

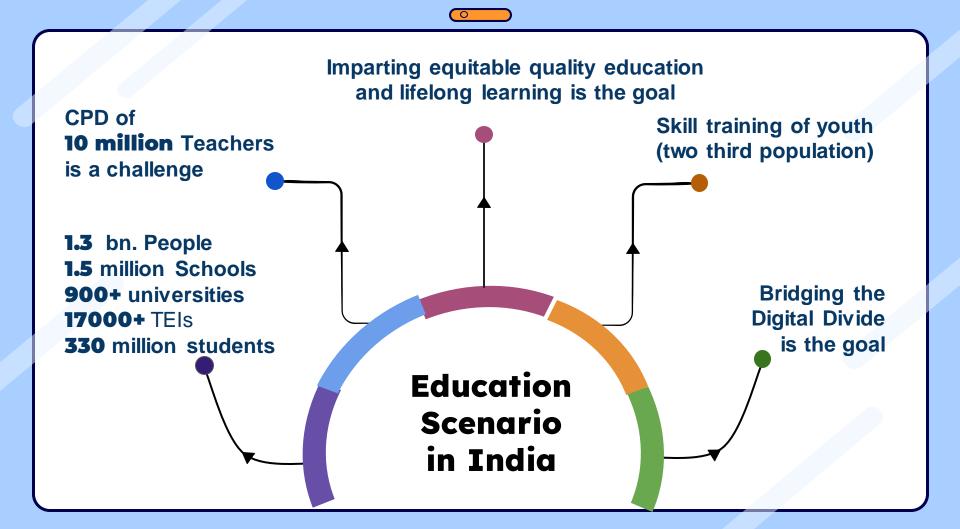




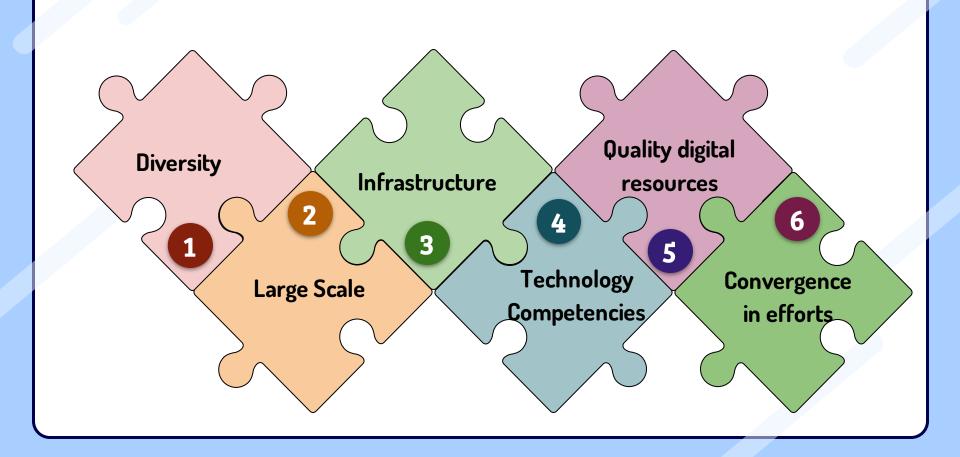


Use and Integration of Information & Communication Technologies (ICTs) in Education

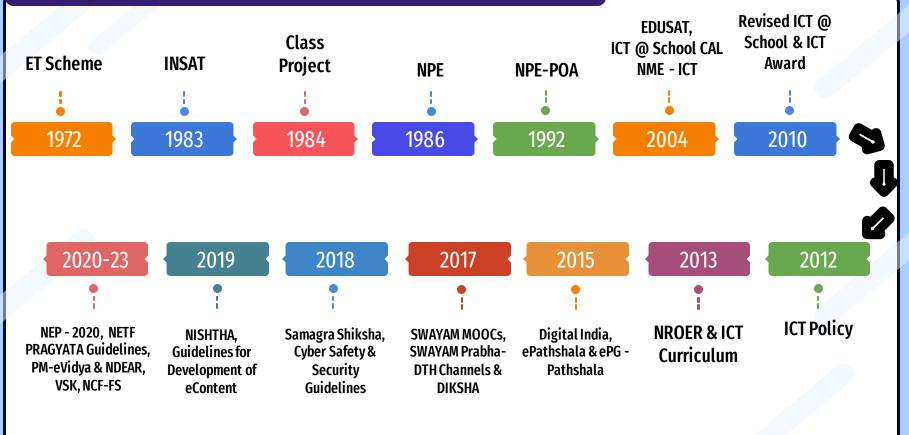
Central Institute of Educational Technology(CIET) National Council of Educational Research and Training (NCERT) (An Autonomous organisation set up by Ministry of Education, Government of India)



