

# Digital Initiatives in Education by Sikkim

Presenter:  
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&  
Mr. Rajiv Philip

# Modes of online classroom transaction during pandemic

During the initial phases of pandemic, Education department started the following initiatives

## Telecasting live Classes through local television channel

Teachers were invited to the local cable studio for classes 9-12 and were asked to record classes for mathematics and Science. The content was then telecast through local cable and through various social media platforms on Facebook like Sikkim Chronicle and Hamro Vaarta.

# Samvaad Video Link









# Samvaad Video Link










# Modes of online classroom transaction during pandemic

## Broadcasting through All India Radio

Teachers teaching from class 6-8 were asked to give live lessons from the studio of All India Radio, Gangtok. The subjects covered were from Social Science, Science, English and mathematics

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## All India Radio Gangtok

2.59K subscribers

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### Uploads

 SORT BY

 <p style="font-size: small;">STAY HOME, STUDY AT HOME "The Night We Won The Back" by John Grigg ..... <b>36:01</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 8- English Literature At Yumthang by Guru T Ladakhi ..... <b>46:58</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 7 English Language ..... <b>41:33</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 7- English Dolphin in Distress ..... <b>56:53</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 5- EVS Major Landforms of the Earth ..... <b>36:08</b></p>
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<p><b>Class 8- English Literature- "The Night We Won The..."</b> 12K views • 2 years ago</p>	<p><b>Class 8 English Literature "At Yumthang" by Guru T Ladakhi</b> 5.6K views • 2 years ago</p>	<p><b>Class 7- English Language</b> 4.6K views • 2 years ago</p>	<p><b>Class 7 English- "Dolphin in Distress"</b> 3.9K views • 2 years ago</p>	<p><b>Class 5- EVS "Major Landforms of the Earth"</b> 3K views • 2 years ago</p>
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 <p style="font-size: small;">Stay Home Study of Home Class 8 English Language - Modals ..... <b>37:26</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 5- EVS Flora and Fauna of Sikkim ..... <b>53:29</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 8- Geography Land, Soil, Water, Natural Vegetation and Wildlife Resources ..... <b>37:03</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 7- English Literature The Wise Men and The Elephant by John God ..... <b>40:18</b></p>	 <p style="font-size: small;">Stay Home Study of Home Class 5 English Language ..... <b>45:30</b></p>
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<p><b>Class 8- English Language "Modals"</b></p>	<p><b>Class 5- EVS Floara and Fauna of Sikkim</b></p>	<p><b>Class 8 Geography "Land, Soil, Water, Natural..."</b></p>	<p><b>Class 7 English Literature "The Wise Men and the..."</b></p>	<p><b>Class 5- English</b> 2.4K views • 2 years ago</p>
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# AIR audio Link for classes 6-8



The image shows a screenshot of an audio player interface. On the left, there is a dark rectangular area representing the audio player. The text "English language" is written in white at the top of this area. Below it, there is a horizontal line. Underneath the line, the word "Hello" is written in red, and "Hi!" is written in white. At the bottom of the dark area, the phrase "How are you?" is written in white. On the right side of the screenshot, there is a logo at the top, followed by the text "Stay Home Study at Home" in a large, bold, black font. Below this, the text "Class 6 English Language" is written in a smaller black font. At the very bottom of the right side, there is a horizontal line of small, repeating characters.

# AIR audio Link for classes 6-8





# Modes of online classroom transaction during pandemic

## Broadcasting through All India Radio

SCERT had introduced new books from classes 1-5 for EVS, Math and English. The teachers were not trained on using the new textbook as pandemic happened and hence the textbook writers from SCERT, DIET and Schools were again invited to AIR, Gangtok from where we had live interaction with teachers from all over the state on difficulties faced in transacting the lessons.



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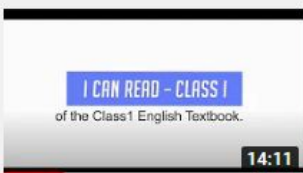
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Rhyme Time  
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Role Play Competition 2021 /  
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Role Play Competition 2021 /  
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Orientation on newly  
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Orientation on newly  
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developed Mathematics...

