

Central Institute of Educational Technology (CIET), NCERT

NEWSLETTER 3

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1 July - 30 September 2020



Fight COVID-19

Stay Safe and Learn from Home



From the Joint Director's Desk

It is a pleasure yet again to share the works that the Central Institute of Educational Technology (CIET) has undertaken in this quarter. Though the effect of COVID-19 pandemic impacted the usual functioning of the world and also our institution but, as an institute of technology it built upon its online platforms and tried to utilize its expertise in development and dissemination of e-content.

The most important development that took place during this quarter was production and broadcast/telecast of audio and video programmes under the initiative, PM e-VIDYA. The idea was to produce programmes for each chapter of NCERT's textbook for all the classes from Class I-XII under PM-e-VIDYA. This programme was started under the spirit of 'Atma Nirbhar Bharat' and aims to cater to all the learners who were otherwise left behind due to the closure of schools during the COVID-19 pandemic outbreak. Since the last quarter stage-wise live sessions were being telecast according to the Alternative Academic Calendar (AAC) developed by NCERT. Telecast of programmes developed by states such as, Assam, Haryana, Punjab and Uttar Pradesh were also telecast by CIET on its DTH TV channel, Kishore Manch. Taking a step ahead 12 channels were started on 01 September, 2020, dedicated to each class from Class I-XII under PM e-VIDYA. The chapter-wise coverage of course through these channels and also broadcast through radio required design and development of curriculum-based programmes at a large scale. For production of these programmes, immense effort was put in to meet the demands of these 12 channels which was carried out in collaboration with KVS, NVS, CBSE, NIOS and other agencies.

The face-to-face mode of training already trained 23,000 Key Resource Persons and 17.5 lakh teachers and school heads which was put on hold due to the pandemic outbreak. Keeping at pace with the need of the hour, countrywide training of teachers under NISHTHA was started online on 17 July, 2020 for Andhra Pradesh state as a pilot. Based on the success of the pilot, NISHTHA integrated training was launched as MOOC on DIKSHA platform on 6th Oct 2020 for 24 lakh remaining teachers. The online mode also started with overwhelming response.

Apart from these, various other programmes and activities including webinars, quizzes, workshops, etc. were undertaken by CIET. We will keep all our stakeholders informed on these through our newsletters. With this I take this opportunity to wish everyone a safe and healthy life ahead and help us in serving the nation.

Amarendra P. Behera

Details of activities undertaken by CIET under various programmes during this quarter are as follows:

Under Effect of ICT Interventions on Enhancing Classroom Practices in schools adopted by NCERT, The results have been compiled for the three states Madhya Pradesh, Rajasthan and Odisha. Next stage of research in which ICT intervention has to be done in the Three Blocks i.e. Chilika, Icchawar and Hurda is under planning.

In **Impact of ICT in Education Courses implemented in Karnataka: An Evaluative Study**, collection of reports from Karnataka was done and discussion with DSERT was carried on the research conducted by them during 2019-20.

Under **Development and Dissemination of Educational Media Programs**, audio and video productions are done. Under audio production: -1,271 audio programs were produced. 01 Month schedule for telecast in GyanVani radio channel has been prepared and is being run. Under video production: 62 PM e-VIDYA and 03 generic programs were recorded, 40 PM e-VIDYA and 03 generic programme have been edited. These video programmes have been recorded in various subjects such as, Mathematics, English, Sanskrit, Pre-school and Hindi, etc. for various classes. **Audio-video & Multimedia Production**.

The total numbers of audio programmes produced (recorded) during this quarter were 251.

