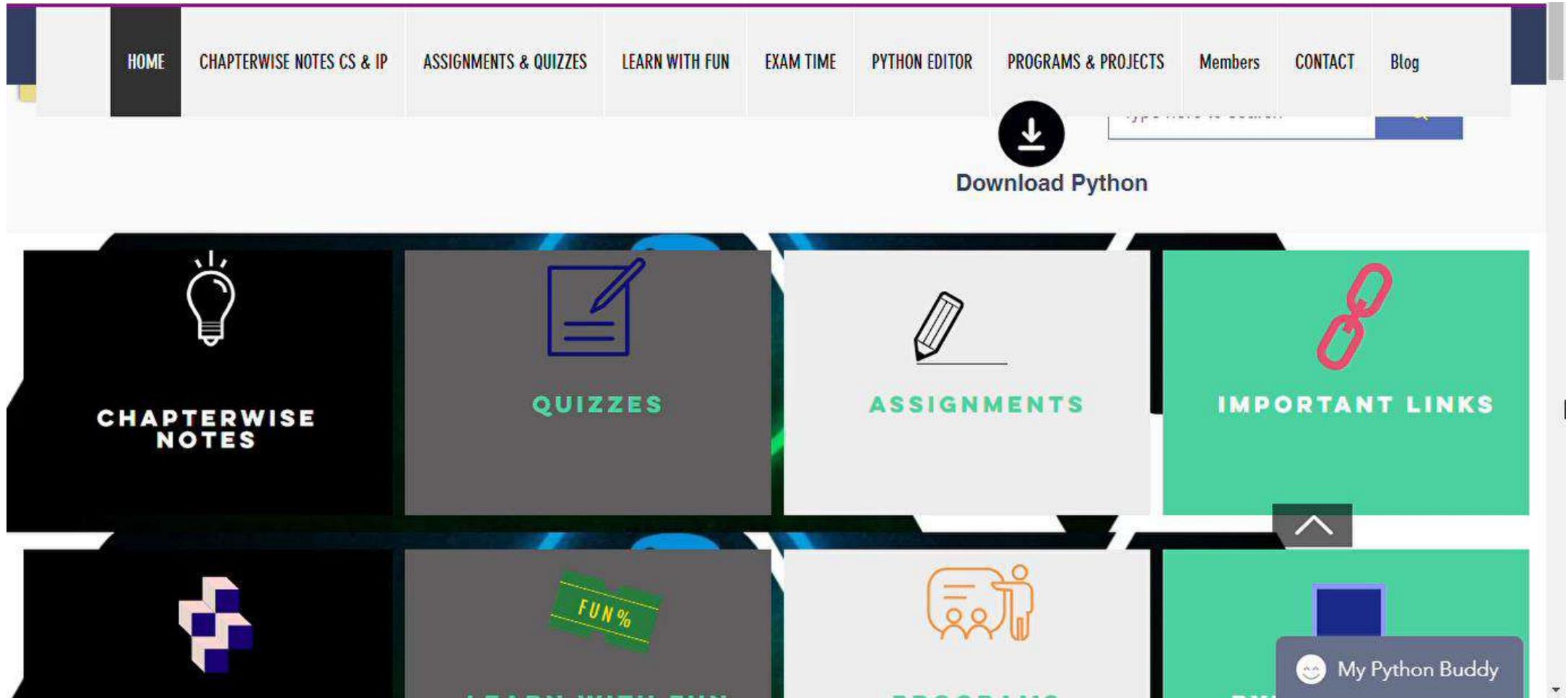
Computer Science Blog



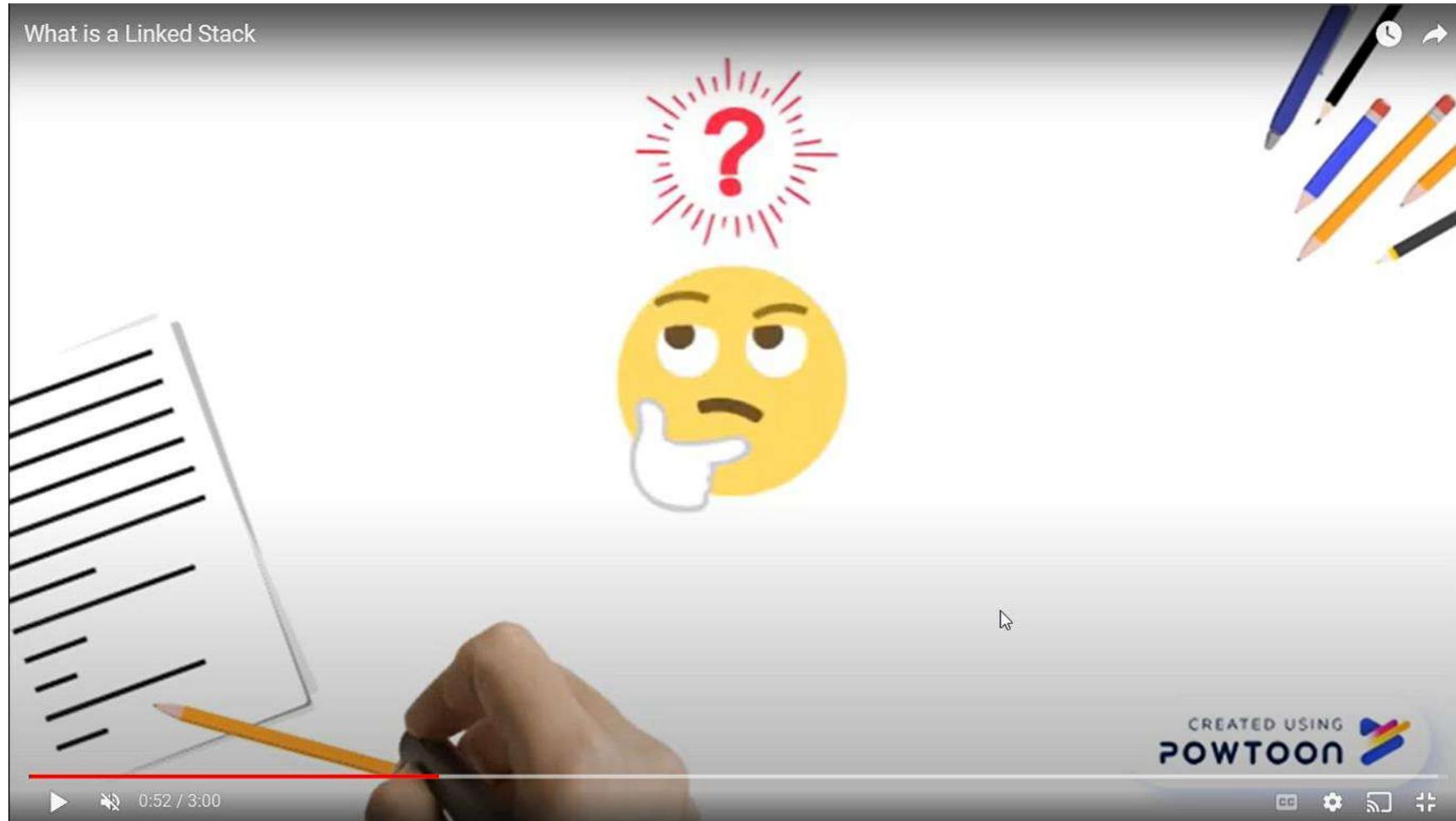
Content based SlideShare Presentations



Python Website with inbuilt editor and chatbot



Animated Powtoon videos



Complete Computer Science/IP Lesson Plans on a sigle click

The screenshot displays the Wakelet 'Collections' interface. On the left is a navigation sidebar with the following items: 'W' logo, a profile picture, 'Search', 'Explore', 'My Library', 'Bookmarks', 'Collections' (highlighted), 'Shared with me', 'Spaces', 'My Wakelet MyPride', and 'Python Resources'. At the bottom of the sidebar is a '+ Add Space' button. The main content area is titled 'Collections' and includes a search icon, a sort icon, and a '+ Create Collection' button. It features a grid of collection cards:

- ICT**: 3 items, represented by a landscape photo of trees.
- Classes**: 4 items, represented by a portrait of a religious figure.
- Solar System Class 4**: 6 items, represented by a hand-drawn diagram of the solar system with labels for Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- Fractions Class**: 13 items, represented by a photo of a red slide on a metal structure.
- Python Resources**: Represented by a photo of blue digital data patterns.
- Ambassador**: Represented by a logo with the text 'wakelet Ambassador' inside an orange hexagon.
- Community Impact Award 2021**: Represented by a photo of people holding an award certificate.

A 'Help' button is visible in the bottom right corner of the interface.

The screenshot shows a YouTube channel page with the following elements:

- Browser Tabs:** Multiple tabs are open, including YouTube, Google, and various educational resources.
- Channel Name:** UC1BTCmaVgqyHsnr9QpSOWeQ
- Search Bar:** A search bar is located at the top of the channel page.
- Navigation Menu:** HOME, VIDEOS, SHORTS, LIVE, PLAYLISTS, and COMMUNITY.
- Featured Video:** "Types of Stacks" by Powtoon. The video content includes:
 - Title: Types of Stacks
 - Text: A Stack can be implemented in two ways depending upon memory allocation:
 - 1. As an Array:
 - Diagram: A vertical stack of memory addresses: 4, 13, 9, 24. An arrow points to the top element (4) labeled "Top".
 - Text: Memory is allocated at Compile Time.
 - Logo: CREATED USING POWTOON
- Video List:**
 - "What is a Linked Stack": 500 views • 4 years ago. Subtitle: linked stacks-- Learn Linked list in 3 minutes
 - "Robotics ppt": 33 views • 11 months ago
 - "Higher Order Thinking Skills": 6 views • 11 months ago
 - "Parivartan Social Foundation Offline Workshop": 119 views • 11 months ago
 - "The story of": 6 views • 11 months ago
- Popular Videos:**
 - "GENDER INEQUALITY 'A HUGE ISSUE'": Multiple instances of this video are shown.
 - "Remote Learning Made Easy!!": Includes a link to "Student Login to online class".
- Taskbar:** Windows taskbar at the bottom shows icons for File Explorer, Mail, Photos, Word, Chrome, and PowerPoint.

You Tube channel: Education For All

- Explanatory videos
- Animated videos of difficult topics
- Videos on Social issues
- Videos on Cyber safety
- ICT Tools Training Videos
- Students' Videos

Educational Resources Created

The screenshot displays the Diksha App interface. At the top left, there are logos for the Government of India and the DIKSHA program. A search bar with the text 'Search or enter QR code' and a 'Search' button is located at the top right. Below the search bar, there are four navigation buttons: 'Digital textbooks', 'Courses', 'TV classes', and 'All'. The main content area shows a digital textbook page titled 'Flow Of Control in Python' for 'Computer Science • Class 11'. The page content includes the chapter title 'Chapter 6 : Flow of Control' and 'CBSE Class XI Computer Science(new)'. Under the heading 'Learning Objectives', it states 'At the end of this chapter, students will be able to learn about' followed by a list of objectives: 'What is Flow of Control', 'What are control structures' (with sub-points for Selection Control Structures: Conditional Statements and Various iterative control structures), and 'The three expressions to runloops'. A 'Share' button is visible in the top right corner of the page. At the bottom right, there is a blue speech bubble with the text 'Ask Tara' and a small blue robot character.

