e**विद्या**dya

Fight COVID-19

stay safe and learn from home

From the
Joint Director's Desk

It gives me immense pleasure to write about the activities undertaken by the Central Institute of Educational Technology (CIET) during this quarter.

As an institution working for technological interventions at school level, it undertook all its digital initiatives in a wholesome manner keeping in mind the COVI-19 pandemic and the need of learners. Production of programmes (audio & video) based on NCERTS's curriculum for PM eVidya was done on a war footage. Experts of various subjects from various organisations contributed in recording and reviewing these programmes.The programmes are being made available to the learners across the country with the help of TV telecast on PM eVidya 12 DTH TV Channels and radio broadcastthrough 85 radio stations(Gyan vani FM and Community Radio). The programmes (recorded and live interactions) were also made available on Jio TV app, JioSaavn app and NCERT Official YouTube channel. As recommended by NEP 2020,coherence has been established between TV and radio with internet-based DIKSHA platform.The initiative aims to reach out to the educational needs of even those learners who do not have access to internet and the available means and platforms.

The 7th cycle of MOOCs on SWAYAM was also launched on 17 October, 2020 with 33 courses (29 courses for students and 03 generic courses and 01 course for Teacher Educators). The response was satisfactory with 22,864 enrollments till the end of the quarter.

As the NISHTHA-Integrated Training of School Teachers was launched online on DIKSHA platform in the previous quarter, teachers were able to take up the courses for their enrichment. As one of the largest in-service training programmes the enrollments reached 3.1 crore with 2.8 crore course completions.

In order to enhance the inclusivity of education and cater to the needs of CWSN children, a MoU was signed between NCERT and Indian Sign Language Research and Training Center(ISLRTC) on the occasion of the 60th Foundation Day of NCERT. This collaboration will be helpful in developing digital content for hearing impaired children of the country in Indian Sign Language (ISL).

Apart from these digital initiatives various other activities were undertaken in the programmes of the institution. I will keep our stakeholders informed about the work done by our institution with the help of our newsletters on a regular basis.

Amarendra P. Behera

Under the effect of **ICT interventions on enhancing classroom practices in schools adopted by NCERT** data collection from the state of Karnataka was initiated. Data analysis of MP, Odisha and Rajasthan data has been completed. Planning of 2nd Phase of the research i.e. ICT intervention is being done in three blocks i.e. Chilika, Icchawar and Hurda.

In the **development and launch of online certificate course on research methodology in education**, Modules 1 & 2 have been reviewed and finalized and 15 videos are ready for review.

Under **Development and Dissemination of Educational Media Programs** audio and video productions are done.

Audio-video & Multimedia Production:
253 audio programmes were produced during this quarter. The details are given in Table-1.

Table-1: Audio programmes produced during October-December, 2020

Sr. No.	Title of the Programme		No. of Programme
01	Hamare ateet	Audio Books	8 (chapters)
02	Honeycomb		10 (chapters)
03	Honeydew		10 (chapters)
04	It so happened		10 (chapters)
05	Bal Ram Katha		13 (chapters)
06	Ibtedai Urdu 3		20 (chapters)
07	Ibtedai Urdu 4		22 (chapters)
08	Ibtedai Urdu 5		22 (chapters)
09	New Educational Policy (Hindi)		27 (chapters)
10	eWaste Audio Voice over for Animation		
11	eComic on Sugamyata (Hindi and English)		18 Programs
12	Gender Equality (Hindi and English)		3 + 3 = 6
13	Kala Utsav Jingle		01
14	International Toy Fair Jingle		01
15	PM eVidya		84 lessons
	Total		**253**

Preview:

Total 1,098 eContent were reviewed in online review workshop. The details of e-Content reviewed have been given in Table-2.

Table-2: Programmes reviewed during October-December, 2020

Sr. No.	State/ Institution	No. of Videos/programs
01	Assam State DTH TV	52
02	Uttar Pradesh State DTH TV	182
03	Punjab State DTH TV	54
04	Karnataka State	42
05	Rotary India Literacy Mission	335
06	RIE - Bhubaneswar, NCERT	63
07	RIE - Bhopal, NCERT	45
08	RIE – Ajmer, NCERT	69
09	RIE - Mysore, NCERT	35
10	CIET	413
11	Sikshit Haryana and Arpan	10
12	Manish Jain IIT	06
13	SeShagun	476 eContent (including Documents, Videos and Photographs)

Development of e-resources for the School and Teacher Education (AR–VR) also had works related to creation of e-resources. Under this, 24 digital illustrations were developed for stories based on textbooks Rimjhim of classes 1-5 (03 were produced as video programs). About 16 AR contents were modified based on subject experts' suggestions. Other worksunder the programme included creation of Live plates (everyday), webinar banners everyday), text plates (1,000), banners (27), social media banners (24), infographics(50), animations (10), NISHTHA Modules (18), ICT Hand Book Design (01), ICT Book Design (02) and graphics (150), 26 audio recordings were done for AR contents based on science textbook of 9& 10. Workshop on development of AR based on science textbook was also conducted.