Issues & Challenges of Implementing Technology in Education



ICT Use in India: Policy Directions



NEP 2020 - Thrust of Technological Interventions

Teachinglearning & evaluation processes

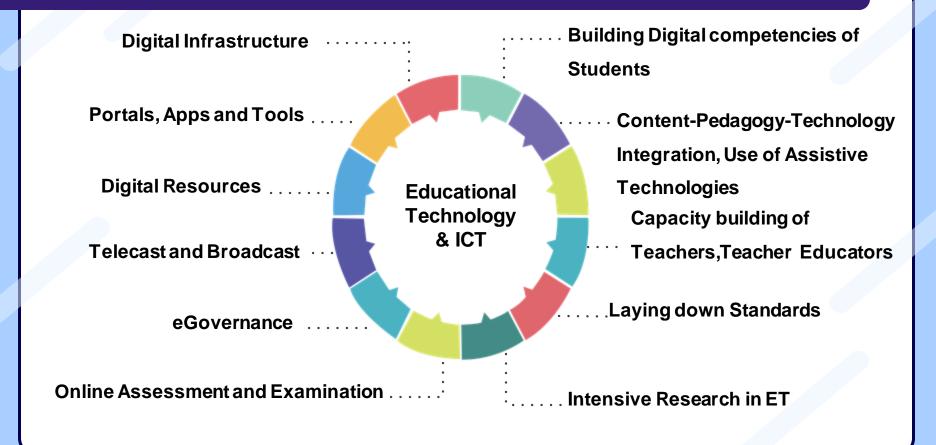
Supporting teacher preparation & professional development Enhancing educational access

Streamlining educational management and administration

Removing language barriers

Access to Divyang students

NEP-2020: Recommendations for Online and Digital Education



https://www.menti.com/alyh4yo72n2q

Major Digital Initiatives

 \bigcirc



Vidya Samiksha Kendra (VSK)

Vidya Samiksha Kendra : helping us see & monitor policy implementation and drive reforms



https://diksha.gov.in/

Continuous Professional Development (CPD)



42 Lakh (Ele), 7.2 Lakh (Sec), 12.6 Lakh (FLN), around 1.2 Lakh (ECCE)

3,67,657 Certificates issued

- Digital Literacy
- Motivation
- Responsibility
- Data
- Incentives

3,70,000 enrolled including students, teachers, parents and civil service aspirants



4 Lakh + Certificates issued

Platforms: MOODLE, SUNBIRD, OPEN edX, Google Course Builder

NISHTHA





NISHTHA (Elementary Level)

NISHTHA (Secondary Level)



NISHTHA for NIPUN Bharat



NISHTHA (ECCE) (**Ongoing**)

18 Courses	12 Courses	10 Courses	06 Courses
30 States/ UTs and 7 autonomous organisations under MoE and MoD	33 States/UTs and 8 autonomous organization under MoE, MoD and MoTA	33 States/UTs and 5 autonomous organizations under MoE	29 States/ UTs initiated POs, CDPOs, Supervisors, DIET faculty from DRU for NFE & AE
11 language - Assam, Bengali, Bodo, English, Kannada, Hindi, Telugu, Odia, Gujarati, Punjabi, Urdu	10 language - Hindi, English, Urdu, Gujarati, Punjabi, Telugu, Kannada, Bengali, Marathi and Odia	11 language - Hindi, English, Urdu, Gujarati, Punjabi, Telugu, Kannada, Odia ,Bengali, Marathi and Mizo	2 languages - Hindi , English
42 Lakh	7.2 Lakh	12.6 Lakh	Target -1.2 Lakh

