

Project G-10

Mainstreaming ICT in Classrooms

Presentation

by

Directorate of School Education, Haryana



Overview

- Started in April'12...
- Mainstreaming of ICT enabled classroom transaction
- Pilot in schools in **Gurgaon**
- Offsite training every week
- On-site support daily
- Impact Group
 - District/SCERT functionaries
 - Maths/Science teachers



Challenges...

- **Usage**
 - Daily use of ICT in classroom transaction
- **Realization**
 - Teachers to realize the potential of ICT enabled transaction in the real situation
- **Ownership**
 - Ownership of usage in the classroom



Strategy...

- Uninterrupted delivery support & usage driven by relevance in daily life



Phases...

- **Phase I**
 - ICT infrastructure and usage stabilization
- **Phase II**
 - Impact of ICT enabled delivery in daily transaction
- **Phase III**
 - Handing over the engagement to the school



Preparations...

- Engagement for 3 years
- Dedicated training facility at SCERT
- Developed a user friendly and relevant Learning Management System
- LMS completely in sync with the SCERT syllabus



Preparations...

- Dedicated teams for
 - Offsite/Onsite Training
 - Team for Maintaining/Upgrading software, hardware
 - Team for monitoring of the engagement on regular daily



Actions... Monitoring Mechanisms

- **Updates to SCERT**
 - Progress Updates
 - Meeting Roasters
- **Updates to SPD office**
 - Weekly Updates
 - Quarterly Visits
- **Weekly visits to Schools**
 - Usage Monitoring
 - Monthly Meetings



Actions...Ground Zero

- Short listing of the schools with the help of SCERT
 - Selected 10 schools from diverse backgrounds to have a representative sample
- Recce of schools for creating of “smart classroom”
 - Large capacity, well ventilated and better ambience
- Best equipment from branded vendors
- Trials for facilities ,equipments and software in real situations....



Actions...Complete Involvement

- **Workshops with the District and block representatives**
 - Administrative problems and support
- **Workshop with the Principals**
 - Mandate for the daily support
- **Workshops with the Teachers**
 - Explained the relevance
 - Scope of the engagement
 - Ease of operatability



Actions...LMS

- Relevance ...understood from teachers POV, which was
 - ICT should be easy to navigate
 - It should be easy to learn
 - Help transact the core syllabus
 - There should be No extra burden
 - Any intervention should save timethis the teacher should say
- Realized that usage will be driven by the relevance



Actions...LMS

- Realized that usage will be driven by the relevance
- Developed LMS with;
 - Transacts the syllabus to the hilt
 - Architecture completely in sync with the teacher's world
 - Navigation easy.....pertinent info is max 2 clicks away
 - Supports the learning cycle of the child



Actions...Trainings

- Onsite

- Computers

- Assembling parts
- Typing
- Browsing
- Mail

- Onsite/Offsite

- LMS

- Loading
- Navigating
- Trouble shooting



Actions..Timetable

- Each school has only 1 smart class
- There are 3 grades....6th to 8th
- There are multiple sections
- There are 2 subjects.....multiple combinations
- Team helped teachers to create time- tables for using the smart classrooms optimally



Journey so far...

- **Trainings**

- Trainings are going onavg. of 1 training per week
- Training on new areas of conceptual learnings and other pedagogical issues
- Regular on-site training in schools

- **Support**

- Regular visit by hardware maintenance staff
- Uploaded 8th to 12th grades content also on the computers
- Hindi version of LMS being uploaded



...dots getting connected

- **Schools**

- Regular use of LMS in 9 out of 10 schools
- G-10 schools want more of such classes

- **Teachers**

- Teachers getting comfortable in computer usage
- Most can type now
- Create their teaching material from the net
- Confidently use the LMS
- Teachers come to training by choice



Road ahead...

- Delivery is stabilized
- Utilization of the smart classes is increasing
- LMS installed for secondary /senior (9th to 12th) grades

- Schools are asking for more smart classes
- More schools want to have the facility and engagement



Learnings

- **Model**
 - Approach should be inside-outside
 - Capacities should be built bottom-up
- **Time frame**
 - Engagement has to be in years
 - Training facility has to be captive



Learnings

- **Interventions**

- Relevant to the day to day context
- Pace to be at the comfort level of the target group
- Training has to be regular and both in-vitro and on-site

Ownership of the entire delivery chain is the key



Scaling potential

- There are 3200 existing labs, what is required?;
 - **Hardware**
 - Team that can ensure working of hardware every day
 - **Software**
 - One time investment in core subject software
 - **Training**
 - Mapping the geographical proximities, 1 resource centre with capacity of 40 workstations , 100 schools can be easily managed from 1 resource centre ...32 RC will be req.
 - **Monitoring**
 - District level monitoring group can be created to ensure deliv



