Major ICT initiatives in Haryana school education

- e-Adhigam
- Mukhyamantri Distance Learning Program
- EDUSAT Haryana
- DIKSHA Haryana
- Assessment Mobile Application: AVSAR
- Digital Platform for Mentoring and monitoring: SAMIKSHA

e-ADHIGAM

The e-Adhigam program was launched on May 5, 2022 by the Hon'ble Chief Minister of Haryana Manohar Lal Khattar and Hon'ble Education Minister Kanwar Pal Gujjar in the presence of senior bureaucrats from the education department at Rohtak.

e-Adhigam is a personalised and adaptive learning (PAL) enabled tablet based learning program by state Government of Haryana, to ensure Teaching at the Right Level (TaRL). The program has been rolled out for over 5 lakh government school students in the state, in grades 10th - 12th , via a library-based model. With this pioneering initiative, Haryana aims to mitigate the learning losses incurred due to COVID-19 and achieve higher learning level outcomes.

There are three key elements to enable this tablet-based learning program -

1. Procurement of 5 lakh Samsung tablet devices
2. Selection of Data SIM provider for internet services
3. Selection of PAL Software Solution provider

Personalised Adaptive Learning (PAL) is an enhanced form of personalised learning that uses technology and purpose-designed algorithms to provide individual learning experiences to users at varied learning levels. In PAL, adaptive learning technologies

are used as a mechanism to personalise learning, and intentionally target and provide for learners' needs. Adaptive learning addresses the differences in students' ability to learn by targeting teaching practices. It elevates the teaching experience and expands the learning opportunities.

Currently, almost all subjects are available to students on their PAL Application (One School Application):

The PAL solution provides the following solutions/features:

1. **At-grade Digital Content:** Students consume interactive videos and e-books on the chapter/topic

2. **Diagnostic assessments:** Students attempt an initial test which helps diagnose the current learning level of the student

3. **Personalised and adaptive remediation:** Students are shown remedial content as per their current learning level, including videos, e-books and practice tests

4. **Data-backed visualisation and nudges:** Teachers, schools and administration is able to see the level of usage and engagement, which informs the nudging pattern used to encourage students.

The department has also mandated every Monday, Wednesday and Friday as 'e-Adhigam days' when all students and teachers are supposed to use their tablets in the classroom for learning purposes. It has been instructed to ensure every student uses their tablets for at least 3 hours a week & attempt 2 weekly tests/assignments per subject and every teacher uses tablets for at least 3 hours a week & give at least 2 customised assignments.

MUKHYAMANTRI DISTANCE LEARNING PROGRAM

DIKSHA Haryana

DIKSHA is an initiative launched by the Ministry of Education, Government of India, in 2017. It is a digital platform that aims to provide high-quality educational resources to teachers, students, and parents across the country.

The DIKSHA platform offers a wide range of digital resources, including <u>textbooks, lesson plans, assessments, quizzes, and interactive learning modules</u>. These resources are available in multiple languages and cover various subjects, including mathematics, science, social studies, and languages.
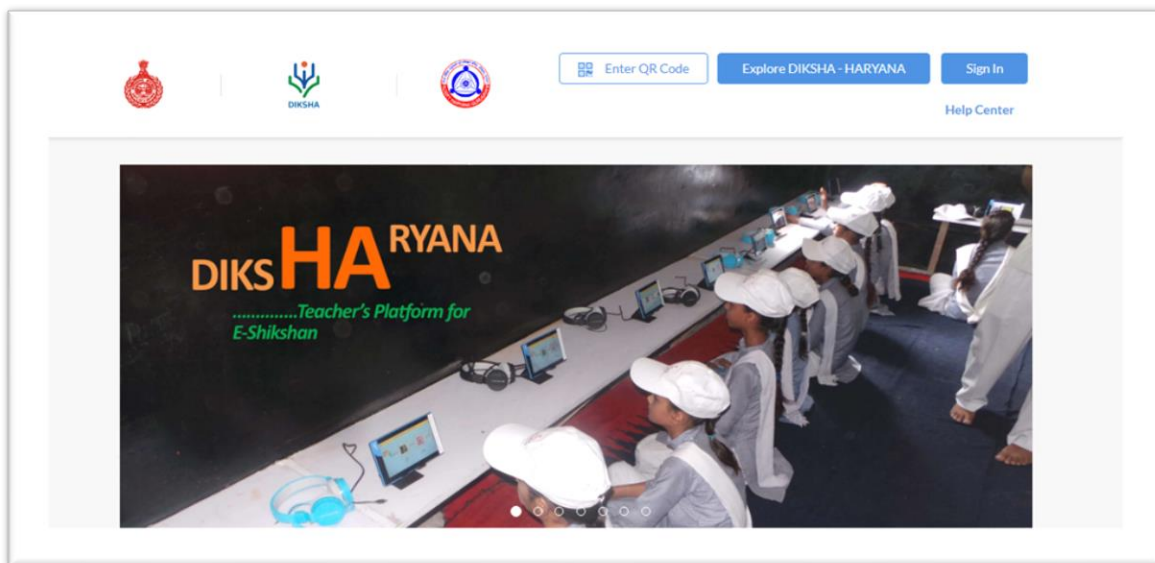
DIKSHA is designed to be accessible to all, regardless of their location or socio-economic status. The platform can be accessed via smartphones, tablets, and desktop computers, and it is available in both