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Orientation on newly  
developed Environmental...

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Orientation on newly  
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Orientation on newly  
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Orientation on newly  
developed Mathematics...

803 views • 2 years ago



Orientation on newly  
developed Environmental...

1.1K views • 2 years ago



Orientation on newly  
developed English textbook...

1.9K views • 2 years ago



Orientation on newly  
developed Mathematics...

1.1K views • 2 years ago



School Leadership Academy  
(SLA) of SCERT Sikkim ...

3.2K views • 2 years ago

# AIR audio Link on new textbook for classes 1-5



# AIR audio Link on new textbook for classes 1-5



The poster features a light blue background with a central dark blue horizontal band. At the top, the Government of Sikkim logo is displayed above the text 'Education Department Government of Sikkim Presents'. The central dark band contains the main title in white, bold, sans-serif font. Below this, the text 'By National Development Team of SCERT-SIKKIM' is centered. In the bottom left corner, there is a small box with contact information for the State Resource Centre. In the bottom right corner, the date 'Date: May 2, 2020' is written.

Education Department  
Government of Sikkim  
Presents

**Radio talk for orientation of  
Government School teachers on  
new textbooks of classes 1-3**

By National Development Team of  
**SCERT-SIKKIM**  
"Empowering Society through Education"

**State Resource Centre**  
State Resource Centre  
Address: Sikkim State Library, Baramulla Library

Date: May 2, 2020

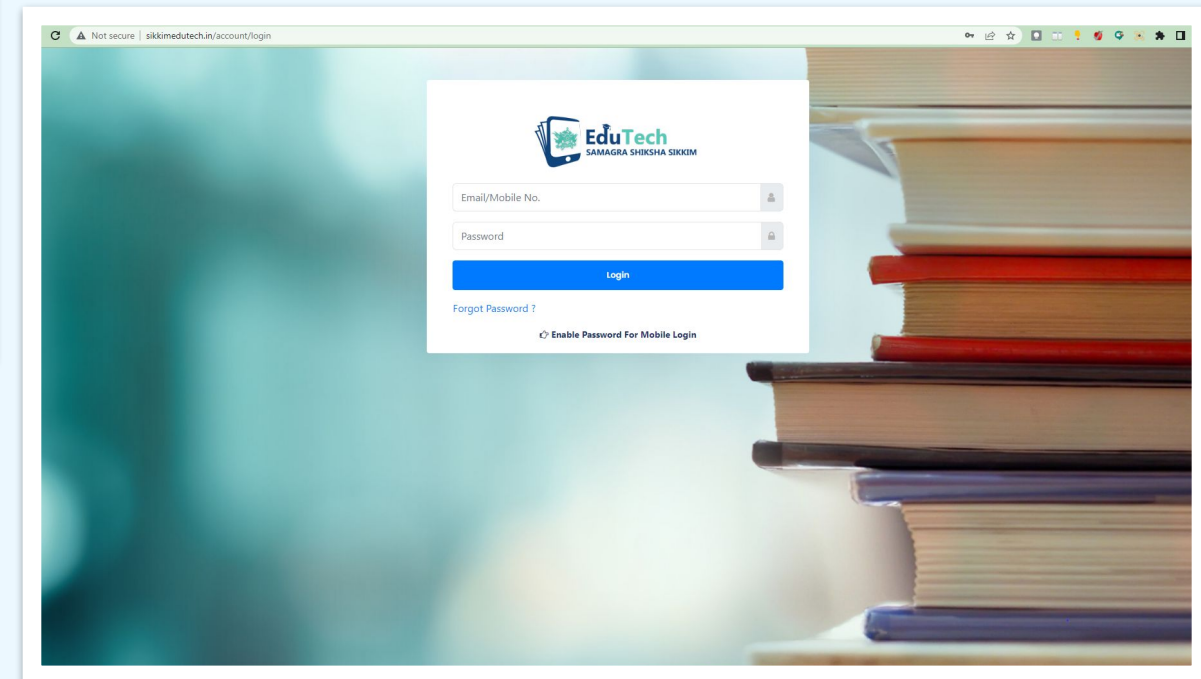
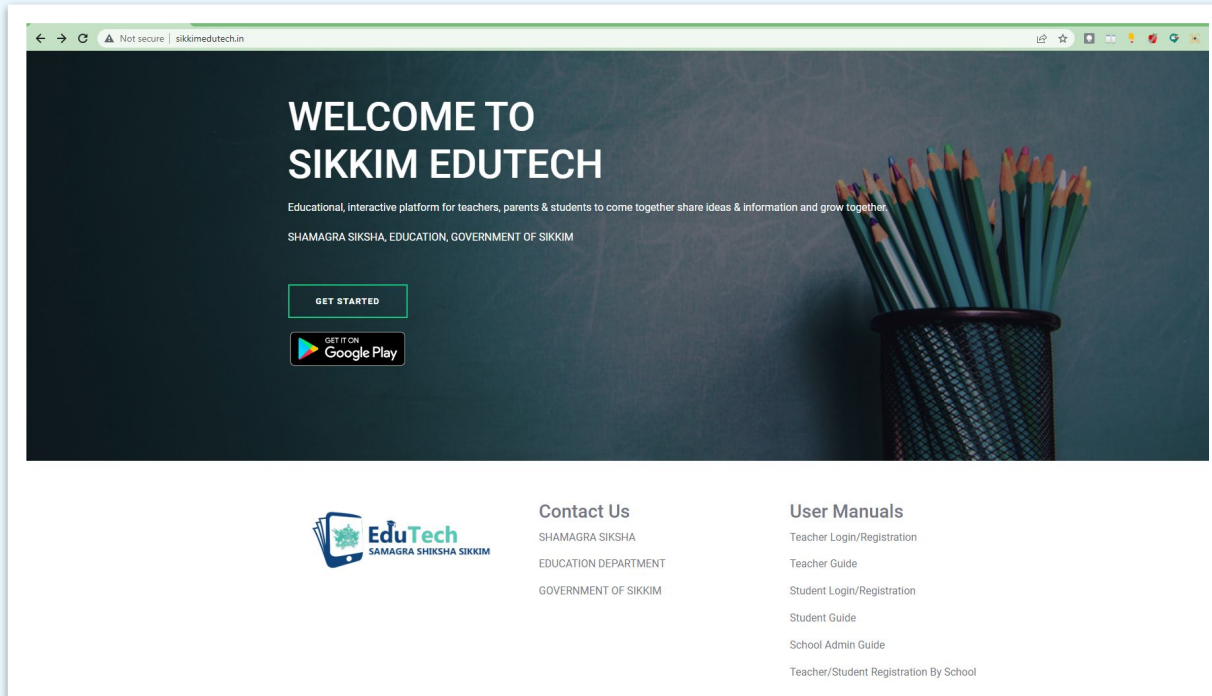
# Modes of online classroom transaction during pandemic

## Sikkim Edutech App

Education department developed a in house learning management system (LMS) called Sikkim Edutech. Lessons and videos created by teachers were vetted by faculty of SCERT and uploaded on the App. Students were asked to download the application and using their class and mobile number, they were able to access class specific contents.

# Different initiatives taken by Education Department

## Sikkim Edutech App



# Modes of online classroom transaction during pandemic

## Survey on use of ICT platforms by students

SCERT conducted a survey to find out the usage of various ICT platforms by the students and teachers to understand what they used most.