Under the **Development of ICT in Education courses for Teachers and Students**,Designing and reviewing of Year 1, Induction 1 handbook has been done and Year 1 tutorial book was done. Guidelines on cyber safety and security for parents were revised based on the inputs on mental health and its Hindi version was completed. 169 video tutorials were developed and 136 were finalised through virtual workshops. The eWaste management course

has been uploaded after customization. First discussion with CDAC has been conducted for developing the cyber safety curriculum level-wise. Gaps have been identified in Year 2 student content. Review of ICT Awardee testimonial was also done along with digital games for education. Refresher 1 and 2 courses are under the process of development in Collaboration with MeitY. Course in Cyber hygiene is also in the process of development.

Under **Organization of Online Certificate Course on Action Research in Educational Technology**, 336 forms (247 applicants were from government organisations and 89 from private organisations) were been received till 31 October, 2020 for which scrutiny was done and 200 candidates were selected for the course whereas, 37 candidates were waitlisted. The course was started from 01 December, 2020. Initial test was conducted and Module 1 resources and assignment section was made open for all participants. Synchronous meeting was also conducted for resolving issues of participants.

Under **Rollout of ICT and pedagogy integration curriculum in States/ UTs**, 21 sessions were conducted as a part of Webinar for various stakeholders on ICT tools and certificates were distributed. Discussion was held with Karnataka team on implementation strategy of ICT curriculum during COVID. In order to finalise the modalities, first meeting with CDAC for designing the online orientation of SRGs on cyber safety was conducted.

Under **Development of model for ICT integrated school system**, first meeting was conducted for Collaborative activity between DMS, Mysore and Ohel School, Israel and 2 collaborative activities were conducted. First meeting was also conducted for Collaborative activity between DMS, Bhubaneswar and Hovevei Zion School Israel and 02 activities were conducted.

Development of Resources and Support for Web and Online Activities (Portal and mobile apps) had activities like, for development of ePub, workshop on Digitization of NCERT textbook was conducted, development of H5P interactive content and regular uploading videos on NCERT official Youtube channel and mapping on SSP Mauritius portal.

In **Online Publication of Indian Journal of Educational Technology and Newsletter**, around 107 manuscripts were received for the 5thissue of CIET's journal, Indian Journal of Educational Technology (IJET). The metadata for all the manuscripts has been prepared and peer review of manuscripts was carried out. List of reviewers was shared with the editorial board for further updating and a discussion with the editorial board was done for getting suggestions for improving publication of IJET. CIET's Newsletter - April-June 2020 issue was compiled.

Development of course materials for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education) saw the completion of Cycle 6 for 33 MOOCs on SWAYAM on 29 October, 2020 and enrollment for Cycle 7 was opened from 17 October, 2020.

Following 33 courses for Cycle 7 were running on SWAYAM (29 courses for students and 03 generic courses and 01 course for Teacher Educators already running).

1. Accountancy XI Part-I: 1348
2. Biology XI Part-I: 1312
3. Biology XI Part-II: 730
4. Biology XII Part-I: 826
5. Business Studies XII Part-I: 408
6. Chemistry XI Part-I: 1234
7. Chemistry XI Part-II: 761
8. Chemistry XII Part-I: 871
9. Economic XI Part-I: 704
10. Economic XII Part-I: 487
11. Geography XI Part-I: 669
12. Geography XII Part-I: 358

13. Mathematics XI Part-I: 1063	23. FNHL: 1756
14. Mathematics XII Part-I: 699	24. Accountancy XII Part-I: 736
15. Physics XI Part-I: 1199	25. Business Studies XI Part-I: 293
16. Physics XI Part-II: 784	26. Mathematics XI Part-II: 676
17. Physics XII Part-I: 945	27. Geography XI Part-II: 377
18. Physics XII Part-II: 733	28. Psychology XI Part-II: 271
19. Psychology XI Part-I: 545	29. Accountancy XII Part-II (New): 472
20. Psychology XII Part-I: 329	30. Geography XII Part-II (New): 326
21. Sociology XI Part-I: 341	31. Urdu Language Script Learning: 687
22. Sociology XII Part-I: 230	32. Urdu Language Teaching: 694