Flow Of Control in Python
Computer Science • Class 11

Chapter 6 : Flow of Control
CBSE Class XI Computer Science(new)

Learning Objectives

At the end of this chapter, students will be able to learn about

- What is Flow of Control
- What are control structures
 - Selection Control Structures: Conditional Statements
 - The simple if construct
 - Working with if
 - Python indentations and blocks
 - Variations in if
 - The if Else statement
 - The various variations
 - Working of if.... else
 - Applying logic to code ifelse
 - The if elif statement
 - Working of if.... elif
 - Various iterative control structures
 - The loop control variable
 - The three expressions to runloops

Content published on the Diksha App

Code champs : Basic Coding Skills



HOME | COURSE OVERVIEW | CODE CHALLENGES | REGISTER | WALL OF FAME | Forum | Members

Type here to search 

 Log In



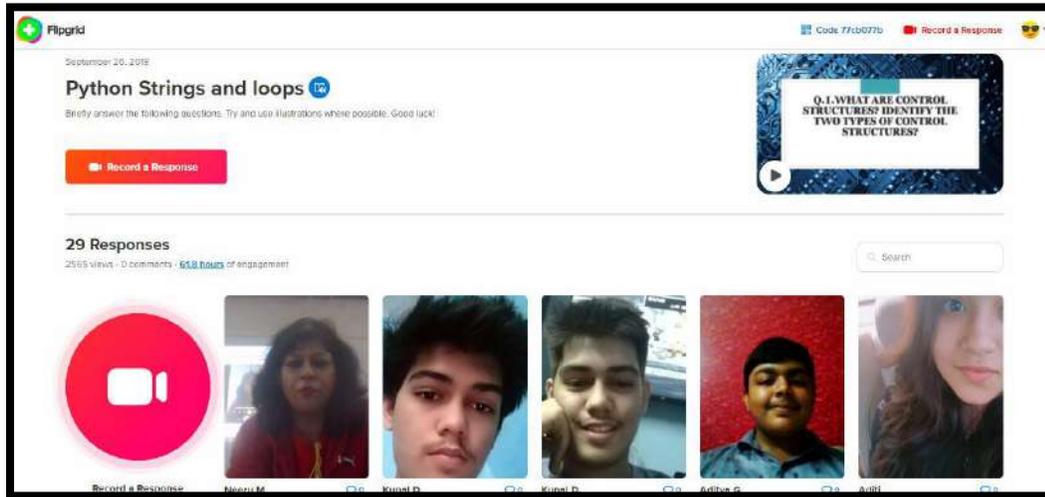
Photo Courtesy: freepress.com

The Code Champs

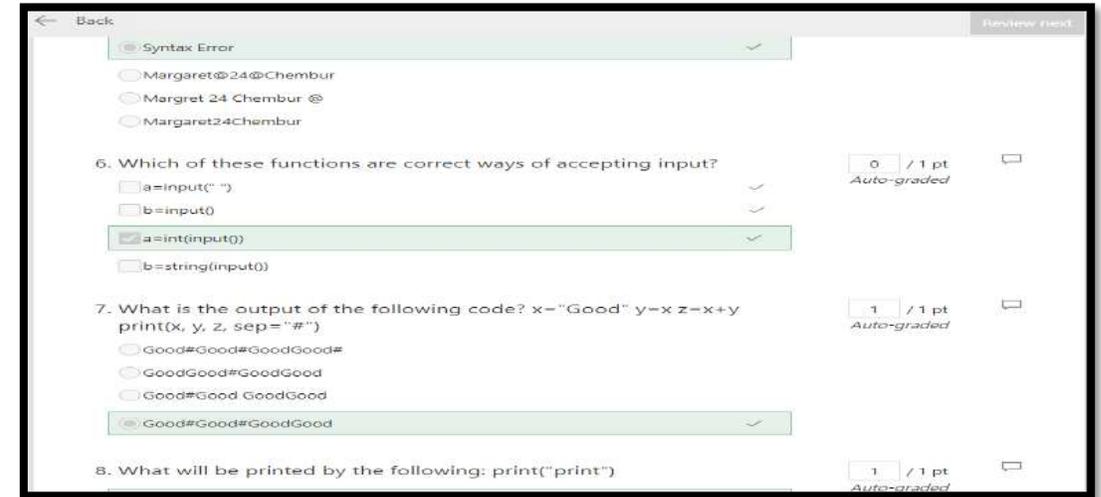
Empowering students with
Coding Skills

The website header features a yellow background with various icons: a laptop with a cursor arrow, a gear with a circuit board, a beaker with pink liquid, and a green pencil. The navigation menu is a horizontal bar with red segments containing white text. The search bar is a white box with a red search icon. The central robot is a blue and white character with a friendly expression. The title 'The Code Champs' is in a large, bold, blue font, and the subtitle 'Empowering students with Coding Skills' is in a smaller, red font.

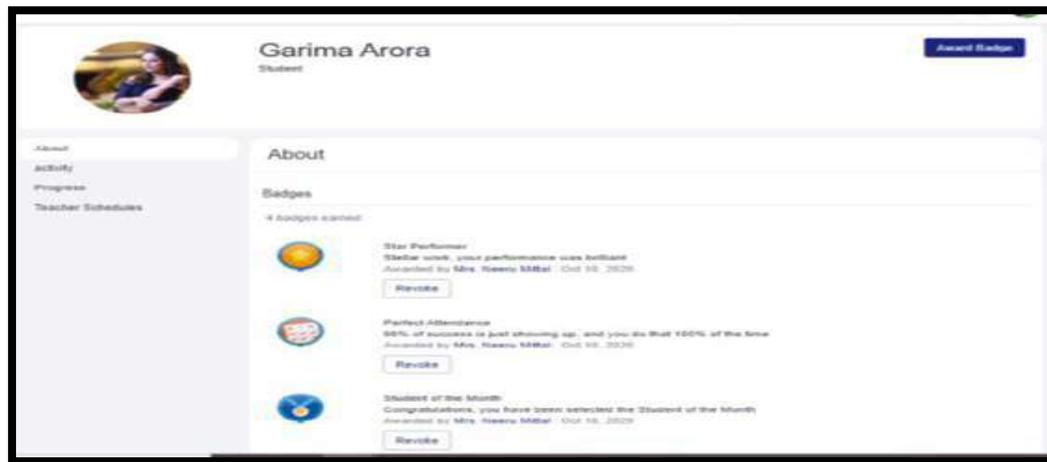
Stress free Assessment using self marked quizzes, videos, Digital portfolios and concept maps



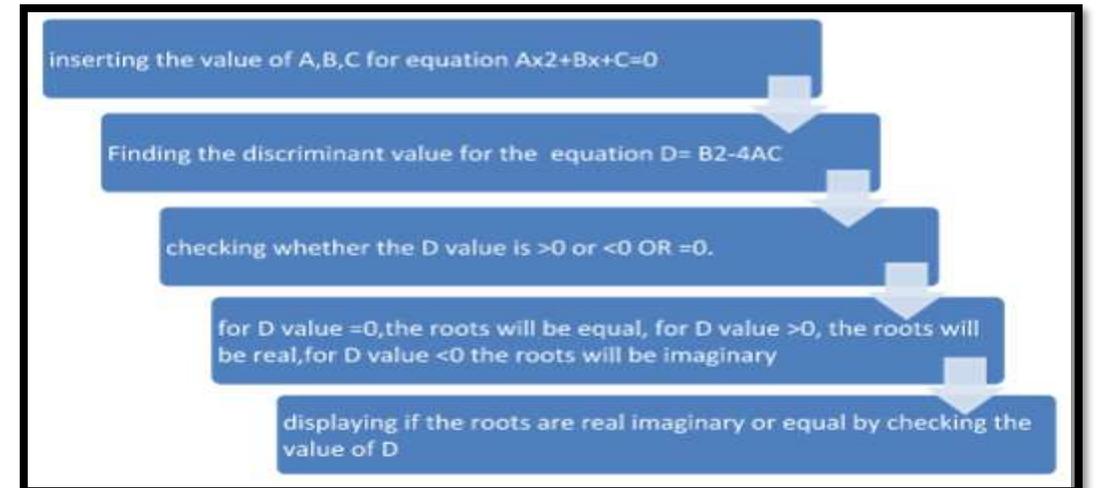
Preparing for Viva using Video Assessment



Self marked Quizzes



Digital Portfolios to help students take ownership of their learning



Concept Maps for program assessment



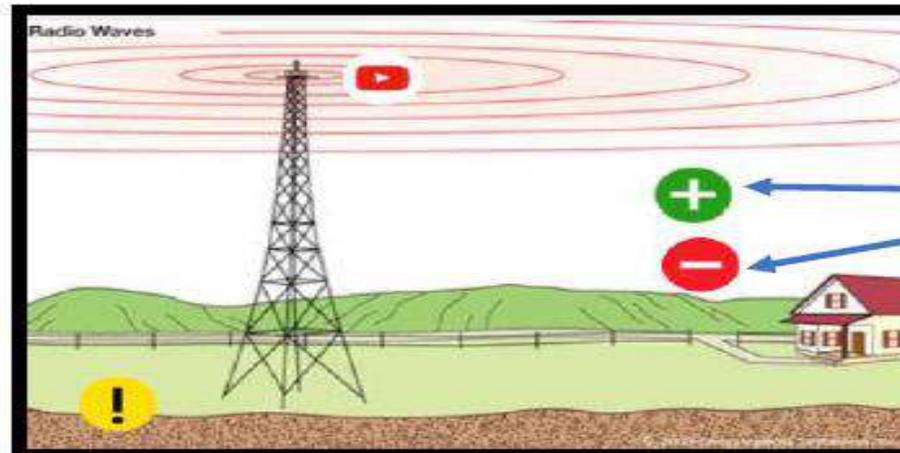
Innovative Teaching Methods for 360° Learning

Innovative Teaching Methods

Using self created ICT resources for Joyful Learning



Bringing lessons to life with Augmented /Virtual /Mixed Reality



Tags, reveal embedded content when clicked

Responsive Learning through Interactive Content



Storifying Concepts using Animation

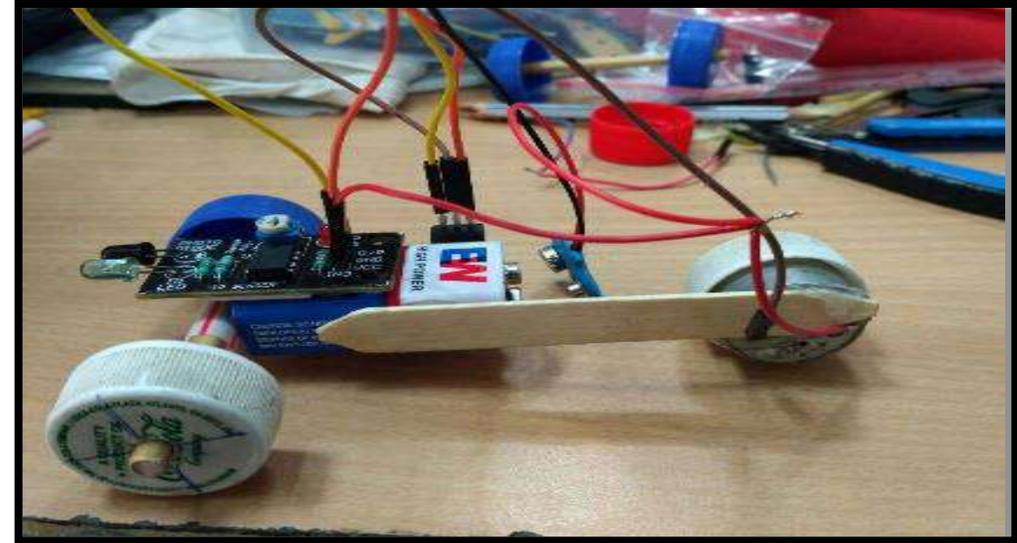


Using Gaming for Classroom Assessment

Using ICTs for Experimentation, HOTS to hone creativity and Critical Thinking Skills



STEM Learning



Robotics from Waste



Mobile App Development



Student centered national/international Projects

International/ National Student & Teacher IT Exchange for Social and cross cultural exposure



IT Exchange with rural schools in SriLanka



Exchange Programme with Russia,, Egypt, Saudi Arabia and Morocco



Exchange Programme with Israel



Best Teaching Practices Exchange Programme with Finland



IT/Cultural Exchange Programme with Hungary. Russia and Bangladesh



Student Exchange Programme with Kashmir

Using Virtual Meeting tools to hone students' collaborative, communication, critical thinking and creativity skills



