DIGITAL INITIATIVES IN WEST BENGAL

SCERT

West Bengal

08.08.2022

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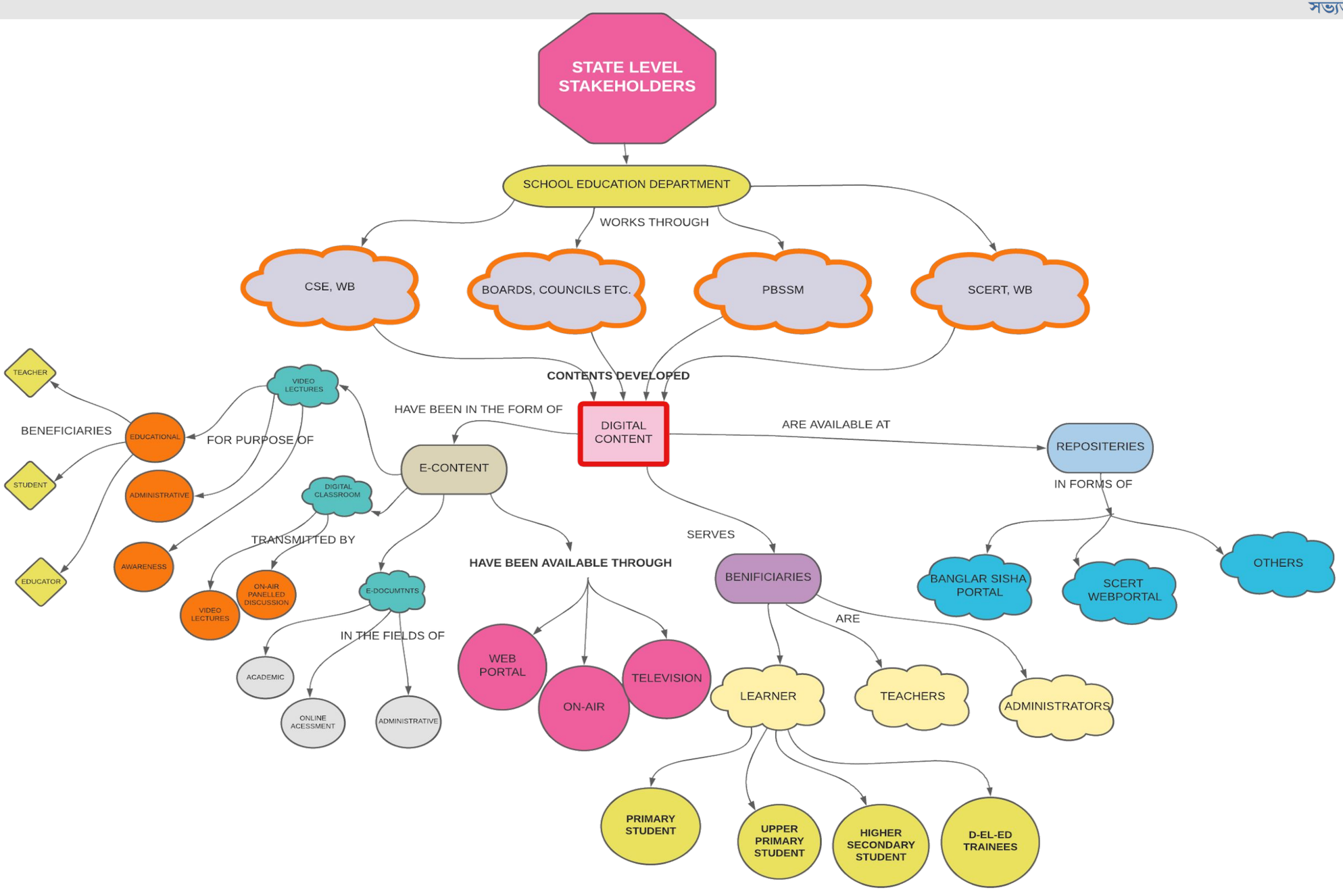
Outline

1. AN OVERVIEW OF THE EDUCATION SYSTEM IN WEST BENGAL
2. KEY INITIATIVES IN DIGITAL EDUCATION
3. DIGITAL INITIATIVES TAKEN DURING COVID 19 PANDEMIC
4. GLIMPSES OF DIGITAL EDUCATION INITIATIVES
5. DIGITAL FACILITIES

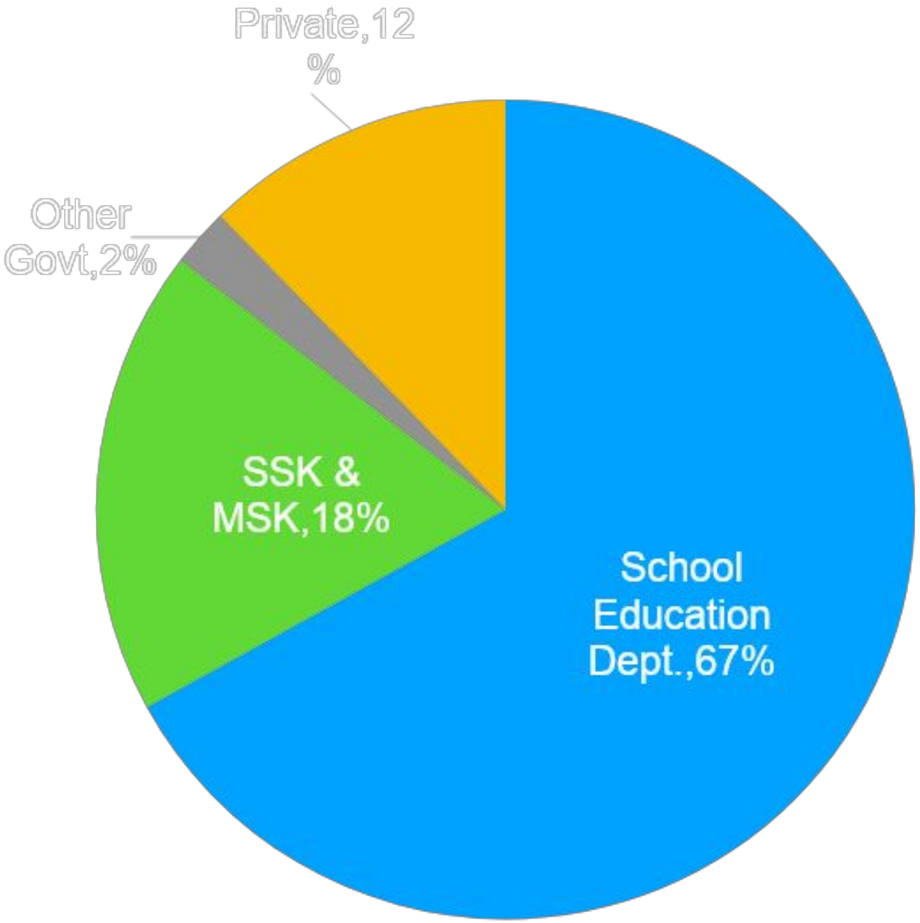
AN OVERVIEW OF EDUCATION SYSTEM IN WEST BENGAL


