

Central Institute of Educational Technology (CIET), NCERT

NEWSLETTER

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• **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 COVID-19 pandemic enhanced the focus on online platforms and digital mode of dissemination of information. Keeping in mind the need of the hour, the institution worked on its existing online platforms by supplementing them with more content and ease of functioning. Rigorous advocacy on various platforms including social media increased the reach of freely available online content to the students, teachers and teacher educators. ePathshala portal and app saw 7,36,12,837 visitors and 3,720,488 downloads, respectively. NROER with its 18,919 e-resources had 2.5 lakhs hits per day while unique users per day came out to be 9,000. On the other hand 33 courses were running on SWAYAM portal for students and teacher educators. DIKSHA was also being populated with chapter-based e-content. All these platforms acted as storehouse of quality study material available to the learners free of cost.

PM e-VIDYA is another project initiated during this period which aims at reaching even the far-flung areas of the country by disseminating NCERT textbook based chapter-wise e-content. Chapter-wise e-content is being developed for telecast purpose on DTH TV channels. The same programmes will also be available on DIKSHA platform for anytime anywhere access. Chapter-wise audio programmes will also be recorded for broadcast purpose on radio thereby reaching even in those remote areas where radio is the lifeline of people. By this, the institution aims at catering even those who may have otherwise remained away from quality e-content available through various digital mediums.

This quarter also corresponds with closing of the previous financial year and beginning of the new financial year. All the programmes taken up the last year were completed successfully. In the coming year the institution will be undertaking 20 programmes out of which 16 are new programmes that can be categorized as research, development, extension and training.

In this manner, like previous years CIET will be undertaking various programmes in the field of ET and ICT in the future also and 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

This issue of newsletter corresponds with the new financial year and with new programme proposals that will be taken up in the coming year by the CIET-NCERT. This time, 16 programme proposals were passed under PAC in various categories like, research, development, training and extension. The break-ups have been given below:

Table: Type/Category wise Number of PAC Programmes with proposed budget (2020-21)

Programme	New	On- going	Carried Over	Total
Research	4	1	--	5
Development	4	--	1	5
Training	6	--	--	6
Extension	2	2	--	4
Total	16	3	1	20

Other than PAC proposals MHRD and PAB funded proposals have also been taken up by CIET for the current financial year. The list of 26 programmes has been enlisted in the table.

Table: List of new proposals of CIET for the financial year 2020-21

PAC code	Title of the Programme	Category	Programme Coordinator(s)
Research			
13.01	Implementing ICT interventions at school stage: a block level research study	On-going	Dr. Abhay Kumar
13.02	Effectiveness of augmented reality integrated treatment/ intervention on achievement of class IX-X students from schools run by various managements	New	Prof. Rajendra Pal
13.03	A study on the utilization of epathshala mobile apps developed by NCERT	New	Dr. Ranjan Kr Biswas
13.04	A study on the Impact of ICT in Education Course implementation in Karnataka	New	Dr. Angel Rathnabai. S.
13.05	A study on the impact of adaptive learning technologies on achieving learning outcomes in Mathematics at elementary level	New	Dr. Angel Rathnabai. S.
Development			
13.06	Development and launch of Online Certificate Course on Research Methodology in Education	Carried over	Prof. Rajendra Pal
13.07	Development and Dissemination of Educational Media Programs	New	Prof. Rajendra Pal