Collaborative Projects



Virtual Field Trips

Impacted more than 15 K students

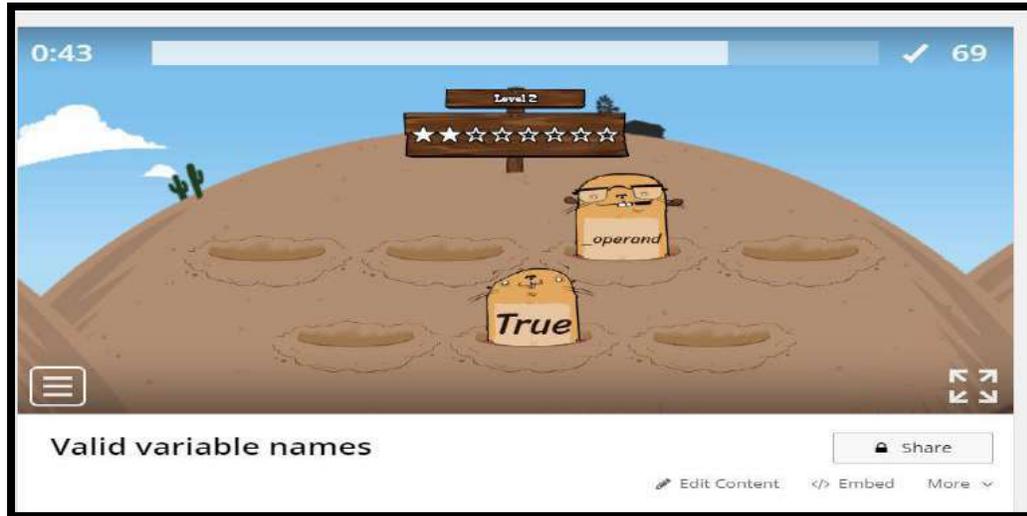


Mystery Skype

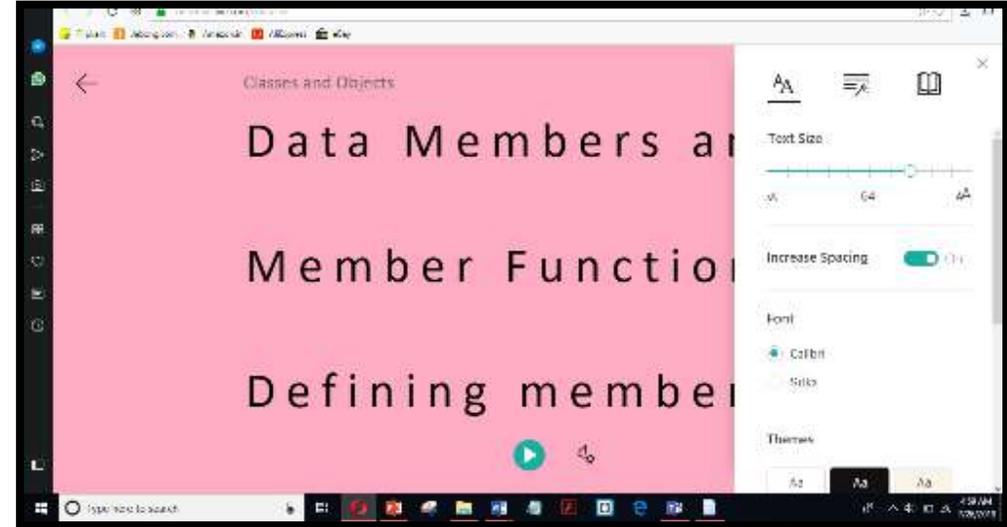


Guest Speakers

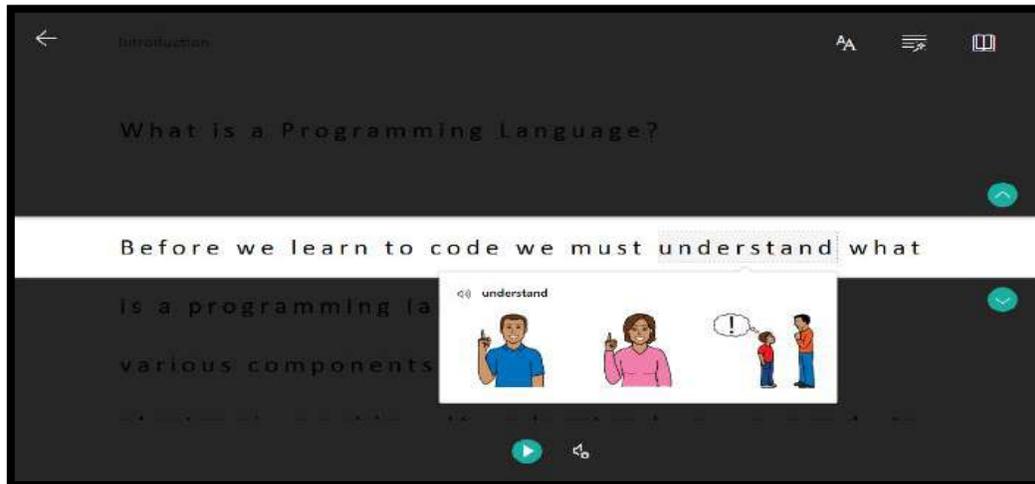
Using self created resources for Inclusive Learning



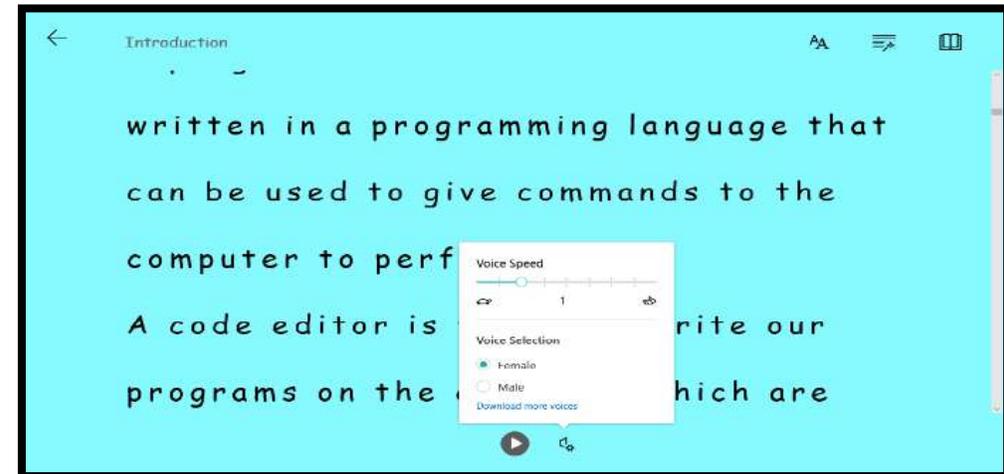
Gamifying concepts for learners with non verbal learning disorders and ADHD