STATE LEVEL STAKEHOLDERS
SCHOOL EDUCATION DEPARTMENT
WORKS THROUGH
CSE, WB
BOARDS, COUNCILS ETC.
PBSSM
SCERT, WB
CONTENTS DEVELOPED
DIGITAL CONTENT
HAVE BEEN IN THE FORM OF
ARE AVAILABLE AT
REPOSITERIES
IN FORMS OF
BANGLAR SISHA PORTAL
SCERT WEBPORTAL
OTHERS
E-CONTENT
VIDEO LECTURES
DIGITAL CLASSROOM
E-DOCUMTNTS
TRANSMITTED BY
IN THE FIELDS OF
ACADEMIC
ONLINE ACESSMENT
ADMINISTRATIVE
VIDEO LECTURES
ON-AIR PANELLED DISCUSSION
HAVE BEEN AVAILABLE THROUGH
WEB PORTAL
ON-AIR
TELEVISION
SERVES
BENIFICIARIES
ARE
LEARNER
TEACHERS
ADMINISTRATORS
PRIMARY STUDENT
UPPER PRIMARY STUDENT
HIGHER SECONDARY STUDENT
D-EL-ED TRAINEES
BENEFICIARIES
EDUCATIONAL
FOR PURPOSE OF
TEACHER
STUDENT
EDUCATOR
ADMINISTRATIVE
AWARENESS

State Profile

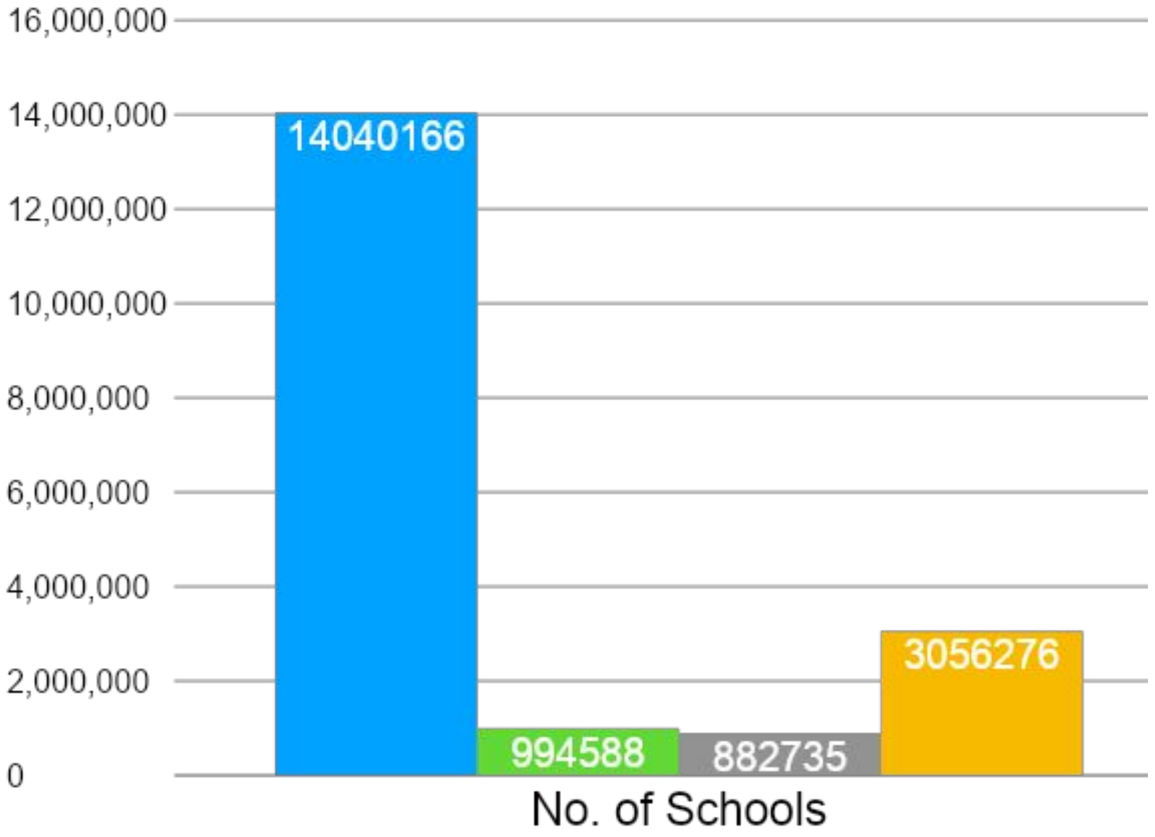
	Management	2020-21	
		Number	Percentage
Schools	Government	83484	87.6
	Aided	87	0.09
	Private	11687	12.3
	Total	**95,258**	
Enrolment	Government	1,58,70,894	83.7
	Aided	46595	0.25
	Private	30,56,276	16.1
	Total	**1,89,73,765**	
Teachers	Government	4,69,804	81.83
	Aided	1003	0.17
	Private	103317	17.99
	Total	**5,74,124**	