13.08	Development and Dissemination of e-Content (Audio-Video) for students and teachers of Jammu and Kashmir	New	Prof. Rajendra Pal
13.09	Development of e-resources for the School and Teacher Education (AR - VR)	New	Mr. Rajesh Kumar Nimesh
13.10	Development of ICT in Education courses for Teachers and Students	New	Dr. Angel Rathnabai. S.
Training			
13.11	Organization of Online Certificate Course on Action Research in Educational Technology	New	Prof. Rajendra Pal
13.12	Capacity Building of Teachers and Teacher Educators for developing e-Content (Audio- Video) in the Aspirational Districts of India	New	Prof. Rajendra Pal
13.13	Orientation of SCERTs, SIETs and ET Cell Staff on Digital Technology: Operation and Maintenance	New	Dr. Abhay Kumar
13.14	Rollout of ICT and pedagogy integration curriculum in States /UTs	New	Dr. Angel Rathnabai. S.
13.15	Professional Development of NCERT Faculty on ICT in Education	New	Dr. Angel Rathnabai. S.
13.16	Development of model for ICT integrated school System	New	Dr. Angel Rathnabai. S.
Extension			
13.17	Development of Resources and Support for Web and Online Activities (Portal and mobile apps)	New	Prof. Indu Kumar
13.18	Online Publication of Indian Journal of Educational Technology and Newsletter	On-going	Dr. Abhay Kumar
13.19	Resource-cum-Activity Centre in ET/ICT for School and Teacher Education	New	Dr. Abhay Kumar
13.20	International Conference on Emerging Trends in ICT in Education and Training	New	Dr. Angel Rathnabai. S.
DHE-MHRD FUNDED			
13.21	Development and roll-out of courses for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education)	On-going	Prof. Indu Kumar
PAB/DSE&L, MHRD-GOI FUNDED			
13.22	Development and Maintenance of Mobile Apps and Digital Platforms DIKSHA, e-pathshala and NROER)	On-going	Prof. Indu Kumar
13.23	National ICT Award for School Teachers	On-going	Prof. Indu Kumar

13.24	Organization of Festival, ICT Mela, contests of digital contents and coordination with States/ UTs	On-going	Dr. Abhay Kumar
13.25	Professional Development of Teachers and Teacher Educators through Blended Mode (Satellite network and Face to Face Mode)	On-going	Dr. Abhay Kumar
13.26	Development and dissemination of ETV Programmes through DTH – TV Network for Schools	On-going	Dr. Abhay Kumar

Under **Effect of ICT Interventions on Enhancing Classroom Practices in schools adopted by NCERT**, analysis of data collected from states of MP and Rajasthan was done. Research tools (Google form) in Kannada language were finalised to be used for data collection through online mode in the state of Karnataka. Data collection from the state of Karnataka was initiated. Analysis of data for MP and Rajasthan was completed. Data Entry of Odisha State is under process.

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 section, 675 programmes were recorded. The details can be seen in the production section. Under video production, 77 live interactive sessions of varying duration from 30 minutes to 1 hour have been telecast based on Primary and Upper Primary level. It covered about 47 hours of telecast. Along with this, 15 Webinars on ICT tools have been transmitted live covering about 15 hours and 180 hours of content telecast on SWAYAM Prabha Channel 31 was done. SWAYAM Prabha channel also got started on various cable networks: DD Free dish channel #128, Zee Dish TV Channel #2370, TataSky Channel #756, Airtel TV Channel #440, Videocon Channel #477 and Sundirect channel #793.

Extended content coverage: Apart from secondary and senior secondary content, NCERT initiated to include elementary level programs telecast on the channel w.e.f. 18 April, 2020 to cover the unreached stakeholders at this crucial time of COVID-19 outbreak. During May, the telecast was streamlined in a more systematic manner under the following categories:

1. Primary Stage live programmes
2. Upper Primary Stage live programmes
3. Secondary Stage live programmes
4. Senior Secondary Stage live programmes
5. Webinar on ICT tools (<https://ciet.nic.in/pages.php?id=webinar&ln=en>)
6. SAHYOG: : guidance for mental wellbeing of children (https://ciet.nic.in/pages.php?id=Covid19_counselling_services&ln=en)

The details can be seen in the report on SWAYAM Prabha. On the whole, 186 hours of content (Elementary + Sec. & Senior Secondary) telecast on SWAYAM Prabha Channel 31 during May, 2020 which had a viewership of 44,510 Users and 3,230 Hours spent (April-May 2020) on Jio TV app and more than 6,50,000 views on 'NCERT Official' YouTube Channel.