https://nishtha.nic.in/

Virtual Labs



200+ Virtual Labs

Glimpses of AR, VR labs and Experiential learning center

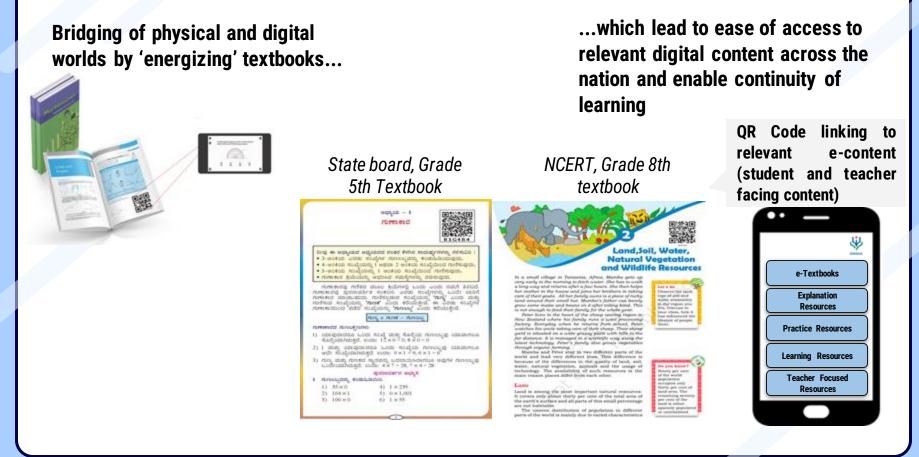




Glimpses of AR, VR iabs and Experiential learning center

https://diksha.gov.in/virtuallabs.html

Phygital



0

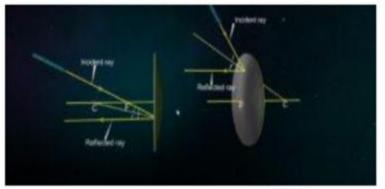
Augmented Reality (AR)

Augmented Reality (AR) 3D simulation for Science Education



food, before being pushed down into the food pipe. Salivary glands: The saliva contains an enzyme ca alivary amylase that breaks down starch which is a complex molecule to give simple sugar. The food is thoroughly with saliva and moved around the mouth while chewing by the muscular tongue.





https://play.google.com/store/apps/details?id=com.ncert.ARApps&hl=en_IN&gl=US&pli=1

Experiential Lab

 $\overline{}$

Glimpses of AR, VR labs and Experiential learning center

Experiential Learning Centre Developed in collaboration with Jubilant Bhartia and Ganpat University

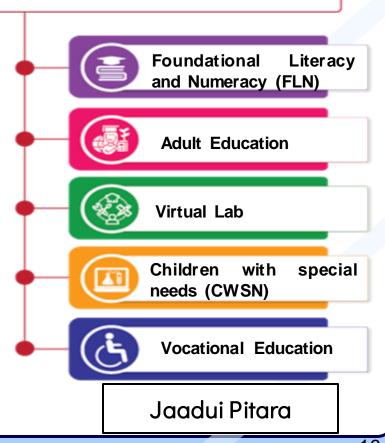




DIKSHA



- Repository of Open Educational Resources
- Collaborative Platform
- Curriculum-aligned
 content
- Analytics
- Multilingual support
- Offline access



DIKSHA





6500+ETBs by States / UTs



3,12,930+ eContent



9300 + eCourses



31.2 million page hits on daily basis



Supports36languagesIncluding22scheduledlanguagesandindiansignlanguages(ISL).

https://diksha.gov.in/

DIKSHA



DIKSHA's building blocks were used for multiple use cases



Energised Textbooks



Content Sourcing



Content Consumpt ion



Teacher Professional Development

Content

Authoring

&



Quizzes

Question

Bank



Data Tools Chatbot Dashboards



Vidya Samiksha Kendra - CCC

System to monitor, mentor,

manage the whole ecosystem







Digital Credentials

Collaboration



Phygital





cQube

Surveys

Language Translations



Mentoring

Sunbird Registry and Credentials

CIET - NCERT develops...





eContents

eContent in curricular and generic areas various Indian Languages

P

Age appropriate content for various stakeholders - Students, Teachers, Teacher Educators, Parents etc