Sr. No.	Title of the Programme	No. of programme
	Audio Books	
01	Humare Aaspas3	22 (chapters)
02	Ibtedai Urdu 1	27 (chapters)
03	Ibtedai Urdu 2	20 (chapters)
	Mahatama Gandhi quiz	
04	Hindi 255 questions	50
05	English 255 questions	50
06	Surya Mandir Ahmedabad Voice over for video	01
07	Audio recording for video programme on COVID-19	01
08	Augmented reality Voice over for Biology	01
09	Augmented reality Voice over for Physics	01
10	Bhasha Sangam 100 sentences in Hindi, English, Urdu and Sanskrit	04

Table: Audio programmes produced (recorded) during July-September, 2020

11	NCERT documentary in Hindi & English	01
12	Alternative Academic Calendar	01
13	NISHTHA Promo in Hindi & English	01
14	Umang Jingle in Hindi	01
15	PM e-VIDYA Promo in Hindi	01
16	PM e-VIDYA	69 lessons
	Total	251

In video production, 62 PM e-VIDYA and 03 generic programs were recorded, 40 PM e-VIDYA and 03 generic programmes have been edited during this quarter.

Preview:

Total 1,271 videos were reviewed through online review workshops (Table).

Table: Audio programmes produced (recorded) during July-September, 2020

Sr. No.	Organisation/Subject	No. of videos
01	Assam State DTH TV	38
02	Jammu & Kashmir (UT) DTH TV	19
03	Punjab State DTH TV	415
04	Uttar Pradesh State DTH TV	179
05	Maharashtra State DTH TV	66
06	Senscilen Interactives	09
07	Rotary India Literacy Mission	174
08	RIE Bhubaneswar – NCERT	125

09	RIE Bhopal-NCERT	10
10	RIE Ajmer-NCERT	27
11	RIE Mysore- NCERT	37
12	CIET-NCERT	83
13	IISC Bangalore	06
14	UTA	52 e-content (31 Videos + 21 PPTs)
15	Teachers of Bihar (ToB)	31

In **Development of e-resources for the School and Teacher Education (AR–VR)**, development of 16 AR contents based on science textbook of class-9th & 10th were carried out. 16 digital illustrations based on textbooks of class1-5 (Rimjhim) were done for stories, in which 3 were produced as video program. Recording of audio for 26 AR contents based on science textbook of classes 9 & 10 was carried on. Workshop on development of AR based content on Science textbook is going on.

The **Development of ICT in Education courses for Teachers and Students** included activities like, Student Year 2 Content and lessons were developed. Internal review of draft 1 of the booklet on 'Mobile apps for Education' was completed. Testimonials of 16 awardees were developed which are under first review and testimonials of 92 awardees are under second review by externals. Contents for the refresher course 'Social, ethical and legal aspect of using ICT' was identified. Guidelines on cyber safety and security for parents were prepared and draft was shared for internal review. Handouts on plagiarism and netiquette were developed. Second draft of Digital Games for Education was finalised.

Under **Organization of Online Certificate Course on Action Research in Educational Technology**, One online synchronous meeting was conducted to resolve queries of participants. End test was conducted and evaluation was done. Registration was made open for the online action research in educational technology course. 160 forms have been received till 31 August, 2020. Last date of registration has been extended to 15 September, 2020. Till 30 September 2020, 321 forms have been received.

In another training programme i.e. **Rollout of ICT and pedagogy integration curriculum in States**/ **UTs**, 30 sessions were conducted as a part of Webinar for various stakeholders on ICT tool. Assessment of Induction 1 course of ICT Awardees is in progress. 143 sessions were conducted as a part of Webinar for various stakeholders on ICT tool. Planning meeting with Karnataka ICT curriculum team was done on implementation of ICT courses in online mode. 18 sessions were conducted as a part of Webinar for various stakeholders on ICT tool.

Under **Development of model for ICT integrated school system**, collaborative activity between DMS, Mysore and Israel School was initiated. Training session on "Conducting Online Classes, using Google Meet' on 3 June, 2020. Collaborative activity between DMS, Mysore and Israel School planning started.

In **Development of Resources and Support for Web and Online Activities (Portal and mobile apps)** the initiative called NCERT Google Assistant was launched. Using Google Assistant, students can connect by saying "Talk to NCERT" and listen to the audio recordings of NCERT books (Rimjhim and Marigold) for classes 1-5. Developing and Testing of the web portal for National ICT Award is in the final stage. Regular updation and maintenance of 15 websites and 09 mobile apps of NCERT was carried out.

Under Online Publication of Indian Journal of Educational Technology and Newsletter, - The 4th Issue of CIET's Journal, Indian Journal of Educational Technology was uploaded on CIET's website (https://ciet.nic.in/IJET_July-2020/index.html#page=1).

