DIGITAL Initiatives Of Assam

DIKSHA, Assam

The world wide COVID-19 pandemic has thrown education into disarray. Students have suffered a lot during the pandemic.

For reaching out the students through alternative arrangement to bridge the learning gaps and loss of academic days, different digital initiatives have been initiated.

DIKSHA platform is extensively used for providing academic support to the students through online mode during pandemic period.

In Assam, DIKSHA, portal is used as-

e-content Repository

- Around 5500 e-contents are uploaded on DIKSHA, Assam portal
- E-contents are created in different formats-Audio, video, practice resources, interactive contents
- e-contents are created in 5 mediums- Assamese, English, Bodo, Bengali, and Hindi.

e-Content creation platform

- 1500 Practice Resources and Interactive content are created by teachers and teacher educators of Assam on inbuilt software of DIKSHA Platform
- Teachers were trained during covid pandemic to create content on DIKSHA Platform

In Assam, DIKSHA, portal is used as-

Energized Textbook creation platform

- 152 textbooks are being Energized with 2564 QR Codes.
- QR Codes are incorporated on each lesson of the textbooks.
- 113 textbooks of Elementary level, 33 textbooks of Secondary level and 6 textbooks of Higher Secondary level

Online Teachers' Training Platform

- Online CPD Course NISHTHA is implemented through DIKSHA, Assam.
- **Elementary** -**18** Online Courses (in four mediums)
- **Secondary**-**13** Online Courses (12 generic courses are in English medium and pedagogy courses are in 6 mediums)
- **FLN**- **12** Online Courses in 5 mediums

DIKSHA, Assam

- Digital Contents are uploaded for subjects- EVS, Social Science, Science, Physics, Chemistry, Biology, Mathematics and Languages-English, Assamese, Bodo, Bengali, Hindi from class -1 to class-12

- Teachers and teacher educators have created 3000 e-contents for DIKSHA, Assam during Covid-19 pandemic.

- e-contents in Sign Language and Audio Lesson for CWSN are also uploaded on DIKSHA, Assam.

- Descriptive Audio book development for CWSN is going on.
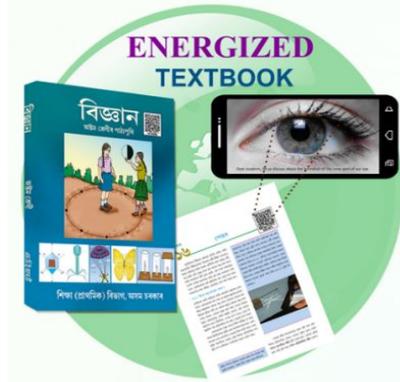
Other ICT initiatives

- Educational channel "Gyan Brikshya", Door Darshan, Swayam Prabha DTH channel were used for academic support of the students. Video classes telecasting through PM e-Vidya Channels of class 6,7, 8,9,10 & 11 by SCERT, Assam. 600 nos. of sessions telecasted till date.

- 120 nos. of Audio classes broadcasted through ALL India Radio Guwahati and Silchar.

- Video classes telecasted through Swayam Prabha and other regional TV Channels and Audio lessons broadcasted through AIR are also uploaded on DIKSHA, Assam.

- A self-learning educational package containing home based activity for students (classes I to VIII) to continue education during pandemic situation is being provided in six mediums viz. Assamese, Bodo, Bengali, Manipuri, Hindi and English. The academic packages have been uploaded in digital form also in DIKSHA Assam Portal for access by the Mentor Teachers and other stake holders.

Training

- **Online training:** capacity building training conducted for 2000 Teachers/Teacher Educators on how to become high-quality online content creators themselves using online teaching platforms and tools on-
  - **e-content development** (Audio -Video) using FOSS.
  - **Practice resource development**. (MCQ, Drag and Drop, Image Hotspot, etc.)
  - **Audio Content development**.
  - **Cyber Safety and Security**
  - **Script Writing**

- **Online Orientation:** conducted on DIKSHA and VidyaDaan portal for 2000 teachers and teacher educators

- **CPD Course: NISHTHA- Elementary, Secondary and FLN** is being implementing through DIKSHA, Assam.

- **CPD Course** on Action Research in Assamese medium and English Language teaching are developed and will be implemented through DIKSHA.

