

Volume 4, Issue 1

# CIET - NCERT NEWSLETTER

1 January - 31 March, 2020

24<sup>th</sup> All India Children's  
Educational Audio Video  
Festival & 4<sup>th</sup> ICT Mela



*"WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a  
(SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC) and to secure to all its citizens:  
JUSTICE, social, economic and political; LIBERTY of thought, expression, belief, faith and worship;  
EQUALITY of status and of opportunity; and to promote among them all;  
FRATERNITY assuring the dignity of the individual and the (unity and integrity of the nation);  
IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949 do  
HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION."*



# 24th AICEAVF & 4th ICT Mela



## അവിലേന്ത്യാ വിദ്യാഭ്യാസ ചലച്ചിത്രോത്സവം തുടങ്ങി



അവിലേന്ത്യാ വിദ്യാഭ്യാസ ചലച്ചിത്രമേളയും ഐസിടി മേളയും ചന്ദ്രി സി രവിന്ദ്രനാഥ് ഉദ്ഘാടനം ചെയ്യുന്നു. കളമശേരി കൂസാറ്റിൽ 24-ാമത് അവിലേന്ത്യാ വിദ്യാഭ്യാസ ചലച്ചിത്രമേളയും ഐസിടി മേളയും ചന്ദ്രി സി രവിന്ദ്രനാഥ് ഉദ്ഘാടനം ചെയ്യുന്നു. കളമശേരി കൂസാറ്റിൽ 24-ാമത് അവിലേന്ത്യാ വിദ്യാഭ്യാസ ചലച്ചിത്രമേളയും ഐസിടി മേളയും ചന്ദ്രി സി രവിന്ദ്രനാഥ് ഉദ്ഘാടനം ചെയ്യുന്നു. കളമശേരി കൂസാറ്റിൽ 24-ാമത് അവിലേന്ത്യാ വിദ്യാഭ്യാസ ചലച്ചിത്രമേളയും ഐസിടി മേളയും ചന്ദ്രി സി രവിന്ദ്രനാഥ് ഉദ്ഘാടനം ചെയ്യുന്നു.





## From the Joint Director's Desk

The world is under the grip of a pandemic caused by COVID-19. A virus, which is said to have jumped animal-sphere to human beings at a wild-life market in the Wuhan city of China has spread rapidly to the far corners of the world and is causing devastation. More than a million people worldwide have been infected by this virus. Tens of thousands of people have died worldwide. And there is no let-up in the scourge caused by this epidemic. Given the enormity of the spread of the infections, National governments are finding it difficult to prevent its spread, contain the epidemic and treat the infected patients. According to WHO, the transmission of the COVID-19 virus can occur by direct contact with infected people (when the infected person coughs/sneezes releasing respiratory droplets of the sizes  $> 5-10\ \mu\text{m}$ ) and indirect contact with surfaces in the immediate environment or with objects used on the infected person (e.g., stethoscope or thermometer). Other modes of transmission such as airborne and faecal are also not ruled out.

Healthcare professionals and workers are at

the forefront of this fight against the epidemic. India too is facing this crisis. Thousands have been infected and a few have died. The Central government along with the State governments has undertaken a slew of measures to prevent and contain this epidemic. The Prime Minister, Shri Narendra Modi announced a countrywide lockdown for 21 days on March 24 to prevent the outbreak in the communities across the country. Schools, colleges, universities and other educational institutions are closed. Most of the workforces are working from the home. Students, teachers and faculty members are at home due to lockdown. In such a situation it is emergent upon us to ensure that learning of the children does not stop. And it can be achieved only through the wise application of available technology. While we do everything to flatten the epidemic curve, the learning curve of the children must continue. Keeping this in mind, the Central Institute of Educational Technology (CIET) has tried to make dedicated efforts in this direction.

Being an institution devoted to technological

interventions for teaching-learning at the school level and running various online platforms and courses for the same, the institution has tried to disseminate its ongoing works to those in need. Some of our primary initiatives are: ePathshala, NROER, MOOCs on SWAYAM, SWAYAM Prabha - Kishore Manch (Channel # 31), DIKSHA and NISHTHA. Being a storehouse of e-content in the form of e-books, audio, video and new media resources mapped to the syllabus of NCERT, these platforms and repositories have proven to be the first stop to the students and teachers during this time. This period of crisis and social distancing could not restrict the learners of any age-group from accessing the content required by them.

Apart from various e-learning platforms, CIET has tried to expand its reach to the students, teachers, educators and parents in India who do not have access to smart phones; continuous internet connectivity and other such digital platforms through DTH TV and radio channels. In order to cater to this population and reach out to the audience to the farthest corners of the country, telecast of NCERT's SWAYAM Prabha, Channel# 31 "Kishore Manch" is being planned not only through DTH TV but, also through the set top box of various private cable operators. CIET has also been coordinating with States/UTs for transmission of educational e-contents through SWAYAM Prabha DTH TV channels. It has started extending support to states like, Assam, Haryana, Punjab, and Uttar Pradesh. The States/UTs are responsible for creation, curation and sharing of video programmes for telecast and CIET has been providing support to them in vetting and other preparations for transmission. Educational Radio programs of CIET are regularly broadcast by Gyan Vani FM stations across the country.

As an educational institution striving to work for enhancing the knowledge & understanding of the country, CIET has tried to generate, systematize and disseminate learning material

through digital mode. A video programme to spread awareness about COVID-19 prevention & Treatment has been produced. Similarly, live discussion on Kishore Manch was carried out to spread awareness about the epidemic and the daily live interaction with experts on the channel was resumed for the benefit of the learners. Posters of various online platforms were also disseminated through social media platforms in order to generate awareness about the available e-resources. This has been done by not merely working in isolation but, in collaboration with various departments and institutions working in the same field, wherever necessary. Though the mission to serve the nation in this time of outbreak of epidemic has just started, the single day visit to some of our portals has gone up to more than 70,000 visitors. This not only shows the usefulness of our work but also the faith the stakeholders have on us with regard to the quality and authenticity.

While the world has gone almost stand still in terms of physical movement, the work in our institution is being carried out with the same vigor as before. Alongwith the mentioned works, CIET has undertaken its regular activities under the approved programmes. This includes; research study at block-level, development of e-content and programmes under various categories, activities under ICT curriculum and publication of academic journal, etc. Most of these projects have been completed in the given time period.

CIET will be undertaking various such programmes in the field of ET and ICT in the future also & we will keep all our stakeholders informed on these through our newsletters. With this I take this opportunity to wish every one a safe and healthy life ahead and help us in serving the nation.

**Amarendra P. Behera**



The current issue of CIET's Newsletter i.e. description of the activities taken up and status of all the programmes taken up by CIET has January-March, 2020 corresponds with the closing of the financial year therefore, a brief been given here.

## Programmes Proposals completed during 2019-20

PAC code	Title of the Programme	Programme Coordinator (s)	Work Done
<b>Research</b>			
13.01	Need based ICT Interventions in elementary schools in Six blocks in India	Dr. Abhay Kumar	<ul style="list-style-type: none"> <li>- Data Collection in blocks, viz., Bhilwara, Chilka, Hurda &amp; Icchawar completed.</li> <li>- Data entry of the tools has been completed and analysis of collected data has been done.</li> <li>- Tools were translated in Kannad and Bangla for the state of Karnataka and Tripura.</li> </ul>
<b>Development</b>			
13.02	Development of ICT courses for Pre-service Teacher Education curriculum	Dr. Mohd. Mamur Ali Dr. Rejaul Karim Barbhuiya (Since 17.02.2020)	<ul style="list-style-type: none"> <li>- ET/ICT curriculum documents are collected from 70 Teacher Education Institutions like, Central Universities, State Universities, CTEs, IASE etc. across the country.</li> <li>- Criteria for evaluating the ET/ICT curriculum documents is being prepared.</li> <li>- Report will be submitted.</li> </ul>
13.03	Development and Dissemination of Educational Media Programmes	Dr. Rajendra Pal	<ul style="list-style-type: none"> <li>- 700 audio programmes including 18 audio books</li> <li>- 597 video programmes</li> <li>- 18 audio and 315 video scripts were received and discussed.</li> <li>- 104 e-contents of various organisations were reviewed, Content of National War Memorial (Photographs, Videos, Document) &amp; Learning Content Material of DigiAbhyas (Document &amp; Videos) were also reviewed.</li> </ul>
13.04	Development and launch of Online Certificate Course on Research Methodology in Education	Dr. Rajendra Pal	<ul style="list-style-type: none"> <li>- Course outlines finalised.</li> <li>- 25 Video tutorials on various topics have been recorded and editing in progress.</li> <li>- 2 Text modules have been written and 17 are being developed.</li> </ul>
13.05	Development of e-resources for the School and Teacher Education	Shri Rajesh Kumar Nimesh	<ul style="list-style-type: none"> <li>- 05 illustrated stories on Hindi text-books of class 4 &amp; 5 have been developed. 12 storyboards were developed for comic book on Mathematics for class 3 for Manipur. Digital Comic Strip on 'Discover Gandhi' has been developed in collaboration with DESS-NCERT.</li> <li>- 82 AR based e-content related to Class IX-X science text books have been developed and finalised.</li> <li>- A field trial has also been conducted on at KV-JNU to get the review of developed resources.</li> <li>- The epathshala AR app was also launched by the Honourable MoS, HRD, GoI on 23 December, 2019.</li> </ul>
13.06	Development and implementation of SAMADHAN	Dr. Mohd. Mamur Ali	<ul style="list-style-type: none"> <li>- A review &amp; comparison of various existing Open Source Technologies for developing SAMADHAN portal was done.</li> </ul>

