



CIET-NCERT

NEWSLETTER

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1 April - 30 June 2019



Group photograph during the planning meeting for the implementation of block level research study held on 26-27 April, 2019 at RIE Bhopal.

Launch of eRaksha Competition in collaboration with Cyber Peace Foundation, April 2019, New Delhi



Support provided to Guru Nanak Dev University, Amritsar, Punjab, April 2019



From the Joint Director's Desk

Amarendra P. Behera

Joint Director, CIET

It gives me pleasure to write the editorial for the April-June 2019 issue of CIET's Newsletter. During this period, apart from the regular activities under various programs, the institution also contributed in providing inputs for the draft National Education Policy (NEP), 2019 in the form of suggestions invited by the Government from its various stakeholders. Rigorous reviews and compilation was done by the faculty members of CIET so as to, provide necessary points of suggestion particularly, in the field of Technology in Education for making the NEP 2019 a robust document.

Given the importance of Educational Technology, the draft NEP 2019 has also focussed on Technology in Education as a separate focus area. India, with its abundant human resource and technological know-how has been able to put itself on the global platform of education and technology. But, at the same time, there are many regions of the country and many sections of the population that are still lagging behind the mainstream. In lieu with these expertise and challenges that the country has, the draft NEP 2019 has identified the use of technology in education as one of the major thrust areas. The four aspects of education where, technology has been mentioned to have lots of potential are in: training of teachers; classroom process especially teaching-learning and evaluation; improving access to disadvantaged groups and students living in remote areas and use of technology in planning, administration and management of education system. Various ways for use of technology have been suggested under the umbrella of these four aspects. The strategy of training local youth in technology and linking them to education through job opportunities shows the forward and backward linkages to education. It can be noted here, that such

policies in education are necessary for strategizing the current action in improving educational facilities and also to show the way forward.

Times have changed, aspirations have changed and the recent transformations have led India at the cusp of contributing significantly to the global arena. As, in today's world, education of the citizenary is the rudder that propels a country. In this context, the draft NEP 2019 holds immense significance.

For the solace of her sole and to remember her contributions to the children of India, the field of ET and CIET, the institution organised a condolence meet on the death of Prof. (Ms.) Vijaya Mulay. Prof. Mulay, known for her film 'Ek Anek Aur Ekta', left for her heavenly abode on Sunday i.e. 19 May, 2019. Keeping her exemplar works as standard, CIET aims at working in its various avenues.

CIET has been working in the past and will also plan its future activities as per the changing needs of the children of India. Various activities and related developments that happened in the quarter have been mentioned in the newsletter and I am happy to share these with our stakeholders and well-wishers. Your comments, suggestions will definitely guide us to meticulously plan and execute ICT interventions and bridge the digital divide.

RESEARCH



Planning meeting for the block-level research study at RIE Bhopal

For the block level research study, CIET has undertaken a study titled **Implementing ICT Interventions at School Stage: A Block Level Research Study** for which a strategy planning meeting was held on 26-27 April, 2019 at RIE Bhopal. Literature review and tool development for the same are in progress.

DEVELOPMENT

Development and Dissemination of Educational Media Programs had various audio, video and live programs produced during the quarter. Under Audio Production, 14 Audiobooks (Marigold, Rimjhim, Hornbill and Flamingo of 2000 pages approx.) were edited during this quarter. Two programs (डमरू & मत काटो पेड़) were produced in collaboration with SARD. Similarly, two programs on Yoga and eight programs during Children's Summer Camp on Digital Learning and Multimedia were produced. Under Video Production, a sum of 79 programs (32 programs – April, 22 programs- May & 25 programs- June) has been produced. Regarding Live discussion programs, 63 episodes (21 episodes-April, 23 episodes-May & 19 episodes-June) daily from 4 pm to 4:30 pm and 10 episodes (1 episode-April, 5 episodes-May & 4 episodes-June) from 4:45 pm to 5:15 pm, every Friday on Educational administration (30 min. each) were transmitted on SWAYAM PRABHA (Channel 31) DTH-TV Channel and YouTube channel of NCERT. Apart from this, 546 hours (180 hours-April, 186 hours-May & 180 hours-June) of content was telecast on SWAYAM Prabha Channel 31 'Kishore Manch' during this quarter.