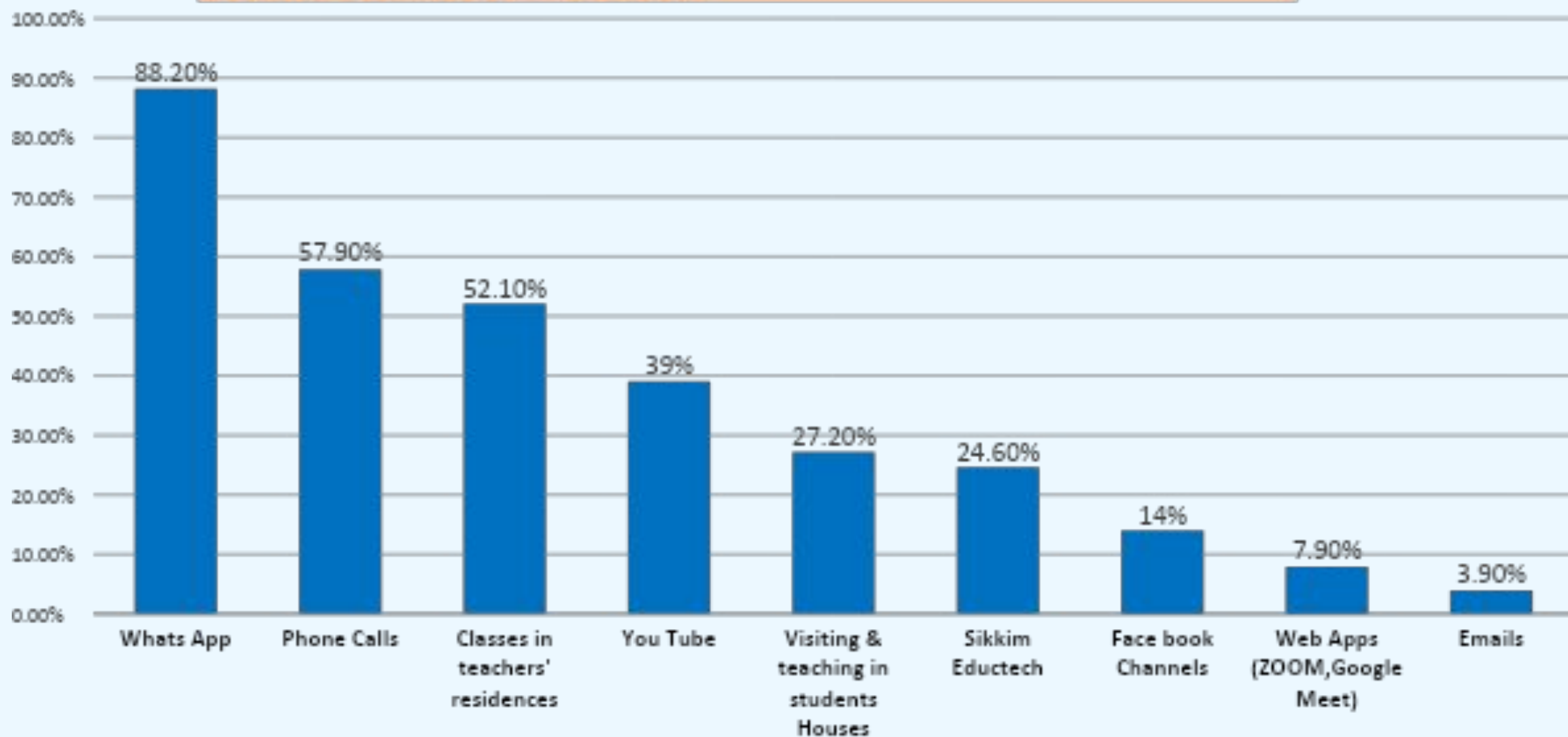


# What was the reach and penetration of the Departmental initiatives?

SCERT did a survey on 228 schools to find out the reach of all the initiatives been taken by teachers and students

<b>District</b>	<b>PS</b>	<b>JHS</b>	<b>SS</b>	<b>SSS</b>	<b>Total</b>
<b>North</b>	24	7	7	5	43
<b>West</b>	35	13	12	16	76
<b>South</b>	21	15	8	8	52
<b>East</b>	16	17	11	13	57
<b>Total</b>	95	52	38	42	228