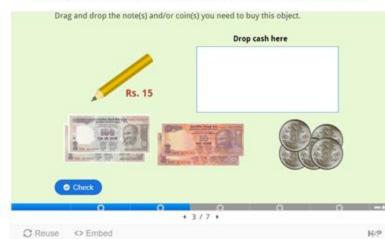
٢

Universal Design of Learning (UDL) based content



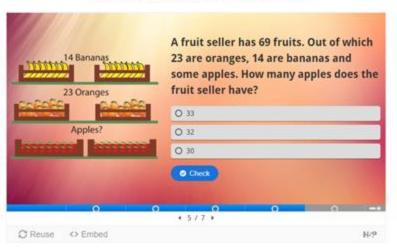
Collaboration and Partnership

Game Based Learning



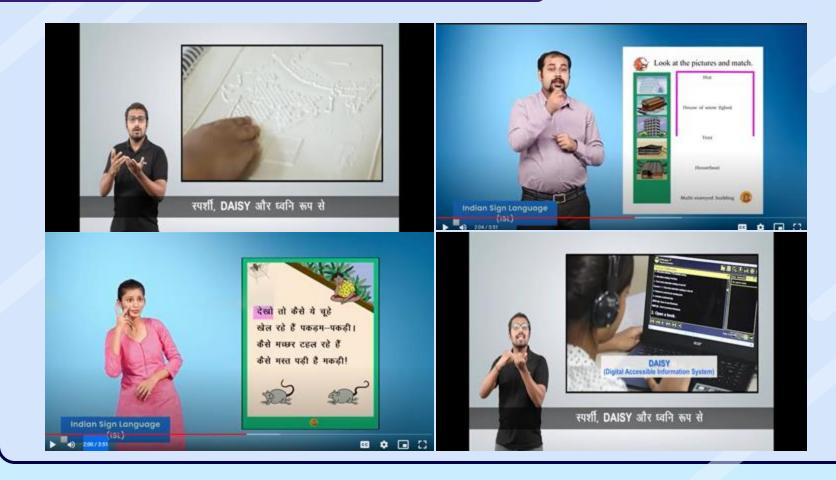
Place Value(Ones, Tens and Hundreds)

Addition and Subtraction



http://itfdigitalgames.ncert.org.in/

eContents based on UDL



ePathshala





19,29,88,268 visitors on Portal # 30 M users in UMANG

App Rating

- 4.3 on Google play store
- 3.5 on Apple Store

App downloads/Users

- 55,47,565 on Google
- 21,61,272 on Apple

Total Books as ePub: 608# Total no of Flipbook: 539

https://https://epathshala.nic.in/

Dissemination through Educational Apps

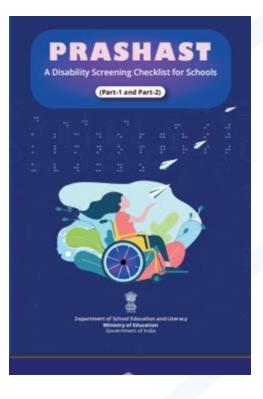


PRASHAST









https://play.google.com/store/apps/details?id=com.dscs.app&hl=en_IN&gl=US&pli=1

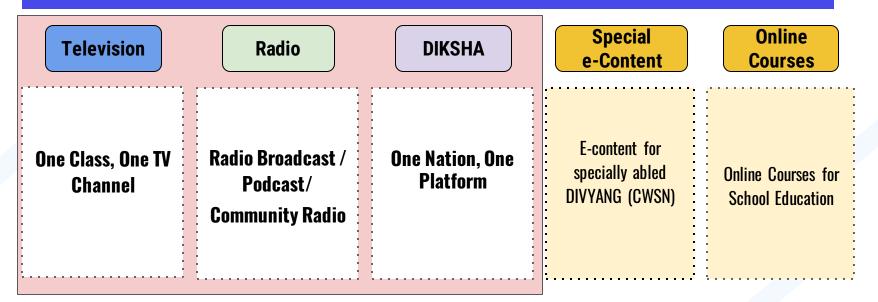
https://ncert.nic.in/pdf/DSCS_booklet.pdf

PM e-VIDYA

 $\overline{}$

PM e-VIDYA focuses on unification of efforts, enabling multi-mode access to education

PM e-Vidya focuses on developing multi channel learning continuum



DIKSHA, Television and Radio are the focus of discussion for resilient and coherent access