Another program under development is the **Development and launch of Online Certificate Course on Research Methodology in Education**. Under this, all the 19 modules received are under review.

Development of e-resources for the School and Teacher Education is another program under development category. During April-June, 2019 two Hindi stories (स्वामी की दादी, Class 5 & पापा जब बच्चे थे, Class 4) and one Hindi story (रात भर चिड़िते रहे, Class 5) were prepared in Multimedia format, one exercise of 4th class Hindi textbook was developed. A two-week workshop on Augmented Reality (AR)-Virtual Reality (VR) from 17-21 & 24-28 June, 2019 was also held. As an outcome of it, 15 e-content for Science textbooks of Classes IX & X were developed.

Under the program, **Development and implementation of SAMADHAN (One Stop Technology solution to School)** review of related work done in the field of technology solutions for school systems has been done.

Development and rollout of ICT curricula for ICT in Education in States/UTs is another program under development. As a part of this program, workshop on 'Development of State Specific ICT in Education Curriculum for Teachers and Planning Implementation Strategies' was conducted from April 29-30, 2019 in which, representatives from 12 states participated. These were oriented on ICT in Education Curriculum for teachers and students and its implementation strategies. As a follow up of the workshop, a training-cum workshop was conducted on 'Designing ICT interventions for enhancing teaching, learning and assessment' from June 3 -7, 2019. 55 ICT awardees attended the training. Seven states have developed and sent the first draft of the curriculum till June end. As a follow up, participants have been given seven activities to complete till the month of August.

TRAINING

Report for the previous year online certificate course on Action Research in Education has been prepared and submitted under the program, **Organization of Online Certificate Course on Action Research in Education**. Certificates of the last year course have been designed, finalized and printed. This year's course has been announced and the registration is open. Till June end, 66 registrations were reported on ITPD portal and 1161 on SWAYAM.

Development of model for ICT integrated school system had Planning completed for the workshop to be conducted in all four DMSs. Training materials were also developed and uploaded on ictcurriculum.gov.in portal. Three training-cum workshops on 'Designing and finalising ICT interventions for enhancing teaching, learning and assessment' were conducted:

- (i) RIE, Bhubaneswar: June 10 - 14, 2019 (32 participants)
- (ii) RIE, Bhopal: June 17 - 21, 2019 (55 participants)
- (iii) RIE, Ajmer: June 24-28, 2019 (57 participants)

These were attended by 55 teachers including ICT awardees and state core team of Karnataka. As a follow up, participants have been given seven activities to complete till the month of August.



Participant during the workshop on Designing ICT intervention for teaching and learning, RIE Bhubaneswar, June 2019

EXTENSION

In Online Publication of Indian Journal of Educational Technology and Newsletter, CIET's Newsletter January-March 2019 issue was published on CIET's website (https://ciet.nic.in/Newsletter_Jan-Mar_2019/index.html#page=1). For CIET's journal, Indian Journal of Educational Technology, all the manuscripts received for the second issue i.e. July, 2019 issue for the Journal were analyzed at the editor's level as well as at the reviewer's level and were finalized for publication.

Under Resource-cum-Activity Centre in ET/ICT for School and Teacher Education, CIET organized a two-week summer camp for children on 'Digital Learning and Multimedia' from 3rd to 14th June, 2019. The focus was to introduce children to various ICT skills through fun-filled activities. The camp provided them the exposure towards the Audio, Video and Multimedia production activities and an ability to negotiate a range of devices, tools, mobile applications, software, information and resources. The camp was organized under varied themes like-Puppetry, Script writing & Storyboarding, Video/Audio Production, Digital Art/Photography/Augment Reality, Robotics, Fun with Science, Mathematics & Social Science, etc. A total of seventy seven students joined the camp. Resources persons from various departments of NCERT and CIET, National ICT Awardees, and other eminent institutes were invited to take the sessions.