Telecast for States on SWAYAM Prabha during this period also included telecast of three states:

- 1) Uttar Pradesh started telecasting their content from 01 May, 2020.
- 2) Assam started telecasting their content from 24 May, 2020.
- 3) Punjab started fresh telecast of their content at evening as well covering 4 hours of telecast daily from 28 May, 2020.

The **Development of ICT in Education courses for Teachers and Students** included activities like, creation of Induction 1 course in Course platform, planning for development of tutorial for Year 1 and Induction 1 course through virtual workshop and development of:

- o Booklet on 'Mobile Apps for Education'
- o Induction 2 course outline
- o Year 2 course outline

It also included review of: ICT awardee testimonial and Digital Games for Education. Student Year 2 Content - 2 lessons was also developed. Guidelines on cyber safety and security for parents and handouts on plagiarism and netiquette were also developed. A pre-workshop meeting was conducted on 27 and 29 May, 2020 for development of around 300 video tutorials for Year 1 and Induction 1 course through online workshop. Online workshop has been planned in June. A draft of Class 10 ICT booklet was also prepared.

Under **Organization of Online Certificate Course on Action Research in Educational Technology**, final assignments - 6 were received and feedback was regularly provided to the participants. One online synchronous meeting was conducted to resolve queries of participants. End test was conducted and evaluation was done.

Another training programme i.e. **Rollout of ICT and pedagogy integration curriculum in States/ UTs**, had first virtual meeting conducted with officials of Madhya Pradesh regarding implementation of ICT course for class 9 and 10. A webinar for various stakeholders on ICT tool for Education started from April 7 on everyday basis in English. First online meeting with TALP team, Karnataka to discuss implementation of ICT Curriculum in online mode was conducted on May 28, 2020. A discussion was carried out with 12 states on revising the ICT curriculum draft document for online implementation and assessment of Induction 1 course of ICT Awardees was also carried out.

Under **Development of model for ICT integrated school system**, collaboration activity between DMS Mysore and Israel school during COVID-19. Need-based support to DMS teachers on using technology during lockdown for online class and student engagement was provided. Training was also conducted on 'Assessment using Google Forms' on 07 May, 2020.

In **Development of Resources and Support for Web and Online Activities (Portal and mobile apps)** new website of NCERT was readied. A new mobile app for SSP Mauritius has been designed. The server resources (CPU and RAM) for the existing NCERT site have been increased with the help of NIC. The PDFs of all the textbooks of NCERT received from Publication Division were watermarked and uploaded on NCERT website. Regular creation of web pages on NCERT and CIET sites and uploading of documents such as AAC, Counsellors list, ICT initiatives, Constitution Day Quiz, etc. Mapping of resources with QR code of NCERT Textbooks was done. A new website for ICT Award has been initiated. A proposal from ASCI in this regard is under consideration by council authority. A new initiative called "Actions on Google" is being developed with the help of Google wherein a new facility for

Google Assistant users to be able to access NCERT's class wise reading materials in audio format. Another new initiative in collaboration with Reliance JIO is under progress in which they are modifying our App and portals to be delivered through JIO feature phones and Cable TV set top box. The aim is to reach the unreached and disseminate our e-resources including textbooks. Metadata of all the e-resources of NCERT hosted at different portals and apps have been provided to INFLIBNET for the single-window search mechanism being implemented by MHRD.

Under **Online Publication of Indian Journal of Educational Technology and Newsletter**, CIET's Newsletter Jan-March 2020 issue has been published on CIET's website <https://ciet.nic.in/NewsletterJanmarch-2020/index.html#page=1>. Manuscripts carried over from the 3rd issue of IJET were peer-reviewed and those received for the 4th issue were reviewed on a regular basis. Invitation for a special section of correspondence on 'Coping with COVID-19: Teaching-Learning with Technology' was announced on 06 May, 2020 for the 4th issue of IJET and entries were received by 30 May, 2020. Under this section of correspondence, around 40 manuscripts were received. Final compilation of the 4th issue was also being done side-by-side.