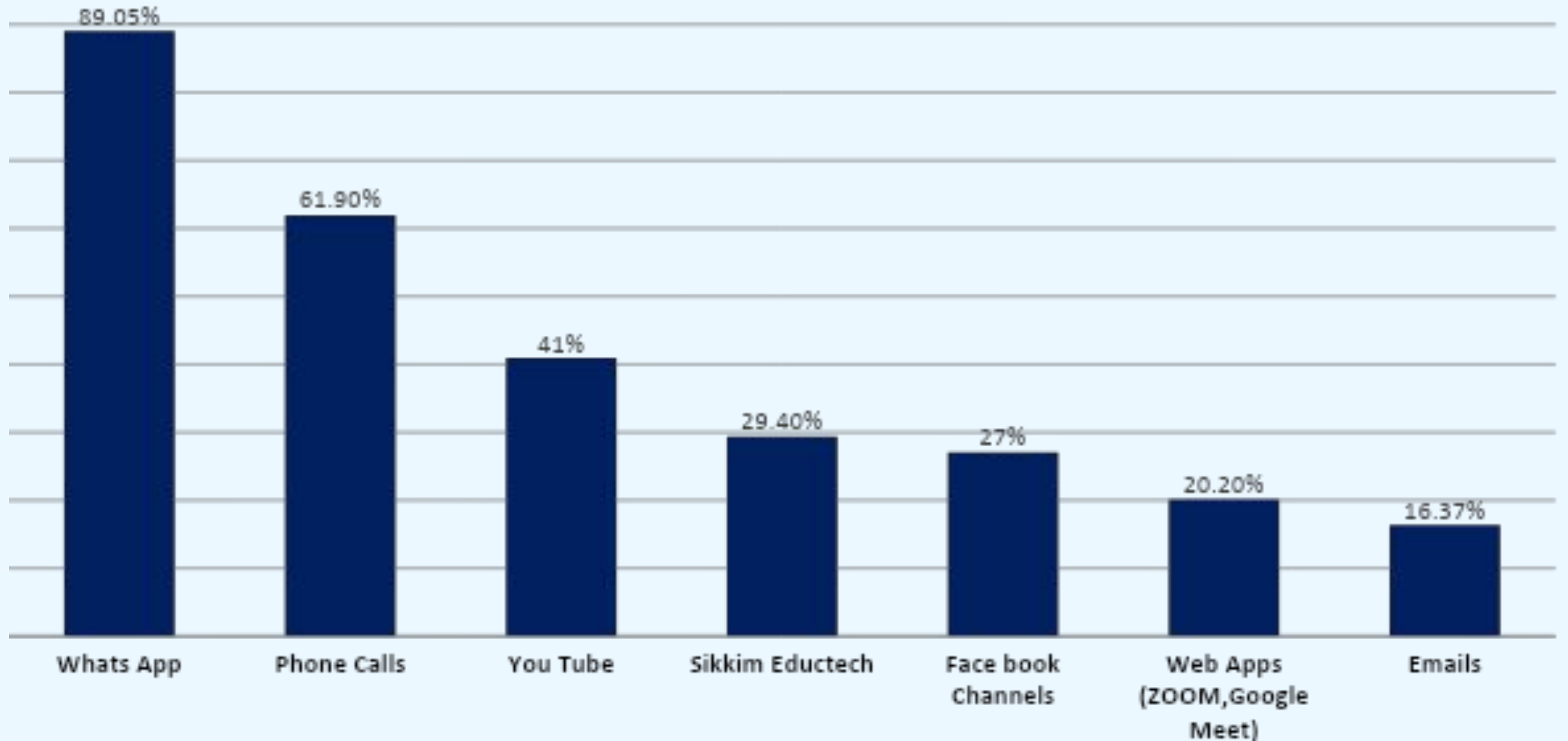
## Medium and resources used by teachers for teaching & learning during pandemic



# Percentage of students accessing online classes



SCERT-Sikkim  
"Empowering Society through Education"



# Results of Survey

Survey found that WhatsApp had been the most used and comfortable application used by the students as well as teachers. Looking at the survey result education department started online chatbot in WhatsApp with the help of Convegenious.

Faculty from SCERT and DIET again developed assessment metadata keeping the learning outcome in mind and prepared weekly questions to be sent to individual children across the State.

## Personalising learning for every child

Our personalised & adaptive learning (PAL) platform enables an individualised, contextual approach that focuses on what learners need and directs teachers to where they are most needed.



Learn how we are Nudging Education.