Management-wise Number of Schools



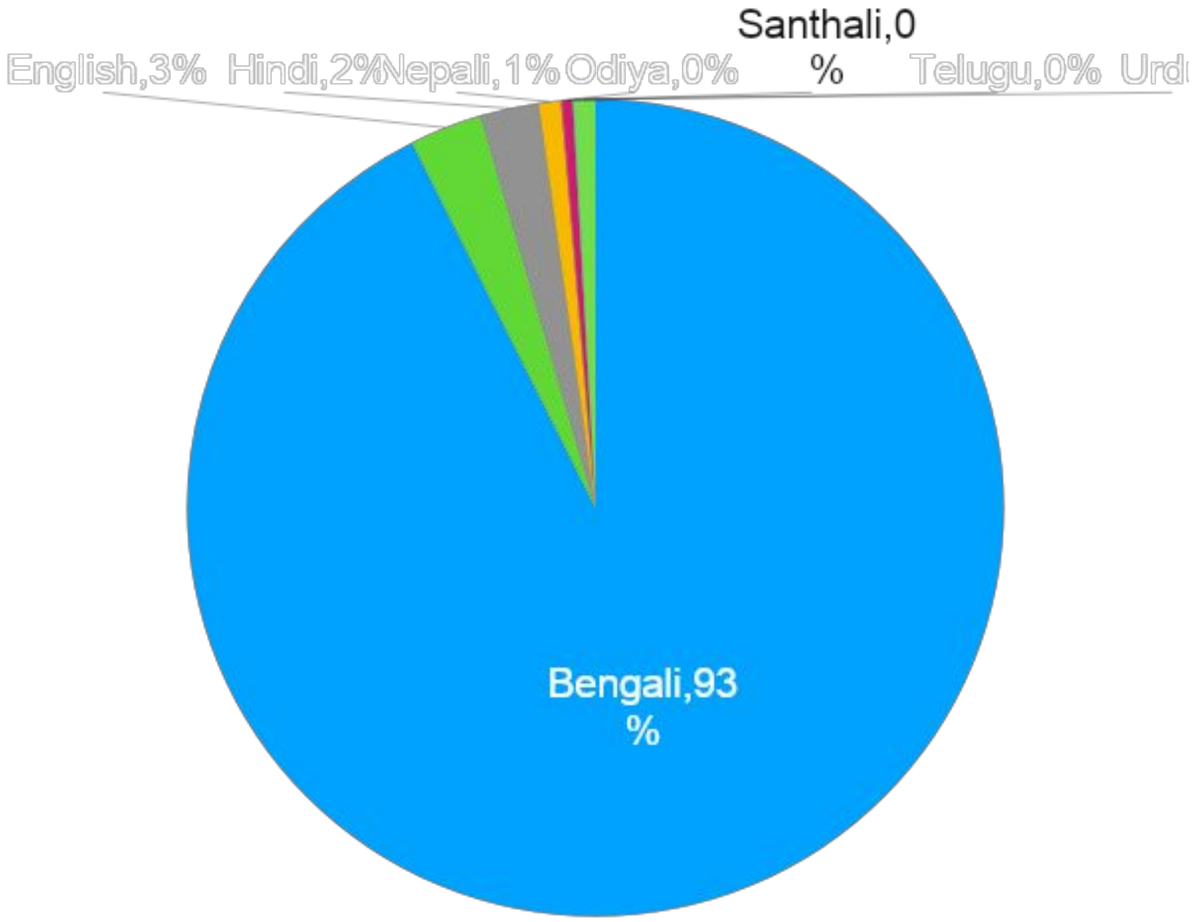
Management	No. of Schools
School Education Dept.	63812
SSK & MSK	17561
Other Govt	2198
Private	11687
Total	**95258**

Management-wise Enrolment



Management	Enrolment
School Education Dept.	1,40,40,166
SSK & MSK	9,94,588
Other Govt	8,82,735
Private	30,56,276
Total	**1,89,73,765**

Medium-wise Number of Schools (All Management)



Management	No. of Schools
Bengali	88368
English	2739
Hindi	2211
Nepali	837
Odiya	43
Santhali (Considering multi-medium section)	393
Telugu	24
Urdu	828

Level-wise infrastructure availability in schools (All Mgmt. Schools)

Infrastructure		Primary	Upper Primary	Secondary	Higher Secondary
Number of Schools		75837	8731	3306	7384
No. of Students (In mutually exclusive schools)	Boys	4207814	601086	544702	4286170
	Girls	4002084	572872	707499	4483670
No. of Toilets Available	Boys	92129	13251	7600	26549
	Girls	93352	14296	9873	31984
No. of Students per Toilet (National norms: 1:80 for Boys & 1:40 for Girls)	Boys	46	45	72	161
	Girls	43	40	72	140
No. of Classrooms		336628	137177	50171	37399
SCR		26	43	58	52
No. of Schools with Drinking Water facility		75271	8674	3293	7377
No. of Schools with Electricity		73081	8340	3267	7375
No. of Schools with Boundary Wall		32857	3480	2573	6483