Using immersive reader feature for Dyslexic Learners



Using Pictionary for CWSN



Using Audio Books for Visually impaired

Providing Equal opportunities to the differently abled

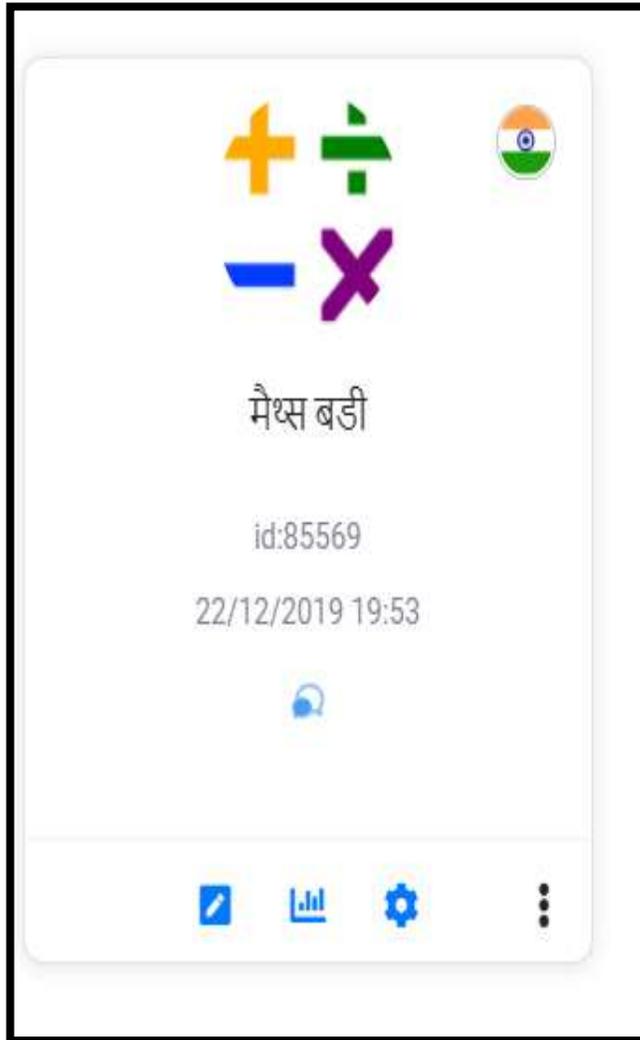


Nishta working in the Computer Lab

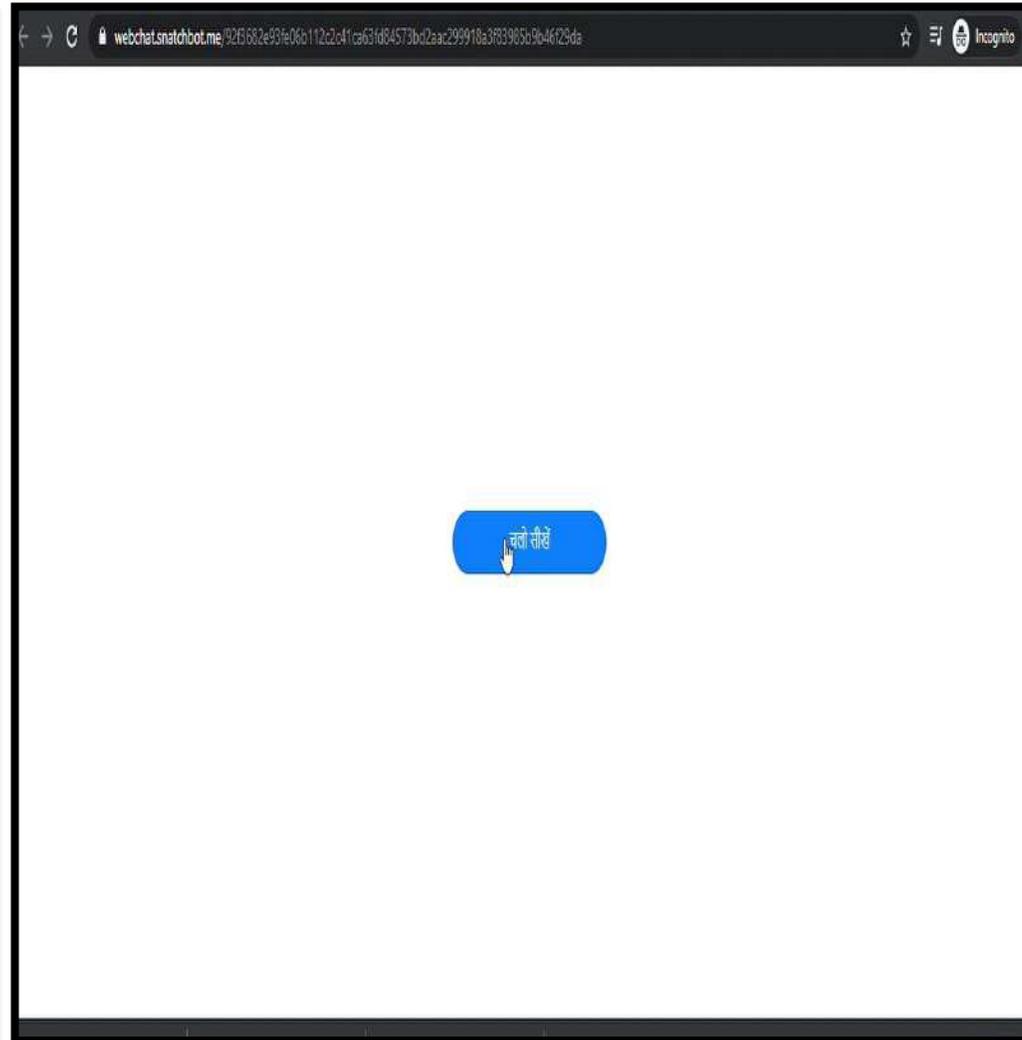


Shubham Kumar being facilitated

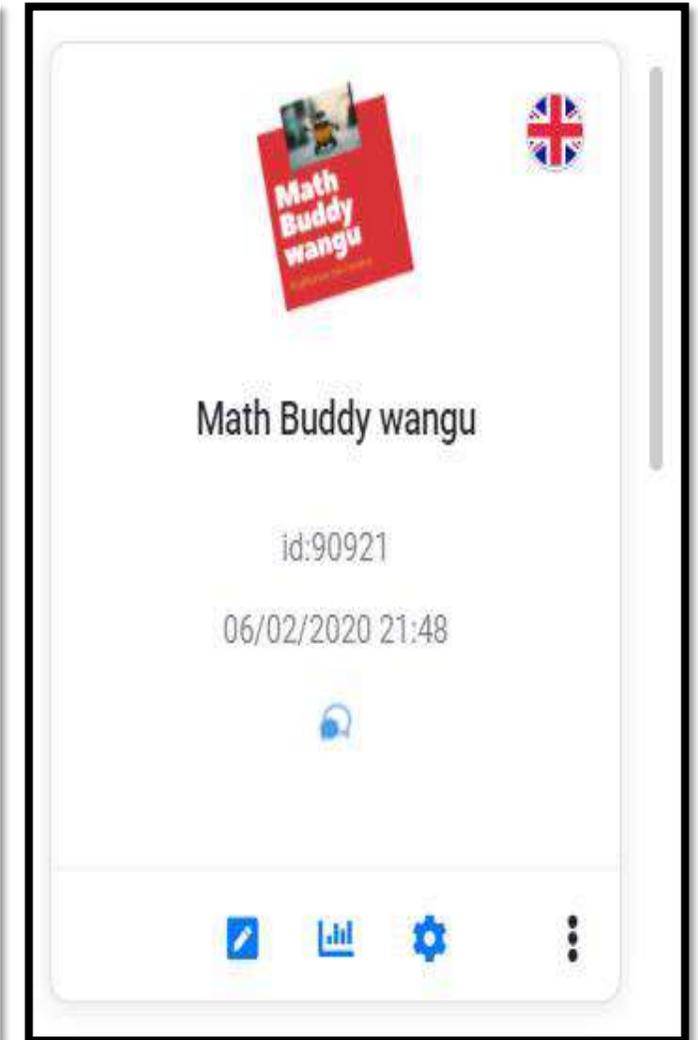
Chat Bot to evangelize Mathematics at Elementary level(Hindi/English)



Hindi Chat Bot



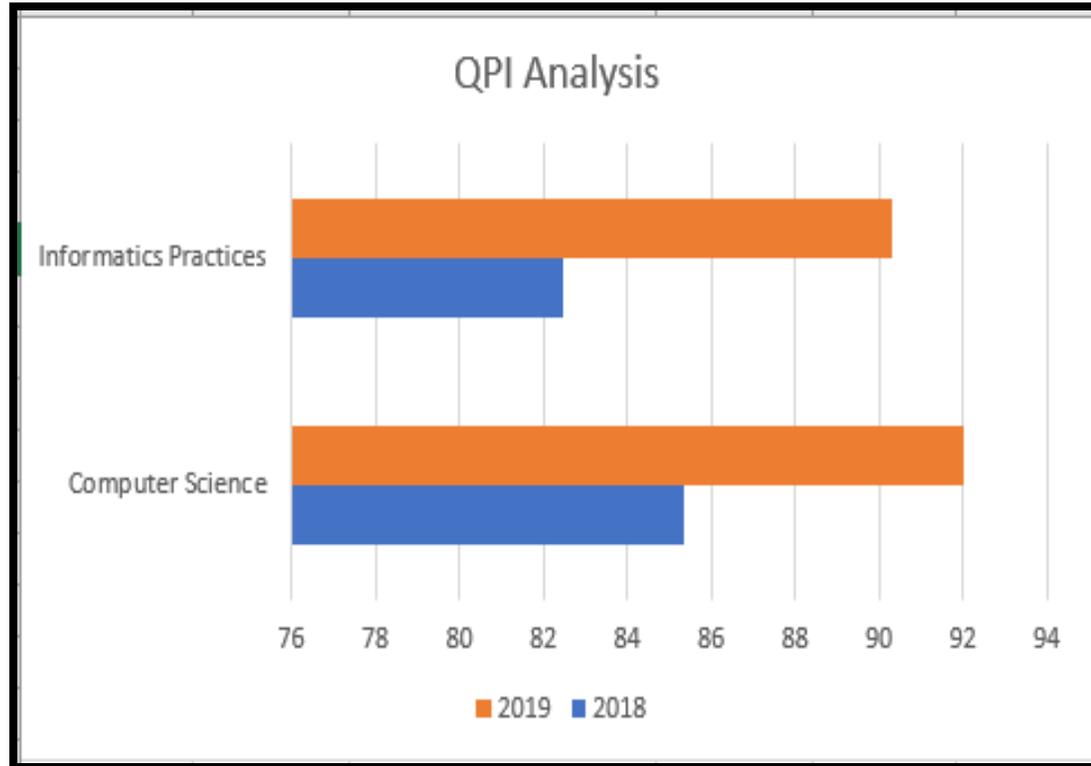
CLICK ABOVE TO VIEW



Swahili Chat Bot

Impact on Student Learning

Enhancing Scholastic Performance



SUMMARY SHEET
COMPUTER SCIENCE 2019

S.NO.	BOARD R.NO.	M/F	STUDENT NAME	SUB CODE	MARKS	GRADE
1	9124261	M	ASHAY GUPTA	83	99	A1
2	9124262	M	ABHI SHARMA	83	96	A1
3	9124263	M	ABHISHEK VERMA	83	95	A1
4	9124264	M	AKSHAT BHATNAGAR	83	95	A1
5	9124265	M	AMAN RAIPUT	83	92	A2
6	9124266	M	ANIKET TYAGI	83	95	A1
7	9124268	M	ARNAV MAHAJAN	83	98	A1
8	9124269	M	BHARAT JAIN	83	100	A1
9	9124272	M	DEEPANKAR ARUN JAIN	83	93	A2
10	9124273	M	DHRUV CHOUDHARY	83	99	A1
11	9124275	M	DISHANT GUPTA	83	97	A1
12	9124276	F	DIVANSHI	83	90	B1
13	9124277	F	GARIMA ARORA	83	97	A1
14	9124278	F	GARIMA BOTHRA	83	96	A1
15	9124279	M	HARSHIT JAIN	83	91	A2
16	9124282	M	MUDIT AGGARWAL	83	93	A2
17	9124283	M	MUDIT BHATT	83	100	A1
18	9124284	F	MUSKAN SAINI	83	92	A2
19	9124285	F	PRAGATI GUPTA	83	96	A1
20	9124290	M	RISHABH JAIN	83	95	A1
21	9124296	F	SMRUTI KANUGO	83	91	A2
22	9124297	M	SOHAM PAL	83	97	A1
23	9124298	F	SRISHTI JAIN	83	90	B1
24	9124300	M	UJJWAL TYAGI	83	91	A2
25	9124301	M	VANDIT AGARWAL	83	95	A1
26	9124302	M	VIBHOR SINGH	83	95	A1
27	9124303	M	VUUT SINGH	83	94	A2
28	9124305	M	YASH BHARGAVA	83	98	A1
29	9124306	M	YASH VARDHAN	83	99	A1
30	9124307	M	MANANDEEP SINGH SALLUA	83	98	A1

TOTAL NUMBER OF STUDENTS HAVING 90% AND ABOVE C.SC = 30

SUMMARY SHEET
INFORMATICS PRACTICES 2019

S.NO.	BOARD R. NO.	M/F	STUDENT NAME	SUB CODE	MARKS	GRADE
1	9124433	F	PAVNEET KAUR	65	90	B1
2	9124439	M	JAISH GHORAWAT	65	95	A2
3	9124440	M	GAUTAM DUA	65	94	A2
4	9124442	F	GFETANJALI SACHDEVA	65	99	A1
5	9124443	M	PARTH GUPTA	65	91	B1
6	9124447	M	VINAY MITTAL	65	95	A2
7	9124451	F	RIA CHAKRABORTY	65	97	A1
8	9124453	F	VANSHIKA SINGH	65	95	A2
9	9124454	M	UTKARSH PARASHAR	65	90	B1
10	9124462	M	MAYANK SHARMA	65	91	B1
11	9124475	F	ANAGHA RAMAN	65	98	A1
12	9124477	F	AARUSHI KAPOOR	65	93	A2
13	9124478	F	CHITEE PARESH LELE	65	99	A1
14	9124482	F	KRITIKA RASTOGI	65	95	A2
15	9124484	F	NISHIKA SARKAR	65	92	A2
16	9124485	F	ODRVI BHATEJA	65	91	B1
17	9124491	M	SHUBHAM BOSE	65	90	B1
18	9124492	F	SRISHTI PANWAR	65	97	A1

TOTAL NUMBER OF STUDENTS HAVING 90% AND ABOVE I.P. = 18

QPI of CS increased from 85% to 92 %
QPI of IP increased from 75% to 90 %

CS -30 /42 students scored above 90% with 2 perfect 100.
IP- 18/27 students scored above 90%