online   and   offline   modes.

One of the key features of DIKSHA is its ability to provide <u>personalized learning experiences</u>. Teachers can use the platform to create customized lesson plans and assessments, based on the specific needs and abilities of their students. This helps to ensure that each student receives a learning experience that is tailored to their individual strengths and weaknesses.

DIKSHA also offers a range of <u>professional development resources for teachers</u>. This includes training courses, workshops, and webinars, which are designed to help teachers improve their teaching skills and keep up-to-date with the latest educational practices and trends.

Overall, DIKSHA is a valuable initiative that has the potential to transform the education system in India. By providing high-quality digital resources and personalized learning experiences, the platform can help to improve the quality of education for millions of students across the country.

Diksha Haryana Progress

- DIKSHA eContent count in 2021-22: 6979
- DIKSHA eContent count in 2022-23:15713
- Increase in Content Count :8734(125%)
- 8125(videos)/10725(videos and interactive content)/15713(all content)

Assessment Mobile Application: AVSAR

Avsar App was launched in October 2020 to supplement home learning amidst school closures due to Covid-19. It has three main components:
- Daily surveys - short survey post each EDUSAT telecast to mark attendance
- Weekly assessments - For students of all grades based on weekly EDUSAT syllabus
- Content library - additional learning resources such as PDFs, videos, and HOTS questions

In addition to the AVSAR application, the department had created the AVSAR data management inventory which was envisioned to be a reports portal for stakeholders at different levels for e-Adhigam programme. Every school, block and district was given a login access to the same, where they could enter marks obtained by students in their SATs and other exams, and an overall report could be generated for analysis.

As an extension to the above objective, a Tablet Management Module has been added to the AVSAR portal through which the distribution of tablets from state to districts to schools has been digitised.

Digital Platform for Mentoring and Monitoring: SAMIKSHA

Samiksha is a mobile application, used to conduct academic monitoring visits to schools via app-based school mentoring forms. This is then used as an anchor to conduct monthly review meetings at State, District, Block, and Cluster level.

In 2017, Haryana instituted a teacher mentoring program aimed at providing academic support to teachers through the guidance of a designated cadre of employees called Mentors which includes both ABRCs and BRPs. Since then, mentors have been supporting teachers on pedagogical techniques, best practices on student engagement, parent management, adoption of state initiatives, etc.

Mentoring is performed through visits to schools and observation of the teacher's classroom.

The mentors in Haryana currently focus on the following areas with defined objectives –

1. Classroom Observation: Identify the teacher's strengths and areas for improvement for higher quality of classroom teaching
2. Student Interaction: Understand how much students have been able to absorb and learn from the class
3. Teacher Feedback: Discuss forward looking strategies for improvement in quality of teaching and learning in teacher's classrooms
4. School Head Debrief: Involve the school head in ensuring that the discussed strategies for improvement are continuously implemented. This area of mentoring is very crucial for school heads as they can utilise the mentors potential to address their pedagogical issues specially related to technology.

    Overall, elementary mentoring covers over 11,000+ primary and middle schools from classes 4-8th, with nearly 80% school coverage every month. At present, elementary mentoring is done by ~1500 ABRCs & BRPs; (ABRC= 1141 | BRP= 349). Monthly reviews of their compliance are done at the block level by BRCs, district-level by DIETs and state level reviews by SCERT.