During the month of May, 2020 a total of following 28 courses were started on SWAYAM portal (<https://swayam.gov.in/>) (1 courses for Teacher Educator and 27 courses for students) under Development of course materials for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education). Out of which enrollment for 22 courses was re-started, 1 course was rerun and 5 courses are new courses:

1. Accountancy XI Part-I	10. Economic XII Part-I	19. Psychology XI Part-I
2. Biology XI Part-I	11. Geography XI Part-I	20. Psychology XII Part-I
3. Biology XI Part-II	12. Geography XII Part-I	21. Sociology XI Part-I
4. Biology XII Part-I	13. Mathematics XI Part-I	22. Sociology XII Part-I
5. Business Studies XII Part-I	14. Mathematics XII Part-I	(New Courses)
6. Chemistry XI Part-I	15. Physics XI Part-I	23. FNHL
7. Chemistry XI Part-II	16. Physics XI Part-II	24. Accountancy XII Part-I
8. Chemistry XII Part-I	17. Physics XII Part-I	25. Business Studies XI Part-I
9. Economic XI Part-I	18. Physics XII Part-II	

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

e-Pathshala:

- Voice-based search options are being added to the mobile app of e-pathshala.
- Security issue on e-Pathshala server has been resolved
- Addition of 34 new textbooks in e-Pathshala app
- QR code and e-resource mapping was done for 15 new textbooks, total count of mapped NCERT textbooks is now: 223
- The pdf of revised NCERT textbooks of 2020-21 have been uploaded on site for 245 textbooks.
- Number of flipbooks created for revised textbooks 2020-21: 82.
- Modifications in QR code e-resource mapping of NCERT textbooks were done for previously mapped textbooks. Addition of new resources to QR codes.
- Total flipbooks created and uploaded on epathshala website of English and Hindi : 144
- Total books converted from pagemaker/indesign to raw epub : 116

NROER

- 71 audio books were uploaded
- Metadata was prepared for around 19 MOOC course video lectures for subjects of classes XI-XII
- Metadata was prepared for 167 Arvind Gupta Punjabi videos and videos were uploaded
- 7 MOOC courses were uploaded on NROER version 2.0
- Class-wise segregation of around 6,000 video e-resources was done
- Total e-resources uploaded during this quarter was = Audios (817); Videos (113); Interactives (23); Documents (21)= Total (974)

DIKSHA

- Making Books live on DIKSHA portal with mapped resources, which is done on a daily basis. The app is the storehouse of all types of e-content i.e. audio, video, text, interactives and images.
- An online Quiz on Indian Constitution both in English as well as in Hindi language was launched for the students of class VI-XII on 14 April, 2020 in order to enhance interest and knowledge on Indian Constitution while staying at home and safe. Total Quiz Played in this quarter was 66,403.
- Total 229 e Text books of NCERT are live on the DIKSHA portal from Class 1-12 and the number of live e Resources is 4,649. The content is mapped with QR codes embedded in the NCERT books.

PM e-VIDYA

With an objective of making remote learning meaningful and effective, Hon'ble Union Finance Minister, Government of India launched the PM e-Vidya programme on 17th May 2020 under the goal of the Atma Nirbhar Bharat. With this, students and teachers will get multimode access to digital education through DIKSHA as 'One nation, One digital platform', twelve DTH TV channels for classes 1 to 12 for content dissemination by centre and states/UTs, and extensive use of Radio, Community radio and Podcasts. For this, audio and video programmes based on the chapters of NCERT textbooks are being produced. Apart from NCERT, experts from various organisations like, KVS, NVS and CBSE, etc. are contributing in recording.

Live Discussion on SWAYAM PRABHA

For students, teachers, teacher educators and parents who do not have access to the internet, the DTH-TV networks are being 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 April to June 2020.