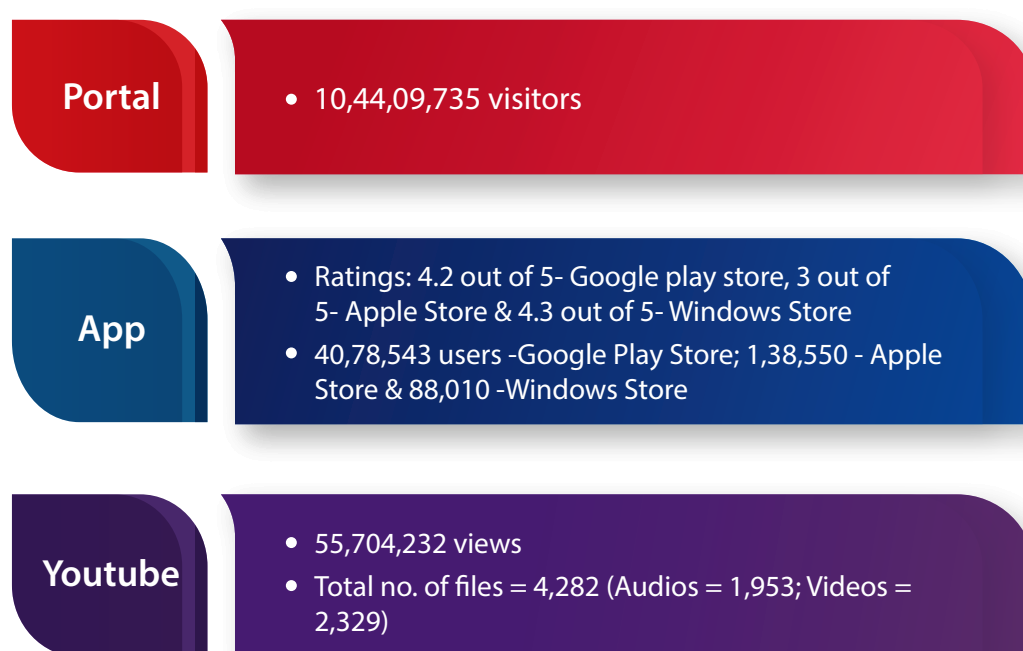The total number of enrollments in this cycle till 28 Dec, 2020 was 22,864.

Development and Maintenance of Mobile Apps and Digital Platforms (DIKSHA, Epathshala and NROER)

NROER: The regular process of creation of metadata and uploading of various audio-video, new media and lab manual resources was done. The repository had 19,149 e-Contents, 20.8 crore hits in a day and 9k unique users.

Discover Gandhi Quiz: On the occasion of celebrating Gandhiji's 150th birth anniversary, the Discover Gandhi Quiz was developed and designed by NCERT to make children know the life, ideals and values Gandhiji stood for. By attempting the quiz, the children will be able to understand and appreciate the multifaceted contribution of Gandhiji in all walks of life.The quiz has been developed in Hindi as well as English medium and also has a text to speech option in the form of an audio button to enable participation by maximum number of students including Children With Special Needs (CWSN). The quiz is running successfully and has received participation from students across the country from different grade levels. The Quiz remained open from 02 October, 2020 to 31 January, 2021. In all, a total of6,64,870 learning sessions were recorded.
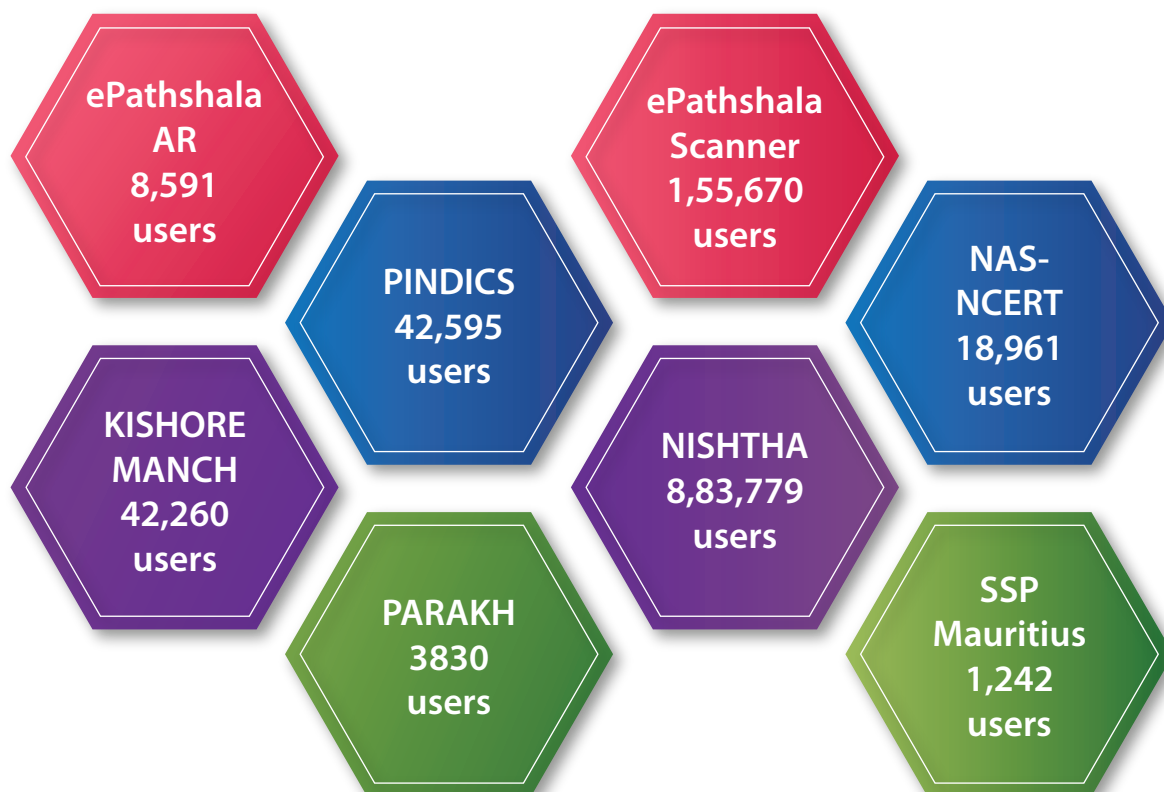
ePathshala: For Urdu digital textbook conversion to Unicode font a workshop was organized from 16-22 December, 2020 in which 12 URDU digital textbooks were converted.