	(One Stop Technology solution to School)	Dr. Rejaul Karim Barbhuiya (Since 17.02.2020)	<ul style="list-style-type: none"> <li>- Software Requirement for System (SRS) for the web portal has been developed.</li> <li>- Wire Framework for the Portal has also been developed.</li> <li>- Portal development work started.</li> </ul>
13.07	Development and rollout of ICT curricula for ICT in Education in States/UTs	Dr. Angel Rathnabai	<ul style="list-style-type: none"> <li>- Training-cum-workshop on 'Designing ICT interventions for enhancing teaching, learning and assessment' was conducted for mentors - 55 ICT awardees participated.</li> <li>- Customised refresher 1 rubrics for Karnataka</li> <li>- Student - year 1 and Teacher Induction -1 course finalised</li> <li>- Finalisation of e-portfolio activities for induction 01 course of teacher curriculum was done.</li> <li>- Piloted workshop mode of portfolio submission in one district training at Karnataka</li> <li>- Cyber safety booklets translated in Hindi</li> <li>- Testimonials of 70 ICT awardees developed</li> <li>- Assessment of induction 01 course of ICT awardees is in progress.</li> </ul>
<b>Training</b>			
13.08	Organization of Online Certificate Course on Action Research in Education	Dr. Rajendra Pal	<ul style="list-style-type: none"> <li>- The 9th cycle of the Course has begun (ictcurriculum.gov.in)</li> <li>- Total 167 candidates enrolled.</li> <li>- Course modules have been made available.</li> <li>- Two online synchronous meetings were conducted. The queries of participants were resolved during the meetings.</li> <li>- Access to Module 3 &amp; 4 was opened for the participants.</li> <li>- Assignments on Module 1, 2 &amp; 3 are being received and feedback was regularly being provided to the participants.</li> </ul>
13.09	Continuous Professional Development of NCERT Faculty on ICT in Education	Dr. Mohd. Mamur Ali Dr. Rejaul Karim Barbhuiya (Since 17.02.2020)	<ul style="list-style-type: none"> <li>- A tentative schedule for conducting theme-wise programmes (Cyber Safety and Security, OERs, FOSS, AI, AR &amp; VR, MOOCs, etc.) has been prepared. Names of the experts have also been identified.</li> <li>- Two programmes conducted –               <ol style="list-style-type: none"> <li>1. Orientation on Technical Aspects of NISHTHA</li> <li>2. Interactive Presentation</li> </ol> </li> <li>- Online sessions have been conducted.</li> </ul>
13.10	Development of model for ICT integrated school system	Dr. Angel Rathnabai	<ul style="list-style-type: none"> <li>- Training-cum-workshop on 'Designing ICT interventions for enhancing teaching, learning and assessment' conducted in 04 phases in each of the DMS. All DMS teachers (n=175; including adhoc teachers from Bhopal and Ajmer) and 70 National ICT Awardees have been oriented.                RIE, Bhubaneswar                RIE, Bhopal                RIE, Ajmer                RIE, Mysore</li> <li>- Israel collaboration project at DMS, Mysore has been initiated. Collaboration project for DMS Bhopal and Bhubaneswar has been</li> </ul>



			<p>planned</p> <ul style="list-style-type: none"> <li>- Identified around 60 mobile apps for education and documentation in progress</li> <li>- Around 400 games were identified and mapping with NCERT syllabus.</li> <li>- Two ICT lab activities conducted for 4th standard students of KV primary school, NCERT campus.</li> <li>- Safer Internet Day celebrated in all the DM Schools by taking a pledge.</li> <li>- As part of Israel Online School Programme, students of DMS, Mysore was completed and fourth collaborative activity initiated.</li> </ul>
	<b>Extension</b>		
13.11	Online Publication of Indian Journal of Educational Technology and Newsletter	Dr. Abhay Kumar	<ul style="list-style-type: none"> <li>- CIET's Quarterly Newsletter April-June, July-September, and October-December, 2019 issues have been published online.</li> <li>- The 3rd issue i.e. January, 2020 issue of CIET's bi-annual, peer-reviewed, online, open access Journal, Indian Journal of Educational Technology has been published on its website</li> <li>- A meeting of Editorial Board was held.</li> <li>- Announcement for inviting Manuscripts for the July, 2020 issue of CIET's journal IJET was done online.</li> <li>- 46 manuscripts were received for the July, 2020 issue of the journal.</li> </ul>
13.12	Resource-cum-Activity Centre in ET/ICT for School and Teacher Education	Dr. Abhay Kumar	<p>Children's Summer Camp held from 3-14 June, 2019 where, 77 children from classes V-X participated.</p> <ul style="list-style-type: none"> <li>- Internship for 28 B.Ed. students &amp; 01 M.Phil. student conducted</li> <li>- 04 Assistant Secretaries (IAS officers of 2017 batch) oriented</li> <li>- 1402 students/teachers from 20 TEIs visited CIET for internships/exposure as part of (B.Ed., M.Ed, B.El.Ed., D.El.Ed., etc. programs) in the areas of ICT as part of their Program</li> <li>- 211 Principals, faculty members, Senior Coordinators, officials, etc. came from 12 Organisations/Institutions for Attachment Training Programme at CIET</li> <li>- ICT lab activities were conducted for 5th standard students of KV Primary School, NCERT campus.</li> </ul> <p>Apart from 12 newspapers that are available in the Library of CIET, five new books were purchased in January - March, 2020. The details are given as following:</p> <ul style="list-style-type: none"> <li>- The Copyeditor's Handbook 4/E (2019) by Einsohn</li> <li>- Butcher's Copy-editing BY BUTCHER J 2019</li> <li>- The Chicago Manual of Style 17e Pub. Univ. of Chicago Press 2017</li> <li>- Publication Manual of the American Psychological Association 7/Edn (APA) 2020</li> <li>- MAIN SEEKHTA HUN BACCHON SE JEEVAN KI BHASHA (Hindi) by Alok Kumar Mishra 2019</li> </ul>

13.13	Development of Resources and Support for Web and Online Activities	Dr. Mohd. Mamur Ali Dr. Rejaul Karim Barbhuiya (Since 17.02.2020)	<ul style="list-style-type: none"> <li>- Development and Maintenance of 14 web-portals and 08 mobile apps are done on regular basis.</li> <li>- Two new apps &amp; one new portal developed.</li> <li>- All Surveys of Research in Education have been digitised and uploaded (<a href="http://osre.ncert.gov.in/">http://osre.ncert.gov.in/</a>).</li> <li>- 100 ERIC reports analysed, abstract prepared and uploaded on the online survey of research in education</li> </ul>
13.14	National Conference on ICT Education	Dr. Angel Rathnabai	Themes and date for the conference finalised. Conference could not be held due to COVID-19 outbreak.
<b>MHRD-GOI Funded</b>			
13.15	Development of course materials for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education) SWAYAM Prabha DTH Channel (funded by MHRD through IIT Madras)	Dr. Mohd. Mamur Ali Dr. Rejaul Karim Barbhuiya (Since 17.02.2020)	<ul style="list-style-type: none"> <li>- Course Materials updated and additional resources developed for courses including 80 Modules of Physics and 11 courses in other subjects.</li> <li>- New Assessment items/question papers were developed for 11 courses in Dec, 2019.</li> <li>- Introductory videos for 11 MOOCs recorded.</li> <li>- 80 scripts for videos enriched, 25 Scripts and 08 Videos reviewed. A booklet for School MOOCs developed and is ready for review.</li> </ul>
<b>PAB/DSE&amp;L Funded</b>			
13.16	Development and Maintenance of Mobile Apps and Digital Platforms (e pathshala and NROER)	Dr. Indu Kumar	<p><b>ePathshala:</b></p> <ul style="list-style-type: none"> <li>- QR codes for 208 textbooks were mapped with e-resources</li> <li>- QR codes pasting has been verified for 337 textbooks.</li> <li>- Flipbooks uploaded: 504</li> <li>- ePub uploaded: 696, Pdf uploaded : 504</li> </ul> <p>Total eResources mapped with QR codes: 5531 Video: 1119, Audio: 1131, Image: 282, Interactives: 819, pdf: 2175, epub: 05 Total number of textbooks (in Urdu medium) converted to Unicode = 55. Development of a mobile app for Mauritius SSP is being planned as an extension of support to Mauritius.</p> <p><b>NROER:</b> Developed resources= 422 Uploaded resources = 747 A new wire-frame for NROER V.2 was developed 'Revision of metadata for different curricular subjects &amp; theme mapping' was done - metadata of 1500 e-resources revised and curated, theme mapping was done A two-day workshop was conducted from 10-11 December, 2019 to review 50 e-content (interactives) for NROER. Metadata for around 70 Audiobooks has been developed and is in the process of uploading on NROER.</p> <p><b>DIKSHA:</b> Till date 88 books are live and 129 are under progress. 2,171 eResources have been uploaded on DIKSHA portal. DIKSHA: Instance for NCERT created on DIKSHA (<a href="http://diksha.gov.in">diksha.gov.in</a>)</p>



13.17	National ICT Award for School Teachers	Prof. A. P. Behera	<ul style="list-style-type: none"> <li>- National ICT Awards to School Teachers – 2017 – Conferred on 43 selected teachers on 23 Dec, 2019.</li> <li>- Advertisements to obtain entries for National ICT Awards to School Teachers – 2018 and 2019 – to be done.</li> </ul>
13.18	Organization of Festival, ICT Mela, contests of digital contents and coordination with States/ UTs.	Dr. Abhay Kumar	<ul style="list-style-type: none"> <li>- The 24th AICEAVF and 4th ICT Mela was organised at CUSAT, Kochi, Kerala</li> <li>- Total 72 awards were distributed to winners in the form of cash prize, certificates and mementos.</li> <li>- The 4th ICT Mela had 40 stalls with different Govt., NGOs and Private organisations as well as National ICT Awardees showcasing their innovative ICT initiatives in education.</li> <li>- The themes of stalls varied from e-Content, integration of ICT into pedagogy, Mobile app, AI, AR, VR, Robotics, Weather forecast and prediction, etc.</li> <li>- All the exhibitors were felicitated with memento and certificate for participation.</li> </ul>
13.19	Professional Development of Teachers & Teacher Educators through Blended Mode (Satellite network and Face to Face Mode)	Dr. A.P. Behera	<ul style="list-style-type: none"> <li>- Joint meetings (2 such meetings held in Bangalore and in New Delhi) of SATCOM-ISRO and NCERT have been held in this regard.</li> <li>- The modalities are being worked out based on past experiences.</li> </ul>
13.20	Development and dissemination of ETV Programmes through DTH – TV Network for Schools	Dr. Abhay Kumar	<ul style="list-style-type: none"> <li>- Until now, 29 States have responded to the letter sent for starting DTH network.</li> <li>- One channel for TE is ready for launch.</li> <li>- BISAG has been requested to initiate the process.</li> </ul>

## Report on IAB, AC and PAC

NCERT has a robust and rigorous mechanism for scrutinising & finalising academic proposals. In CIET, it began with the several rounds of brainstorming meetings of the faculty members for deciding the new proposals for the financial year 2019-20 as given in the Table: Programme Proposals at a Glance (2020-21). These proposals were discussed formally in the Institute's Advisory Board (IAB) meeting held on 31st January, 2020 at CIET, NCERT, New Delhi. The meeting was Chaired by Prof. Amarendra P. Behera, Joint Director, CIET and attended by Shri Virender Kumar, Director DECU, Ahmedabad; Prof. Bharti Baveja, AUD, New Delhi and Shri Aburaj B., Director SIET, Kerala along with the internal members of CIET and other departments of National Institute of Education (NIE), NCERT, New Delhi. Based on

the inputs and advice in the IAB meeting, these proposals were further modified and placed in the Academic Committee (AC) for consideration. The Meeting of the Academic Committee of NIE was held from February 18-20, 2020 in the Conference Room, First Floor, Zakir Hussain Block, NCERT New Delhi, to discuss the programme proposals recommended by the Departmental Advisory Boards (DABs) of the Departments/Divisions/Cells of NIE for the year 2020-21. The meeting was held to discuss the programme proposals for inputs from the members of Academic Committee before recommending the same to the Programme Advisory Committee (PAC).

A meeting to finalise the Annual Work Plan & Budget (AWP&B) of NCERT for the year 2020-21 under Samagra Shiksha was held on 12.3.2020 at MHRD Conference Hall, Shastri Bhawan, New Delhi. At the outset, Shri Amit Khare,

Secretary (SE&L) welcomed all the participants and the NCERT representatives. The team of NCERT was invited to make a presentation on their activities and best practices during the year. NCERT made a presentation on the various initiatives taken for promoting quality

education by integrating technology. All the on-going PAB programmes of CIET except 'Professional Development of Teachers and Teacher Educators through Blended Mode (Satellite network and Face to Face Mode)' were approved for the next financial year.