Teachers in Position

School Level	No. of Schools	Enrolment	No. of Teachers		Pupil Teacher Ratio
			Regular	Para/ Contractual	With Para Teachers & others cont. teachers
Primary (RTE Norms: 30:1)	50160	52,04,111	1,84,370	21,468	21
Upper Primary (including Model School & NIGS) (RTE Norms: 35:1)	4698	49,87,378	1,45,768	24,889	28 (Considering all Teachers taught at Upper Primary level)
Secondary (including Model School & NIGS) (National Norms: 40:1)	2556	20,45,690			18 (Considering all Teachers at Sec. level)
Higher Secondary (National Norms: 40:1)	6398	18,02,987	29,354	456	28 (Considering all Teachers at H.S. level)
Model School	62	6,331	107	125	29
Integrated School	38	11,169	447	01	26

KEY INITIATIVES IN DIGITAL EDUCATION

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KEY INITIATIVES BY STAKEHOLDERS IN DIGITAL EDUCATION

ADMINISTRATOR INITIATED	TEI / ORGANIZATION INITIATED
DIFFERENT DIGITAL INFRASTRUCTURE	CONTENT CREATION AND CURATION
CAPACITY BUILDING ON DIGITAL EDUCATION	TEACHER TRAINING/ORIENTATION THROUGH ONLINE MODE
DISTRIBUTION OF DEVICE	
TV SLOTS FOR EDUCATION (ABP ANANDA AND ZEE 24 GHANTA)	

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BENEFICIARIES OF DIGITAL INITIATIVES

ADMINISTRATOR ORIENTED

- e – HRMS MOBILE APP
- M-PARIDARSHAN MOBILE APP
- MIDDAY MILL MOBILE APP (WBMDMs)
- SOCIAL MEDIA PLATFORM

TEACHER ORIENTED

- BANGLAR SIKSHA MOBILE APP
- UTSASHREE PORTAL

STUDENT ORIENTED

- BANGLAR SIKSHA MOBILE APP
- CAREER PORTAL
- STUDENT CREDIT CARD
- TARUNER SWAPNA

PARENT / COMMUNITY MEMBER ORIENTED

- BANGLAR SIKSHA MOBILE APP
- VIRTUALLY CONNECTING TO PARENTS

Digital initiatives taken during COVID ‘19 Pandemic

Action taken for Addressing the Learning Loss of Children during Covid-19 Pandemic

1. Live Class Room in Television
   - Banglar Shiksha Classroom: Remote learning for the students of class VI to XII
   - Live telecast for all subjects on three leading Bengali News c
   - Total 297 sessions conducted in 2021-22

2. Banglar Shiksha Durobhase (Support over telephone)
   - Dedicated toll free telephone number for classes V to XII
   - Students can connect to clear their doubts and receive guida
   - A total of 4.9 Lakhs calls have been received during this period.
   - **In order to overcome the problem of overcrowding the channel at a particular time, a class wise, subject wise time table has been prepared and communicated to the students through a process.**

3. Teacher Training through online mode
   - More than 3 lakh Primary & Secondary level teachers trained

Action taken for Addressing the Learning Loss of Children during Covid-19 Pandemic (Contd.)

4. Orientation on MCQ adaptation system
   - Orientation on adapting MCQ for students' assessment of classes 3, 5, 8 & 10 conducted for regular classroom proceedings
   - These orientations were also taken up for preparing students appearing for National Achievement Survey (NAS).

5. **Learning through Activity Tasks**
   - **This has been introduced with an aim to continue the uninterrupted learning process amongst the students of classes 1 to 10 for long stay at their home during COVID pandemic. They are being encouraged to carry out those tasks in subject based exercise book at their home. During their exercise, they can seek need-based help from their teachers on the one hand and also from their**

Action taken for Addressing the Learning Loss of Children during Covid-19 Pandemic(Contd)

6. Paray Shikhalaya
   - To support children to cope with school closure
   - Introduced teaching-learning session at community and habitation level by taking the school to the learners.
   - About 90 lakh children benefited through this effort.
7. Ujjiban Charcha
   - An initiative taken by SED and WBSHEC with the objective is to boost up the morals of the students, give them strength to cope up in a better way this pandemic situation, help them to pursue their dream in higher academic stages and empower the guardians and teachers to support the students in the best way they can.It is launched live on zoom platform, Facebook and YouTube and later archived in BanglarSiksha Portal.
   - More than 40,000 participants per webinar addressed at.

Action taken for Addressing the Learning Loss of Children during Covid-19 Pandemic(Contd)

8. Bridge Course Materials

- Specially designed Bridge course materials developed to facilitate students to cover learning loss
- Materials in all school subjects were made available for learners of classes 1 to 10.
- 84 Bridge Course materials developed under Accelerated Learning Package **(Sikhan Setu)**

9. E-learning materials on Banglar Siksha Portal:

A large number of e-learning material of all subjects for the student of Classes 5 to 12 in audio-visual form uploaded in e-portal i.e. banglarshiksha.gov.in (also accessible through YouTube) for continuity of the teaching learning process

Banglar Shiksha Online

Banglar Shiksha classroom and Banglar Shiksha Junior classroom facilitated remote learning through live classes in television for the students of classes 5 to 12 in different subjects using three of leading news channels. Subject wise queries of students are being addressed and explained through toll free number during the live sessions by the expert teachers.

Classes for Madhyamik & Higher Secondary appearing students have been telecast live for entire weeks on two widely watched Bengali television channels, viz. **News 18 Bangla** and **Zee-24 Ghanta**.

Watch videos

Special arrangements of live classroom sessions

It has been made for examinee students of Madhyamik and Higher Secondary level for all subjects. Elaborative discussion of content, question patterns and how to answer the questions etc. are being explained on daily basis on the live classroom session. Moreover, model questions with answers are being uploaded in Bangla Shiksha portal.