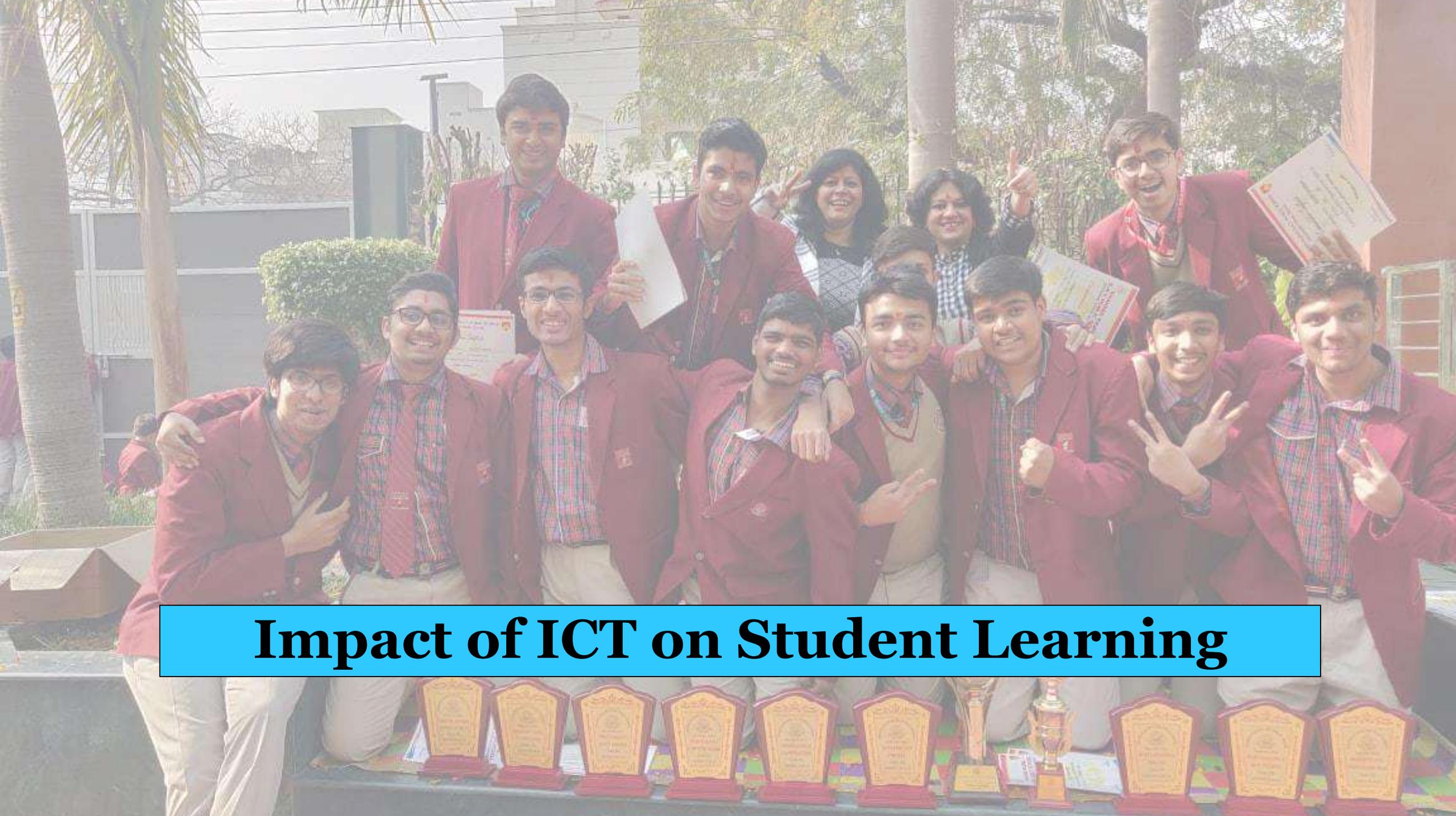
Delhi State Teacher Award



Microsoft Innovative Educator Spotlight

First and only one from India





Impact of ICT on Student Learning

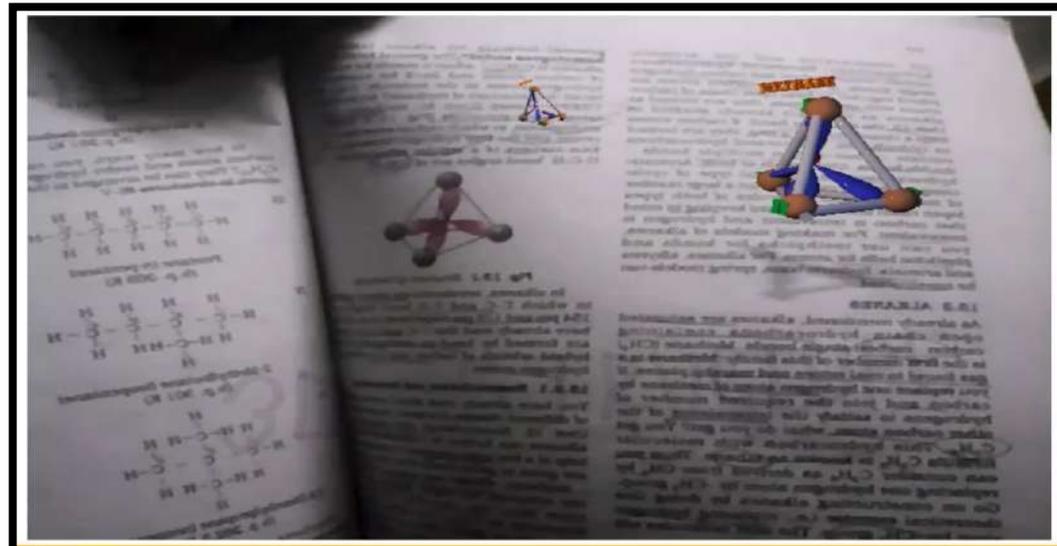
Students as creators of Knowledge



Game programming to address environmental issues: Clean the river



Mobile App Development for numerous socio-economic issues



Immersive Technology(AR) to turn 2D books to 3D



Enabling hassle free arithmetic for Divyang (visually impaired)



A medic nurse Robot able to identify medicine box color and segregate it for target patients.



A maze car which does not collide with any object and is thus accident Proof

Students use Robotics as a tool to address real world problems



Robo FIFA: Soccer playing bots

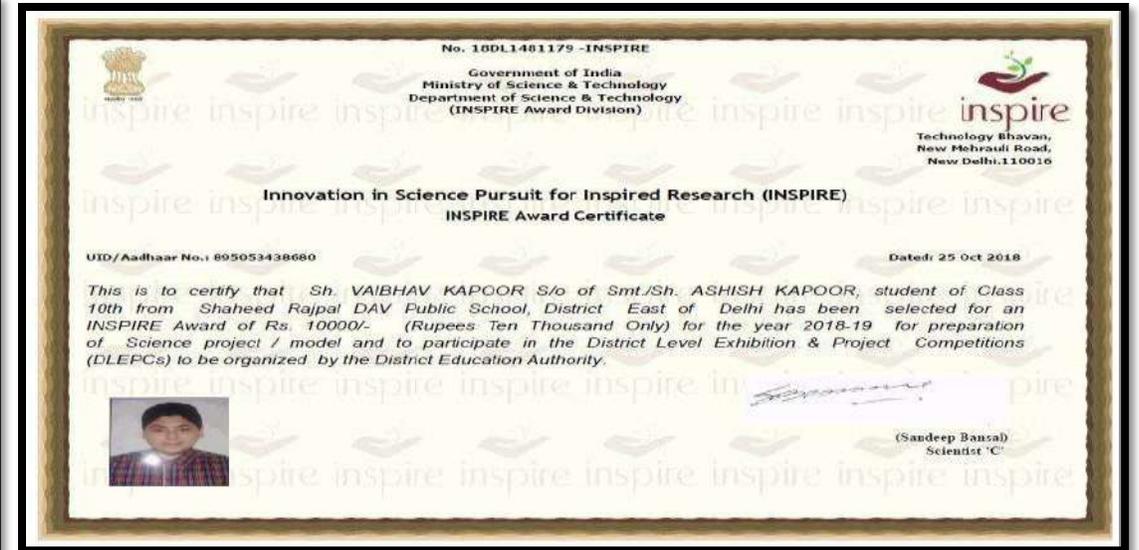


A cleaner Bot : segregates dry waste

Students Achievements



Global Cyber Challenge won by Rohit Tulli presented by Hon'b PM Shree Narendra Modiji-2017



Inspire Award (Ministry of Science and Technology) won by two of my students-2018



National Winners, representing India at International Level, at Louisville, USA-2015



National Champions, International Robotics Championship, Robotics Team 4th Place-Russia, 2019

Students Achievements



Microsoft's AI for Good-National Artificial Intelligence Championship Runners up-2020,



Google Code in World Championship won by Kartik Singhal-2019



E-Raksha National winner-2019



MOS Championship-National Runner Up- Maulik Sehgal-2017



Imagine Cup World Championship won by Bharat Sharma-2016(\$3000)

Contribution at School



Training for Admin Staff



Sambhav: School Entrepreneurship Project



Sanganak: National Level ICT Competition QP



Up Vento: STEM for a sustainable World



Training Teachers in ICT tools

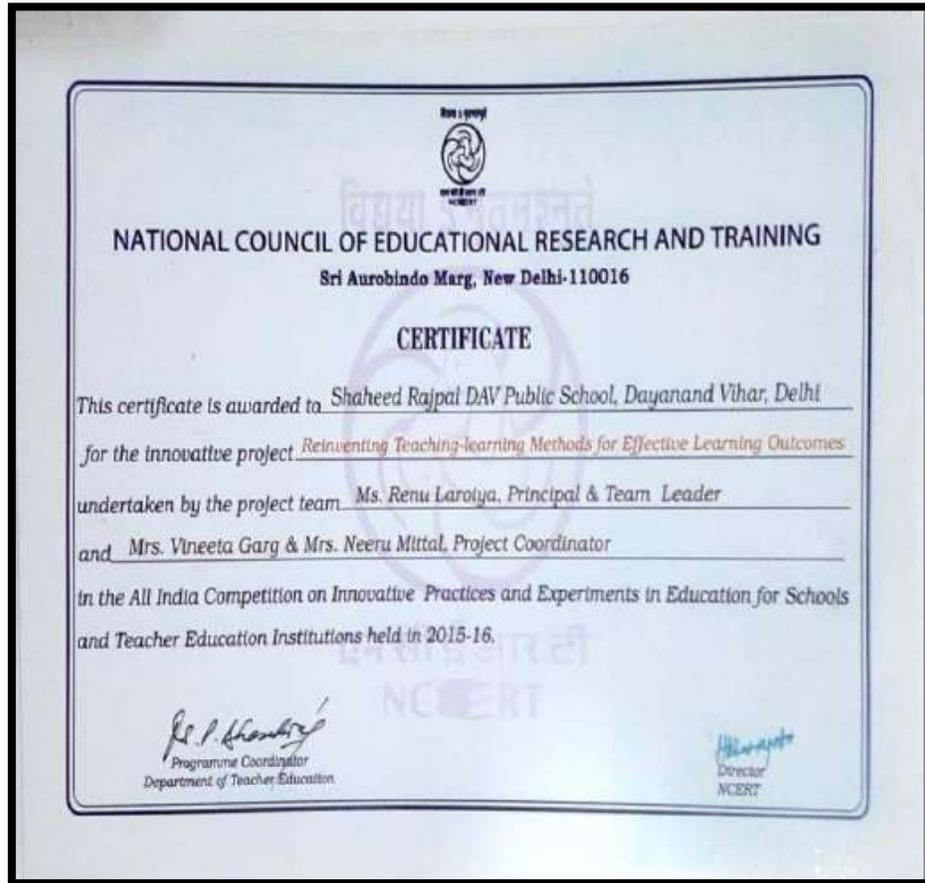


Coding for All: Each One Teach One



Wartex: Intra and Inter School IT competition

School Achievements



Winner, All India Competition for Innovative Teaching Learning Practices organized by NCERT-2015



Winner, Best Silver Business Plan organized by Teach a Man to Fish, International Entrepreneurship competition-2019

School Achievements



Selected among **3 schools from across the world** to feature in the Microsoft Anthem which has a reach of more than **250K** views across the world and is used as a benchmark in **Innovative Education**



Declared as a **Finalist** at the International level in the **Road Safety** Website competition organized by Renault.

Teachers as Master Trainers

The overall use of ICT in teaching learning and a multidisciplinary approach has led **20 teachers** of my school to become **Master Trainers**. They use ICT tools to create resources for their subject and conduct workshops for teachers across the country



Leveraging Technology to Foster Quality and Equity in Education

Education for all: An initiative to bring Quality Education to the underprivileged