- Completed 194 projects under VidyaDaan, Assam in two phases.
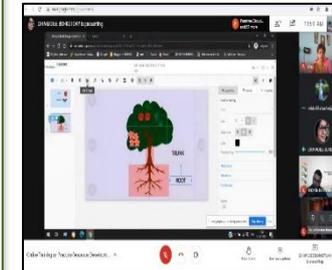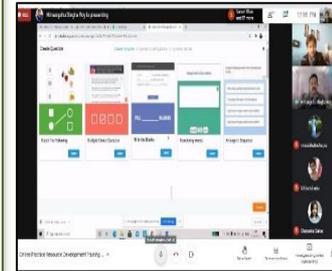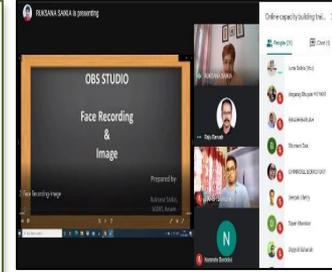
Virtual Conversation for faculties and trainees of DIETs

Virtual conversation conducted with –

- "Machine Man" Padma Shri Dr. Uddhab Kumar Bharali on Development of Innovative Thinking

- Padmashree Jadav Payeng on Environmental Awareness

- Sri Santanoo Tamuly, Former Director Grade Scientist, NEIST, Jorhat on 'Children Science and Literature'
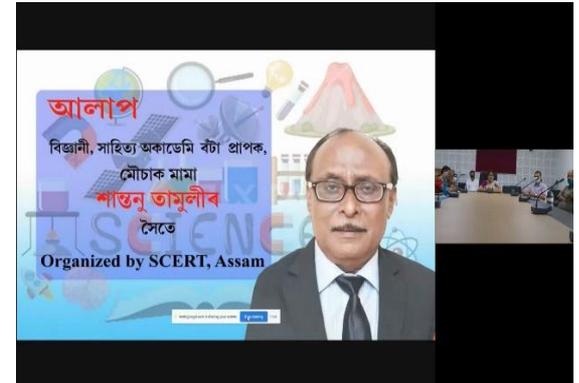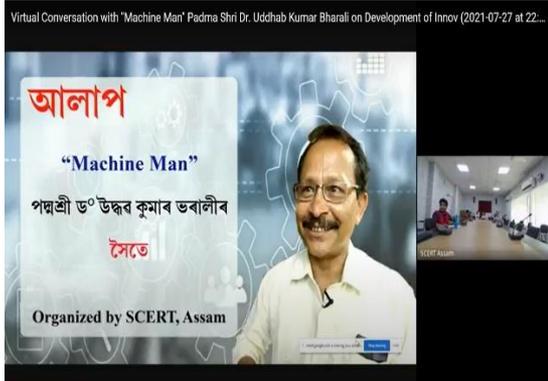
Examination Management System

For smooth functioning of D.El.ED. Examination in the state of Assam, online Examination Management system (EMS) being implemented. The EMS facilitate the following –

1. Online Form Submission and Registration.

2. Online admit card generation

3. In-house assessment of Trainees uploaded in the portal by the concerned TEI's.

4. Declaration of Results of D.EL.Ed

Programme Monitoring System for TEI's

Ongoing process for development of online monitoring system for the TEI's of Assam to monitor-

- Day to day activities of TEI's

- Up-to-date institutional profile of TEI's

- Programme Monitoring

A glimpse of the best practices of teachers on integration of ICT in teaching and learning:
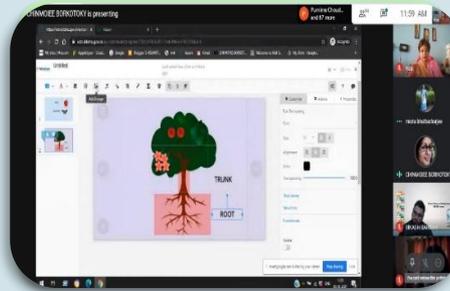
| e-content on Sign language developed by Teacher | capacity building training on e-Content development conducted by Teacher | Teachers supported in developing video for DIKSHA during lockdown period |

A glimpse of the best practices of teachers on integration of ICT in teaching and learning:


AR Based Mobile App developed by Teacher

Teachers supported in developing video for Swayam Prabha DTH channel during lockdown period