The following activities were taken up in **Development and Maintenance of Mobile Apps and Digital Platforms** (DIKSHA, e-Pathshala and NROER)

e-Pathshala:

Total 30 raw epubs were converted to final epubs for uploading. In total, 65 final epubs were developed for NCERT Textbooks. QR codes were created for 3 NCERT textbooks. Total count of textbooks having QR codes was 374. Total Audio/Video e-resources on NCERT Official YouTube channel were 4,071(Video- 2,147 and Audio- 1,924). Total number of e-resources on epathshala website was 2,625. Total e-resources mapped with QR Codes till date were PDF- 2,335; video- 1,214; audio- 1,279; image-284, interactive- 867; epub-5

NROER:

New e-content shared by various organisations such as SARD, Senscilen and RIEs were uploaded on the repository. A total of 40 audio resources, 198 videos & 28 interactives have been added during June-August, 2020 on the repository. A total of 3,374 video resources have been curated in the online workshop and their metadata has been replaced and around 14,000 resources have been transferred to NROER 2.0 platform with added features. NROER 2.0 portal and mobile app was made ready for pre-launch phase, demonstration given by HBCSE team. A class-wise filter has also been added to enable smooth search of resources on the platform. An online workshop for reviewing NIOS content was conducted and around 1,303 resources were curated.

DIKSHA:

Number of books that were made live on DIKSHA was 357 and the no. of e-content made live was 6,071. All 17 NISHTHA modules were uploaded on the platform. Total 1,100 videos which are received from RILM, RIE's, CIET, NIOS, SCERT and other private organisations have been uploaded on DIKSHA portal after reviewing.

Under the programme National ICT Award for School Teachers, the website for hosting the National ICT Award for School Teachers has been developed and was made live in the first week of September 2020. Announcement was also made for getting applications from teachers.

NISHTHA:

Union HRD Minister (now Union Education Minister), Gol Ramesh Pokhriyal Nishank launched virtually the first online National Initiative for School Heads and Teachers Holistic Advancement (NISHTHA https://itpd.ncert.gov.in//) programme for 1,200 key resources persons of Andhra Pradesh, in New Delhi, on Thursday, 17 July, 2020. Hon'ble Minister of State for Human Resource Development, Shri Sanjay Dhotre

was also present at the launch. Customisation of 17 modules was done for online format. 81 videos were produced based on NISHTHA modules and around 400 resources (Text, activities developed based on NISHTHA modules) are being developed. Course for SRG- Andhra Pradesh created in NISHTHA portal Course is being conducted from July 16, 2020. Development of metadata for NISHTHA DIKSHA and uploading of NISHTHA resources on DIKSHA was done. Pilot study of NISHTHA module on DIKSHA had 4 courses uploaded on DIKSHA portal.



Hon'ble HRD Minister launching online NISHTHA training programme

Under **SWAYAM Prabha** telecast programmes were telecast as per the need of the students and teachers, etc. For students, teachers, teacher educators and parents who did not have access to the internet, the DTH-TV networks were utilized during lock down due to COVID-19 outbreak. Breaking the limitations of COVID-19 outbreak, NCERT has utilized online platform to telecast live interactive programmes on Swayam Prabha DTH Channel 'Kishore Manch' (#31). Overall, 10 live interactive programs (8 based on curriculum-based content, 1 Live Webinar on ICT tools and 1 Live Session on Mental Well-Being of Children: "SAHYOG" were transmitted covering seven and half hours daily transmission. The following points cover the numbers and hours of live interactive programs during July and August, 2020.

- 1. Primary Stage live programmes: 124 live interactive sessions of 45 minutes each have been telecast based on Primary level. It covered about 93 hours of telecast.
- 2. Upper Primary Stage live programmes: 124 live interactive sessions of 45 minutes each have been telecast based on Upper Primary level. It covered about 93 hours of telecast.
- 3. Secondary Stage live programmes: 124 live interactive sessions 45 minutes each have been telecast based on Secondary level. It covered about 93 hours of telecast.
- 4. Senior Secondary Stage live programmes: 124 live interactive sessions of 45 minutes each have been telecast based on Senior Secondary level. It covered about 93 hours of telecast.
- 5. Webinar on ICT tools: 62 webinars on ICT tools each for one hour have been telecast for teachers, teacher educators and stakeholders. It covered about 62 hours of telecast.