## Developments taken place in the major ICT initiatives of CIET during the **# COVID - 19 Outbreak**

### SWAYAM Prabha:

- 14 episodes on weekdays (11.30 am to 12.00 noon) and 3 episodes (3:00 pm to 3:30 pm) on Educational administration (30 min. each) every Friday live discussion transmitted on SWAYAM Prabha DTH-TV Channel and YouTube channel of NCERT.
- 14 live sessions (one hour each) transmitted on 'Guidance for Students: Exam Helpline.
- 186 hours of content telecast on SWAYAM Prabha Channel 31 'Kishore Manch'
- Due to COVID-19 outbreak and locked down in the country consequently affected the live telecast after March 20th which was later on resumed w.e.f. 3rd April, 2020 (in a phased manner). The schedule of live telecasts is available on [https://www.swayamprabha.gov.in/index.php/live\\_programs](https://www.swayamprabha.gov.in/index.php/live_programs)
- Five hours of Live sessions i.e. nine live sessions: four live sessions (30 min. each) of Primary stage from 11:00 am to 1:00 pm and four live sessions (30 min. each) of Upper Primary stage from 2:00-4:00 pm alongwith 01 hour of live Webinar session for teachers' education has started from April, 2020.
- The telecast of 'Kishore Manch' has now started at eight different digital platforms:
  1. DD Free dish channel #128
  2. Zee Dish TV Channel #2370
  3. TataSky Channel #756
  4. Airtel TV Channel #440
  5. VmVideocon Channel #477
  6. Sundirect channel #793
  7. Jio TV App (Swayam Prabha 31)
  8. 'NCERT OFFICIAL' YouTube Channel
- Extended content coverage: Apart from secondary and senior secondary content, NCERT has initiated to include elementary level programs telecast on the channel to cover the unreached stakeholders at this crucial time. The telecast of elementary programs will be started from 18th April 2020 onwards.
- NCERT has been given the responsibility of coordinating States/UTs for transmission of school education e-contents of through SWAYAM PRABHA DTH channel. To start with states like Tamil Nadu, Karnataka, Maharashtra, Madhya Pradesh, Nagaland Tripura, Punjab and Haryana have expressed interest to telecast video programs in regional languages two hours fresh slot in forenoon with two hours if repeat telecast in the afternoon.
- The states are responsible and sharing of creation, curation, sharing of video and preparation of program schedule. NCERT shall further validate the contents, program schedule and get ready for telecast on SWAYAM Prabha channels.



- Till date the state of Punjab, Haryana, Uttar Pradesh, and Maharashtra have started sharing e-contents and metadata in the prescribed format.
- Punjab and Maharashtra started telecasting their content from 20th April, 2020.

#### **MOOCS on SWAYAM:**

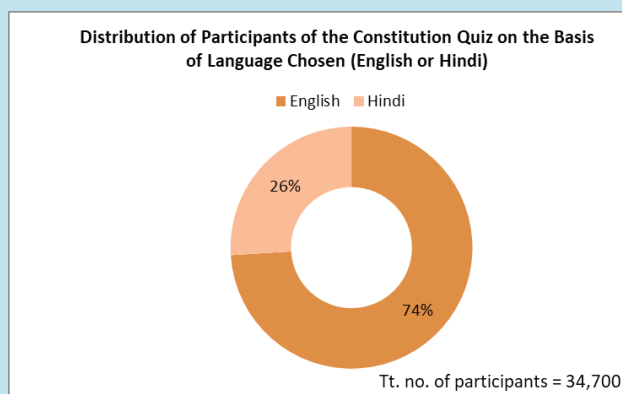
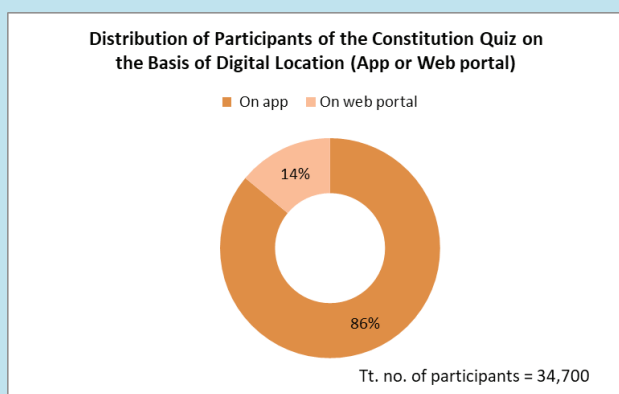
- Two workshops were organised on March 9 & 11-18 March, 2020 for:
  - o Finalization of content for Paper 15-Inclusive Education (Higher Education)
  - o Development of new course content such as: Geography 02, Psychology 02, Geography Practical, Business Studies 01, Accountancy 03 etc. and their review.
  - o Review of script and enrichment
  - o Revision of e-texts for Economics and Mathematics courses
- Uploaded 29 MOOCs course content on CIET website
- Enrolment dates were extended of all School MOOCs on SWAYAM.
- A total of 78,226 learners are enrolled in these courses.
- Following 11 courses (6 new for students and 5 Re-run for teacher educators) are ready to submit to SWAYAM:
  - Accountancy XII Part-I, Business Studies XI Part-I, Mathematics XI Part-II, Geography XI Part-II, Psychology XI Part-II, Urdu language Teaching at Elementary Stage, Action Research for Teachers, Urdu Language Teaching, Food Nutrition for Healthy Living, Pedagogy of Environmental Studies and Urdu Language Script Learning.
  - Translation of 14 courses into eight languages (Hindi, Tamil, Malayalam, Kannada, Telugu, Marathi, Bengali and Gujarati) has been proposed to SWAYAM in two phases.
  - Enrichment of six scripts from the Research Methodology course for Higher Education.
  - Editing of three videos from the Research Methodology course for Higher Education.
  - Corrections in 4 videos of Chemistry, Class XII MOOCs

#### **NROER:**

- Metadata creation for 70 audio books of NCERT; Metadata creation of around 315 UNICEF e-Resources; creation of instance on NROER site for our Partners, Dragon Learn, RFlashino, SARD, UNICEF, etc.;
- Around 3,492 new PDF NCERT QR coded textbooks & chapters added to the text resources of NROER and old versions replaced; Development of Version 2 of NROER is in progress.
- Metadata creation for 70 audio books of NCERT; Metadata creation of around 315 UNICEF e-Resources out of which 200 e-resources of Meena Series for elementary grade learners have already been uploaded on NROER; creation of instance on NROER site for our Partners, Dragon Learn, RFlashino, SARD, UNICEF, etc.
- Around 3,492 new PDF NCERT QR coded textbooks & chapters added to the text resources of NROER and old versions replaced; Development of Version 2 of NROER is in progress.
- Total number of e-Resources uploaded in the open repository i.e. NROER for free use are 17,866 including - 697 collection, 5,906 documents, 1,357 interactive, 1,863 audios, 2,583 images, 6,157 videos. The total no. of registered users till April 24, 2020 were 17,161.
- All the NCERT MOOC Courses will be added to NROER and will soon be updated on the NROER version 2.0 so that students can learn from home & update their knowledge of various subjects.
- School Bhuvan app is now linked to NROER website and can be easily accessed from there.
- Quiz on the Indian Constitution was linked to NROER platform from where the students can click on the banner and participate in the quiz while staying safe at their homes. As on 25 April, 2020 34,700 students participated in the quiz.



Fig: Metrics related to The Constitution Quiz as on 25 April, 2020



- BRICSMATH Competition linked to NROER platform. The students can click on the banner to participate and enroll for the competition, while staying safe at their homes.

### Epathshala:

- QR code eResource mapping is in process for NCERT textbooks. The number of NCERT text books for which mapping is completed is 223.
- Uploading of digital textbooks of NCERT (Reprint 20-21) of class 1-12 in pdf, flipbook and epub format is in process.
- Metadata cleaning of Epathshala eResources: 2595 audio/video programs was done for better search and accessibility on Epathshala.
- Metadata creation for all chapters of 70 audio books of NCERT, mp4 conversion in process so that uploading can be done on Epathshala.
- The portal had 62,411,734 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. In all about 32,88,589 users downloaded the app from various play stores. Total views of ePathshala on YouTube have been amounted to 42,160,612. Total number of files on YouTube: 3885. 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 41,336 downloads, PARAKH (Third Party Evaluation of ICT in States) had 3,143 users whereas, KISHORE MANCH had 6,728 users. ePathshala on UMANG had 35,96,322 hits. Twelve books of vocational education are available on ePathshala app. ePathshala Scanner app



was downloaded by 86,850 people. ePathahala AR app which was launched in December, 2019 has a rating of 3.60 out of 5 on Google play store and in all 3,468 users downloaded the app.

#### DIKSHA:

- Metadata created for 95 textbooks which includes all types of e-content (audio, video, text, interactives and images) sent for bulk/manual uploading.
- Total number of books published and made live on the DIKSHA portal are 46, i.e. (Class VI-X= 6 books of English +Hindi Medium, Class XI-XII= 37 books of English +Hindi Medium, I-XII =3 books of Urdu language).
- Total e-content made live during this period was 1,314.
- Launched Quiz on Indian Constitution on 14 April, 2020 for school students in order to enhance their interest and knowledge of Indian Constitution while staying at home and safe. Total number of students who played the quiz till 24 April, 2020 was 20,800.

## Live Discussion on SWAYAM PRABHA

Since 2017, Live interactive programs with academic experts are being telecast on SWAYAM Prabha DTH-TV Channel 'Kishore Manch' every working day. From January to March, 2020, 68 live telecasts with 35 hours have been covered including various topics related to secondary and senior secondary school students, teachers & teacher education. It included special weekly (Every Friday) live programs on school leadership and administration in collaboration with National Centre for School Leadership, National Institute of Educational Planning and Administration, New Delhi. Besides, Special segment for students appearing for board examination has been transmitted live w.e.f. 3rd February to 20th March 2020 entitled as "Guidance for Students: Exam Helpline". Overall, 36 episodes (one hour each) were streamed live for counselling students, parents and teacher

during examinations. Due to COVID-19 outbreak and locked down in the country consequently affected the live telecast after March 20th which was later on resumed w.e.f. 3rd April 2020. The schedule of live telecasts is available on [https://www.swayamprabha.gov.in/index.php/live\\_programs](https://www.swayamprabha.gov.in/index.php/live_programs).

The following figure presents that out of 68 live telecast majority of live discussions were on languages and school leadership with 20.58 % and 17.64 % respectively followed by science (14.70 %), teacher education (08.82 %) and social sciences (08.82 %). The discussion on inclusive education and information and communication technology in education were 04.41 % each. However, other 19.11 % of the programs were related to art education, library science, guidance and counselling and generic in nature.