Watch videos

Ujjiban Charcha

- Series of Webinars organized on weekends covering topics for extending academic and psychosocial support to Secondary and Higher Secondary level students have been conducted

- Viewership of 40-50 thousand per session achieved

Delivery Format

- Moderated discussion held with 2-3 experts from relevant fields
- Queries collected from the participants and the same addressed by the speakers during the webinar

Mode of transmission

Watch video

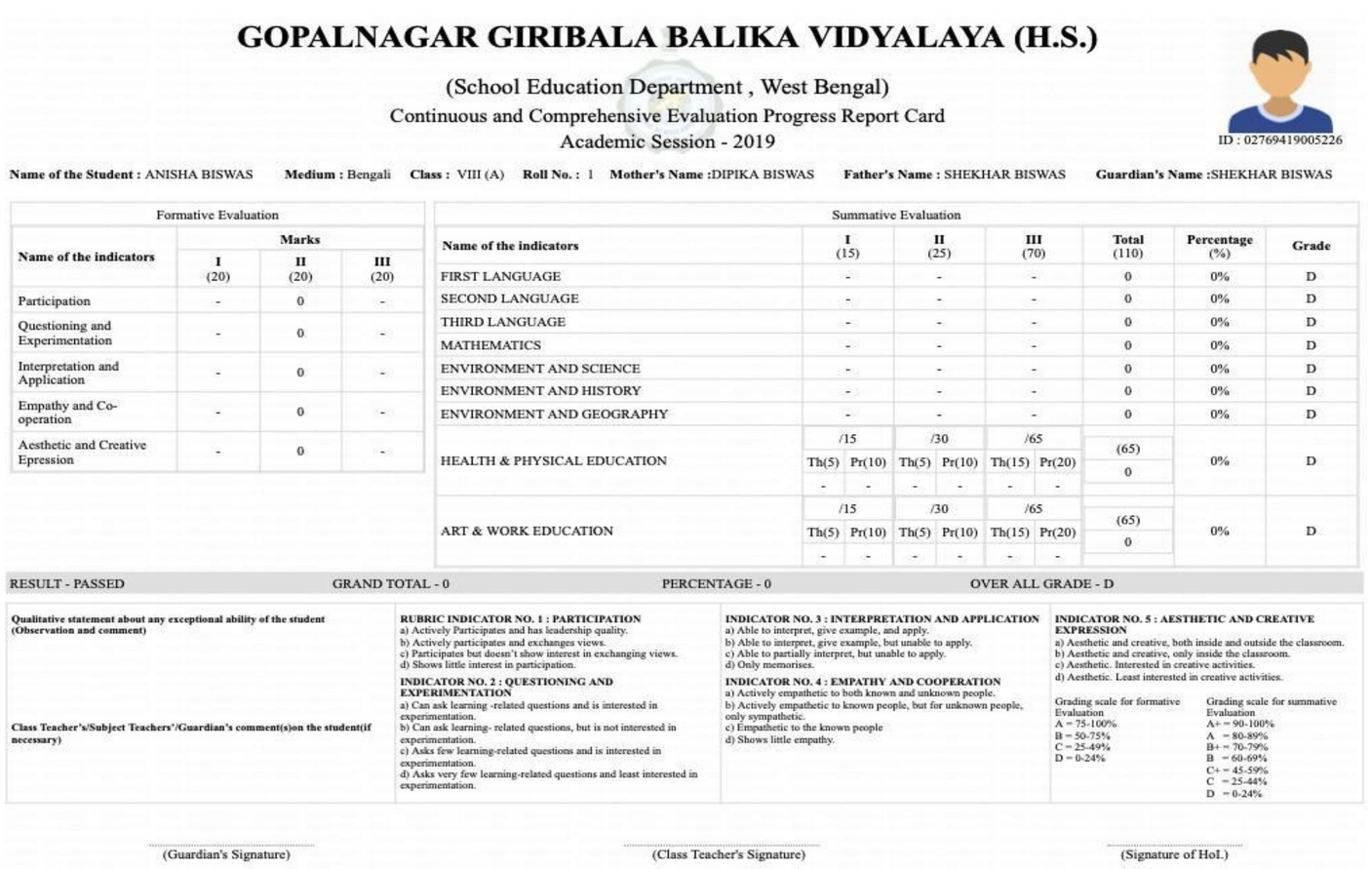
Exemplar Topics

- ‘Covid Kale Shikkharthi Mon'
- ‘Projuktir Byabohar - shachetanata o sabdhanota’
- Importance of soft skills in life
- Use of technology in developing learning materials
- Inclusion of CWSN in Schools
- Astronomy - Origin, Concept & Scope
- Charm your way to success

Holistic Report Cards

- Report cards of students have been digitally generated on the School Management System under Banglar Shiksha.

- The report cards contain the details of the continuous and comprehensive evaluation of



GOPALNAGAR GIRIBALA BALIKA VIDYALAYA (H.S.)

(School Education Department , West Bengal)
Continuous and Comprehensive Evaluation Progress Report Card
Academic Session - 2019

ID : 02769419005226

Name of the Student : ANISHA BISWAS **Medium :** Bengali **Class :** VIII (A) **Roll No. :** 1 **Mother's Name :**DIPIKA BISWAS **Father's Name :** SHEKHAR BISWAS **Guardian's Name :**SHEKHAR BISWAS

Formative Evaluation

Name of the indicators	Marks I (20)	II (20)	III (20)
Participation	-	0	-
Questioning and Experimentation	-	0	-
Interpretation and Application	-	0	-
Empathy and Co-operation	-	0	-
Aesthetic and Creative Epression	-	0	-

Summative Evaluation

Name of the indicators	I (15)	II (25)	III (70)	Total (110)	Percentage (%)	Grade
FIRST LANGUAGE	-	-	-	0	0%	D
SECOND LANGUAGE	-	-	-	0	0%	D
THIRD LANGUAGE	-	-	-	0	0%	D
MATHEMATICS	-	-	-	0	0%	D
ENVIRONMENT AND SCIENCE	-	-	-	0	0%	D
ENVIRONMENT AND HISTORY	-	-	-	0	0%	D
ENVIRONMENT AND GEOGRAPHY	-	-	-	0	0%	D
HEALTH & PHYSICAL EDUCATION	/15 Th(5) Pr(10)	/30 Th(5) Pr(10)	/65 Th(15) Pr(20)	(65) 0	0%	D
	- -	- -	- -			
ART & WORK EDUCATION	/15 Th(5) Pr(10)	/30 Th(5) Pr(10)	/65 Th(15) Pr(20)	(65) 0	0%	D
	- -	- -	- -			