### Problems we solve



## Unit Plan for Class VI

### Term-II

Unit	Learning Outcomes	Chapter Name	Suggestive Practices	Online Links
Chapter 6	<ul style="list-style-type: none"> <li>solves problem involving addition and subtraction of integers.</li> </ul>	Integers: <b>1<sup>st</sup> Week of September</b>	Create and discuss daily life situations Involving the use of negative numbers	<a href="https://diksha.gov.in/play/collection/do_31307361009021747213025?contentId=do_3130191947257610241888">https://diksha.gov.in/play/collection/do_31307361009021747213025?contentId=do_3130191947257610241888</a>
		<ul style="list-style-type: none"> <li>Introduction</li> <li>Representation of integers on a number line.</li> <li>Ordering of Integers</li> <li>Addition and subtraction of integers using number line.</li> </ul>		
Chapter 7	<ul style="list-style-type: none"> <li>Uses fractions and decimals in different situations which involve money, length, temperature etc. For example, <math>7\frac{1}{2}</math> metres of cloth. distance between two places is 112.5 km etc.</li> <li>Solves problems on daily life situations involving addition and subtraction of fractions / decimals</li> </ul>	Fractions: <b>2<sup>nd</sup> &amp; 3<sup>rd</sup> Week of September</b>	Observe situations that require the representation by fractions and decimals	<a href="https://diksha.gov.in/play/collection/do_31307361009021747213025?contentId=do_3130394131233095681430">https://diksha.gov.in/play/collection/do_31307361009021747213025?contentId=do_3130394131233095681430</a>
		<ul style="list-style-type: none"> <li>Introduction</li> <li>Fractions on a number line.</li> <li>Proper, Improper and Mixed fractions</li> <li>Equivalent fractions</li> <li>Simplest form of fractions</li> <li>Comparing like and unlike fractions</li> <li>Addition and subtraction of fractions</li> </ul>		



Sikkim Subject Calendar .XLSX

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A1:A2 fx Grades													
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Grades	Subject		Person-in-charge	12-Jun	19-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug
2					Week 1	Week 2	Week 3	Week 4	Week5	Week 6	Week 7	Week 8	
3	6	Maths		Suraj B Singh	Maths	Maths	Maths	Maths	Maths				
4		Science		P Sutradhar		Science	Science	Science	Science				
5		Hindi											
6		Sanskrit											
7		English		P. Pathak			English		English				
8		Social Science		Manorath Dahal		S. Science		S. Science					
9		Maths		Suraj B Singh	Maths	Maths	Maths	Maths	Maths				
10		Sanskrit											
11	7	Science		P Sutradhar		Science	Science	Science	Science				
12		English		P. Pathak			English		English				
13		Hindi											
14		Social Science		Manorath Dahal		S. Science		S. Science					
15		Maths			Maths	Maths	Maths	Maths	Maths				
16	Sanskrit												
17	8	Science				Science	Science	Science	Science				
18		English					English		English				
19		Hindi											
20		Social Science				S. Science		S. Science					



Sikkim\_Final 2 Month Content Calendar for Class 6 to 10

.XLSX



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View only

1

	A	B	C	D	E	F	G
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## Class 8

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36

	Social Science	English	Mathematics	Science
Week	Chapter Name	Chapter Name	Chapter Name	Chapter Name
1	N/A	N/A	Linear Equations in one variable	N/A
2	From trade to territory	N/A	Understanding Quadrilaterals	Micro-organisms: Friends and Foes
3	N/A	The Night We Won the Buick	Understanding Quadrilaterals	Synthetic fibres and plastics
4	Tribals, Dikus and the vision of a golden	N/A	Practical Geometry	Synthetic fibres and plastics
5	N/A	The Night We Won the Buick	Practical Geometry	Materials: Metals and Non-Metals
6	When people rebel 1857 and after	N/A	Data handling	Materials: Metals and Non-Metals
7	N/A	The Night We Won the Buick	Squares and square roots	Coal and Petroleum
8	Colonialism and the city	N/A	Qubes and qube roots	Combustion and Flame
9	N/A	The Night We Won the Buick	Algebraic Expressions and Identities	Conservation of plant and animal
10	Resources	N/A	Algebraic Exp & Identities contn...	Conservation of plant and animal
11	N/A	The Eagle and the Beetle	Algebraic Exp & Identities contn...	Cell:Structure and function
12	Land, Soil, Water,Natural Vegetation	N/A	Ratio and proportion	Cell:Structure and function
13	N/A	The Eagle and the Beetle	Ratio and proportion contn...	Reproduction in animal
14	Weavers, Iron Smelters, and Factory Own	N/A	Ratio and proportion contn...	Reproduction in animal
15	N/A	The Night at the Hotel	Mensuration, area	Reaching the age of adolescence
16	Civilising the Native, Educating the Nation	N/A	Mensuration, area contn...	Reaching the age of adolescence
17	N/A	The Night at the Hotel	Volume and capacity	
18	Women, Caste and Reform	N/A	Volume and capacity contn...	
19	N/A	Beyond the Bars	Visualising solid shapes	
20	The Indian Constitution and Secularism	N/A	Exponents and Powers	
21	N/A	Beyond the Bars	Factorisations	
22	Parliament and the making of law	N/A	Introduction to graphs	
23	N/A	The Road Not Taken	Introduction to graphs contn...	
24	The Judiciary	N/A		
25	N/A	The Girl on the Train		
26	Mineral and Power Resources	N/A		
27	N/A	The Girl on the Train		
28	Agriculture	N/A		
29		Trapped		
30		N/A		
31		Night of the Scorpio		