Figure: Subject-wise distribution of Live telecast on SWAYA M Prabha Channel #31 'Kishore Manch'

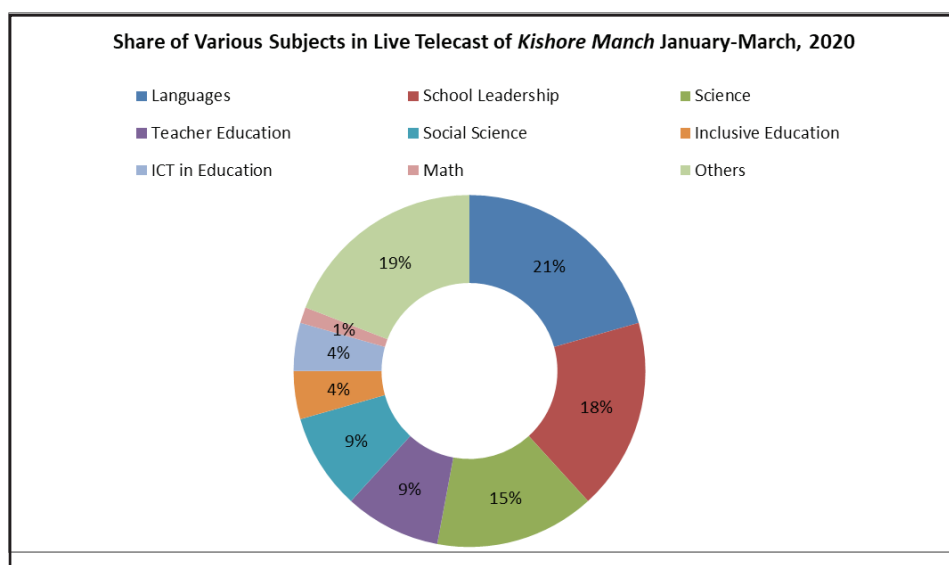


Table: Live discussion programs telecast on SWAYAM Prabha Channel #31 'Kishore Manch' January - March, 2020

Sr. No.	Topic	Subject	Expert/s	Affiliation	Date	Start Time	End Time
1	Mijbil the Otter Describing a Repeated Action in the Past : 'would' & 'used to'	English	Prof. R. Meganathan & Kriti Gautam	DEL, NCERT	2020-01-01	4:00 PM	4:30 PM
2	Teacher Performance Assessment: What? Why? & How?	Teacher Education	Dr. Vijayan K. & Dr. J.K. Patidar	Department of Teacher Education, NIE NCERT	2020-01-02	4:00 PM	4:30 PM
3	आओ जानें सर्प, सर्पदंश और सर्प के काटने से बचने के उपाय	Science	Prof. Krishan Kumar Sharma & Dr. Pushp Lata Verma	Former VC, M.D.S. University, Rajasthan & DESM, NCERT	2020-01-03	4:00 PM	4:30 PM
4	System Level Leadership: Initiating Change	School Leadership	Prof. Kumar Suresh & Dr. Sunita Chugh	Dept. of Educational Administration, NIEPA, New Delhi & NCSL, NIEPA, New Delhi	2020-01-03	4:45 PM	5:15 PM
5	Understanding Employment situation in India	Economics	Dr. M.V. Srinivasan	DESS, NCERT	2020-01-06	4:00 PM	4:30 PM
6	DIET and the Government Primary School: A Synergistic Relationship in UP	School Leadership	Dr. Charu Malik, Ms. Shivani Yadav & Ms. Neeta Joshi	NCSL, NIEPA, New Delhi; Govt. Inter College (Etah, U.P.); Govt. Primary School (Bareilly, U.P.)	2020-01-06	4:00 PM	5:00 PM
7	eContent - Development and Validation	ICT in Education	Dr. Angel Rathnabai	CIET-NCERT	2020-01-07	4:00 PM	4:30 PM



8	साहित्य को कैसे पढ़ाएं	Hindi	प्रो. विजय बहादुर सिंह & प्रो. संध्या सिंह	हिंदी के कवि और समालोचक & भाषा शिक्षा विभाग एन. सी. ई. आर. टी	2020-01-08	4:00 PM	4:30 PM
9	पूर्व – प्राथमिक स्तर पर बच्चे कैसे सीखते हैं ?	Teacher Education	Dr. Reetu Chandra	DEE, NCERT	2020-01-09	4:00 PM	4:30 PM
10	Basics of First Aid	Science	Dr. Piyush Mishra & Dr. Rakesh Garg	AIIMS, New Delhi	2020-01-10	4:00 PM	4:30 PM
11	Peer Sharing among School Leaders: Transforming Schools Collaboratively	School Leadership	Mr. Ranjan Kumar, Mr. Dhananjay Kumar, & Dr. Charu Malik	Govt. Middle School Bihat, Barauni, Bihar, Govt. Middle School Bihat, Ratauli, Bihar & NCSL, NIEPA	2020-01-10	4:45 PM	5:15 PM
12	Helping to deal with Exam Anxiety	Guidance and Counselling	Dr. Jitendra Nagpal & Mr. Harish Kr. Meena	Chairperson, Association of Indian School Counsellors & Allied Professionals, New Delhi; DESS, NCERT	2020-01-13	4:00 PM	4:30 PM
13	Flipped Learning Part II	ICT in Education	Prof. Harjeet kaur Bhatia and Dr. Alka Singh	Jamia Millia Islamia and CIET, NCERT	2020-01-14	4:00 PM	4:30 PM
14	सूर्यकांत 'त्रिपाठी' निराला की दो कविताएं भाग - 2	Hindi	डॉ. प्रमोद कुमार दुबे	भाषा शिक्षा विभाग, एनसीईआरटी	2020-01-15	4:00 PM	4:30 PM
15	बाल साहित्य के लिए किताबों को कैसे बनाएं	Teacher Education	Dr. Syed Perwaiz Ahmed	Publication Division, NCERT	2020-01-16	4:00 PM	4:30 PM
16	Inclusive Outdoor Environmental Education	Inclusive Education	Dr. Kendra Liddicoat & Dr. C V Shimray	University of Wisconsin- Stevens Point - USA, Fulbright Specialist at NCERT & DESM, NCERT	2020-01-17	4:00 PM	4:30 PM
17	Leadership Addressing specific socio-cultural contexts	School Leadership	Dr. Jitender Singh; Mrs. Sunil Kumari & Dr. Charu Malik	Govt. Sr. Sec School, Punhana, Nuh, Haryana; Govt. Sr. Sec School, Sohna, Gurugram, Haryana & NCSL, NIEPA, New Delhi	2020-01-17	4:45 PM	5:15 PM
18	Visuals in the Pedagogy of History Teaching	Teacher Education	Prof. Gouri Srivastava	Dept. of Education in Social Sciences, NCERT	2020-01-20	4:00 PM	4:30 PM
19	Formats of Radio Production	Vocational Education	Mr. Ajit Horo	CIET - NCERT	2020-01-21	4:00 PM	4:30 PM
20	स्वरसन्धि: – सामान्य परिचय:	Sanskrit	Prof. Jatindra Mohan Mishra & Dr. Ved Prakash Mishra	Dept. of Education in Languages, NCERT	2020-01-22	4:00 PM	4:30 PM

21	भारतीय संविधान में राष्ट्र-राज्य निर्माण की परिकल्पना	Political Science	Prof. Sanjay K. Bhardwaj & Prof. Shankar Sharan	Centre for South Asian Studies, JNU, New Delhi & DESS, NCERT	2020-01-24	4:00 PM	4:30 PM
22	Leadership for School Improvement and Student Learning	School Leadership	Prof. N.V. Varghese Vice-Chancellor, NIEPA, New Delhi Dr. Sunita Chugh	NIEPA, New Delhi	2020-01-24	4:45 PM	5:15 PM
23	Prevention of Bullying in Schools	General	Prof Saroj Yadav and Ms Sarita Jadav	Dean (Academics) NCERT and UNESCO	2020-01-27	4:00 PM	4:30 PM
24	Building Mental Health	Psychology	Dr. Ruchi Shukla	DEPFE, NCERT	2020-01-28	4:00 PM	4:30 PM
25	Reading - Lost Spring: Stories of Stolen Childhood	English	Prof. Meenakshi Khar	Dept. of Education in Languages, NCERT	2020-01-29	4:00 PM	4:30 PM
26	Story telling as Language Pedagogy	English	Prof. Varda Nikalje	DEE, NCERT	2020-01-30	4:00 PM	4:30 PM
27	Role of Governance and Leadership for Quality Education	School Leadership	Dr. N. Mythili	NIEPA, New Delhi	2020-01-31	4:45 PM	5:15 PM
28	Current Electricity Part II	Physics	Prof. Shashi Prabha	Department of Educational Kits, NCERT	2020-01-31	4:00 PM	4:30 PM
29	Gender mainstreaming in Social Science Textbooks	Gender in Education	Prof. Neerja Rashmi	Department of Education in Social Sciences NCERT	2020-02-03	11:30 AM	12:00 PM
30	Kala Utsav' - An Initiative to identify hidden talent	Art Education	Prof. Jyotsna Tiwari & Dr. Sharbari Banerjee	Dept. of Education in Arts & Aesthetics, NCERT	2020-02-04	11:30 AM	12:00 PM
31	'Teaching of Faiz's Poetry: Tanhai' फैज़ की नज़्म - 'तन्हाई' की तदरीस	Urdu	Prof. Mohd. Moazzamuddin	Dept. of Education in Languages, NCERT	2020-02-05	11:30 AM	12:00 PM
32	Fostering the Spirit of Innovation & Entrepreneurship (Atal Tinkering Mission)	Teacher Education	Prof. Sharad Sinha	Department of Teacher Education, NCERT	2020-02-06	11:30 AM	12:00 PM
33	Congruence of Triangles Part II	Mathematics	Prof. A.K. Wazalwar & Prof. T.P. Sarma	DESM, NCERT	2020-02-07	11:30 AM	12:00 PM
34	Approaches to Teacher Learning in School Context	School Leadership	Dr. Subitha G. V	NCSL, NIEPA, New Delhi	2020-02-07	3:00 PM	3:30 PM
35	Concept Mapping: A pedagogical technique in Social Science	Social Science	Prof. Gouri Srivastava	Dept. of Education in Social Sciences, NCERT	2020-02-10	11:30 AM	12:00 PM