Figure-1: Analytics of ePathshala

Portal
- 10,44,09,735 visitors

App
- Ratings: 4.2 out of 5- Google play store, 3 out of 5- Apple Store & 4.3 out of 5- Windows Store
- 40,78,543 users -Google Play Store; 1,38,550 - Apple Store & 88,010 -Windows Store

Youtube
- 55,704,232 views
- Total no. of files = 4,282 (Audios = 1,953; Videos = 2,329)

Total no. of books as ePub on ePathshala were 696 and total no of Flipbooks were 504. The NCERT Official Facebook Insights showed: Total no. of likes as 38,946; total no. of followers: 45,024 and total no. of checked in: 12,146. Seven states i.e. Andhra Pradesh, Delhi,Haryana, Karnataka, and Uttar Pradesh have started digitization of textbooks and submitted 152 books (Andhra Pradesh- 63, Delhi- 88, Haryana- 15, Karnataka- 1, Uttar Pradesh- 33, Manipur- 1, Mizoram- 1) on ePathshala and ePathshala has been listed/shared/available on the UMANG app of Govt. of India, MeitY.Support was also provided to DAE- MHRD, Haryana SCERT, Mauritius, PSSCIVE- NCERT, SCERT Manipur, Tripura SCERT andUP SIET.

Figure-2: Branding of ePathshala mobile app with no. of users till December, 2020