Meeting the students in their schools to assess their knowledge



Setting stage for computer education



Ice Breaker: Happiness Classes



Meeting with Block Education officer and teachers



Teaching through Skype; Connecting to Global classrooms to enhance skills



Education for all-Bridging the Digital Divide during Covid

Induction of Teachers and Administrators to Online Teaching

Induction of Students and Parents to Online Teaching-Learning

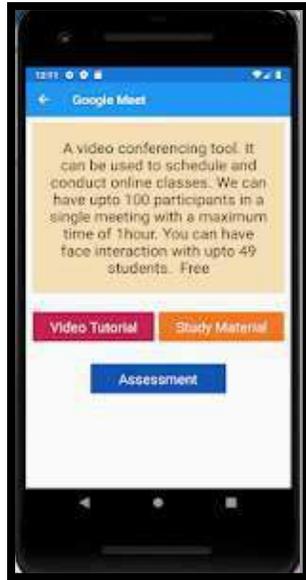
ICT tools Integration

Teachers Conducting Online Classes

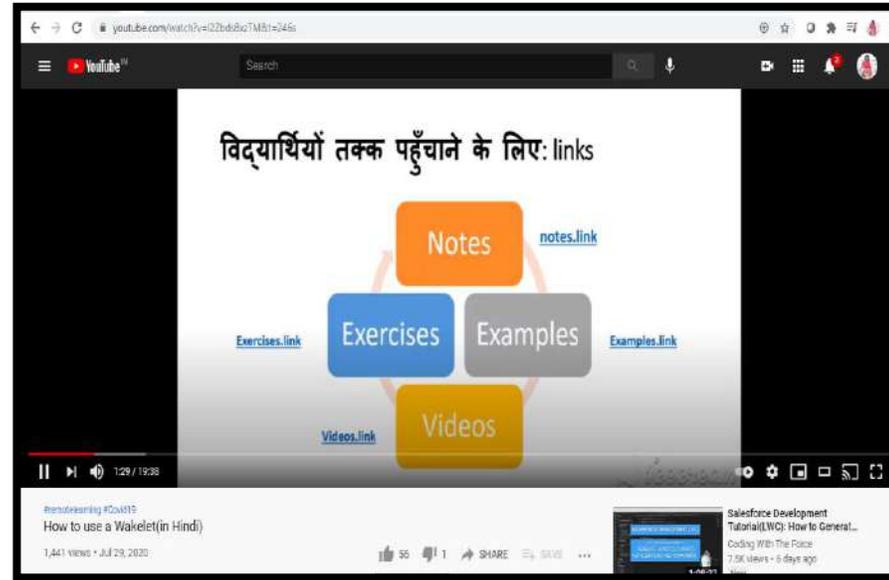
Government of Uttarakhand approves

Recognition to Teachers for encouragement

Education for all-Taking it forward



Mobile App



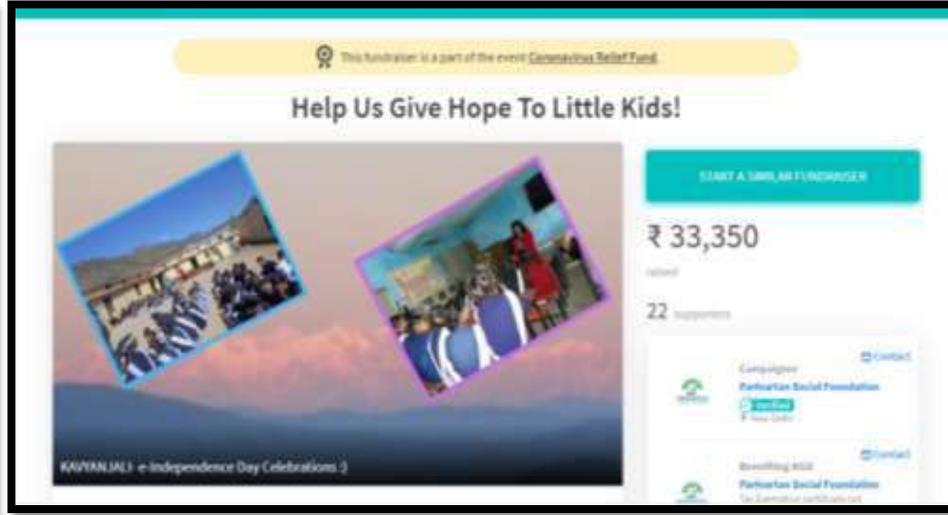
Tutorial Videos for various ICT Tools



Website for students



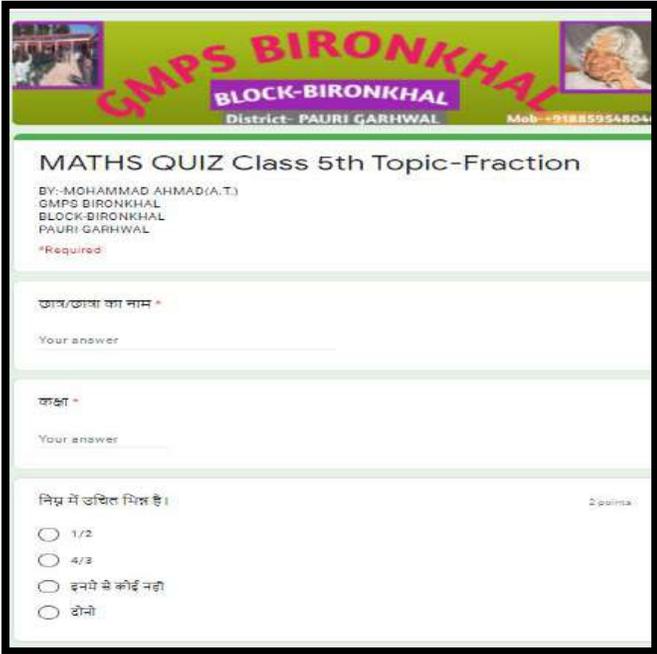
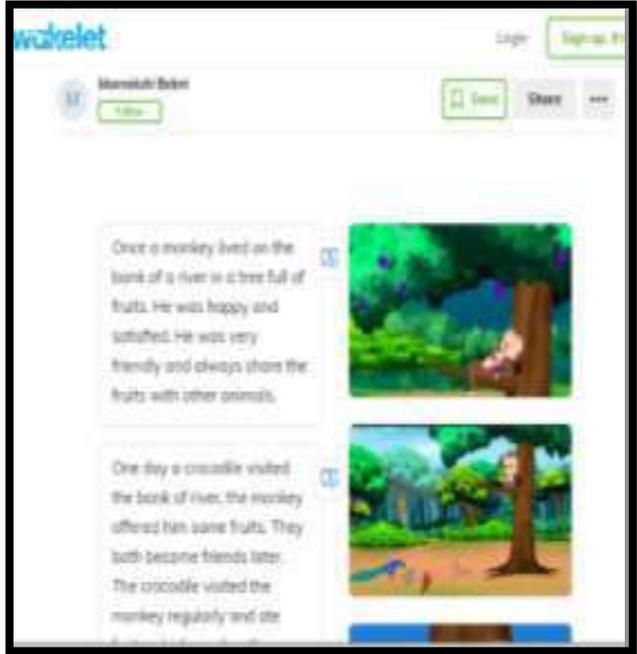
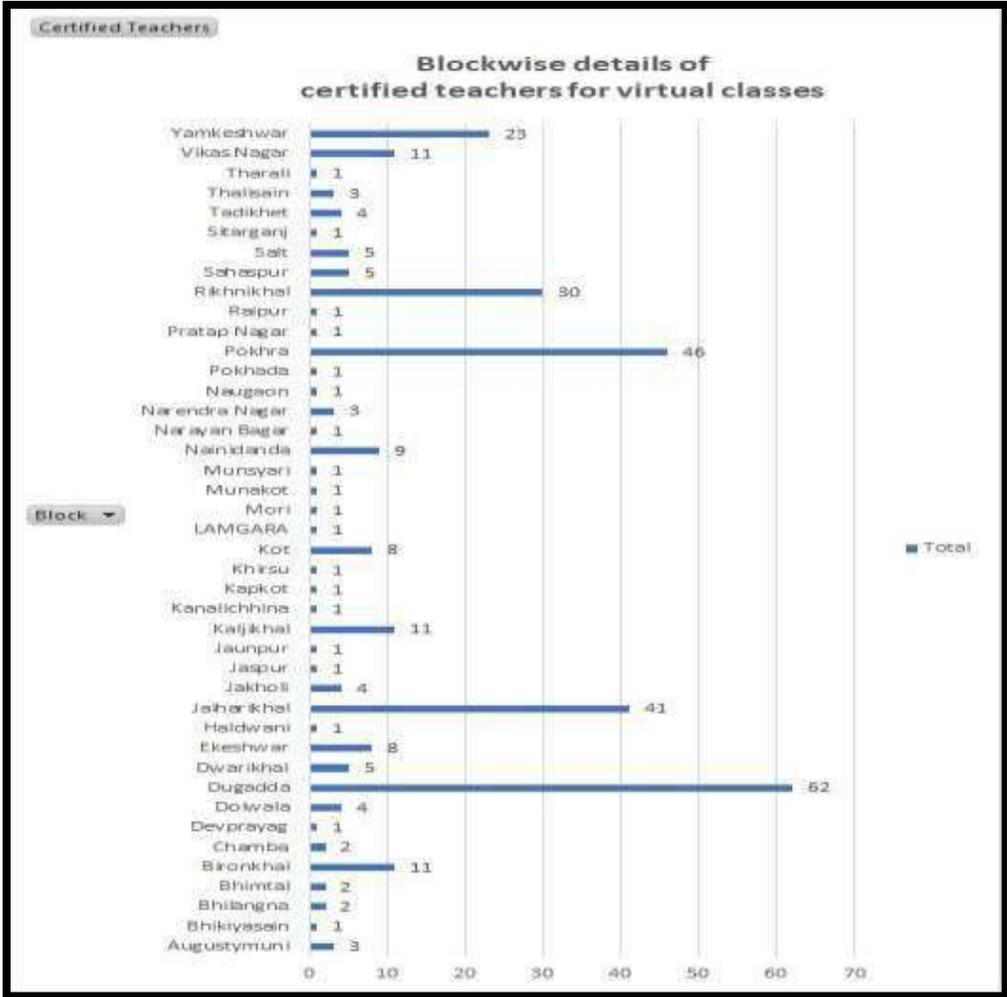
Holding online competitions for students to increase enrollment in online classes. Also used crowd funding to source prizes



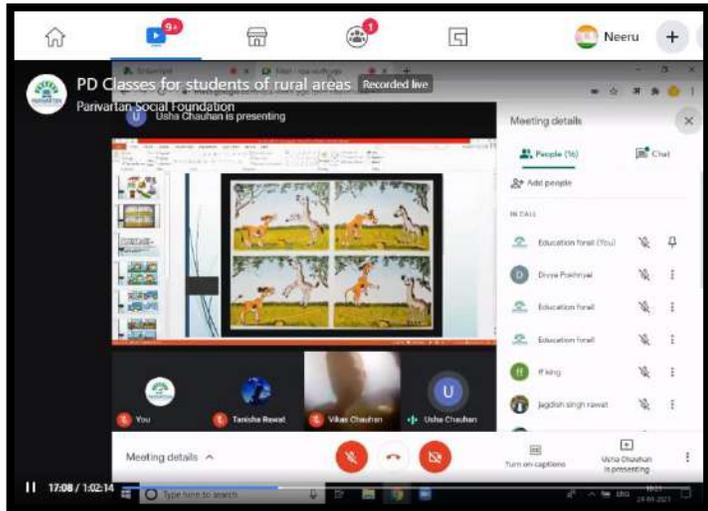
Teachers' competitions and Launched Master of Virtual Class



Education for all-Overall Impact



Teachers are creating their own e-Resources for Students and PD



More and more students are enrolling for the online classes including Personality Development, English Speaking, Global Skype sessions and Career counselling.

Trained more than **1500** teachers till date and impacted more than **20k** students

Education for all-Technology Integration in nearby Government schools in UP



Hands on Computer classes for students



Distributing ICT books for students



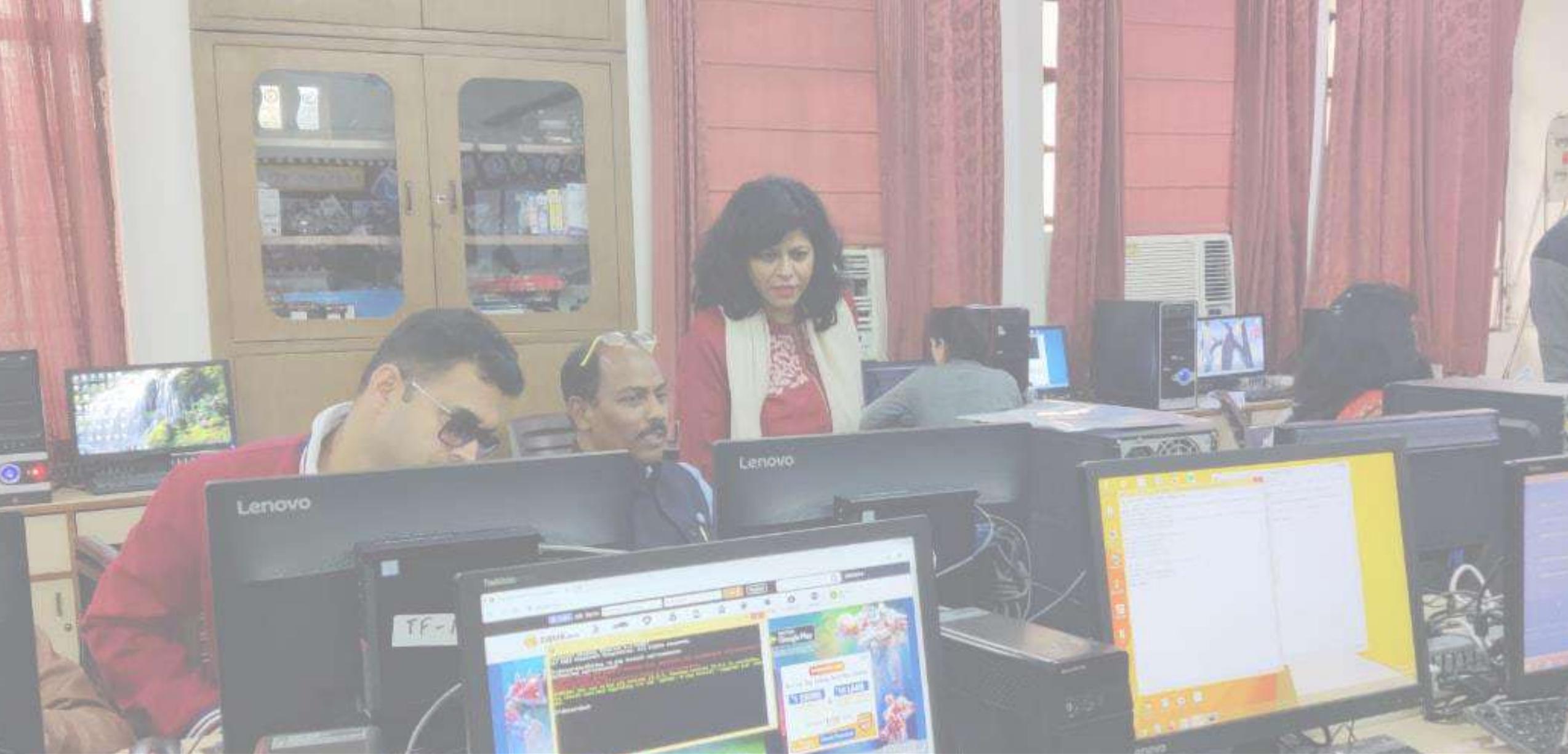
Students collaborating on Climate Action Project with classes globally