36	Cyber Wellness	ICT in Education	Prof. Amarendra P. Behera, Dr. Neha Bajpai & Ms. Nisha Dua	CIET, Centre for Development of Advanced Computing and Cyber Peace Foundation	2020-02-11	11:30 AM	12:30 PM
37	घनानंद और उनका सवैया	Hindi	Prof. Lalchand Ram	Dept. of Education in Languages, NCERT	2020-02-12	11:30 AM	12:00 PM
38	Relevance of Radio in Modern Era	General	Mr. Ajit Horo, Mr. Lakshmendra Chopra and Dr. Vartika Nanda	CIET, Akashwani and Delhi University	2020-02-13	11:30 AM	12:30 PM
39	Academic Writing	General	Dr Abhay Kumar	CIET - NCERT	2020-02-14	11:30 AM	12:00 PM
40	Education of the Disadvantaged: Issues and Perceptions	School Leadership	Prof. A K Singh	NIEPA, New Delhi	2020-02-14	3:00 PM	3:30 PM
41	Rural Development	Social Science	Dr. Jaya Singh	Dept. of Education in Social Sciences, NCERT	2020-02-17	11:30 AM	12:00 PM
42	Basis of Curriculum Design	General	Prof. Anita Nuna and Prof. M Jayakrishnan	DCS, NCERT and Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha	2020-02-18	11:30 AM	12:00 PM
43	संस्कृत: दसवीं की परीक्षा की तैयारी	Sanskrit	Prof. K C Tripathi	Dept. of Education in Languages, NCERT	2020-02-19	11:30 AM	12:00 PM
44	Accessible Textbook for 'All'	General	Prof. Anupam Ahuja and Zoya Chadha	International Relation Division, NCERT	2020-02-20	11:30 AM	12:00 PM
45	Language Education: Mother Tongue ? Other Tongue ??	Language education	Prof. Ajit Mohanty & Prof. R. Meganathan	(Formerly with Jawaharlal Nehru University, New Delhi) Eminent Academic, Pedagogue and Thinker & DEL, NCERT	2020-02-21	11:30 AM	12:00 PM
46	Leadership Efforts for Improving Student Learning in the Backdrop of Mountains	School Leadership	Dr. Charu Malik & Mr. Subhash Chandra Joshi & Mr. Uttam Singh Rana	NCSL, NIEPA; Govt. Model Primary School, Uttarakhand & Govt. Primary School, Uttarakhand	2020-02-21	3:00 PM	3:30 PM
47	Market and Marketing Techniques	Commerce	Prof. Shipra Vaidya	Dept. of Education in Social Sciences, NCERT	2020-02-24	11:30 AM	12:00 PM



48	Gender Issues in Education	Gender in Education	Prof. Mona Yadav & Prof. Poonam Agrawal	Department of Gender Studies, NCERT	2020-02-25	11:30 AM	12:00 PM
49	Integration of Skills and Learning Language with specific reference to Mijbil the Otter	English	Prof. Sandhya Rani Sahoo	Department of Education in Languages, NCERT	2020-02-26	11:30 AM	12:00 PM
50	Musicians in Indian Music awarded Bharat Ratna	Art Education	Dr. Sharbari Banerjee	DEAA, NCERT	2020-02-27	11:30 AM	12:00 PM
51	Carbon Dioxide and its Properties	Science	Prof. Anjni Koul & Prof. Alka Mehrotra	Dept. of Education in Science & Mathematics, NCERT	2020-02-28	11:30 AM	12:00 PM
52	Preparing school leaders for effective transition from school to higher education	School Leadership	Prof. Sudhanshu Bhushan	National Institute for Educational Planning and Administration, New Delhi	2020-02-28	3:00 PM	3:30 PM
53	Ideas of Gandhi Ji	History	Prof. Pratyusa Kr. Mandal	Dept. of Education in Social Sciences, New Delhi	2020-03-02	11:30 AM	12:00 PM
54	Pedigree Analysis	Science	Prof. Dinesh Kumar	DESM, NCERT	2020-03-03	11:30 AM	12:00 PM
55	उर्दू असनाफ की तफ़हीम – हिस्सा अब्बल (नस्र)	Urdu	प्रो० मो० फारुख अंसारी	भाषा शिक्षा विभाग, एन सी ई आर टी, नई दिल्ली	2020-03-04	11:30 AM	12:00 PM
56	Strengthening School Libraries	Library Science	Prof. Saroj Yadav and Ms. Pooja Jain	Chairperson, LDD & Dean- Academic & Assistant Librarian, LDD	2020-03-05	11:30 AM	12:00 PM
57	International Women's Day - महिलाओं के बढ़ते कदम	General	Prof. Poonam Agrawal and Dr. Mala Bhandari	DGS, NCERT and Social and Development Research and Action Group	2020-03-06	11:30 AM	12:00 PM
58	Study of Monuments: An Educational Process	Art Education	Prof. Jyotsna Tiwari	Dept. of Education in Arts & Aesthetics, NCERT	2020-03-09	11:30 AM	12:00 PM
59	Novel Coronavirus : Prevention & Treatment कोरोनावायरस: रोकथाम एवं उपचार	General	Dr. Nitish Dogra, Prof. Ravi Meher & Dr. C V Shimray	International Institute of Health Management Research (IIHMR), New Delhi; Maulana Azad Medical College, New Delhi & DESM, NCERT	2020-03-11	11:30 AM	12:30 PM
60	Promotion of Health and Wellness in Schools	General	Prof. Saroj Yadav & Mr. Harish Kr. Meena	Dean Academics, NCERT & DESS, NCERT	2020-03-12	11:30 AM	12:00 PM

61	नमक का दारोगा : प्रेमचंद	Hindi	Dr. Naresh Kohli	Dept. of Education in Languages, NCERT	2020-03-13	11:30 AM	12:00 PM
62	Legitimisation of School Leadership of Women	School Leadership	Dr. N. Mythili	NIEPA, New Delhi	2020-03-13	3:00 PM	3:30 PM
63	Teaching-learning of Economics Part 2	Economics	Dr. Pratima Kumari	DESS, NCERT	2020-03-16	11:30 AM	12:00 PM
64	Human Development and Adjustment	Psychology	Ms. Deepmala	DEPFE, NCERT	2020-03-17	11:30 AM	12:00 PM
65	Sanskrit - Yatra ab tak	Sanskrit	Prof. K C Tripathi & Dr. Ved Prakash Mishra	Dept. of Education in Languages, NCERT	2020-03-18	11:30 AM	12:00 PM
66	National Achieve- ment Survey (NAS)	General	Dr. Gulfam	Educational Survey Division, NCERT	2020-03-19	11:30 AM	12:00 PM
67	World Water Day : Every Drop Count	Science	Prof. Dinesh Kumar & Dr. C.V. Shimray	DESM, NCERT	2020-03-20	11:30 AM	12:00 PM

## 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. Following is the list of scripts that were placed before the script committee for assessment during January-March, 2020.

**Table: List of scripts taken up in the script committee meetings during January-March, 2020**

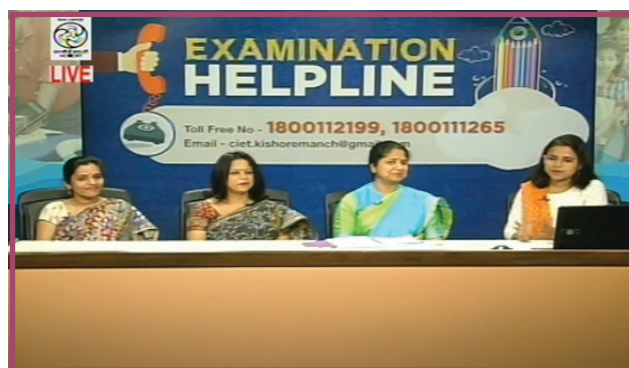
S. No.	Title of scripts	Subjects	Medium	Department	Media Type	Date of Meeting	Target Audience	Status
1	Revised scripts of Biology (24) Experiment no. 1, 2.1, 2.2, 2.3, 4, 6, 7, 8, 9, 12A, 12B, 15, 16, 19, 20, 22, 23, 24, 26, 27, 28, 29, 30, 34	Biology	English	DESM	Video	13.01.20	Secondary	Approved
2	Audio play- Socrate: who drank the poison for truth (1)	General	Hindi	Dr. Jitendra Singh	Audio	13.01.20	Secondary	Not accepted

3	Scripts of Biology (16) Experiment no. 2.4, 3, 3A, 3B, 5A, 5B, 5C, 10, 10A, 11, 17, 18, 21, 31, 32 & Human Skeleton	Biology	English	DESM	Video	13.01.20	Secondary	Approved - subject to incorporating the suggestions
4	Air pollution, Water pollution, Noise pollution (3)	General	Hindi	CIET	Audio	10.02.20	Upper Primary	Noise pollution-approved-subject to incorporating the suggestions
5	MOOCS (126) Maths-25 Class-XI; Maths-17 Class-XII; FNHL-8; Chemistry-23 Class-XI,XII; Chemistry-16 Class-XI; Psychology-15; Geography-14 Economics-08 (4 each for class XI,XII)	Maths, FNHL, Chemistry, Psychology, Geography, Economics	English	CIET	Video	10.02.20	Secondary & Sr. Secondary	Approved
6	Setu Ek Abh Mila Mujhe (1)	Teacher/general	Hindi	DEE	video	10.02.20	Teacher/general	Approved - subject to incorporating the suggestions
7	Handbook on understanding Science through activities(Pahal duj-Stappu) 01 script	Science	Hindi	DESM	Video	03.03.20	Upper Primary	Approved - subject to incorporating the suggestions
8	Celebration of Deepawali without pollution (1)	General	English	CIET	Video	03.03.20	General	Not accepted
9	Setu Ek Abh Mila Mujhe (1)	Teacher/General	Hindi	DEE	Video	3.03.20	Teacher/General	Approved
10	Value Education in Schools (MOOCs) (9)	General	English	DEP&FE	Video	13.03.20	General	Approved
11	MOOCs Urdu (11)	Urdu (language)	Urdu	DEL	Video	13.03.20	Secondary	Approved
12	Handbook on understanding Science through activities (Pahal duj-Stappu) (1)	Science	Hindi	DESM	Video	13.03.20	Upper Primary	Approved
13	Handbook on understanding Science through activities (Dande Se Gulli Par Kare War-Batore Santulit Aahar) (1)	Science	Hindi	DESM	Video	13.03.20	Upper Primary	Approved
14	Air pollution, Water pollution, Noise pollution (3)	General	Hindi	CIET	Audio	13.03.20	General	Approved



15	Flipped classrooms a pedagogical strategy in teaching of Maths at upper-primary stage (6):- Fractions-2, Exterior angle property of a triangle, Angle sum property of a triangle, Polygons, Quadrilateral	Maths	English	DEE	Video	20.03.20	Upper Primary	Approved
16	Story board for the QR Code content (34)- Raindrops- Book 1: Chapter-1, 2, 5, 6, 7, 8, 9, 11, 13, 14, 16; Raindrops-Book-2:Chapter-2, 3, 4, 7, 9, 10, 11, 13, 14; Marigold-1,Unit-7; Marigold-2, Unit-Wind & Environment, Unit-6, 9; Marigold-3,Unit-3; Marigold-4,Unit-5; Marigold-4, Chapter-7; Marigold-4, Pinocchio; Marigold-5, Chapter-1, 4 & 6	English language	English	DEE	Video (H5P)	20.03.20	Primary	Approved
17	Celebration of Deepawali without pollution (1)	General	English	CIET	Video	20.03.20	General	Not accepted
18	English language kit for primary classes (3)	English language	English	DEE	Video	20.03.20	Primary	Approved
Total scripts received = 259, Total no. of scripts discussed = 237, no. of audio scripts = 04 & no. of video scripts = 233								