RESULT - PASSED GRAND TOTAL - 0 PERCENTAGE - 0 OVER ALL GRADE - D

Qualitative statement about any exceptional ability of the student (Observation and comment)

Class Teacher's/Subject Teachers'/Guardian's comment(s)on the student(if necessary)

RUBRIC INDICATOR NO. 1 : PARTICIPATION
a) Actively Participates and has leadership quality.
b) Actively participates and exchanges views.
c) Participates but doesn't show interest in exchanging views.
d) Shows little interest in participation.

INDICATOR NO. 2 : QUESTIONING AND EXPERIMENTATION
a) Can ask learning -related questions and is interested in experimentation.
b) Can ask learning- related questions, but is not interested in experimentation.
c) Asks few learning-related questions and is interested in experimentation.
d) Asks very few learning-related questions and least interested in experimentation.

INDICATOR NO. 3 : INTERPRETATION AND APPLICATION
a) Able to interpret, give example, and apply.
b) Able to interpret, give example, but unable to apply.
c) Able to partially interpret, but unable to apply.
d) Only memorises.

INDICATOR NO. 4 : EMPATHY AND COOPERATION
a) Actively empathetic to both known and unknown people.
b) Actively empathetic to known people, but for unknown people, only sympathetic.
c) Empathetic to the known people
d) Shows little empathy.

INDICATOR NO. 5 : AESTHETIC AND CREATIVE EXPRESSION
a) Aesthetic and creative, both inside and outside the classroom.
b) Aesthetic and creative, only inside the classroom.
c) Aesthetic. Interested in creative activities.
d) Aesthetic. Least interested in creative activities.

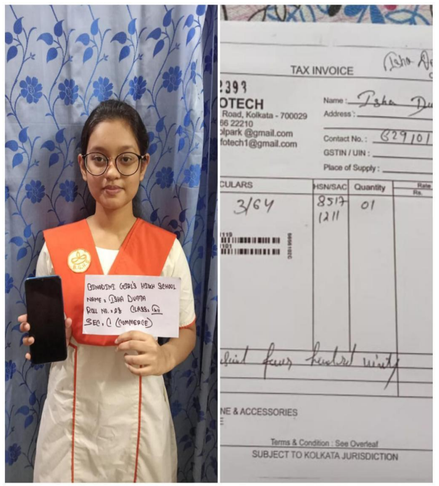
Grading scale for formative Evaluation
A = 75-100%
B = 50-75%
C = 25-49%
D = 0-24%

Grading scale for summative Evaluation
A+ = 90-100%
A = 80-89%
B+ = 70-79%
B = 60-69%
C+ = 45-59%
C = 25-44%
D = 0-24%

(Guardian's Signature) (Class Teacher's Signature) (Signature of HoI.)

Taruner Swapno: Providing financial assistance to the students of Class-XII

Providing financial assistance to the students of Class-XII:

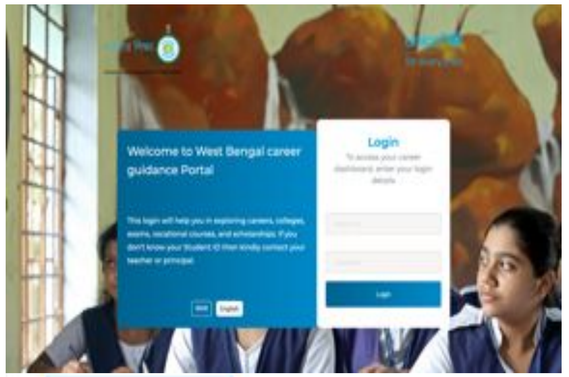


- For procurement of Tablet/PC/Smart phone to facilitate uninterrupted continue studies in on-line mode a financial assistance at a rate of Rs. 10,000/- each was provided to 8.5 lakh students studying in Class-XII through this scheme.

- 110 numbers of Audio-visual materials of simulated class room and lecture sessions on 10 subjects for class XII have been provided through e-portal ***Banglar Shiksha*** and through social media.

Career Portal

The Career Portal provides comprehensive information for students in grades 9–12 on possible career options, choices for colleges, vocational institutions, entrance examinations and scholarships. It has been made to be dynamic and kept updated.



The portal has been organized so that a learner can look up for a career domain and find out the eligibility criteria, educational requirements, choice of colleges in different countries and states that offer the chosen programmes/courses, scholarships and fellowships available, different entry-points, if any, to that field and various growth prospects and options in that career domain.

Features

- Information on 555+ careers, 2.9 lac courses, 24000+ colleges, 1150+ entrance exams and 1200 scholarships
- All content available in multiple languages including Bengali, English, Hindi and others