1. **Primary Stage live programmes:** 183 live interactive sessions of varying duration from 30 minutes to 45 minutes have been telecast based on Primary level. It covered about 121 hours of telecast.
2. **Upper Primary Stage live programmes:** 183 live interactive sessions of varying duration from 30 minutes to 45 minutes have been telecast based on Upper Primary level. It covered about 121 hours of telecast.
3. **Secondary Stage live programmes:** 124 live interactive sessions of varying duration from 30 minutes to 45 minutes have been telecast based on Secondary level. It covered about 93 hours of telecast.
4. **Senior Secondary Stage live programmes:** 106 live interactive sessions of varying duration from 30 minutes to 45 minutes have been telecast based on Senior Secondary level. It covered about 79.5 hours of telecast.
5. **Webinar on ICT tools:** 76 webinars on ICT tools each for one hours have been telecast for teachers, teacher educators and stakeholders. It covered about 76 hours of telecast.
6. **SAHYOG : : guidance for mental wellbeing of children :** 58 live sessions of counselling 'SAHYOG: guidance for mental wellbeing of children' have been transmitted live covering about 29 hours.

Viewership: 44,510 Users and 3,230 Hours spent (April-June 2020) on Jio TV app. More than 6,50,000 views on YouTube 'NCERT Official' Channel.

Telecast for States on SWAYAM Prabha:

- 1) Haryana started telecasting their two hours content from 20th April, 2020 daily on SWAYAM Prabha ch #19.
- 2) Uttar Pradesh started telecasting their two hours content from 1st May, 2020 daily on SWAYAM Prabha ch #22.
- 3) Assam started telecasting their two hours content from 24th May, 2020 daily on SWAYAM Prabha ch #23.
- 4) Punjab started fresh telecast of their content at evening as well covering 4 hours of telecast daily from 28th May, 2020 daily on SWAYAM Prabha ch #20.

Audio-video & Multimedia Production

Scripting:

Script writing is a step which needs to be followed before an audio or video program. It is a written proforma of idea behind any program. Therefore, a good quality script written in a particular format is indispensable. A script has to be theme-based and should contain correct and clear information about the knowledge that is aimed to be delivered. In order to facilitate this, all the program scripts are discussed thoroughly in the Script Appraisal Committee. The scripts discussed are either passed or are held back for the suggestions to be incorporated. Due to COVID-19 outbreak script committee meetings were not held.

Production:

After the script is passed, programs are produced in various modes- audio or video. CIET-NCERT has an expertise in producing educational programs of various disciplines and subjects. The total numbers of programmes produced (recorded) during this quarter were 322.

Table - Audio programmes produced (recorded) during April-June, 2020

PM e-Vidya		
S.No.	Subject	No. of Programs
1	HINDI	32
2	ENGLISH	32
3	SANSKRIT	10
4	URDU	18
5	MATHS	23
6	SOCIAL STUDIES	31
7	E.V.S/ SCIENCE	7
	Total	153
AUDIO BOOKS		
1	An alien hand	10 chapters
2	Vistas	8 chapters
3	Apni zaban 2	21 chapters
4	Apni zaban 3	22 chapters
5	Humare aspas 1	24 chapters
6	Humare aspas 2	27 chapters
7	Constitution quiz 255 questions (Hindi)	55 chapters
8	Constitution quiz 255 questions (English)	55 chapters
9	Yoga day quiz Hindi 260 questions	50 chapters
10	Yoga day quiz Hindi 260 questions	50 chapters
ENRICHMENT/REGULAR PROGRAMMES		
	1) E-Waste	1
	2) Augmented Reality	
	3) BIO	1
	4) Physics	1
	5) Modhera Ka Surya Mandir)	1
	6) Bhasha Sangam	4

	7) GENDER EQUALITY(English)	1
	8) GENDER EQUALITY(Hindi)	1
	9) Audio Recording of COVID	1
	10) Girl Child for Dr Abhay	2
	11) Alternative Calender	1
PROMO		
	1) UMANG	1
	2) Kala Utsav	1
	3) NISHTHA PROMO(English)	1
	4) NISHTHA PROMO(Hindi)	1
	5) PM eVidya	1
	6) International Toy Festival	1
QUIZ		
	6)YOGA(ENGLISH)(250)	78
	7)YOGA(HINDI)(250)	78
	8)CONSTITUTION(ENGLISH)(255)	87
	9)CONSTITUTION(HINDI)(255)	87
	10)GANDHI(ENGLISH)(255)	77
	11GANDHI (HINDI)(255)	77
e-COMIC		
	e-comic (English) Activities (Differently Abled)	9
	e-comic (Hindi) Activities (Differently Abled)	9

In video production, 75 video programmes were recorded in Mathematics, English, Sanskrit, Pre-school and Hindi, etc. for various classes during this quarter.