### Glimpses of Live Telecast



**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 was 596.

**Table - Audio programmes produced (recorded) during January - March, 2020**

S. No.	Audio Book/ Programs	Programs	Duration	Subject	Target Group	Name of the producer
1	Raindrops 1	19 Chapters		English	Primary	Sh. Ajit Horo
2	Raindrops 2	15 Chapters		English	Primary	-do-
3	Vistas	8 Chapters		English	Sr. Secondary	-do-
4	H5P Interactive content of EVS	7 Modules		EVS	Primary	-do-
5	Petrol pump	1 Program		Science	General	-do-
6	Sign Language	5 Stories, 4 Poems		Hindi	Primary	-do-
7	Audio content of Augmented Reality	4 Modules		Science	Secondary	-do-
8	Preview Programs	3 Stories		English	Primary	-do-
9	Audio stories from NCERT textbooks	7 Stories		English	Primary, Upper Primary, Secondary (Classes 3 <sup>rd</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> )	-do-
10	Constitution Quiz	174 Questions		English	General	-do-
11	Constitution Quiz	174 Questions		Hindi	General	-do-
<b>Total</b>			<b>421</b>			
12	Samajh ka Bodh	5 Chapters		Sociology	Sr. Secondary	Smt. Vimlesh Chaudhary
13	Preview Programs	3 Programs		Hindi	Secondary, Sr. Secondary	-do-
<b>Total</b>			<b>08</b>			
14	Akshar Ki Kahani अक्षर की कहानी	A se Arjun AA se Aasha	13:23	Hindi	Primary	Smt. Vandana Arimardan
15	Akshar Ki Kahani अक्षर की कहानी	Imran Ki Eid	11:46	Hindi	Primary	-do-
16	Akshar Ki Kahani अक्षर की कहानी	'Oo' se Oont Ka Upchar	13:10	Hindi	Primary	-do-
17	Akshar Ki Kahani अक्षर की कहानी	Ekta Aur Aishwarya	11:30	Hindi	Primary	-do-
18	Akshar Ki Kahani अक्षर की कहानी	Ole bole Ke Auzar	15:51	Hindi	Primary	-do-
19	Akshar Ki Kahani अक्षर की कहानी	Angeethi Ka Angara	16:23	Hindi	Primary	-do-
20	Urdu Afsana	Akalmand Kisan	9:30	Urdu	Upper Primary	-do-
21	Urdu Afsana	Hawi Qile	10:48	Urdu	Upper Primary	-do-
22	Urdu Afsana	Asmani Dost	19:16	Urdu	Upper Primary	-do-

23	Urdu Afsana	Yadein Bapu Gandhi Ki	14.:52	Urdu	Upper Primary	-do-
24	Urdu Afsana	घोड़े और हिरण की कहानी	8:02	Urdu	Upper Primary	-do-
25	Urdu Afsana	Asmani Dost	19:16	Urdu	Upper Primary	-do-
26	गुनचा – ए – शायरी	मीर तकी मीर	8:32	Urdu	उच्च प्राथमिक	-do-
27	गुनचा – ए – शायरी	खलीलउल रहमान आज़मी	8:06	Urdu	उच्च प्राथमिक	-do-
28	गुनचा – ए – शायरी	मुईन अहसन जज़्बी	5:40	Urdu	उच्च प्राथमिक	-do-
29	गुनचा – ए – शायरी	परवीन शाकिर	6:38	Urdu	उच्च प्राथमिक	-do-
30	गुनचा – ए – शायरी	मजरूह सुल्तानपुरी	8:51	Urdu	उच्च प्राथमिक	-do-
31	भारत की महान विभूतियाँ	प्रोफेसर वेंकटरमण रामाकृष्णन – एक असाधारण वैज्ञानिक	23:07	Hindi	सेकेंडरी	-do-
32	भारत की महान विभूतियाँ	प्रोफेसर वेंकटरमण रामकृष्णन – छात्रों के साथ	13:24	Hindi	सेकेंडरी	-do-
33	Audio Book Apni zaban Class 6	20 Chapters	15 min each	Urdu	Class 6	-do-
34	Audio Book Apni zaban Class 7	21 Chapters	15 min each	Urdu	Class 7	-do-
35	Audio Book Apni zaban Class 8	22 Chapters	20 min each	Urdu	Class 8	-do-
<b>Total</b>			<b>92</b>			

Total audio programmes produced = 521

Table - Video programmes produced (recorded) during January - March 2020

S. No.	Title of the Programs	Programs	Duration	Subject	Target Group	Name of the producer
1	Physics Activity (MOOC's Lecture) - Kinetic Theory Of Gases & Question on Thermodynamics	2	25-30 min.	Physics Total audio programmes produced=521	Sr. Secondary	Sh. Mansukh Rathod
2	Chemistry (MOOC's Lecture) d&f Block elements Part-1-4; P Block elements Part-1&2; Some Basic Concepts Part-3&4	8	30-32 min	Chemistry	-do-	-do-
3	Poems	4		Corrections of Sign Language	-do-	-do-



4	Stories	5		Corrections of Sign Language	-do-	-do-
5	Economics (MOOC's) Forms of Market	1	0:30:00	Economics	-do-	-do-
6	Economics (MOOC's) Short Run of Equilibrium Under perfect Competitions	1	0:28:00	Economics	-do-	-do-
7	Geography (MOOC's) A Transport Pipe Line & Communication	1	0:32:00	Geography	-do-	-do-
8	National Role Play & Folk Dance Competition	55		National Role Play & Folk Dance Competition	General	-do-
9	Bade Bhai Sahib	1		Role Play	General	-do-
Total						88
10	Sawarmati Ashram (Ahmedabad)	1	0:18:30	Social Science	Secondary	Sh. Buddhi Prakash Kukreti
11	Sidhee Bashir Masjid (Jhulti Meenar) (Ahmedabad)	1		Social Science	Secondary	-do-
12	46th Jawahar Lal Nehru National Science, Mathematics and Environment Exhibition for Children – 2019, Raipur, Chhattisgarh	1	0:23:30	Science	Secondary and Sr. Secondary	-do-
13	Kaanch Ke Prism se Gujrane Wali Prakash Kiran ka Path Anurekhit Karna tatha Vichlan Kon Maapna Physics Experiment – 42	1	0:20:15	Science: Physics	Secondary	-do-
14	Ohm's Law: Kisee Pratirodhk ke Siron ke Beech Vibhavantar ke Maan ka Usme Pravahit hone wali Vidhyut Dhara ke Maan par Nirbharta ka Adhyayan Karna aur dono Bhotik Rashiyan ke sambandh ko Gyant Karna Physics Experiment – 48	1	0:30:08	Science: Physics	Secondary	-do-
15	Police Thane main FIR Darj Karwana, Eve Teasing & Green Corridor (BPR & D Trg. Prog.)	3	05-12 min	Social Science	General	-do-
16	Kishoravastha Ki Ore Combined one Programme of Pt. - 1,2,3 With English Subtitle	1	0:29:30	Science	Upper Primary	-do-
17	Kala Utsav – Video Promo (Jingle)	1	0:01:00	Art Education	Sr. Secondary	-do-
18	ICT Awardees Videos – 43 ICT Awardees Teachers Not for Telecast ICT video full Programme on ICT Awards for Teachers	1 1	0:43:00 0:04:3	ICT Education ICT Education	Teachers Teachers	-do-

19	Maths Laboratory Kit – 1-3	3		Mathematics	Secondary	-do-
20	Research Methodology: Part - 1 An Introduction # General Definition of Research #Characteristics of a Research	1	0:29:40	Education	Teachers	-do-
21	ICT Award Function for ICT Awardees Not for Telecast	1		ICT Education	Teachers	-do-
22	Development of Oil Absorbing Bio-Filters for Efficient Removal of Oil Spills – Science Model	1	0:02:24	Science	Sec. and Sr. Secondary	-do-
23	Smart Home Science – Model	1	0:03:06	Science	Sec. and Sr. Secondary	-do-
24	Elitram Science - Model	1	0:02:53	Science	Sec. and Sr. Secondary	-do-
25	Quiz Competition: 46th Jawahar Lal Nehru National Science, Mathematics and Environment Exhibition for Children – 2019, Raipur, Chhattisgarh Not for Telecast	1	0:23:30	Science	Secondary and Sr. Secondary	-do-
26	Research Methodology: Various topics	31	12-18 min each	Education	Teachers	-do-
27	Chemistry – MOOCs Lectures; Chemistry Class – XI Classification of Elements and Periodicity in Properties; Chapter – 3 Episode – 1&2	3	0:29:00 min each	Chemistry	Class – XI Sr. Secondary	-do-
28	Glimpses of Activities of CIET – NCERT, Video Programmes Produced During the Year: 2019-2020	1	0:05:45	Education	General	-do-
29	National Level Inter School Band Competition (MHRD): Documentary on National Inter School Band Competition + for different states teams	1+17	00:26:00+ others 7 minutes each	Art and Culture	Secondary and Sr. Secondary	-do-
30	Kala Utsav 2019 Inaugural Programme: General	1	0:11:00	Art and Culture	General	-do-
31	Kala Utsav 2019 Valedictory Programme & Different states	221	0:12:00 & 0:05:00 each	Art and Culture	Secondary and Sr. Secondary	-do-

32	Kala Utsav – 2019 Painting Competition: Boys and Girls Combined all	1	0:15:25	Art and Culture	Secondary and Sr. Secondary	-do-
33	Role Play – RIE Bhopal On 150th Birth Anniversary of Mahatma Gandhi Swachhata Abhiyan: Ek Bharat Shreshth Bharat	6	03-12 min each	Art and Culture	Secondary and Sr. Secondary	-do-
34	Biomolecules – MOOCs Lecture Module Kebo 10901 Part – 1&2	2	0:25:25 each	Biology - XI	Sr. Secondary	-do-
35	Chemistry : Mocs Solid State Chapter – 1 Module Lech 10101, Part – I &II	2	0:23:30 each	Chemistry - XI	Sr. Secondary	-do-
<b>Total</b>						<b>306</b>
36	Cartoonist : Sudhir Tailang	1	0:16:51		General	Sh. Buddhi Prakash Kukreti and Ms. Shilpa Sharma
37	Promotional Video for Examination Helpline	1	45 Seconds		Students	Ms. Shilpa Sharma
38	Montage for Examination Helpline	1	10 Seconds		Students	-do-
39	COVID-19: Prevention and Treatment	1	0:11:08		Students	Smt. Anita Malhotra and Ms. Shilpa Sharma
<b>Total</b>						<b>04</b>
40	Kya kya khate hum	1		EVS e-content		Smt. Sujata Lochab
41	Swad swad mein	1		EVS e-content		-do-
42	Geography MOOCs - Population Composition, Secondary Activities, Oceanic Water & Hydrological Cycle, Water transport, Landforms Part- 1&2, Urban settlement, Glacial Landforms, River Landforms, Tertiary Activities	10		Geography	Sr. Secondary	-do-
43	ITPD	8				-do-
44	Chemistry MOOCs Lectures, P block elements, Classification of periodical table Part- 1	14	Approx. 30 min each	Chemistry	-do-	-do-
45	Directors message on Corona Virus epidemic	1		General	General	-do-
<b>Total</b>						<b>35</b>
46	Lecture: Polynomial (4), Factor & Remainder Theorem	6	11-25 min each	Mathematics	Class IX	Ms. Ritu Bora