ePathshala AR 8,591 users

ePathshala Scanner 1,55,670 users

PINDICS 42,595 users

NAS-NCERT 18,961 users

KISHORE MANCH 42,260 users

NISHTHA 8,83,779 users

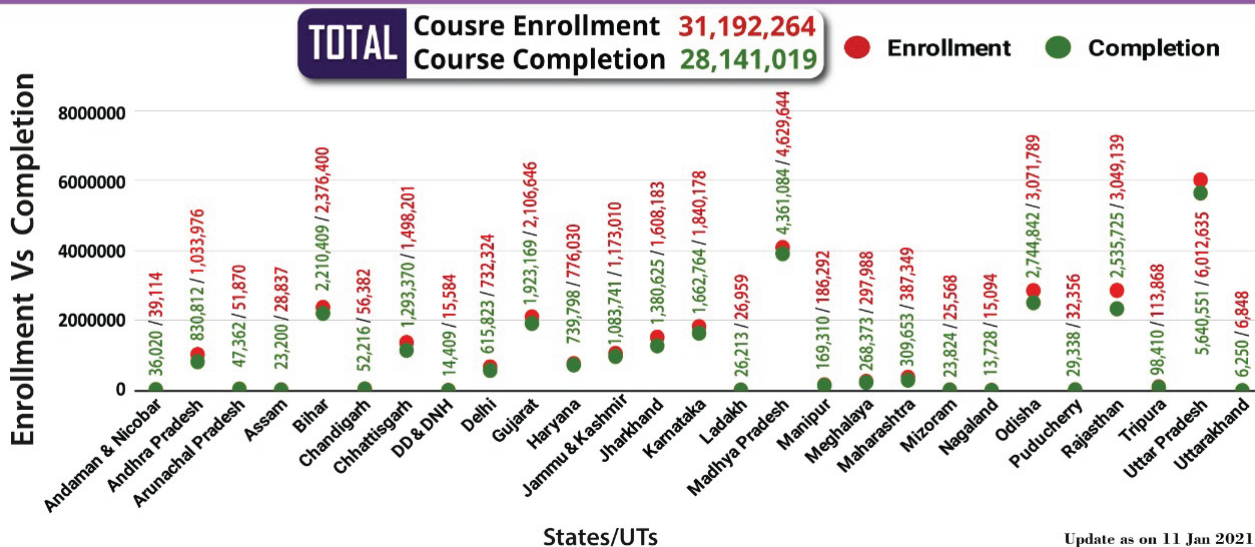PARAKH 3830 users

SSP Mauritius 1,242 users

DIKSHA portal and mobile app had 3,499 eBooks; 1,30,737 e-Contents and 461 Courses as e-resources for free access to the learners from across the country.
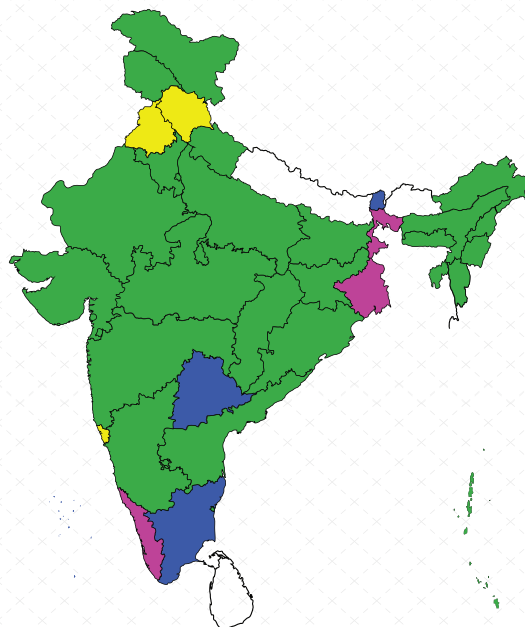
National Initiative for School Heads' and Teachers' Holistic Advancement (NISHTHA)

One dedicated ICT Module developed & used for training of 17.5 lakh Teachers across and head teachers in face-to-face mode. During COVID-19 pandemic situation about 23 lakh teachers have been trained on ICT module of NISHTHA online on DIKSHA. Orientation of coordinators and technical coordinators of autonomous organisations on implementation of NISHTHA online on DIKSHA was done.

Course Enrollment & Completion - States/UTs

| TOTAL | Cousre Enrollment | 31,192,264 | ● Enrollment |
| | Course Completion | 28,141,019 | ● Completion |

Enrollment Vs Completion

State/UT	Completion / Enrollment
Andaman & Nicobar	36,020 / 39,114
Andhra Pradesh	830,812 / 1,033,976
Arunachal Pradesh	47,362 / 51,870
Assam	23,200 / 28,837
Bihar	2,210,409 / 2,376,400
Chandigarh	52,216 / 56,382
Chhattisgarh	1,293,370 / 1,498,201
DD & DNH	14,409 / 15,584
Delhi	615,823 / 732,324
Gujarat	1,923,169 / 2,106,646
Haryana	739,798 / 776,030
Jammu & Kashmir	1,083,741 / 1,173,010
Jharkhand	1,380,625 / 1,608,183
Karnataka	1,662,764 / 1,840,178
Ladakh	26,213 / 26,959
Madhya Pradesh	4,361,084 / 4,629,644
Manipur	169,310 / 186,292
Meghalaya	268,373 / 297,988
Maharashtra	309,653 / 387,349
Mizoram	23,824 / 25,568
Nagaland	13,728 / 15,094
Odisha	2,744,842 / 3,071,789
Puducherry	29,338 / 32,356
Rajasthan	2,535,725 / 3,049,139
Tripura	98,410 / 113,868
Uttar Pradesh	5,640,551 / 6,012,635
Uttarakhand	6,250 / 6,848

States/UTs

Update as on 11 Jan 2021

NISHTHA Online - Implementation Status

● Completed NISHTHA online (27 States/UTs)
● NISHTHA online in progress (Goa, Himachal Pradesh, Punjab)
● Completed NISHTHA training (Lakshadweep, Sikkim, Tamil Nadu, Telangana)
● NISHTHA not Initiated (Kerala & West Bengal)