GLIMPSES OF DIGITAL EDUCATION INITIATIVES

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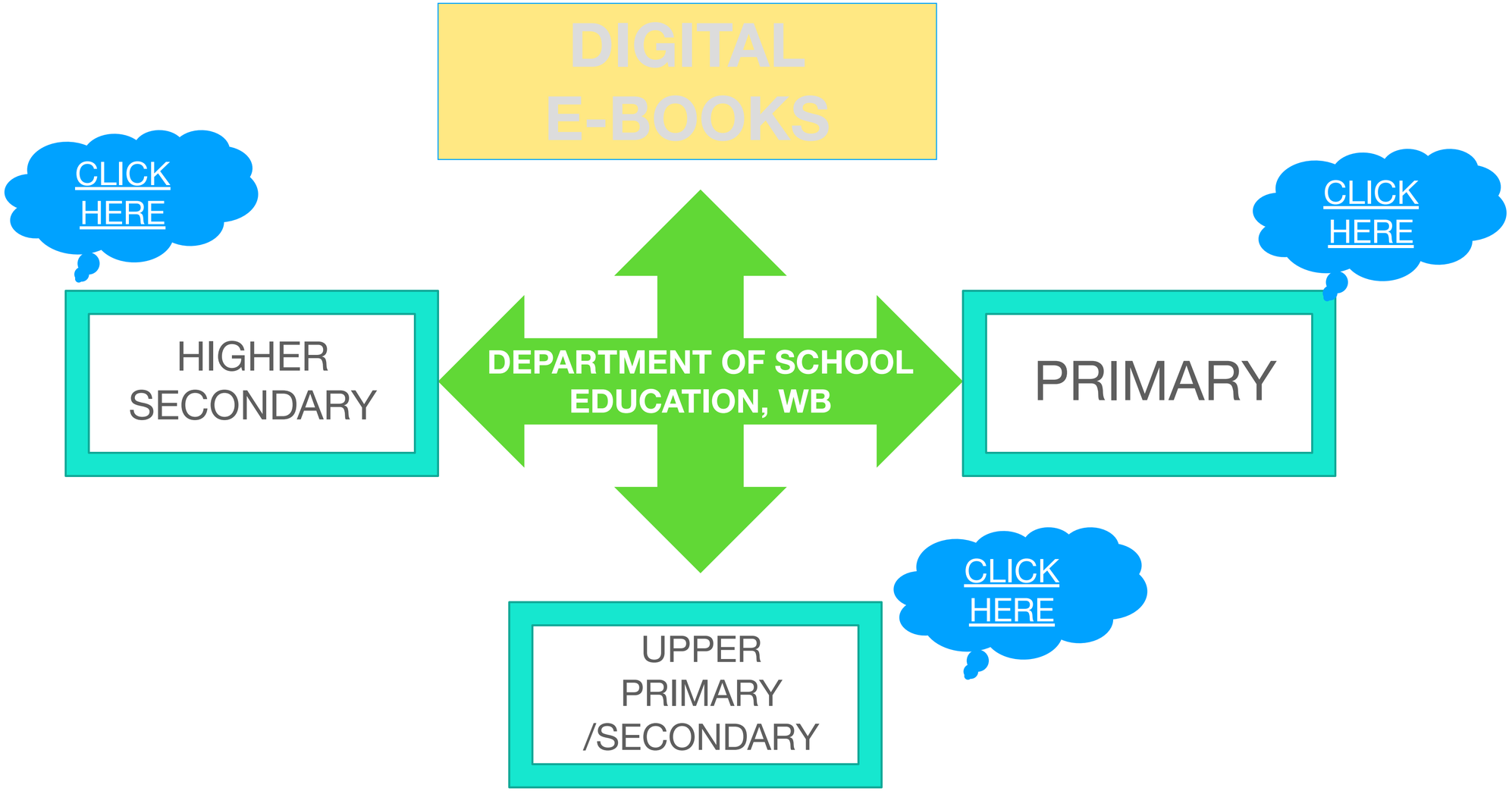
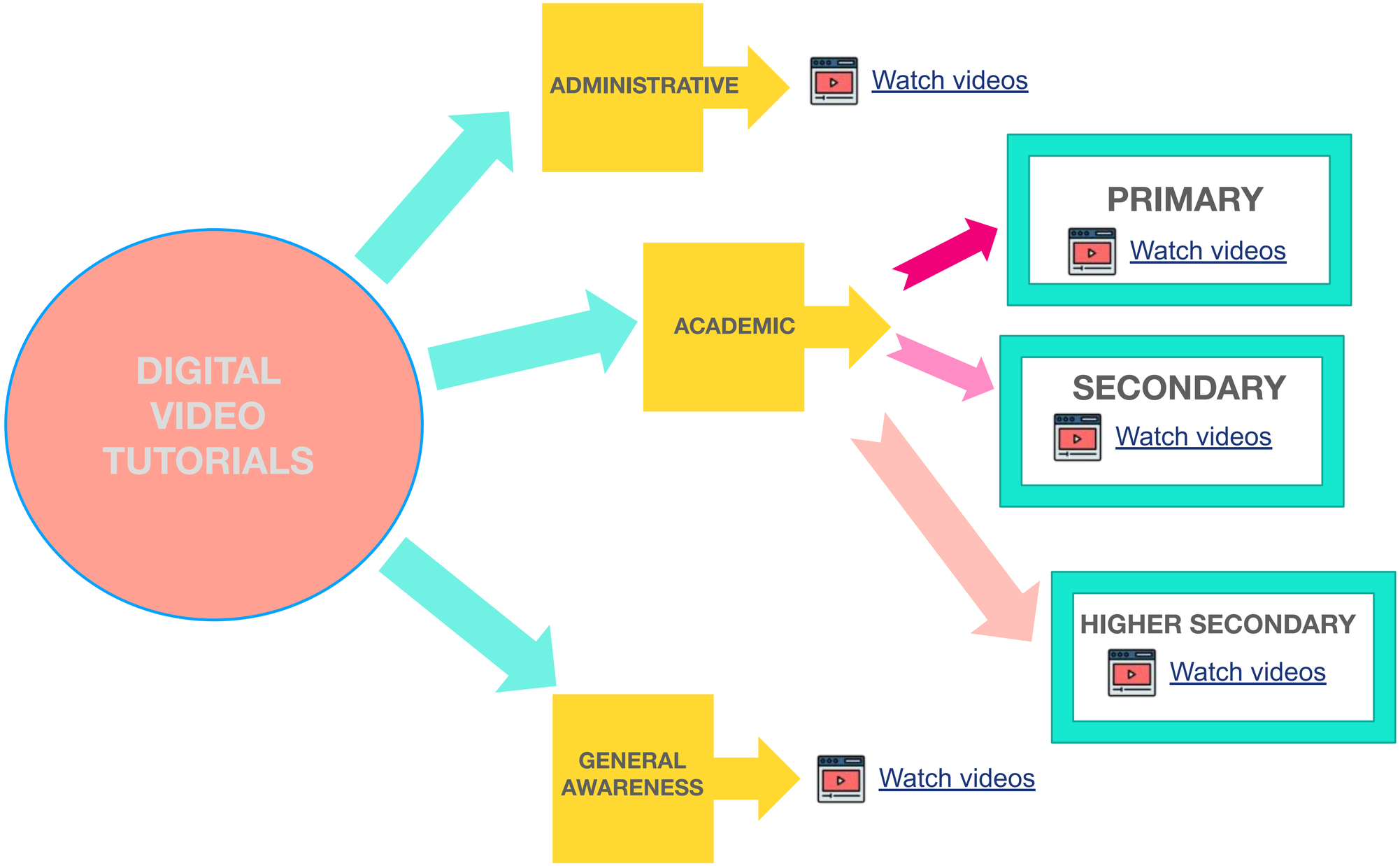
Digital Content Developed for Students