G-10 in Pictures



Learning Management System



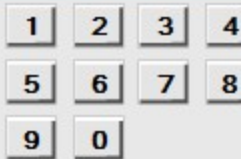


आँकड़ों का प्रबंधन

योग्यता जाँचें

परिचर्चा

नीचे दी गई सारणी में, गणित की एक परीक्षा में 30 विद्यार्थियों द्वारा प्राप्तांक मिलान-चिह्न का प्रयोग करके दर्शाए गए हैं।



प्राप्तांक	मिलान-चिह्न	विद्यार्थियों की संख्या
2		3
3	≡	5
4	≡ ≡	10
5	≡	6
6		3
7		3

- उत्तर यहाँ लिखें।
- (1) कितने विद्यार्थियों ने 6 या 6 से अधिक अंक प्राप्त किए?
- (2) कितने विद्यार्थियों ने 4 से अधिक परंतु 7 से कम अंक प्राप्त किए?
- (3) कितने विद्यार्थियों ने 4 से कम अंक प्राप्त किए?





आँकड़ों का प्रबंधन

योग्यता जाँचें

परिचर्चा

आँकड़ा
Data ✓

आँकड़ों का संग्रह
Recording data

आँकड़ों का प्रबंधन
Organisation of data

● आँकड़े संख्याओं का समूह हैं जो किसी विशेष सूचना को प्राप्त करने के लिए इकट्ठे किए जाते हैं।

● एक सारणी आँकड़ों का पंक्तियों और कॉलमों में व्यवस्थित प्रबंधन है।

● पंक्तियाँ क्षैतिज होती हैं और उन्हें बायें से दायें की ओर पढ़ा जाता है।

उदाहरण: दूसरी पंक्ति में आँकड़ों का मान 1, 2, और 3 है।

● 'कॉलम' उर्ध्वाधर होते हैं और उन्हें ऊपर से नीचे की ओर पढ़ा जाता है।

उदाहरण: पहले कॉलम में आँकड़ों का मान 6, 1, और 7 है।

6	4
1	2
7	5



Smart Classrooms



GT-10

PROJECTOR ROOM

PERIODS	DAYS	CLASSES	Teachers	Subjects
IV th	Mon, Tue	VIII th B.	Meenu.	(Math.)
	Wed, Thurs	VII th B	Anita	(Science)
	Fri, Sat.	VI th B	Jyoti	(Math.)
V th	Mon, Tue	VII th C.	Meenu	(Math.)
	Wed, Thurs.	VII th A	Madhu	(Science)
	Fri, Sat.	VII th C	Somesh.	(Science)
VI th	Mon, Tue.	VIII th C	Sneh Lata	(Math)
	Wed, Thurs.	VII th B	Meenu	(Math)
	Fri, Sat.	VI th A	Madhu.	(Science)
VII th	Mon, Tue.	VIII th B	Madhu	(Science)
	Wed, Thurs	VIII th A	Sushma.	(Math)
	Fri, Sat.	VI th B	Anita	(Science)
VIII th	Monday.	VII th A	Sushma.	[Math]



कड़ लेता है शह जो निच शानार-तिनारा।



कले कला म विद्या म मृतम
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PROJECT G-10

Summary of ICT usage time up to mid-Sept, 2012

S. No.	School Location	Subject	Teacher name	Total usage (Hrs:min)
1	Badshahpur	Maths	Mrs Neelam	3:23
		Science	Mrs. Simmi	2:53
		Total usage		6:16
2	Garuli Khurd	Maths	Mr.Manohar Lal	5:09
			Mrs.Seema rani	5:08
		Science	Mr.Manohar Lal	0:24
			Mrs. Abhilasha	1:05
Total usage			11:46	
3	Harsaru	Maths	Mrs.Renu	3:28
			Mr s.suman	0:07
		Science	Mrs.Renu	1:06
			Mr s.suman	0:13
Total usage			4:54	
4	Islampur	Maths	Mrs.Neelam	19:34
		Science	Mr. Deepak	10:44
			Mrs. Savita	3:17
Total usage			33:45	