Update as on 16 May 2021

NISHTHA ONLINE on DIKSHA

National Initiative for School Heads' and Teachers' Holistic Advancement

Course-wise Report

| TOTAL | Enrollment | in Course | 35,708,594 |
| | Completion | | 30,209,768 |

1 Curriculum and Inclusive Classrooms
Enrollment 3,381,459
Completion 2,368,081

2 Developing PSQ for Creating a Safe and Healthy School Environment
Enrollment 3,057,299
Completion 2,232,007

3 Health and Well-being in Schools
Enrollment 2,866,771
Completion 2,214,090

4 Integrating Gender In Teaching Learning Process
Enrollment 2,486,082
Completion 2,199,927

5 Integration of ICT in Teaching, Learning and Assessment
Enrollment 2,427,479
Completion 2,114,861

6 Art Integrated Learning
Enrollment 2,389,910
Completion 2,124,211

7 School Based Assessment
Enrollment 2,308,649
Completion 2,089,281

8 Pedagogy of Environmental Studies
Enrollment 2,190,000
Completion 2,035,119

9 Pedagogy of Mathematics
Enrollment 2,188,603
Completion 2,002,311

10 Pedagogy of Social Sciences
Enrollment 2,333,215
Completion 2,130,641

11 Pedagogy of Language
Enrollment 2,349,293
Completion 2,116,124

12 Pedagogy of Science
Enrollment 2,243,415
Completion 2,053,765

13 School Leadership: Concepts and Applications
Enrollment 1,063,548
Completion 927,434

14 Initiatives in School Education
Enrollment 1,008,216
Completion 897,147

15 Preschool Education
Enrollment 997,325
Completion 876,972

16 Pre-vocational Education
Enrollment 904,841
Completion 745,180

17 Covid-19 Scenario: Addressing Challenges in School Education
Enrollment 833,169
Completion 665,271

18 Understanding Rights, CSA and The POCSO Act,2012
Enrollment 679,320
Completion 417,346

Update as on 11 Jan 2021

NISHTHA on DIKSHA

National Initiative for School Heads' and Teachers' Holistic Advancement
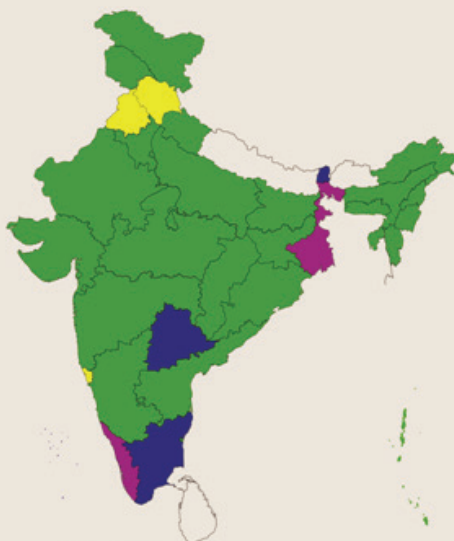
18 Modules in 10 Languages

27 States / UTs

7 Autonomous Organisations under MOE & MOD

Approx. **23** Lakh Teachers

3.6 Crore Course Enrollments

3 Crore Course Completions

Update as on 11 Jan 2021

nishtha.ncert.gov.in

PM eVidya

PM eVidya encompasses dissemination of e-content through TV telecast, radio broadcast and DIKSHA platform. TV telecast has recorded programmes and live interactive sessions.

PM eVidya DTH-TV Live telecast:

1. Class 1 to 10 Live programmes: 256 Live interactive sessions of 30 minutes each have been telecast on class based channels (1 to 10). It covered about 128 hours of telecast.

2. Class 11 & 12 Live programmes: 24 live interactive sessions of 60 minutes each have been telecast based on class based channels (11 & 12). It covered about 24 hours of telecast.

3. Webinar on ICT tools: 66 webinars on ICT tools each for one hours have been telecast for teachers, teacher educators and stakeholders. It covered about 66 hours of telecast.

4. SAHYOG: guidance for mental wellbeing of children: 66 live sessions of counselling 'SAHYOG: guidance for mental wellbeing of children' have been transmitted live covering about 33 hours.

PM eVidya 12 DTH-TV Channels telecast:

1. Channel 1 to 10 (Class 1 to 10): 2 hours fresh slot with 11 times repeat. The slot starts at 12 O' Clock night.
2. Channel 11 and 12 (Class 11 & 12): 3 hours fresh slot with 8 times repeat. The slot starts at 12 O' Clock night.

