

Ujjain's smart classrooms, contributing to SDG4 – Quality Education

Summary:

Smart Classroom is an initiative taken up by Ujjain Smart City to enhance the learning outcomes of school children in government schools, using diverse technique and empower teachers by training them to use interactive techniques and multimedia content.

Objective and rationale:

To implement smart classrooms in municipal schools to provide better access to digital learning to students.

Implementation strategy:

- The project is to be implemented in 5 schools and around 97 classrooms of these schools will be converted to smart classrooms. These schools are mostly government schools.
- For explaining the content, various forms of multi-media and short video snippets will be used along with 2D & 3D animations, graphics, etc. The content will be downloadable and printable. Also, Q&A format that may be used for assessment.
- The software and content is being updated as per need or daily. The system will be online and will be connected to a central system.
- The whole system is recommended to work on a SaaS (Software as a Service model), where education content is available on the local computer and content is updated online in real time.
- Apart from the regular content, additional content will also be made available for free.
- The subject teachers are able to upload the content in any form via pen drive or external hard disk in an effective way as the software and hardware of the system integrated is very flexible. Also, the content can be able to be played in an offline mode too.

Impact:

- With smart classrooms, knowledge assimilation and retention amongst school children has increased.
- This non-stressful and interactive environment has enhanced their learning experience
- The students have better access to high quality educational materials. Even the teachers have been provided better systems and digital solutions.

Lessons learnt:

By using smart classroom technology and interactive whiteboards, information can be illustrated with the help of photos, maps, graphs, flowcharts and animated videos. This makes learning more attractive, interesting and easy to understand. It encourages the ability of students to learn and memorize the topic for a prolonged period of time. In contrast to the traditional learning method, smart classrooms are time saving technology.



Source - (USCL, n.d.)

Replicability and Sustainability:

Several cities like Solapur, Tumakuru, Ajmer, Dharamshala, Amritsar, Hubballi-Dharwad, Kakinada, Gwalior, Indore, Davangere, Satna, Udaipur, Moradabad, etc. are developing such digital infrastructure in municipal schools thereby enhancing the learning experience of students.

Fact Sheet:

Thematic area	Digital classrooms, digital education
First-year of the program	2018
Responsible Institution	Ujjain Smart City Ltd
Target audience	Students in municipal schools
Coverage	Ujjain, Madhya Pradesh