SAHYOG:

Guidance for mental wellbeing of children: 62 live sessions of counselling have been transmitted live, covering about 31 hours.

Telecast for States on SWAYAM Prabha:

1) Haryana state has transmitted their two hours content during July and August 2020 daily on SWAYAM Prabha ch #19 covering 124 hours of transmission.

- 2) Uttar Pradesh state has transmitted their two hours content during July and August 2020 daily on SWAYAM Prabha ch #22 covering 124 hours of transmission.
- Assam state has transmitted their two hours content during July and August 2020 daily on SWAYAM Prabha ch #23 covering 124 hours of transmission.
- Punjab state has transmitted their four hours content during July and August 2020 daily on SWAYAM
 Prabha ch #20 covering 248 hours of transmission.

A total of 33 courses were running on SWAYAM portal (https://swayam.gov.in/) under Development of course materials for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education). Following 33 courses were running on SWAYAM portal (02 courses for Teacher Educator, 27 courses for students and 04 generic courses):

1. Accountancy XI Part-I	13. Mathematics XI Part-I	25. Business Studies XI Part-I
2. Biology XI Part-I	14. Mathematics XII Part-I	26. Mathematics XI Part-II
3. Biology XI Part-II	15. Physics XI Part-I	27. Geography XI Part-II
4. Biology XII Part-I	16. Physics XI Part-II	28. Psychology XI Part-II
5. Business Studies XII Part-I	17. Physics XII Part-I	29. Pedagogy of EVS
6. Chemistry XI Part-I	18. Physics XII Part-II	30. Urdu Language Script Learning
7. Chemistry XI Part-II	19. Psychology XI Part-I	31. Urdu Language Teaching
8. Chemistry XII Part-I	20. Psychology XII Part-I	32. Educational Administration
9. Economic XI Part-I	21. Sociology XI Part-I	33. Action Research in Educational
10. Economic XII Part-I	22. Sociology XII Part-I (New Courses)	Technology
11. Geography XI Part-I	23. FNHL	
12. Geography XII Part-I	24. Accountancy XII Part-I	

Successful closure of enrollments of 27 school education courses and 4 generic courses was carried on. Around 1,25,097 learners were enrolled in these courses till 31 August, 2020. Online meetings were conducted for peer-review of English MOOC content of Class-XII.

PM e-VIDYA

Telecast of 12 DTH TV channels started from 01 September, 2020. The details can be viewed on https://www.swayamprabha.gov.in/index.php/schooledu. Apart from telecast of recorded programmes, the channels also had live interactive sessions, Webinar and SAHYOG sessions for which the details have been given in the Live Discussion section.

PM e-VIDYA 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.

PM e-VIDYA DTH-TV Live telecast:

- 1. Class 1 to 10 Live programmes: 88 Live interactive sessions of 30 minutes each have been telecast on class based channels (1 to 10). It covered about 44 hours of telecast. There was class-wise weekly live telecast on these channels.
- 2. Class 11 & 12 Live programmes: 8 live interactive sessions of 60 minutes each have been telecast based on class based channels (11 & 12). It covered about 8 hours of telecast.

- 3. Webinar on ICT tools: 22 webinars on ICT tools each for one hour have been telecast for teachers, teacher educators and stakeholders. It covered about 22 hours of telecast.
- 4. SAHYOG: guidance for mental wellbeing of children: 22 live sessions of counseling 'SAHYOG: guidance for mental wellbeing of children' have been transmitted live covering about 11 hours.