Sikkim Topic Calendar .XLSX ☆ 📄 ☁  
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		S. Science(History) Chapter-1									
Date	Day	WhatsApp Assessment Week #	Subject	Chapter Name	Grade 6	Remedial Playlist	Subject	Chapter Name	Grade 7	Remedial Playlist Link	Subject
					LOs				LOs		
12th June 2021	Saturday	Week 1									
New Week											
			Maths	Fractions & Decimals	solves problem involving addition and subtraction of integers.		Maths	Fractions and decimals	Interprets the multiplication and division of decimals		Maths
					uses fractions and decimals in different situations which involve money, length, temperature etc.				Uses algorithms to multiply and divide decimals		
			S. Science(History) Chapter-1	What,Where,How and When	-Understand and appreciate why we need to study about our past which have saved our present		Social Science (Geography)	Environment	- describes different components of the environment and the interrelationship between them		Social Science
					-Comprehends how Historians come to know about the past through various sources						
					-Identifies different types of Sources(Archaeological, Literary and others), and there use in reconstructing History						
19th June 2021	Saturday	Week 2			-Locate important Historical Sites, Places on an Outline Map of India						
			Science	Chapter 2. Components of food	· Conducts simple investigations to seek answers to questions like what food items contains starch, proteins and fats.		Science:Chapter 2	Nutrition in Animals	- Identifies types of teeth.		Science
					· Relates processes and phenomenon with causes , e.g deficiency disease with diet.				- Differentiates digestion in different organisms.		
					· Applies learning of scientific concepts in day to day life e.g selecting food items for a balanced diet						
New Week											
			Maths				Maths				Maths
			Science	Chapter 3:Fibre to fabric	· Identifies materials such as plant fibres.		Science				Science
					· Differentiates materials such as fibre and yarn						

# Survey on household devices for online classes

SCERT conducted another survey to find out availability of online devices in every household of the state from class 1-12.

The sample survey question and the links on jot form are displayed on the next slide.

<b>Name of the School:</b>			<b>District:</b>	<b>Block:</b>	<b>CRC:</b>		
<b>Name of the School Head</b>				<b>Category of School</b>			
<b>School ID</b>			<b>Locality</b>				
<b>Households with the following</b>							
Sl. No	Class	Computer/Laptop/Smartphone and a 4G Internet connection as well as a television set with a DTH/cable connection	Smartphone with 4G network	Smartphone with 3G/2G	Television set with a DTH/cable connections	Radio set or a basic mobile with FM	No digital device
1	I						
2	II						
3	III						
4	IV						
5	V						
6	VI						
7	VII						
8	VIII						
9	IX						
10	X						
11	XI						
12	XII						
* For Districts/Blocks/Category use drop down menu							
** For Sl. No & Class only give the numbers							



Date: 30 July 2020

As a follow up to a meeting held on 18<sup>th</sup> July 2020, regarding Pragyata, a format has been created to collect data from schools by each DIET to understand the status of Households having online devices.