NCERT has leveraged DIKSHA to enable Coherent Access



0

Present status of PM eVIDYA 12 DTH TV Channels



6,789 video



5,416 Live Show

based on AAC

Covering 3435.5 hours

Both in English and Hindi medium for classes 1-12



4,247 ISL Programmes

ISL video lessons telecast



9,422 Content Reviewed NCERT, NIOS, NVS, RILM, States/UTs



3,994 pieces of curriculum-based radio programmes broadcasted on 398 Radio Stations & 2,557 live sessions on iRadio and JioSaavn Mobile apps

Television



12 DTH TV Channels on 24×7 basis daily and simulcast on Jio TV App, Private cable operators, YouTube channel etc.



6,903 curriculum based videos developed for school education in English, Hindi including Indian Sign Languages (ISL) including vocational education



One hour live session for each class for clarification of doubts



IVRS support for addressing queries of students



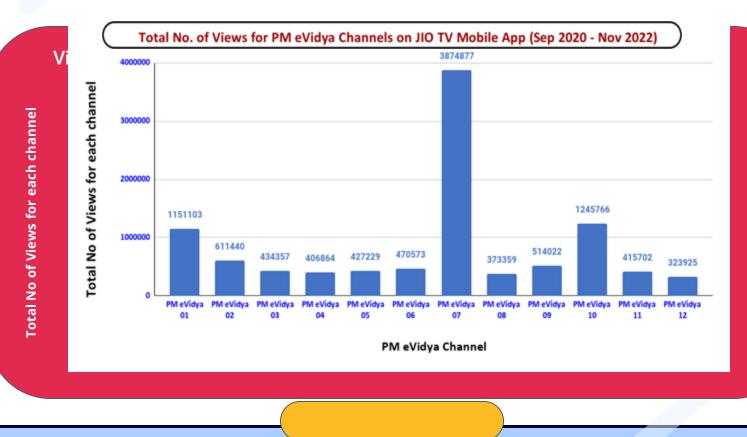
Radio





Viewership details

PM eVIDYA Channel



 \circ

Feedback Mechanism





IVRS, Email & WhatsApp Group

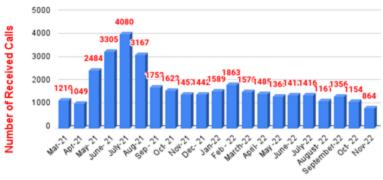


Radio Broadcast



TV Telecast

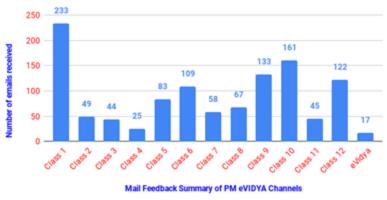
- Email: **1,182** Emails received
- PM eVIDYA IVRS no. (8800440559)- **40,949** calls received
- Manodarpan IVRS no. (8448440632)- **23,714** calls received



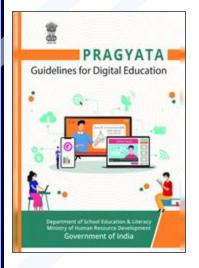
Month-wise PM eVidya IVRS Calls Status

Month

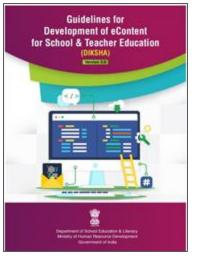
Feedback received through emails for PM eVIDYA 12 DTH TV Channels



Standards & Guidelines for Digital Education



<section-header><text><text><section-header><text><text>





Cyber Safety Guidelines

English











Hindi



https://ciet.nic.in/pages.php?id=booklet-on-cyber-

International Collaboration



Trained master trainers of Mauritius on developing and disseminating OER, Developed a portal and mobile app



School Online Programme - Collaboration between Indian and Israel Schools



Trained master trainers of Nepal on developing and disseminating eContents and OER



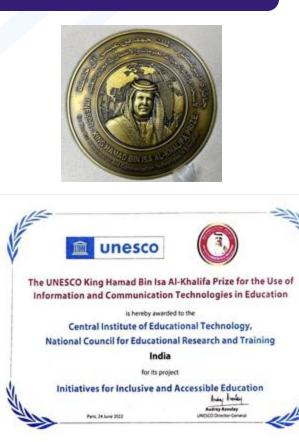
School Online Programme - Collaboration between Indian and Korean Schools



Shared eContents developed by NCERT

Appreciations











for trailblassy digital inmative and evention in the category "Education"

DIKSHA

ignal Infrastructure for Knowledge Sharing)