Telecast for States on PM e-VIDYA Channels:

- 1) Punjab state is transmitting their programmes on class 6, 7, 8 and 12 on trial basis.
 - a) Class 6 PM e-VIDYA channel: 30 hours of programmes (1hour daily)
 - b) Class 7 PM e-VIDYA channel: 30 hours of programmes ((1 hour daily)
 - c) Class 8 PM e-VIDYA channel: 30 hours of programmes (1 hour daily)
 - d) Class 12 PM e-VIDYA channel: 30 hours of programmes (1hour daily)
- 2) Assam state is transmitting their programmes on class 6, 7, 8, 9, 10 and 12 on trial basis.
 - a) Class 6 PM e-VIDYA channel: 15 hours of programmes (1/2 hour daily)
 - b) Class 7 PM e-VIDYA channel: 15 hours of programmes (1/2 hour daily)
 - c) Class 8 PM e-VIDYA channel: 15 hours of programmes (1/2 hour daily)
 - d) Class 9 PM e-VIDYA channel: 15 hours of programmes (1/2 hour daily)
 - e) Class 10 PM e-VIDYA channel: 15 hours of programmes (1/2 hour daily)
 - f) Class 12 PM e-VIDYA channel: 30 hours of programmes (1hour daily)
- 3) Uttar Pradesh state is transmitting their programmes on class 9 and 11 on trial basis.
 - a) Class 9 PM e-VIDYA channel: 30 hours of programmes (1 hour daily)
 - b) Class 11 PM e-VIDYA channel: 30 hours of programmes (1hour daily)

Dissemination of e-Contents

Apart from production, CIET-NCERT is also instrumental in dissemination of the e-contents developed by it and by others. Total number of e-Resources uploaded in the open repository i.e. **NROER** for free use were 19,085 including - 700 collection; 5,923 documents; 1,411 interactive; 2,777 audios; 2,583 images; 6,391 videos. The total no. of registered users till September, 2020 were 19,260. During this quarter the visitors to the platform increased to 2.6lakhs hits per day with 10,000 unique users per day (as on 30 September, 2020). Many partners, such as, Vigyan Prasar, CCRT, Gandhi Smriti and Darshan Samiti, SCERTs, SIETs, Azim Prem Ji University, IT for Change, Amaze Infotainment Pvt. Ltd., Directorate of Adult Education, Vidya Online, Eklavya, Arvind Gupta toys, DragonLearn. In, RFlashino, SARD, etc. can showcase their collection and offer continuous support to teachers and schools. The NROER portal is presently available in English and Hindi. The repository continuously updates itself in terms of adding new e-resources, updating existing resources and planning new e-courses from time to time. In future, NCERT-CIET is planning to revamp the user interface of the repository for an advanced user experience and interface.

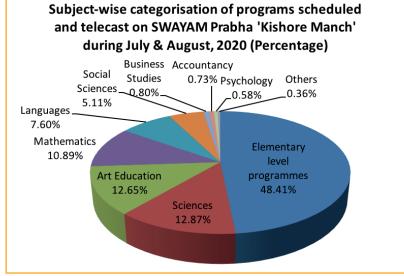
ePathshala is a portal supported with app where there are e-resources of NCERT put up for use. The portal had 9,15,46,965 visitors, the app had a rating of 4.2 out of 5 on Google play store, 3 out of 5 on Apple store and 4.3 out of 5 on Windows Store. Till September, 2020, about 4,095,204 users downloaded the app from various play stores. Total views of ePathshala on YouTube have been amounted to 50,004,108. Total books published on it as ePub are 696 while, there are 504 Flipbooks. Seven states namely, Andhra Pradesh, Delhi, Haryana, Karnataka, Mizoram, Manipur and Uttar Pradesh have submitted 152 digitized books. QR codes generation for 337 textbooks of NCERT has already been done and resource mapping is in progress.

PINDICS app had 42,155 downloads, PARAKH (Third Party Evaluation of ICT in States) had 3,689 users whereas, KISHORE MANCH had 41,587 users. ePathshala on UMANG had 35,96,322 hits. ePathshala Scanner app was downloaded by 1,25,158 people. ePathahala AR app which was launched in December, 2019 had a rating of 3.60 out of 5 on Google play store an in all 7,205 users downloaded the app.