Telecast for States on PM eVidya Channels:

1) Punjab state is transmitting their programmes on class 6, 7, 8 and 12 on trial basis.
   a) Class 6 PM eVidya channel: 91 hours of programmes (1hour daily)
   b) Class 7 PM eVidya channel: 91 hours of programmes ((1 hour daily)
   c) Class 8 PM eVidya channel: 91 hours of programmes (1 hour daily)
   d) Class 12 PM eVidya channel: 91 hours of programmes (1 hour daily)

2) Assam state started transmitting their programmes w.e.f. 05 September, 2020 on class 6, 7, 8, 9, 10 and 12 on trial basis.
   a) Class 6 PM eVidya channel: 45.5 hours of programmes (1/2 hour daily)
   b) Class 7 PM eVidya channel: 45.5hours of programmes (1/2 hour daily)
   c) Class 8 PM eVidya channel: 45.5hours of programmes (1/2 hour daily)
   d) Class 9 PM eVidya channel: 45.5hours of programmes (½ hour daily)
   e) Class 10 PM eVidya channel: 45.5hours of programmes (1/2 hour daily)
   f) Class 12 PM eVidya channel: 91 hours of programmes (1hour daily)

3) Uttar Pradesh state started transmitting their programmes w.e.f. 7th September on class 9 and 11 on trial basis.
   a) Class 9 PM eVidya channel: 91 hours of programmes (1 hour daily)
   b) Class 11 PM eVidya channel: 91 hours of programmes (1hour daily)

Apart from the DTH TV channels, all the programmes of PM eVidya are also available on Jio TV App and on NCERT Official YouTube Channel. The viewership details are given in fig-3 & 4.

**Figure-3: Viewership of PM eVidya Channels 1-12 on Jio TV App
(October-December, 2020)**
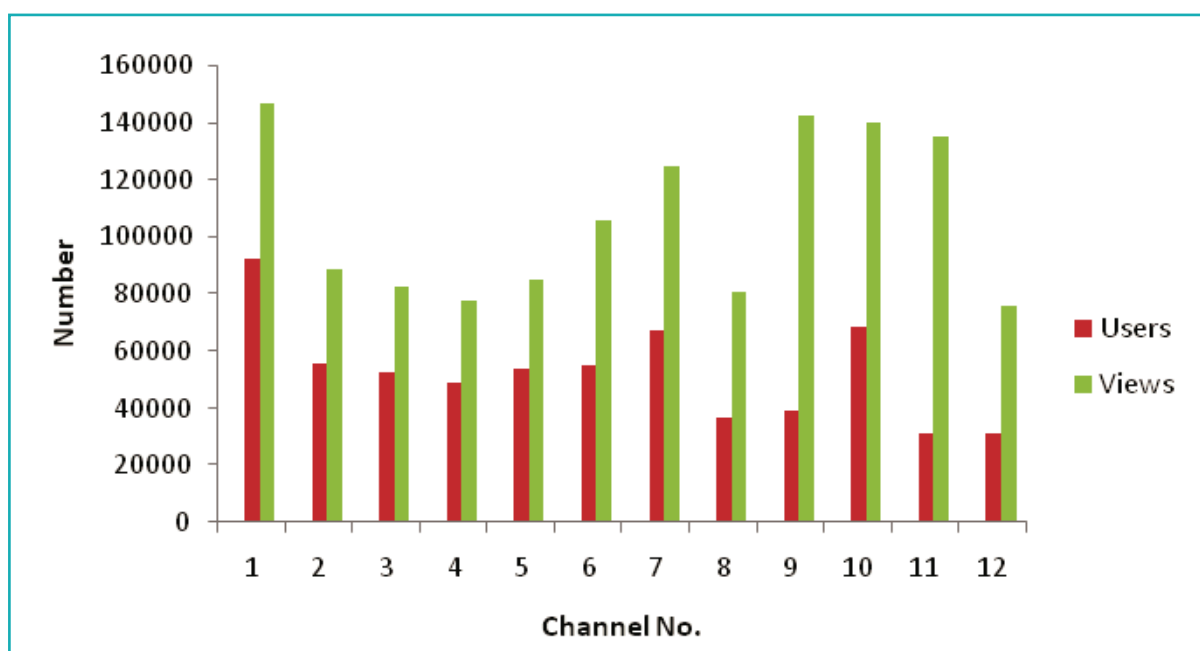
**Figure-4: Viewership of PM eVidya Channels 1-12 on NCERT Official Youtube Channel
(September-December, 2020)**
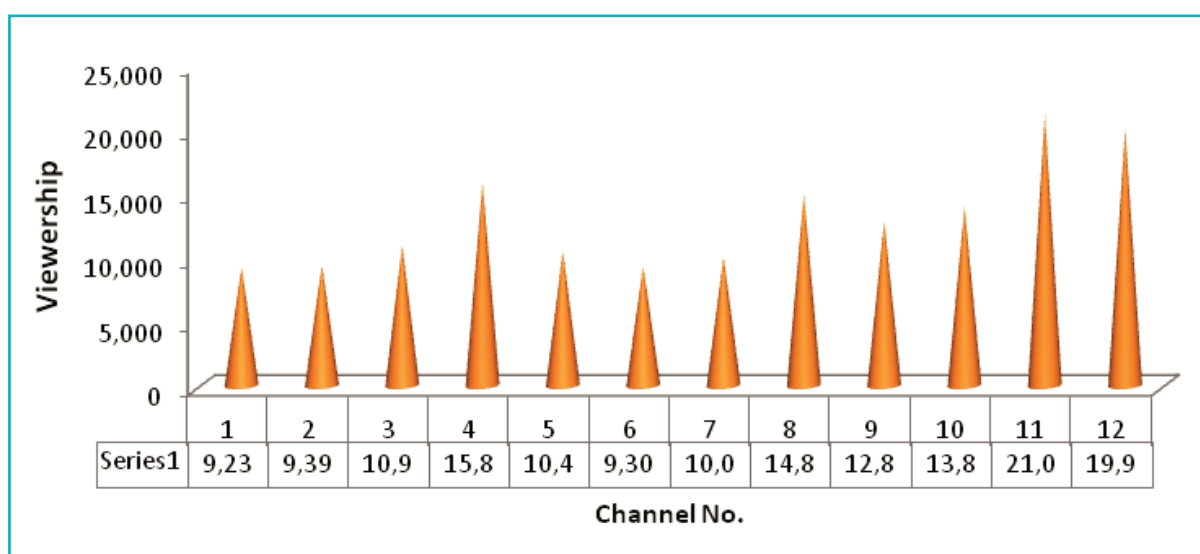
Till December, 2020 unique chapter linked on DIKSHA for Grades 1-12 (Chapters 1-6) was 99.13% in English medium and 93.38% in Hindi medium. An online review workshop to re-review the e-content of Economics, Geography, History and political Science subjects of Social Science uploaded on DIKSHA was conducted. In all 1,535 e-content was reviewed by 54 experts belonging to various subjects. Certificates were given to all the reviewers.