47	Petrol pump- How it works?	1	0:13:23	Science	Secondary & Higher Secondary	-do-
Total						07

Total video programs produced = 440

### 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. The list of previews done during January-March, 2020 has been given below:

**Table – List of programmes previewed during January - March, 2020**

S. No.	Title of Programs	Type of programme	Subject	Target Group	Duration	Name of the producer
1	चूहों! म्याऊँ सो रही है (रिमझिम-1)	Audio	fgUnh	कक्षा-1	06:00 "	श्रीमति वंदना अरिमर्दन
2	Questions on thermodynamic	Video	Physics (MOOC's Lecture) Coordinator Anuradha Mathur	Class -11	22:17 "	Sh. Mansukh Rathod
3	Sudha Chandran	Audio	Hindi	Upper Primary	13:00 "	Smt. Vimlesh Chaudhary
4	एक उत्तल लेंस द्वारा किसी जलती हुई मोमबत्ती की ज्वाला के प्रतिबिम्ब की रचना का अध्ययन करना	Video	भौतिकी प्रयोग कार्यक्रम समन्वयक प्रो. शशि प्रभा	माध्यमिक	25.21"	श्री बुद्धि प्रकाश कुक्रेती
5	Nina and the baby Sparrows	Audio	English	3rd (NCERT) book Marigold-3)	06:00 "	Sh. Ajit Horo
6	Cartoonist Sudhir Tailang	Video	Hindi	General	20.00"	Sh. Buddhi Prakash Kukreti & Ms. Shilpa Sharma
7	मानचित्र पढ़ना	Video-New Media	Hindi	Primary	02.00" (Extendable)	Sh. Akhilesh Verma
8	उर्दू अफसाना आसमानी दोस्त	Audio	कार्यक्रम समन्वयक डॉ. चमन आरा	उच्च प्राथमिक	19:00 "	श्रीमति वंदना अरिमर्दन
9	Kinetic theory of Gases	Video	English Physics (MOOC's lecture ) Coordinator Anuradha Mathur	11th Class	29.14"	Sh. Mansukh Rathod
10	आवेदन	Audio	कार्यक्रम समन्वयक प्रो. संध्या सिंह	उच्च माध्यमिक	08 :00 "	श्रीमति विमलेश चौधरी

11	घोड़े और हिरण की कहानी	Audio	उर्दू कार्यक्रम समन्वयक डॉ. चमन आरा	उच्च प्राथमिक	08 :00 "	श्रीमति वंदना अरिमर्दन
12	Crop Production & management Part-1	Video	Science Academic Coordinator- Ranjana Arora	In series Teacher Professional Development Elementary Stage Science Teacher	11.32"	Smt. Sujata Lochab
13	Little fish story	Audio	English (Marigold Class-3)	Class-3	04 :25"	Sh. Ajit Horo
14	Polynomials introduction	Video	Mathematics Academic Coordinator Ms. Himanshi Bhatia	Class-9	11.00"	Sh. Sudhir Saxena Ms. Ritu Bora
15	Research Methodology: Introduction	Video	Research: Education Prof. Rajendra Pal	Research Students/ Teacher Educators	28:30"	Sh. Buddhi Prakash Kukreti
16	Parveen Shakir	Audio	Urdu	Class- 9	06:47"	Smt. Vandana Arimardan
17	Crop production and Management Part-2	Video	Science Academic coordinator- Prof. Ranjana Arora	In-service teachers	22:32"	Ms. Sujata Lochab
18	केशव षंकर पिल्लै	Audio	Hindi	Class- 8	15:00"	Smt. Vimlesh Chaudhary
19	Patron ki Yatra	Video	EVS	Class-3	04:46"	Sh. Akhilesh Verma
20	अक्लमंद इंसान	Audio	Urdu	Upper Primary	09:31"	Smt. Vandana Arimardan
21	Petrol Pump	Video	Academic Coordinator- Ms. Anuradha Mathur	General	15:00"	Sh. Sudhir Saxena Ms. Ritu Bora
22	Wonderful Waste	Audio	English	Upper Primary	05:00"	Sh. Ajit Horo
23	Kya Kya Khat Hum H5P	Video	Academic coordinator Prof. Kavita Sharma	Primary	02:00"	Ms. Sujata Lochab
24	Steps of Research (Part-1)	Video	Education Program coordinator Prof. Rajendra Pal	Research Students and Teacher Educators	17:08"	Sh. Buddhi Prakash Kukreti

## 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 17,667 including - 697 collection, 5,906 documents, 1,357 interactives, 1,664 audios, 2,586 images, 6,157

videos. The total no. of registered users till April 17, 2020 were 17,102. CIET-NCERT has conducted 19 capacity building programmes on NROER (covering 1096 MRPs/KRPs in 36 States/UTs) for teachers and teacher-educators and a core group in states and UTs have been created. State/ UTs are being motivated to contribute resources on NROER and create OERs for their own state/ UT. This year KRPs/ MRPs of Telangana and Karnataka state have been oriented separately to create OER platform, e-content development and creation of metadata. A 'Partner Page' on NROER showcases the instances of all those partner organizations, institutions and individuals who have contributed their e-resources on NROER. Many partners, such as, Vigyan Prasar, CCRT, Gandhi Smriti and Darshan Samiti, SCERTs, SIETs, AzimPremji University, IT for Change, Amaze Infotainment Pvt. Ltd., Directorate of Adult Education, Vidya Online, Eklavya, Arvind Gupta toys, DragonLearn.In, RFlashino, SARD, etc. The platform also enables partner institutions to 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 6,08,50,629 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 March, 2020, about 32,15,819 users downloaded the app from various play stores. Total views of ePathshala on YouTube have been amounted to 4,14,70,315. 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 41,274 downloads, PARAKH (Third Party Evaluation of ICT in States) had 3,112 users whereas, KISHORE MANCH had 5,954 users. ePathshala on UMANG had 35,96,322 hits. Twelve books of vocational education are available on ePathshala app. ePathshala Scanner app was downloaded by 85,820 people. ePathshala AR app which was launched in December, 2019 has a rating of 3.60 out of 5 on Google play store and in all 3,282 users downloaded the app.

Apart from this, support to SCERTs (digitization of its books & YouTube channel) in Chhattisgarh, Haryana, Manipur, Telangana & 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. Support to SCERT Tripura was given in the form of a webportal with 3,33,826 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.

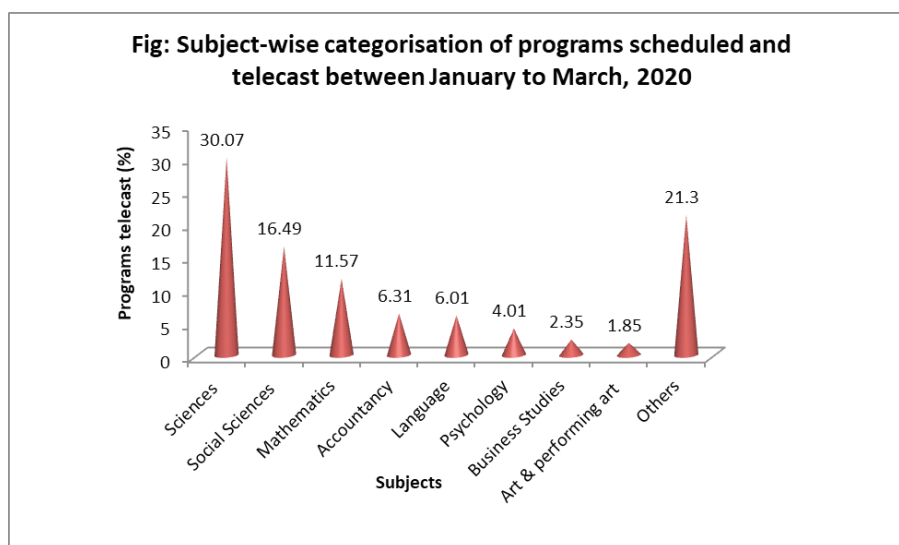
As pre-planning, weekly plan has been developed for preparation of the schedule to make the process more relevant and cover all the subjects such as arts, languages, science, commerce, social sciences and humanities. The programmes on performing arts, crafts, physical education, teacher education etc. 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 2064 programs have been telecast on the Kishore Manch channel as per schedule between January to March 2020. It is to be noted that the total number includes the repetitions also. Among these 2064 programs, 940 were the lecture series of different subjects of class XI (344) and XII (596). Apart from

lecture series, there were 784 programs covering the syllabus of secondary and senior secondary level. Similarly, teachers related 47 programs were also included in the schedule. One hundred and twenty general programs related to art, craft, culture, dance, music, physical education etc. have also been telecast on the channel between Jan to March 2020.

Besides the types of programs, the analysis of the schedule also reported the subject-wise categorization of programs (see figure) between January to March, 2020.



Total no. of programs = 1,995

There were 760 and 384 programs related to different disciplines of sciences and social sciences respectively. One hundred and sixty three programs included the Maths lecture series, maths activities and other related programs. Similarly, language-related programs (184) were mostly of Hindi language. The schedule covered 120 programs depicting Indian art and culture through different series of videos. Furthermore, Accountancy (103), Psychology (53) and Business Studies (44) subjects of senior secondary level were also placed in the schedule. Other programs (253) were related to physical education, Yoga, teachers, famous personalities, travelogues, environment, teachers' education and in generic in nature.

### 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 was invited to CRPF Public School, Rohini, New Delhi as a Chief Guest for the Prize Distribution cum Graduation Ceremony on 01 March, 2020.



## RETIREMENT



**Sh. Pramod Kumar**  
Graphic Assistant Gr. I  
*Retired from CIET on 31.01.2020*



**Sh. Chander Pal Singh**  
Floor Assistant  
*Retired from CIET on 31.01.2020*

**Sh. Amar Chand**  
Engineering Assistant  
*Retired from CIET on 31.01.2020*

## PROMOTION

Sr. No.	Name & Designation	Date	Remarks
1	Sh. Vinod Sahni, APC	Feb/March 2020	Promoted as under Secretary and posted in RIE Mysore
2	Ms. Pushplata Kumar	26.02.2020	Promoted as Superintending Engineer

## TRANSFER

Sr. No.	Name & Designation	Date	Remarks
1	Dr. Rejaul Karim Barbhuiya, Assistant Professor	17.02.2020	From DESM to CIET

## DEATH



**Sh. Shiv Kumar**  
MTS,  
*Posted in JD's office, CIET*  
04.01.2020



**Dr. Purushottam Kumar**  
Assistant Professor  
15.02.2020

## Other activities:

A 'Bilateral Workshop on Strengthening Areas of Collaboration in School and Teacher Education' was organized from 6-7 January, 2020 at Room No. 207, Central Institute of Educational Technology (CIET), National Council of Education Research and Training (NCERT). This workshop was an extension of the discussions held during an earlier visit by Indian delegation to Taiwan from 24-28 June, 2019. The broad areas identified for possible collaboration between the two countries were:

- 1) Development of e-content based on AR-VR
- 2) Interventions related to AI in assessment and evaluation
- 3) Training of teachers and teacher educators

**The 24th All India Children's Educational Audio Video Festival (AICEAVF) & 4th ICT Mela** was held from 22 to 24 February, 2020 at CUSAT, Cochin in collaboration with SIET Kerala.