- Hence as discussed, DIET needs to select few schools from each district.
- The school should be a mixture of Rural and urban.
- Category of school chosen should also reflect the levels of schools (Primary, JHS, SS, SSS)
- The data needs to be filled for each class as a whole even if there are several sections in the same class.
- Drop down box have been made for each class.
- We should ensure that the data filled is true and authentic.
- As there are more than 700 plus schools, sampling should be done so that it gives a real picture.
- The school heads should be asked to fill up the form only once. They can edit the data also if they want after submitting.

The link of the form is given here: <https://form.iotform.com/202111238692044>



### Format for schools to find out the availability of online devices used by students at home during the Covid 19 pandemic

There are four links for schools given below which will help the department to understand about the availability of online devices being used by the children at their homes during the pandemic. The data will help in formulating steps for further intervention in understanding the needs of the children.

- The forms have to be filled only once by all the school heads after obtaining proper data from the respective class teachers about the availability of the category of devices being used by students at home.
- The format categorises the devices at the following levels
  - Households having Computer/laptops/Smartphones with 4G internet connections as well as television with DTH/Cable connections.
  - Households having only TV sets with DTH/Cable connections but no internet with 4G smartphones
  - Households having Radio sets or a basic mobile with FM but no internet and 4G smartphones
  - Households having no digital devices mentioned above.
- The data needs to be filled for each class as a whole even if there are several sections in the same class. The data submitted should be authentic so that the department can work on the interventions to be followed for each category of students.
- The school heads should fill up the form only once. They can edit the data also if they want after submitting.
- The last date for submitting the format is 15 September 2020.

The following links are to be used by the school heads for each category of school

Primary School Format

<https://bit.ly/34pWHuK>

JHS School Format

<https://bit.ly/3laFdbO>

Secondary School Format

<https://bit.ly/3lebTBp>

Senior Secondary School Format

<https://bit.ly/2QwCMCx>

# Distribution of Smart television and laptops

As part of PM- Evidya, Laptops and smart television with video content were given to all the children from class 9 and above from the hands of Hon'ble Governor and Hon'ble Chief Minister of Sikkim.

# Distribution of Smart television and laptops to students



Student receiving Smart TV from Hon'ble Governor and Hon'ble Chief Minister under e-Vidya programme



# Tablet distribution

Education department in collaboration of 17000 ft foundation, distributed content loaded tablets to schools and students of remote areas where there was network and electric power issues. As a pilot around students of 10 schools from remote Mangan and Pakyong district schools were given tablets.





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Know where we have reached

### Indian Himalayan Region

17000 ft Foundation is dedicated to improving education in the remotest and toughest villages of the Indian Himalayan Region (IHR). By strengthening the existing systems, 17000ft aims to stem the desperate exodus of the indigenous communities to faraway cities.

Our programs focus on improving education in Govt. Schools, creating livelihood opportunities, and generating exposure through interactions with the outside world. Today, our work spans Leh & Kargil districts of Ladakh, North & East districts of Sikkim. We aim to impact other similarly remote, inaccessible areas of the Indian Himalayan Region in the coming years.



**MapMySchool@17000ft**



Every school of Ladakh, geo-mapped on ...

[Read More](#)

**Volontourist@17000ft**



Enabling travellers to contribute to schools. ...

[Read More](#)

**Happening Now**



**We'r Hiring**

**17000 ft Foundation**  
on Wednesday

[Like Page](#) 13K likes

#Edtech has now reached Middle School Tungri in #zanskar. The ...

**STAY IN TOUCH**

You would love to see our updates

Email address

**Tweets by @17000ft**

**17000 ft Foundation** @17000ft

#Edtech has now reached Middle School Tungri in #zanskar. The HM, Village Education Committee members, the villagers and of course the children are super happy and grateful to receive the #17000ft DigiLab supported by

# DIKSHA

Apart from all the above initiatives the textbooks of classes 1-5 were also energized with QR codes and state specific contextualized contents were created and linked with QR codes.



सिक्किम  
ऑनलाइन  
स्कूल

# CLASS 4 BIGGER NUMBERS





SCERT-Sikkim  
"Empowering Society through Education"

Thank you  
Team Sikkim