Preview:

For all the audio and video programs produced in CIET-NCERT, there is a process of assessment in order to maintain the quality of programs. This is done after the process of editing is over. All the programs made are previewed every Friday from 9.30 am before the programs are finalized offline. Due to pandemic, preview of programs was done in an online manner with the help of subject experts at the ease of their time. Total 769 videos were reviewed through online review workshops (Table).

Table- Number of programmes reviewed during April-June, 2020

S.No.	Organisation/Subject	No. of videos
1	Assam State DTH TV Biology - 5, Chemistry - 5, Economics - 2, English - 6, Geography - 1, Mathematics - 19, Physics - 6	44
2	Haryana State DTH TV Maths- 42, Biology - 24, Chemistry - 2, English - 19, Mathematics - 54, Music - 4, Physics - 22	167
3	Punjab State DTH TV Biology - 32, Chemistry - 29, English - 68, Hindi - 22, Mathematics - 113, Physics - 38, Punjabi - 44, Science - 36, Geography - 9, Social Science - 16	407
4	Uttar Pradesh State DTH TV Accountancy - 10, Biology - 13, Chemistry - 33, Economics - 8, English - 25, Geography - 8, Hindi - 24, History - 6, Mathematics - 32, Physics - 30, Political Science - 5, Sanskrit - 2	196
5	BA.- B.Ed. Videos for RIE Student English - 10	10
6	Rotary India Literacy Mission Biology - 11, Chemistry - 3, Geography - 5, History - 6, Physics - 6	31
7	SARD Mathematics - 4, Story Time - 1	05
8	ICT Awardee Mathematics - 30	30
9	RIE – NCERT Social Science – 1, Biology – 7, Chemistry – 20, English – 2, Mathematics – 4, Physics - 7	41

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 18,919 including - 698 collection, 5,926 documents, 1,376 interactives, 2,716 audios, 2,583 images, 6,318 videos. The total no. of registered users till June, 2020 were 18,178. During this quarter the visitors to the platform increased to 2.5lakhs hits per day with 9,000 unique users per day (as on 28 June, 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 7,36,12,837 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 June, 2020, about 3,720,488 users downloaded the app from various play stores. Total views of ePathshala on YouTube have been amounted to 46,066,536. 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 41,725 downloads, PARAKH (Third Party Evaluation of ICT in States) had 3,403 users whereas, KISHORE MANCH had 33,348 users. ePathshala on UMANG had 35,96,322 hits. ePathshala Scanner app was downloaded by 99,808 people. ePathshala AR app which was launched in December, 2019 had a rating of 3.60 out of 5 on Google play store and in all 4,945 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 this quarter and the total no. of downloads till June, 2020 were 779. Support to SCERT Tripura was given in the form of a webportal with 4,83,021 views of Tripura Siksha Bandhu.