English classes through Video Conferencing



Enhancing Geography through Mystery Skype



Professional Development and Contribution Using ICT

Professional Development: Empowering self



Courses on the Diksha and Swayam platform



eRaksha Competition by NCERT



MyNEP quiz



Google ICT courses



Microsoft Certified Educator

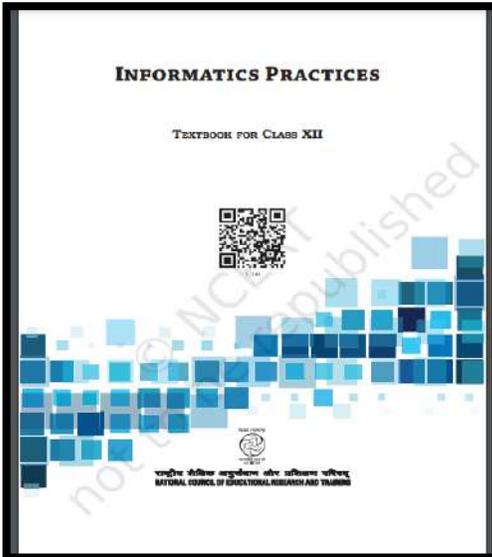


More than 150 courses on MEC

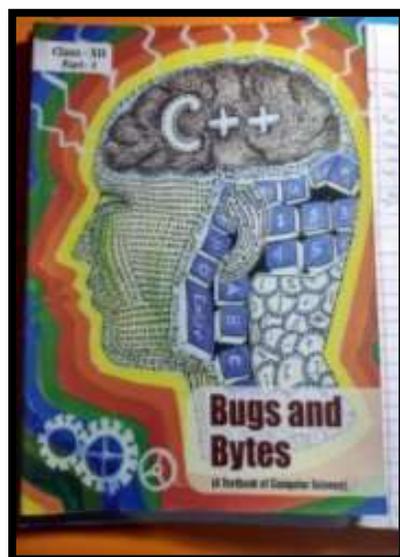


Numerous Educational workshops by national/international organizations.

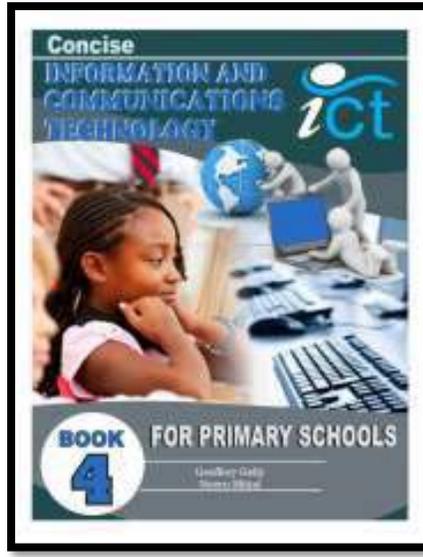
Scholarly Contributions



Class XII IP, NCERT



Class XI & XII CS, DAVCMC



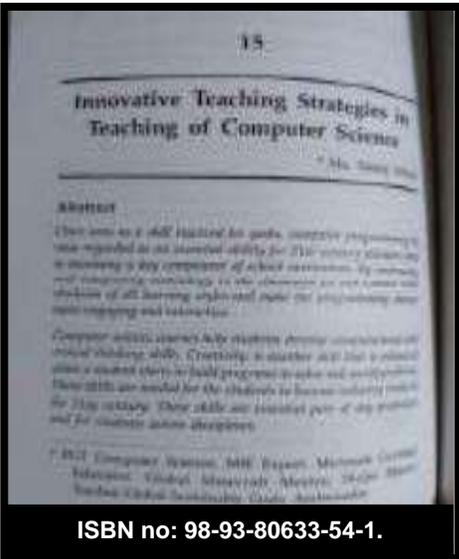
ICT books, Ghana



Basic Programming, DAVCMC



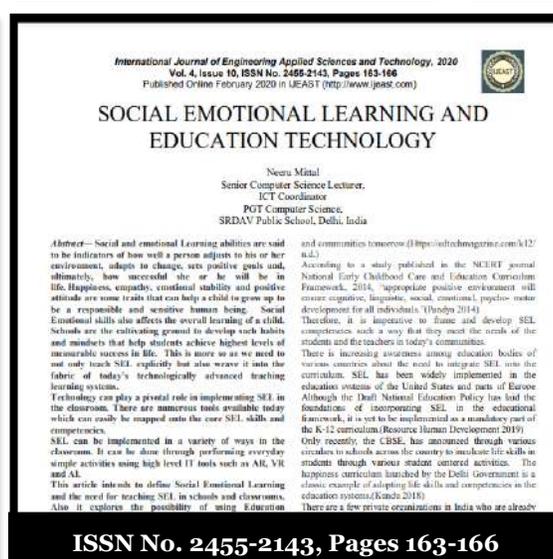
Various Educational Articles



ISBN no: 98-93-80633-54-1.



ISBN No: 978-93-5406-158-5



ISSN No. 2455-2143, Pages 163-166



Articles for various Online Educational Blogs



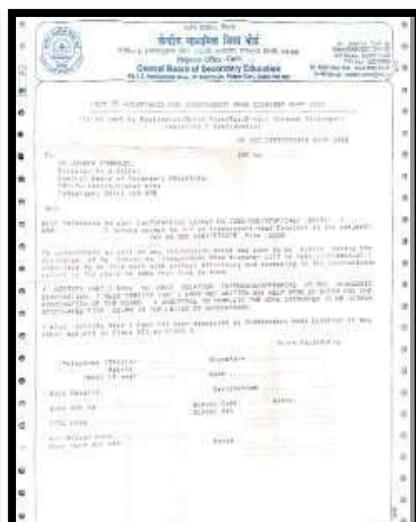
Research Articles printed in various print and online media

Professional Development : As a Resource Person



NCERT: Innovative Practices and Textbook Development Workshop

SCERT: ICT in Schools of Delhi, study



CBSE: Syllabus Committee, Resource Material development, Examinations

DIET: ICT resource material and Web Tools Development

Peer Professional Development : As a Mentor

Stay Safe from #COVID-19 and Learn at home

JOIN US ON WEBINAR

Live interaction on

Classroom Without Boundaries Through skype

4:00pm - 5:00pm
01 May 2020

Speaker

Ms. Neeru Mittal
PGT, SRDAV Public School, Delhi

Watch in NCERT official YouTube channel

For further information visit: <https://ciet.nic.in/pages.php?id=webinar>

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NCERT Official

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PROFESIONAL SOCIAL CRITICAL LEARNING IN CLASSROOM

NEERU MITTAL
PGT, SRDAV PUBLIC SCHOOL
DAYANAND VIHAR, DELHI

Hosted by Jio TV



Serial No: CBSE/TRD/Online Session/2020/054 Date of issue: 20.10.2020

श्री/श्री. नरु मिट्टल, प्रिन्सिपल
CENTRAL BOARD OF SECONDARY EDUCATION

Letter of Appreciation

We appreciate the contribution of **Ms. Neeru Mittal** from SRDAV Public School, Dayanand Vihar, Delhi as Resource Person for CBSE Online Training Session with following details:

Date: 11.05.2020
Time: 4-5 PM
Topic: Pedagogical Creativity Unplugged in Python
The session was organised by the Centre of Excellence, Allahabad

Neeru Mittal
Head/Incharge CoE Allahabad

Dr. Bhaswati Saha
Dr. Bhaswati Saha
Director (Skill Education and Training)

Educational Technology Workshop for NCERT

Life Skills and Technology workshop at SCERT

ICT Workshop for DIET

Python Training workshops for CBSE



Training International Teacher community

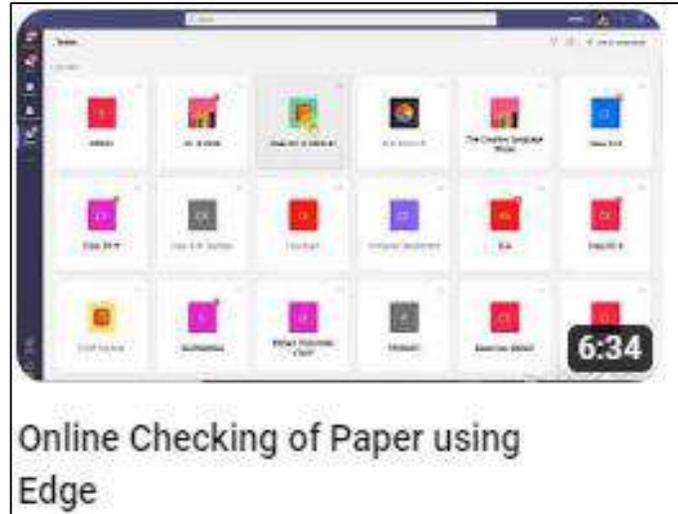


Training subject teachers at National/State level as Master Trainer



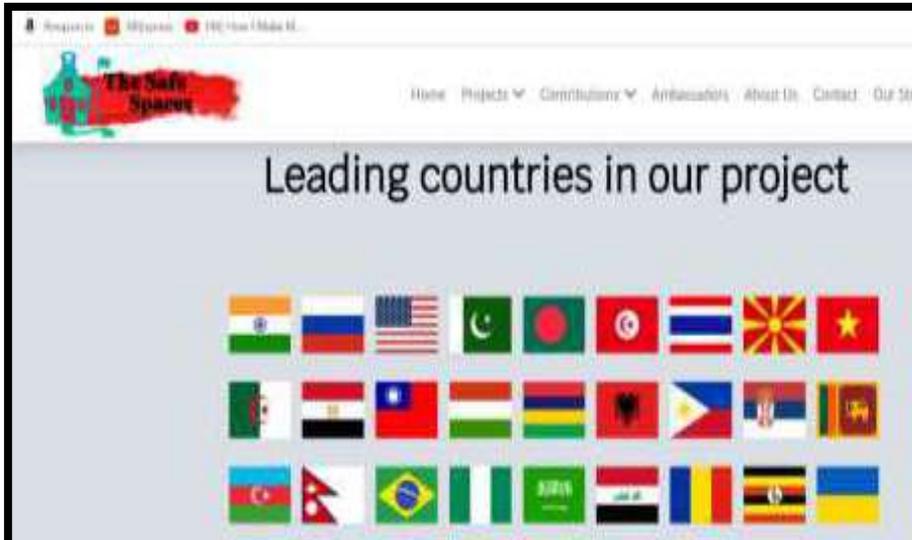
Peer Training

- Created self explanatory You Tube videos to help the teaching academia on how to use various tools for effective online teaching and evaluation.
- More than 25k beneficiaries.