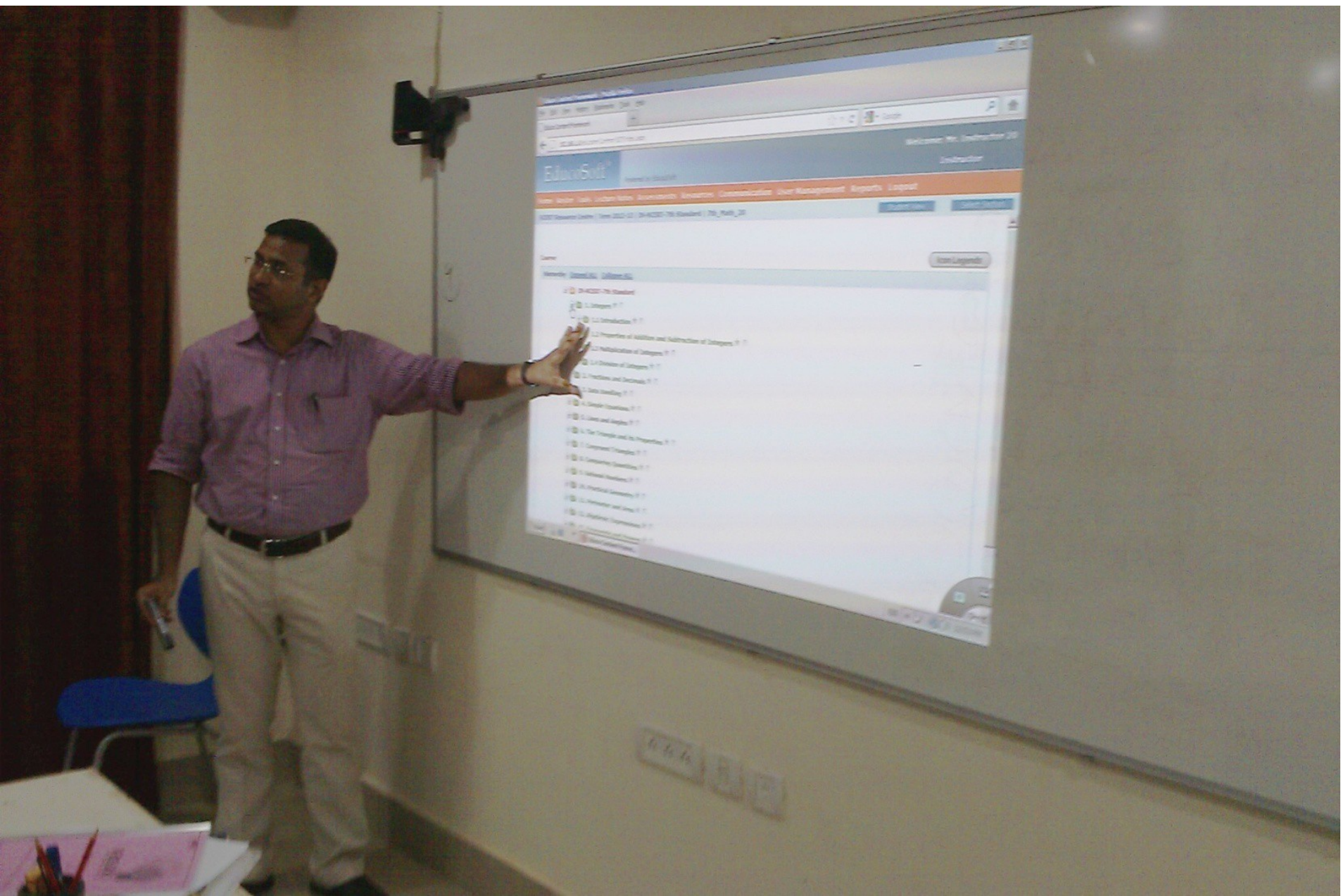
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		Science	Mr. Deepak	10:44
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	Total usage			33:45

Trainings













Click icon to add picture





USER'S GUIDE
To
ICT SYSTEM
PROJECT – G10

- **Schematic diagram**
- **Specifications of equipment**
- **Start up and shut down procedure for ICT system**
- **Desktop PC**
- **Projector**
- **Whiteboard**
- **General instructions for ICT system**
- **General instructions for ICT classroom**
- **Integrated Learning Management System (ILMS)**



Formats



S No	TOPIC CLASS SCIENCE	DETAIL OF TOPIC	TIME DURATION	DATE	SIGN
1	Science VII A+B	अध्याय - 11 जंतुओं और पादप में परिवहन परिसंचरण तंत्र, हृदय स्पंद जंतुओं में उत्सर्जन	2.00 PM - 2.30 PM 3 rd period	17/12/2012	Manisha
2	Science VI A+B	अध्याय - 11 प्रकाश दायें रंज परावर्तन पारदर्शी अपारदर्शी पारभासी वस्तुएँ दायाँ, क्षील अक्षील	4.00 PM - 4.25 PM 6 th period	17/12/2012	Manisha
	Science VIII A+B	अध्याय - 13 ध्वनि आगम, गन्ध, अगन्ध ध्वनि प्रबलता तारत्व ध्वनि संचरण में निरोधक	4.50 - 5.15 8 th period	17/12/2012	Manisha
	Science VII A+B	अध्याय - 11 जंतुओं और पादप में परिवहन मानव उत्सर्जन तंत्र पादपों में पदार्थों का परिवहन, वाष्प उत्सर्जन	2.00 PM - 2.30 PM 3 rd period	18/12/2012	Manisha



pankaj@vasukiworld.org



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248 c

COMPOSE

Project G-10: Progress update for week ended 18 August, 2012



Inbox x



Inbox (6)