Apart from this, support to SCERTs (digitization of its books & YouTube channel) in Chhattisgarh, Haryana, Manipur, Telangana and Tripura (Webportal created, ePub & Teacher Training modules), UP State i.e. to SIET Lucknow (YouTube channel), PSSCIVE-NCERT (uploading of books), DAE-MHRD (YouTube channel), Mauritius SSP (Webportal &YouTube channel creation), Rajasthan, DEO-Varanasi is also provided by CIET-NCERT as a regular exercise. Mauritius SSP app was also developed in the last quarter and total no. of downloads till September, 2020 were1,079. Support to SCERT Tripura was given in the form of a webportal with 6,13,338 views of Vande Tripura.

DTH TV channel (31) named as 'Kishore Manch'

About 1368 programs have been telecast on the Kishore Manch channel as per schedule during July and August 2020. Due to COVID-19 outbreak, apart from secondary and senior secondary content, NCERT has initiated to include elementary level programs telecast on the channel w.e.f. 18th April 2020 to cover the unreached stakeholders at this crucial time. Among these 1368 programs, 662 were the programmes at elementary level in different subjects such as languages, mathematics, environmental studies, art & craft, storytelling and other general programs. Apart from elementary level programs, 172 programmes were on lecture series of different subjects of class XI (83) and XII (89). Apart from lecture series, there were 534 programs covering the syllabus of secondary and senior secondary level. Similarly, teachers related 88 programs were also included in the schedule. One hundred and Seventy three general programs related to art, craft, culture, dance, music, physical educatio n etc. have also been telecast on the channel during July and August 2020. Besides the types of programs, the analysis of the schedule also reported the subject-wise categorization of programs (see table) during July and August, 2020.



SWAYAM Prabha channel #31 was being transmitted on various cable networks:

- 1. DD Free dish channel #128
- 2. Dish TV Channel #2370
- 3. TataSky Channel #756
- 4. Airtel TV Channel #440
- 5. VmVideocon Channel #477
- 6. Sundirect channel #793

Participation in Conferences/Seminars and publication:

Dr. Abhay Kumar participated as one of the panelists in "National Education Policy 2020: Transforming India's Education System", An interactive dialogue on NEP 2020 held on 6 August, 2020 organised online by Jagran Josh.

Dr. Amarendra P. Behera presented on ET/ICT during Shikshak Parv on 8 September, 2020 organised by NCERT and MoE, Govt. of India.

Dr. Abhay Kumar participated as a guest speaker to speak on "NEP 2020: Hopes and Measures" in the program Yeh Hai India of DD Urdu channel on 27-28 September, 2020.

Dr. Nidhi Singh participated as a resource person in 'Module: 2 e-content development management and dissemination' in the Certificate Course in Virtual Teaching on 30 July, 2020; organized by G. D. Goenka University from 30 July-02 August, 2020.

Retirement:

Sr. No.	Name & Designation	Date	Remarks
01	Sh. Buddhi Prakash Kukreti, ARP-III	31.08.2020	Retired from CIET

Other activities:

The Ministry of Education, Government of India organized "Shikshak Parv" on the theme of National Education Policy, 2020 for Principals, Teachers, parents, students, schools, HEIs, TEIs, government school education functionaries, educationists, CSOs, etc. from 5-25, September, 2020. Details of the programme and schedule are available on: https://www.mhrd.gov.in/shikshakparv. The sessions were based on various sub-themes of the National Education Policy and its process of implementation. It was a virtually conclave and webinars of Shikshak Parv and CIET provided technical support in this. The Conclave and webinars were available live on:

- 1. https://www.facebook.com/EduMinOfIndia
- 2. https://twitter.com/EduMinOfIndia
- 3. https://www.youtube.com/user/HRDMinistry
- 4. SWAYAM PRABHA Channel no. 31
- 5. PM e-VIDYA channel no. 9

- 6. "NCERT OFFICIAL" YouTube Channel and
- Cable Network: DD free dish #128, Zee Dish TV #950, Tatasky Channel #756, Airtel Channel #440, Videocon #477, Sundirect #793 and Jio TV mobile app.

On 8 September, 2020, Hon'ble Union Education Minister and Minister of State for Education, Gol attended a virtual conference to celebrate 54th International Literacy Day.



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