Addressing Global Issues through International Projects

Self initiated projects which have impacted over 15K students from 600 schools from more than 45 countries



Safe Spaces: Addressing Violence In schools



Multilingual Project : Breaking Language Barriers

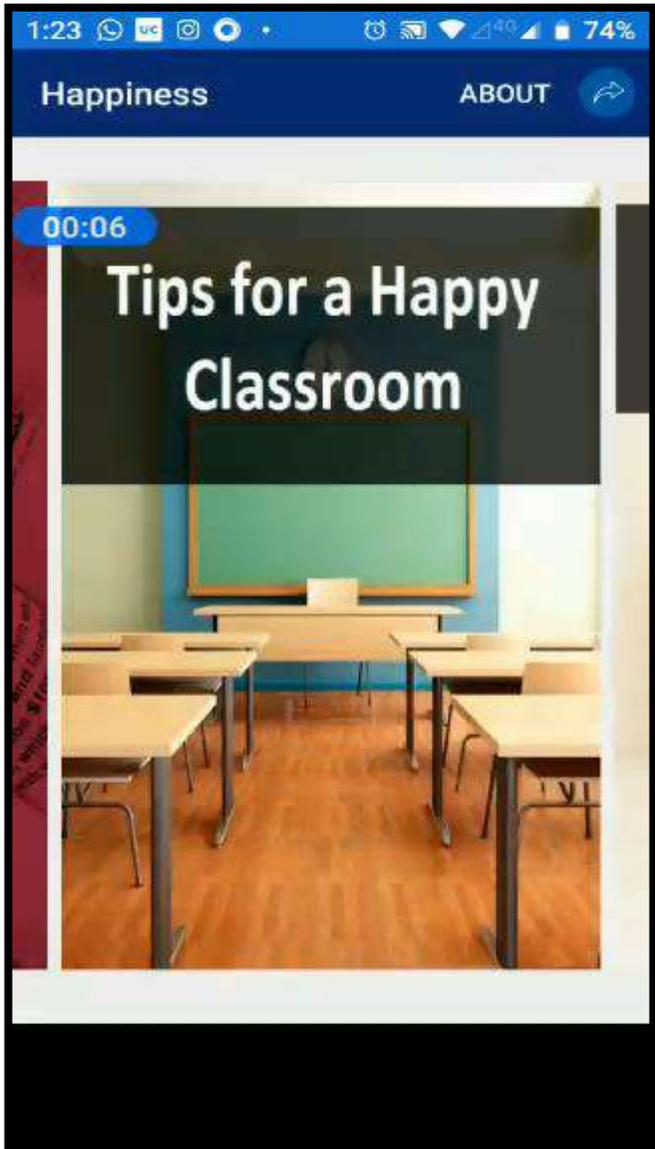


Addressing Food Sustainability



Tweet Chat: Moving towards the SDGs

Hacking Happiness-Happiness App



[CLICK ABOVE TO VIEW](#)

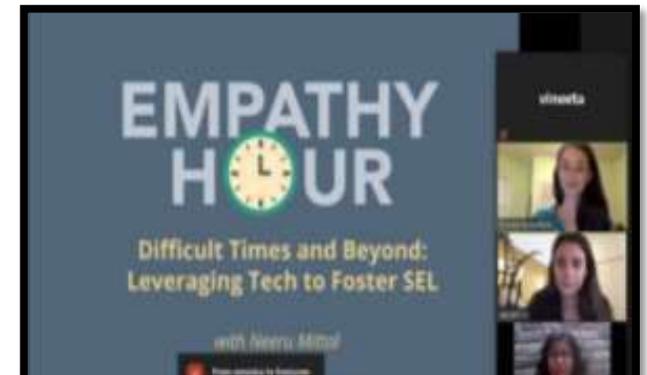
Mental Health and Emotional Well Being: Contributions to the International Academia



Created e-resources for International SEL conference by MindUp



One of the four teachers whose activity has been integrated by Microsofts SEL Resources



Session for Empatico



Session for SEL Karanga

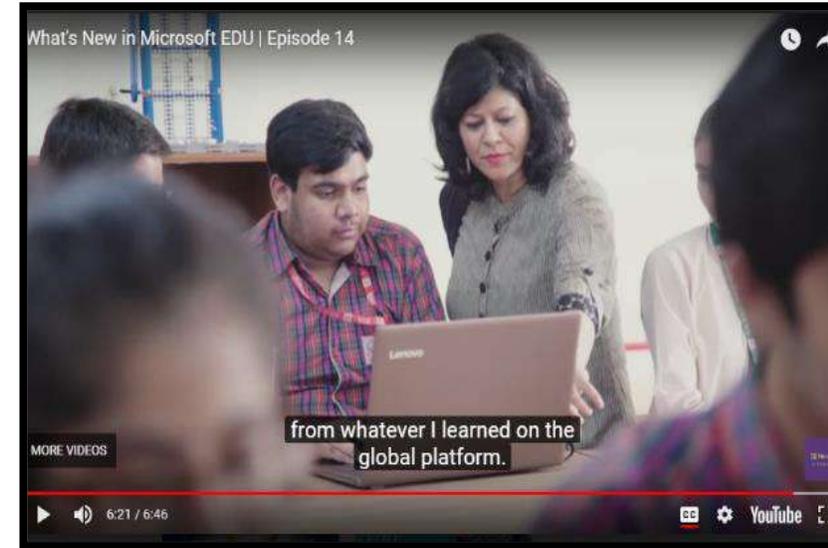
Growth as A Teacher



Delhi State Teachers' Award-2019



Won National Adobe Teachers Competition, awarded Adobe National Educator



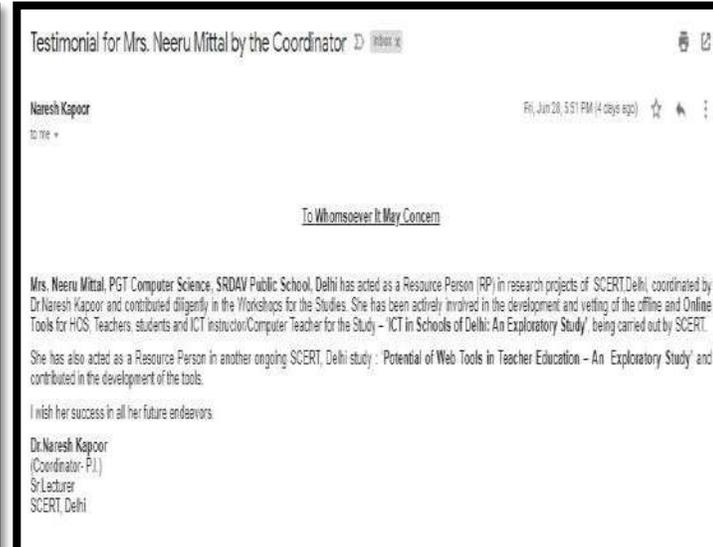
Microsoft Innovative Educator Spotlight Series, 2018(Only one from India)



National e-Innovation Award-2017



Represented India at Educator Exchange –Singapore-2018



Appreciation Letter by SCERT

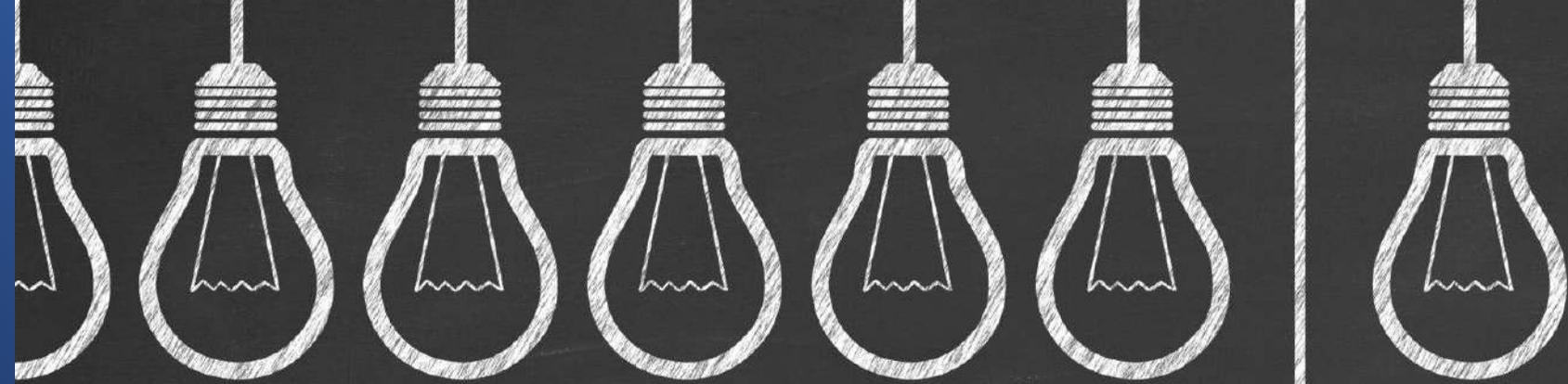


Commendation Letter for excellent results by MHRD

National ICT Award-2019



School Atal Tinkering Lab Incharge & Innovation Council Ambassador



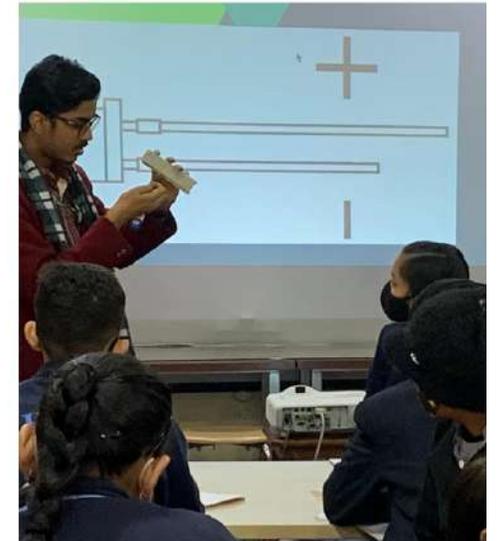
1. **ATL Wall of Fame** for two consecutive months
2. AIR 17 overall in the **National All Rounder Championship, 2022.**
3. **ATL of the month** for twice.
4. School won Robotics Championship, student filed for a patent
5. **Top 350 overall in ATL Marathon, 2021-22.**
6. Top 100 Entrepreneurship team.
7. The ATL lab featured among the best labs in the country out of more than 10000 labs

Students as mentors for training junior Tinkerers



SRDAV ATL

STUDENT AS
MENTORS



Exemplary Teachers of Change 2022



Congratulations ATL in charges!
You have ensured that your ATLs are some of the best in the country. Please keep up the good work.

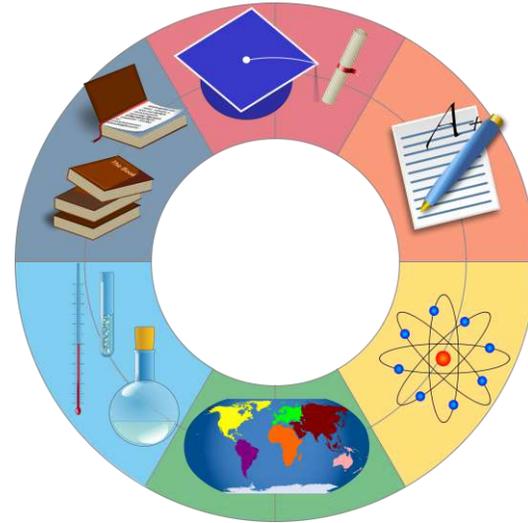
SL No.	SCHOOL NAME	ATL Code	ATL INCHARGE NAME	STATE
72	KANCHI SRI SANKARA ACADEMY MATRICULATION HIGHER SECONDARY SCHOOL	34bc5244	P. RAJESH KUMAR	TAMIL NADU
73	DCM PRESIDENCY SCHOOL	a7229109	RAMEETA VASUDEV SHARMA	PUNJAB
74	Shaheed Rajpal DAV Public School	33	MANDEEP SINGH SANDHU	PUNJAB
75	Shaheed Rajpal DAV Public School	45	MR SACHIN GUPTA	PUNJAB
76	Shaheed Rajpal DAV Public School	29	MR PRINCE SHARMA	JAMMU AND KASHMIR
77	SHAHEED RAJPAL DAV PUBLIC SCHOOL	283f12158	NEERU MITTAL	DELHI
78	BHAVAN'S VIDYA MANDIR	a8ac5369	VIJAYACHANDRAN	KERALA
79	ST PETERS SENIOR SECONDARY SCHOOL	3cbc3995	ANISH MOHAN	KERALA

Exemplary Teacher of Change-2022

Awarded by Atal Innovation Mission- Niti Aayog, Government of India



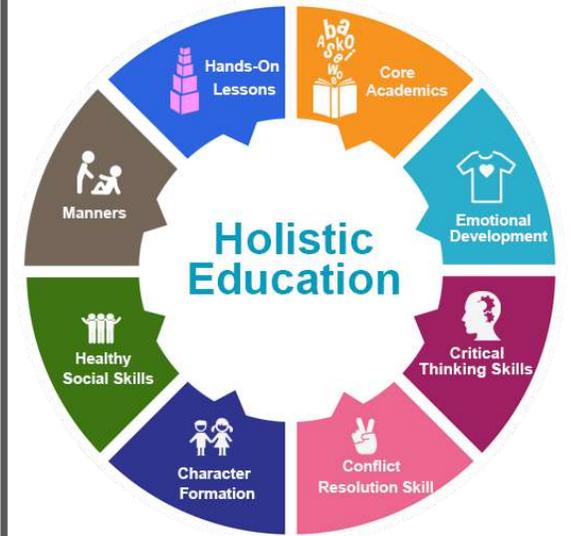
Knowledge Based Society



Quality Education



Inclusivity



Holistic Education

Future Plans

Using the power of technology to create opportunities for equity and quality in education , inclusivity and imbibe life skills in students