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

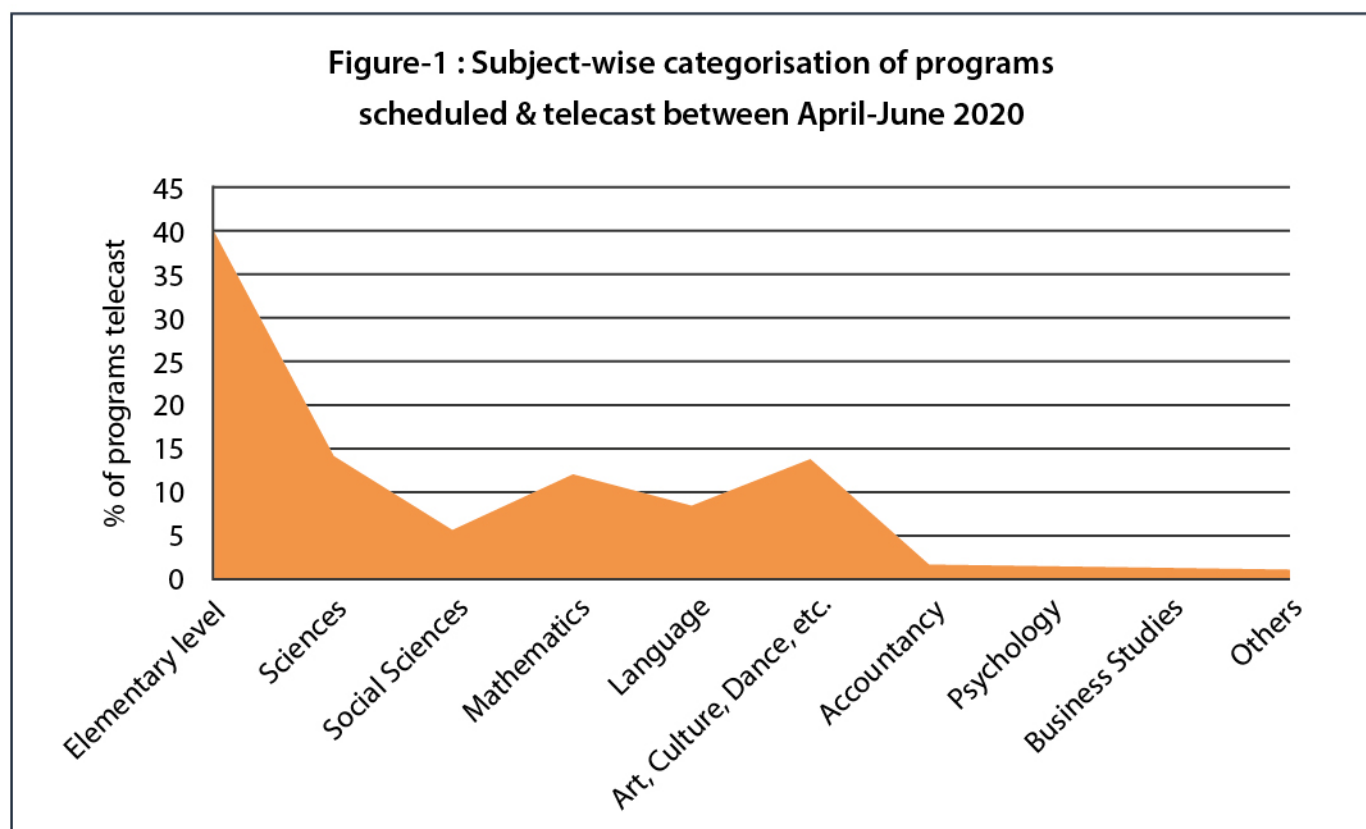
As nominated by MHRD, Central Institute of Educational Technology (CIET), NCERT is the national coordinator for one DTH TV channel (31) named as 'Kishore Manch'. CIET provides contents related to secondary and senior secondary students and teacher education for 6 hours which gets repeated 3 times to make it 24X7 Channel.

As a pre-planning, the syllabus and schedules of secondary and senior secondary school level are examined month-wise and accordingly programs are arranged for telecast on the channel.

A weekly plan has also been developed for making this process more relevant and to cover all the subjects such as arts, languages, science, commerce, social sciences and humanities. The programmes on performing arts, crafts, physical education, teacher education etc. are also included in the schedule. Apart from scheduling syllabus-based programmes, the programmes related to special days, festivals, national and international days/events are taken into consideration while developing weekly and monthly schedules. The motive of the channel is to provide access of quality education to every child of the country.