Incentivisation-
DIKSHA State Award and Felicitation programme
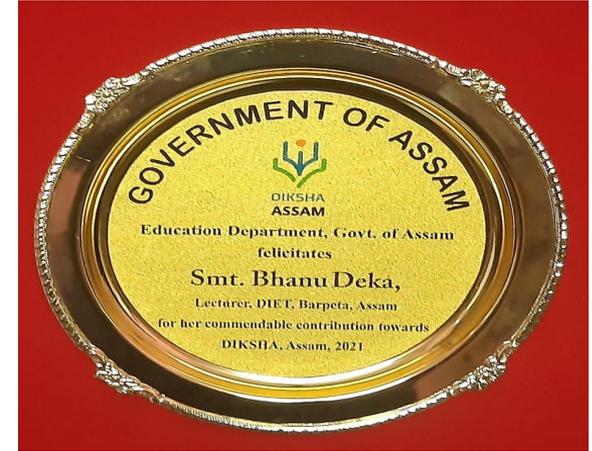
ICT & Digital Initiatives-Samagra Shiksha, Assam

ICT and Smart School (Elementary)

- ICT project is running in 648 Elementary Schools

- During the year 2021-22, another 1319 elementary schools will be covered under ICT.

- Smart Class room will be set up in 1115 Elementary schools during 2021-22

Artificial Intelligence based Attendance Monitoring of Teachers and Students and SDMIS:

- It is a 'Mobile App' for Real-time Identification of attendance of Teachers and Students based on Artificial intelligence based Facial recognition. Teachers have to install the App in their own Mobile Phone and register themselves and students with proof of identity. No additional hardware is required.

- The App capture the face impression which is converted into binary forms and compares every day while taking the facial impression to find the attendance. The attendance is then compared with Geo-locations to check whether the teacher or students within the Geo-fencing of school premises.

- The system will keeps the individual records to Teacher's Service details as well as Students individual records including mapping of e-learning mode availability, Learning Outcome achievement and Migration.

- Already 1,57,304 Teachers have enrolled and Teachers have started giving facial recognition based attendance from the school.

Personalized Adaptive Learning (PAL):

- PAL-a new intervention with judicious mix of structured Teaching-Learning sessions in the classroom followed by personalized adaptive practice by students in lab and planned remediation through use of technology (adaptive learning platform). Since the learning ability of each student is different, the remediation would vary and has to be very personalised.

- PAL is implemented in 200 schools on pilot basis having ICT lab facility.

- In case of schools wherein 40-50 students in a classroom with heterogeneous learning ability, giving personalised attention is humanly not practical even for a good teacher. With the help of PAL solutions this can be addressed in a systemic way which will not only facilitate in understanding the learning gaps but also addressing the personalised remediation using the solution.

Personalized Adaptive Learning (PAL):

- PAL creates a personalized learning path for each child by considering his/her interests, aptitude, concept comprehension, topic and sub-topic performance and curricular progress.

- Every student has to register in PAL platform and they can practice activities with the help of Video contents followed by assessment according to the Learning Outcome. Induction Training of 2149 teachers completed held on 20th & 21st September, 2021. Out of total 89,490 students of 200 schools, a total of 50,009 students have registered in PAL platform. An on-line baseline assessment attended by 18,809 students

On-Line Teacher Transfer & Posting Management System:

- As per 'The Assam Elementary and Secondary School Teachers' (Regulation of Posting and Transfer), Act, 2020 vide Notification No. No. LGL.48/2020/3.- dated 15th May, 2020, State Government to manage posting and transfer of teachers of Elementary and Secondary Schools according to the requirement of teachers in a School in order to maintain proper Pupil Teacher Ratio (PTR) norms prescribed in the Right of Children to Free and Compulsory Education Act, 2009 and State RTE Rules, 2011. Accordingly Office Memorandum was issued vide No.ASE101/2020/38 dated 23rd June, 2021. As per the Act, there are three types of transfer to be executed as mentioned below.

  - Inter School transfer (Within the Districts)

  - Inter District transfer

  - Mutual transfer

- The Registration process for all teachers started from 22nd November, 2021 and till 5th December, 2021, more than 85000 Teachers have registered.

Other ICT initiatives

- State has collaborated with Jio Channel for providing academic support to students through Jio TV, Jio Savan and Jio Chat.

- "Biswa Vidya" -YouTube channel and App were developed and uploaded subject specific videos.

- About 25 thousand class wise WhatsApp groups are opened. These are being used by teachers for providing academic support to the students.

Thank you