The radio broadcast of audio programmes is carried out on 85 Radio Stations (12 Gyan Vani FM Radio Stations at 105.6 MHz frequency, 73 Community Radio Stations with frequency ranging between 97.4 to 107.8 MHz) and Podcasts on iRadio and Jio Saavn Mobile app.

Participation in Conferences/Seminars and publication:

Dr. Amarendra P. Behera participated as a panelist on the launch of Teachers Portal & Hindi Module, ATL Game development Platform, organised by NITI Aayog and ATL on 04 December, 2020.
https://www.youtube.com/watch?v=Z9EjQaq9PZY

Promotion:

Sr. No.	Name & Designation	Date	Remarks
01	Smt. Vimlesh Chaudhary Audio Radio Producer, Gr-3	02.10.2020	Promoted to Audio Radio Producer Gr-2
02	Batileng Lyngdoh Engineering Assistant	02.10.2020	Promoted to Assistant Engineer

Retirement:

Sr. No.	Name & Designation	Date	
01	Smt. Suman Bali, APC	30.10.2020	Superannuated from CIET

Other Activities:

A Memorandum of Understanding (MoU) was signed between NCERT and Indian Sign Language Research and Training Center (ISLRTC) on 06 October, 2020 to make education materials accessible for hearing impaired children in their preferred format of communication. This MoU was signed in the virtual presence of Hon'ble Union Minister for Social Justice and Empowerment, GoISri Thawar Chand Gehlot and Hon'ble Union Education Minister, GoI, Dr. Ramesh Pokhriyal 'Nishank'.As part of this MoU, educational print materials including NCERT Textbooks, Teachers Handbook and other Supplementary materials and resources of Class I-XII of all subjects of both Hindi and English Medium will be converted into Indian Sign Language (ISL) in Digital format.

Know Our Constitution: A Quiz was launched on 26 November, 2020 on ePathshala. The quiz remained open from 27 November, 2020-26 December 2020. A total of 3,795 learning sessions were recorded till 26 December, 2020.

A workshop on the Development of Problem Statement for Toy Hackathon was organized 0n 10 December, 2020 which was made live on PM eVidya Channels from 11:00 am-1:30pm and 3:30-6:00pm.

ePathshala	NROER	DIKSHA	SWAYAM
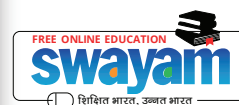
SWAYAM PRABHA	ICT CURRICULUM	NISHTHA	PINDICS