Starred

Important

Sent Mail

Drafts (91)

FC Maam

Follow up

J1

Misc

Priority

SPD

Vijay

More ▾



Pankaj Pankaj <pankaj@vasukiworld.org>

8/22/12 ☆



to ssarma, SCERT, Rajiv, DEO, DPC, SUSHIL, sunil, J.A, me, Mukesh, malikrajiv2, Shreya ▾

Respected Sir,

The salient points for this week are as follows:

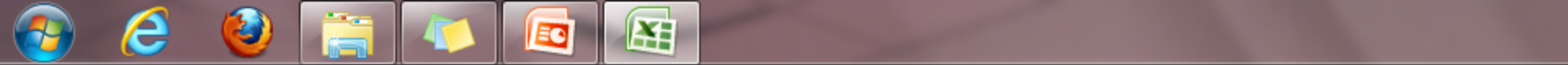
(A) Teaching in ICT room:

ICT classes are being conducted regularly in all schools **with following exceptions** to which your attention is drawn:

- At Sushant Lok school, **no teachers are available for Maths and Science** (they are either on long leave or have been transferred). Hence, there have been no classes since last 2 - 3 weeks.
- At Harsaru, the walls, floor and ceiling of ICT room have become damp due to heavy rains in the last few days. In view of safety of personnel and equipment, we have instructed the school to temporarily stop usage of ICT equipment till further advise. The school management is of the opinion that **ICT equipment should be shifted to a new room** which is better in all respects.
- At Dhanwapur, ICT room has no board power supply. Power supply connection with online UPS is faulty and trips very frequently. Hence, classes have been neither regular nor smooth. The school needs to **provide mains power supply in the room as well as rectify the problem in back up power supply.**

(B) Time table for ICT room:

Only 4/8 marla school has prepared a proper time-table for use of ICT room by different classes and sections. To our



Microsoft Excel ribbon showing tabs: Home, Insert, Page Layout, Formulas, Data, Review, View, Add-Ins, Nuance PDF. The ribbon includes various toolbars for Clipboard, Font, Alignment, Number, and Styles.

A23	fx		7
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Details of problems in schools

S.No.	School Name	Back up power	ICT room	Teachers	ICT room utilization		
					No. of periods	classes involve	Teachers involved
1	4/8 Marla	Not connected			25	9	7
2	Badshahpur	Not connected			12	3	2
3	Dhanwapur	1. UPS for back up power is faulty 2. No mains power in ICT room			36	3	3
4	Garuli Khurd		Dedicated room not available		36	3	3
5	Islampur	Not connected			30	3	2
6	Kadipur	DG set for back up power is not being operated		No Science class since last 1 month, Sc. teacher planning to go on leave	16	3	1*
7	Sanskriti			No teachers for Maths & Science. No ICT classes since last 1 month.	0	0	0
8	Jacobpura	No problems at present					
9	Harsaru				36	3	3
10	Sector 4/7				33	4	2



Home Insert Page Layout Formulas Data Review View Add-Ins Nuance PDF

Clipboard: Paste, Cut, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: General, Percentage, Decimals

Styles: Conditional Formatting, Format as Table, Cell Styles

	A	B	C	D	E	F	G	
2	Daily School Visit Schedule 2012-13							
3	Serial. No.	Name of School	Monday	Tuesday	Wednesday	Thursday	Friday	
4	1	Govt Girls Sr. Sec. School, Badshahpur	Vedpal		Vedpal		Vedpal	
5	2	Govt Model Sanskriti School, Sushant Lok		Vedpal		Vedpal		
6	3	Govt High School, Sector-4/8 Marla			Vedpal			
7	4	GGSS, Jacobpura, Ggn		Vedpal			Vedpal	
8	5	Govt Model School, Islampur	Vedpal			Vedpal		
9								
10	6	Govt High School, Garouli Khurd		Anil				
11	7	Govt High School, Dhanwapur	Anil		Anil		Anil	
12	8	Govt High School, Harsaru	Anil			Anil		
13	9	Govt. Sr Secondary School , Kadipur			Anil		Anil	
14	10	Govt. Sr. Sec. School , Sector-4/7, GGN		Anil		Anil		
15								
16								
17		Double Shift Schools						
18		Schools till 2:30PM						
19								
20	Note	* Visit to Sector- 4/8 Marla school should be Before 12:30 PM						
21		* Visit to Jacob Pura school should be After 12:30 PM						
22								
23								

Thanks