About 1843 programs have been telecast on the Kishore Manch channel as per schedule between April to June 2020. It is noted that the total number includes the repetitions also. 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 1843 programs, 744 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, 336 programmes were on lecture series of different subjects of class XI (142) and XII (194). Apart from lecture series, there were 654 programs covering the syllabus of secondary and senior secondary level. Similarly, teachers related 109 programs were also included in the schedule. Three hundred and thirty three general programs related to art, craft, culture, dance, music, physical education etc. have also been telecast on the channel between April to June 2020.

Besides the types of programs, the analysis of the schedule also reported the subject-wise categorization of programs (see Figure-1) between April to June 2020.



There were 264 and 105 programs related to different disciplines of sciences and social sciences respectively. Two hundred twenty programs included the Maths lecture series, Maths activities and other related programs. Similarly, language related programs (156) were mostly of Hindi language. The schedule covered 257 programs depicting Indian art and culture through different series of videos. Furthermore, Accountancy (31), Psychology (24) and Business Studies (21) subjects of senior secondary level were also placed in the schedule.

SWAYAM Prabha channel #31 is 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 published an article titled, "Prediction of arsenic vulnerable zones in the groundwater environment of a rapidly urbanizing setup, Guwahati, India" in Science Direct, Available online 21 November 2019, 125590

<https://www.sciencedirect.com/science/article/pii/S0009281919300649>,

<https://doi.org/10.1016/j.chemer.2019.125590>

Prof. Amarendra P. Behera addressed the online session on "Digital Education in COVID – 19 Situation", organized by SARD on 5 June, 2020. Participants included- principals, teachers and teacher's mentors of SARD intervention's schools in South and North MCD, New Delhi. Participants from Haryana, UP, Gujarat and Punjab were also there.

Prof. Amarendra P. Behera participated as a panelist in the webinar on "Addressing challenges posed by mass closure of schools during the COVID-19 pandemic, Lessons from international contexts", held on 26 June, 2020. The webinar was organized by Mauritius Institute of Education, Mauritius.

Dr. Nidhi Singh completed 4 week MOOC on Blended Learning Practice offered jointly by the Commonwealth of Learning and Athabasca University, Canada from 19 April-16 May, 2020.

Dr. Nidhi Singh attended and participated in a webinar on 'Geographies of Social Well-Being', speaker- Prof. Sachidanand Sinha, Prof. of Geography, CSRD, JNU, New Delhi on 17 April, 2020, organised by Department of Geography, Indraprastha College for Women, University of Delhi

Dr. Nidhi Singh attended and participated in the Webinar on 'Cyber Safe Girl'- Speaker: Dr. Ananth Prabhu G., Professor in Computer Engineering, Cyber Security & Cyber Law Trainer, conducted on April-28, 2020, by ISEA, CDAC.

Dr. Nidhi Singh attended and participated in K12 Virtual Conference on "Overcoming the COVID-19 Challenge and Beyond" organised by Ashoka University, Haryana on 5 & 6 June, 2020.

Retirement:

S.No.	Name & Designation	Date	Remarks
1	Sh. Banbir Singh, LDC	30.04.2020	Super annuated from CIET
2	Sh. K. C. Dhawale, AE	30.06.2020	Super annuated from CIET

Transfer and posting:

S.No.	Name & Designation	Date	Remarks
1	Dr. Amit Ranjan, Asstt. Professor	01.06.2020	Transferred to CIET from RIE, Bhubaneswar
2	Dr. Rizwanul Haque, Asstt. Professor	03.06.2020	Transferred to CIET from RIE, Bhopal
3	Dr. Siraj Anwar, Professor	18.06.2020	Transferred to CIET from DESS
4	Dr. Shashi Prabha, Professor	-do-	Transferred to CIET from DESM
5	Dr. Bharti, Associate Professor	-do-	Transferred to CIET from DEGSN
6	Dr. Neelkanth Kumar, Asstt. Professor	-do-	Transferred to CIET from DEL
7	Dr. Ranjan Biswas, Associate Professor	-do-	Transferred to DEGSN from CIET

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