REPOSITORY OF VIDEO TUTORIALS



Teacher Education in West Bengal at the Elementary Stage of School Education

- To address the issues of Teacher Education in the Elementary stage of school education, for Pre-Service Teacher Education (PSTE), the DIETs and PTTIs in West Bengal deliver D.EL.Ed. Programme as per NCTE norms, under the aegis of West Bengal Board of Primary Education (WBBPE).

- The SCERT(WB) has been entrusted by the competent authority with the academic and administrative responsibilities of DIETs from January, 2013 and for Govt./Sponsd./Aided PTTIs from January, 2022.

Pre-Service Teacher Education (contd.)

- The DIETs and PTTIs, imparting PSTE programmes, are spread in different districts all over the state of West Bengal.
- Among the DIETs, eighteen are Main campuses and ten Second campuses.
- Apart from the private ones, there are 43 PTTIs that are Govt./Sponsord./Aided, spread throughout the state.

Teacher Education in West Bengal at the Elementary Stage of School Education (contd.)

The In-Service Teacher Education (ISTE) Programmes for teachers in Elementary Stage of school education in West Bengal are imparted through several organisations under the overall auspices of Department of School Education, GoWB. These organisations are:

- SCERT (WB)
- DIETs
- Commissionerate of School Education, GoWB
- Paschim Banga Samagra Siksha Mission (PBSSM)
- NSATI, West Bengal

Online Initiatives on Teacher Training During Pandemic

- Online classes conducted on Google Meet for D.El.Ed. students in different DIETs during lockdown

- Online assessment through Google form. Click here

- Creation of online repositories for pre-service teachers is in the process of being hosted in a suitable platform. Watch videos

- Online orientation of in-service teachers on different topics like “School Leadership Development Programme” held during pandemic. Watch videos

DIGITAL INFRASTRUCTURE

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DIGITAL FACILITIES USED IN SCHOOL EDUCATION

- SCHOOL MANAGEMENT SYSTEM
- * BANGLAR SIKSHA PORTAL
- * UTSASHREE PORTAL
- * CAREER PORTAL
- * * VARIOUS SCHOLARSHIP PORTALS

* Source: https://banglarshiksha.gov.in/

* * Source: https://scholarships.wbsed.gov.in/ , https://oasis.gov.in

https://www.wbkanyashree.gov.in , https://wbmdfcscholarship.org/

SCHOOL MANAGEMENT SYSTEM

- The Integrated School Management System has been designed to interact mainly with six entities i.e. School Authority/HM, Students/Parents, Teachers, State Authority.
- The objective of the system is to develop an interactive, seamless, real-time, intra departmental communication framework for school level information dissemination.
- Application enables school authorities to manage day today activities of school efficiently.
- Supports login facilities to the Head of the Institutions, teaching and non teaching staff, students & guardians.
- Enables the user to monitor activities of the school like student attendance, academic planning, class routine, individual marks entry and progress report generation, student health information etc.

(https://school.banglarshiksha.gov.in)

REFERENCES

Information Source:

- Prabandh Portal (http://samagrashiksha.in/),
- Banglar Siksha Portal (https://banglarshiksha.gov.in/)

E-Books

- Primary(Amar boi):

  https://banglarshiksha.gov.in/readwrite/etextbook/Amar%20Bai%20Class%20I.pdf

- Upper primary/Secondary(Poribesh O Bigyan Class-VIII):

  https://banglarshiksha.gov.in/readwrite/etextbook/Poribesh%20O%20Bigyan%20Class%20VIII%20Bengali.pdf

- Higher Secondary(Bengali Bhasa O Sanaskrity Class XI):

  https://banglarshiksha.gov.in/readwrite/etextbook/Bengali%20Bhasha%20O%20Sanaskrity%20Class%20XI.pdf

REFERENCES (CONTD)

Online video links:

Class X English : https://www.youtube.com/watch?v=xhl7_ngRpH8

Class X Physics : https://www.youtube.com/watch?v=nhzQ0zu13oo&t=11s

Class X Mathematics: https://www.youtube.com/watch?v=L2rdGHRHlPw

Child with special need: https://www.youtube.com/watch?v=bCnQBeazYz8&t=951s

Cyclone: https://www.youtube.com/watch?v=0kvmsAYz4Zw

Susama ghana bastur dharana (Class VI): https://www.youtube.com/watch?v=X0_U54554Cw&t=83s

চৌবাচ্চায় কত জল আছে দেখি (Class-VI): https://www.youtube.com/watch?v=8bNuaDZDEJQ

Thank you …

… for your patient audience.