AICEAVF is one of the major children's educational audio-video programme festivals in India, which is organised by the Central Institute of Educational Technology (CIET), NCERT, New Delhi every year. It is unique in several ways. It is perhaps the only festival which celebrates educational media of all kinds such as audio, video and new media. ICT Mela is held concurrently to showcase the innovations in use of ICT in education. For the festival, a total of 474 entries (Audio- 109, Video - 277, New Media/ICT - 88) were received under the categories of Pre-primary and Primary, Upper Primary, Secondary & Senior Secondary from Govt. organizations, individuals, teachers and children. These programmes were evaluated by special jury of

experts who not only selected the best programs under various categories but, also selected individuals for their excellence in making these programs. In total, 76 awards were given to the winners of the contest under various categories.

Over the 3 days, in 17 parallel sessions, playback and preview of some of these programs were held under the moderation of a chairperson and a convenor. After screening/ playback, a detailed discussion with the producers/directors was held. Students, teachers, teacher educators from local schools and teacher training colleges also visited during the festival. Besides, everyday in the afternoon a plenary session was organised. While on first 2 days, panel discussions on relevant topics were held; the third day, "An Interaction with Jury members" was held. Members of the jury interacted with the audience and provided the feedback. Topic of first day panel discussion was "Technology in Education- Reflections from Kerala". This session was chaired by Prof. Amarendra Prasad Behera while Sh. Jeevan Babu, Director, General Education, Govt. of Kerala, Dr. Biju K., Assistant Professor, Central University of Tamil Nadu & Dr. C. Ramakrishnan, Expert, Education Mission, Kerala were the main speakers. On the 2nd day, the topic of the discussion was "Digital well-being: Issues and challenges", which was chaired by Dr. Aburaj B., Director, SIET, Kerala. I.L. Narasimha Rao, Senior Project Manager, Cyber Peace Foundation, Delhi and Dr. Mini U., System Engineer, Cochin University were the panelists.



The ICT Mela consisted of 40 stalls that were put up to showcase the innovations and best practices related to the field of ET and ICT in education. The exhibitors were invited from various Government organisations, NGOs, Private organisations, National ICT Awardees and Individuals to showcase their initiatives. The themes that were covered in the Mela consisted of: e-Content, pedagogy integration of ET and ICT in education, Augmented Reality, Virtual Reality, Artificial Intelligence (AI), Robotics, Gaming, Satellite imagery & Weather forecasting, etc. Students, teachers, teacher educators from local schools and teacher training colleges were also invited to visit the festival and Mela and the footfall was around 2000 people.

### **National Initiative for School Heads' & Teachers' Holistic Advancement (NISHTHA)**

is a capacity building programme for "Improving Quality of School Education through Integrated Teacher Training". It aims to build competencies among all the teachers and school principals at the elementary stage. The functionaries (at the state, district, block, cluster level) shall be trained in an integrated manner on learning outcomes, school based assessment, learner – centered pedagogy, new initiatives in education, addressing diverse needs of children through multiple pedagogies, etc. This will be organized by constituting National Resource Groups (NRGs) and State Resource Groups (SRGs) at the National and the State level who will be training 42 lakhs teachers subsequently. A robust portal/ Management Information System (MIS) for delivery of the training, monitoring and support mechanism will also be infused with this capacity building initiative.

The main expected outcomes from NISHTHA are:

1. Improvement in learning outcomes of the students.
2. Creation of an enabling and enriching inclusive classroom environment



Participants during NISHTHA training session

3. Teachers become alert and responsive to the social, emotional and psychological needs of students as first level counselors.
4. Teachers are trained to use Art as pedagogy leading to increased creativity and innovation among students.
5. Teachers are trained to develop and strengthen personal-social qualities of students for their holistic development.
6. Creation of healthy and safe school environment.
7. Integration of ICT in teaching learning and assessment.
8. Developing stress free School Based Assessment focused on development of learning competencies.
9. Teachers adopt Activity Based Learning and move away from rote learning to competency based learning.
10. Teachers and School heads become aware of new initiatives in school education.
11. Transformation of the Heads of Schools



into providing academic and administrative leadership for the schools for fostering new initiatives.

A brief report on the coverage under NISHTHA programme in this quarter (till March, 2020) has been given in the following tables:

**Table - Details of NISHTHA Portal and Mobile App**

Categories	NISHTHA Portal	NISHTHA App	Analytics	Video views	Presentations view
Total Visitors	15678227	App downloads	578800	CLCPLO&IE – 57065 – Maximum Views	CLCPLO&IE – ~ 38228 – Maximum Views
Total Registered Users	1143035	APP ratings	3.91	RGDT&LP – 5266 – Minimum views	RGDT&LP – 4204 – Minimum views

RGDT&LP – Relevance of gender dimensions in teaching and learning process

CLCPLO&IE – Curricular, Learner centered pedagogy, learning outcomes and inclusive education

**Table - Details of Training of various groups**

Category	Target	Achieved
SRPL	5,490	4008
KRP	27,452	19381
School Head/ HMs	3,54,377	155961
Teachers	36,62,919	1399990

**Table - Details of Training in states**

Categories	KRPS/SRPLs Training	Heads/Teachers training	
States in Progress	5	States in Progress	18
States not initiated	3	States not initiated	10
States completed	28	States completed	8





# Glimpses of Other Activities



Students getting a hands-on about learning the use of puppet as a teaching tool

## किताबें बनेंगी वीडियो गेम, खेलेंगे नहीं पढ़ेंगे बच्चे

सुशील राघव  
नई दिल्ली।

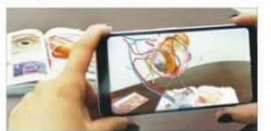
राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद (एनसीईआरटी) अपनी किताबों को मजेदार और जीवंत बना रहा है। इसके लिए परिषद ने वीडियो गेम की तरज पर ई-पाठशाला ऑगमेंटेड रियलिटी (एआर) मोबाइल ऐप विकसित किया है। इस ऐप के जरिए विद्यार्थी किताबों में मौजूद चित्रों, आरेखों (डायग्राम) और मानचित्रों को न सिर्फ त्रिआयामी में देखा सकेगा बल्कि इनमें से कुछ को संचालित होते हुए भी देखा जा सकेगा। इससे उन्हें पाठ को बेहतर तरीके से समझने में आसानी होगी। फिलहाल कक्षा 9 और 10 की किताबों के चित्रों को जीवंत बनाने का कार्य किया जा रहा है।

केन्द्रीय शैक्षिक प्रौद्योगिकी संस्थान (सीआईआईटी) के संयुक्त निदेशक डॉक्टर अमरेंद्र बेहरा के मुताबिक विद्यार्थियों को पाठ्यपुस्तकों और कक्षाओं की चार दीवार से आगे जानने में सक्षम बनाने के लिए, डिजिटल संसाधनों की महत्वपूर्ण भूमिका होती है। यह उन्हें अनुभव से सीखने और समस्या के समाधान खोजने के लिए प्रेरित करता है। किताबों में जो भी चित्र या आरेख होते हैं, वे सभी द्विआयामी होते हैं। बच्चों को इन्हें समझने में बहुत परेशानी होती है। शिक्षक भी इन चित्रों समझाने में नाकाम रहते हैं क्योंकि इन्हें बेहतर ढंग से समझने के लिए त्रिआयामी छवि की आवश्यकता होती है। इस समस्या से निजात पाने के लिए सीआईआईटी के एआर मोबाइल ऐप विकसित किया है। इस ऐप के माध्यम से किताबों में मौजूद चित्रों की त्रिआयामी छवि देख सकते हैं। इतना ही नहीं, विद्यार्थी इन्हें संचालित होते हुए भी देख

इंजीनियरिंग विद्यार्थी दे रहे मदद



डॉक्टर बेहरा ने बताया कि किताबों को जीवंत बनाने में इंजीनियरिंग विद्यार्थी हमारी सहायता कर रहे हैं। उन्होंने बताया कि बिट्स पिलानी और वंडींगट के एक इंजीनियरिंग कॉलेज के छात्रों ने दिल्ली एनसीईआरटी मुख्यालय आये और इस प्रोजेक्ट पर काम करेंगे। यह उनके लिए इंटरशिप की तरह होगा।



ऐसे करेंगे उपयोग

सबसे पहले गूगल प्ले स्टोर से ई-पाठशाला एआर ऐप डाउनलोड करना होगा। इसके बाद कक्षा, विषय और पाठ को चुनना होगा। मोबाइल कैमरा को किताब में मौजूद उस चित्र पर फोकस करना होगा जिसको जीवंत देखा है। इसके बाद मोबाइल पर किताब के चित्र की त्रिआयामी छवि उभर आएगी और संचालित भी होने लगेगी।

सिमलेशन का भी अनुभव मिलेगा। इससे शिक्षकों को



Field visit to Government high school, Beerihundi, Mysore Rural Block to understand the impact of ICT in Education Courses conducted by CIET in collaboration with DSERT, Karnataka

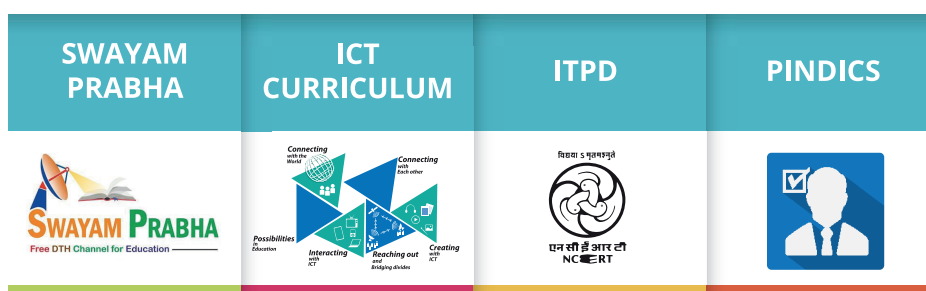
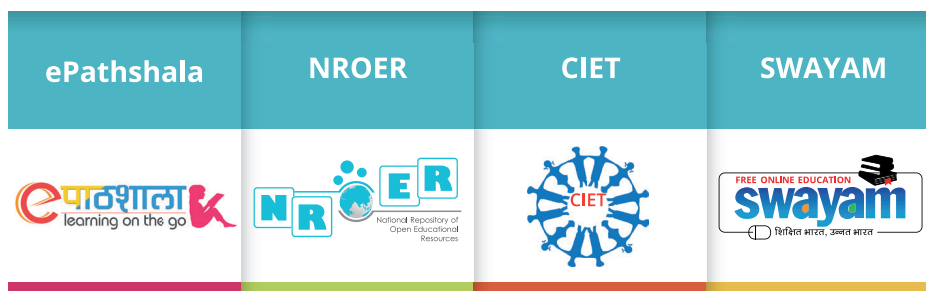


Students getting an idea of the process of video recording during exposure visit



Discussion meeting on Technology in School Education, 21 January, 2020





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