Under the CIET library, four new books were purchased in this quarter. The details of which are the following:

1. Community Radio in India, Aakar Books, 2019 by R. Sreedher and Pooja O. Murada.
2. Inventing the Internet, MIT Press, 2000 by Janet Abbate.
3. Syntony and Spark: the origins of Radio, Princeton Legacy Library, 1985 by Hugh G.J. Aitken.
4. Innovation: a very short introduction, Oxford, 2018 by Mark Dodgson and David Gann.

Apart from books covering different subjects, the library has the subscription of six English newspapers and six Hindi newspapers. It has twenty six subscribed magazines and periodicals along with eight publications of NCERT.

Other Programmes

Development of Resources and Support for Web and Online Activities

Development of new web-portal for NROER ncert.org.in/nroer and new web-portal of e-Pathshala was done during this quarter. Alongwith this, maintenance of the following web-portals was also done:

<http://www.ncert.nic.in/>, <https://ciet.nic.in/>, <https://itpd.ncert.gov.in/>, <http://epathshala.nic.in/>, <https://nroer.gov.in/welcome>, <https://ssp.moemu.org/>, <https://scertonline.tripura.gov.in/index.jsp>

10 ERIC reports collected were and analyzed for the online survey of research in education (<http://osre.ncert.gov.in/>)

Development of course materials for MOOCs on SWAYAM (School MOOCs for Classes 9th – 12th and MOOCs for Teacher Education) had three Course materials enrichment workshops conducted on 15-16 April, 2019, 8-10 May, 2019 and 27-31 May, 2019. As an Outcome of these workshops: 80 Modules of Physics courses have been updated and additional resources for Physics MOOCs were developed. Assessment items/question papers were developed for 11 courses. Overall, twenty (20) courses for Class XI and XII, one course for M.Ed./M.A. (Education) were running on SWAYAM that had 7094 (total) learners enrolled.

Under **Development and Maintenance of Mobile Apps and Digital Platforms (e-Pathshala and NROER) for e-Pathshala**, QR codes for 113 textbooks were mapped with e-resources in this quarter. The number of textbooks for which QR codes were created were 38 while, the number of textbooks for which QR codes pasting was verified for were 66. The work done for QR codes (uploading) includes: watermarked pdf uploaded: 255, flipbook uploaded: 306, ePub uploaded: 192. Within NROER the total number of developed resources was 78 (Hindi, Primary – 12; History, Upper Primary – 4; Mathematics in Urdu, Primary – 42; EVS-16; and History, Upper Primary – 04). The total number of resources uploaded were 321 which were of, Mathematics (Secondary) – 50, Mathematics (Secondary and Senior Secondary) – 51, Economics – 145, Accountancy – 07, Mathematics (Upper Primary) -10, History (Upper Primary) 37, History (Higher Secondary) – 13 and History (Secondary) - 08

CIET organized a one-day review meeting regarding All India Children's Educational Audio Video Festival (AICEAVF) under the **Organization of Festival, ICT Mela, contests of digital contents and coordination with States/ UTs**, on 22nd May, 2019 at CIET, NCERT, New Delhi. The meeting was organized to review the processes of organization of festival starting from the advertisement, rules and regulations, criteria, pre-nomination etc. Jury of the festival alongwith other experts were invited for the review meeting.

LIVE DISCUSSION ON SWAYAM PRABHA CHANNEL # 31

CIET-NCERT has a daily schedule of going live on SWAYAM PRABHA channel where, educational discussions on various topics of different subjects are done. The schedule for April-June, 2019 has been given below:

MONDAY (DESS)	TUESDAY (DEGSN, DEAA, DEPFE, DGS, DCS, CIET)	WEDNESDAY (DEL)	THURSDAY (DTE, DEE, YOGA / PHY. EDU. PMD, IRD, RMSA, ESD, LDD, PD)	FRIDAY (DESM, ICT, SCIENCE WORKSHOP / KIT)
1 April	2 April	3 April	4 April	5 April
Dept: DESS Subject: Social Science Topic: The making of Social Science Teacher Expert: Prof. Gouri Srivastava	Dept: DEGSN Subject: Inclusive Education Topic: Inclusive Schools Expert: Dr. Bharti	Dept: DEL Subject: Sanskrit Topic: संस्कृत पाठ्यपुस्तक शेषुषी भाग – 2 Expert: Prof. K.C. Tripathi	Dept: DTE Subject: Teacher Education Topic: Planning & Implementation of Students' Internship Expert: Dr. Vijayan K.	Dept: DESM Subject: Physics Topic: Work and Energy & Sound - Part 2 Expert: Dr. Gagan Gupta & Dr. Ashish Kumar Srivastava
8 April	9 April	10 April	11 April	12 April
Dept: DESS Subject: Economics Topic: Learning Economics through Building as Learning Aid (BaLA) Expert: Dr. M.V. Srinivasan & Sonia Kumar (JNV, Kaithal, Haryana)	Dept: CIET Subject: ICT in Education Topic: Integration of e-Resources with Textbooks Expert: Dr. Indu Kumar & Dr. Mohd. Mamur Ali	Dept: DEL Subject: English Topic: The Core of the Poem : Ted Hughes' "Laburnum Top" Expert: Dr. Meenakshi Khar	Dept: DEE Subject: Topic: Reading Comprehension in English at Primary Stage Expert: Dr. Varada M. Nikalje	Dept: DESM Subject: Chemistry Topic: Solutions - 3 Expert: Prof. R.K. Parashar
15 April	16 April	17 April	18 April	19 April
Dept: DESS Subject: Economics Topic: Effective Pedagogy for Teaching Learning of Economics Expert: Dr. Jaya Singh & Debyani Mukherjee Rawal (Step by Step School, Noida)	Dept: DEAA Subject: Arts Education Topic: Need for Intervention of Theatre in School Education Expert: Dr. Sharbari Banerjee & Dr. Ashish Ghosh (Theatre Artist)	Holiday	Dept: ESD Subject: Research Topic: Use of data by School Expert: Dr. Satya Bhushan	Holiday
22 April	23 April	24 April	25 April	26 April
Dept: DESS Subject: Economics Topic: Financial Accounting Expert: Dr. Shipra Vaidya and Dr. G.S Grewal (Chartered Accountant, New Delhi)	Dept: DGS Subject: Gender Studies Topic: "शिक्षकों का माषिक व्यन्हार एवं जेंडर स्टीरियोटाइप छवियां" Expert: Prof. Mona Yadav and Dr. Sharda Kumari (District Institute of Education and Training, New Delhi)	Dept: DEL Subject: Hindi Topic: पतंग (कवि – आलोक धन्वा) Expert: Prof. Sandhya Singh	Dept: RMSA Cell Subject: Education Topic: Samagra Shiksha Expert: Prof. Sharad Sinha	Dept: DESM Subject: Chemistry Topic: Solution-4 Expert: Prof. R.K. Parashar

MONDAY (DESS)	TUESDAY (DEGSN, DEAA, DEPFE, DGS, DCS, CIET)	WEDNESDAY (DEL, DCS, DEE)	THURSDAY (DTE, DEE, YOGA / PHY. EDU. PMD, IRD, RMSA, ESD, LDD, PD)	FRIDAY (DESM, ICT, SCIENCE WORKSHOP / KIT)
29 April	30 April	1 May	2 May	3 May
Dept: DESS Subject: Social Science Topic: North East of India - People and Culture Expert: Prof. Neerja Rashmi	Dept: DEPFE Subject: Psychology Topic: Understanding Emotions Expert: Ms. Deepmala	Dept: DEL Subject: Urdu Topic: Using Urdu Correctly (Pronunciation, Grammar & Meaning) Expert: Prof. Mohd. Moazzamudin	Dept: PD Subject: Publication Topic: The Wonderful world of Textbooks - 3 (Design a Book) Expert: Amit Kumar Srivastava and S. Perwaiz Ahmad	Dept: DESM Subject: Maths Topic: Relations and Functions Expert: Prof. A. K Wazalwar and Dr. T. P Sharma
6 May	7 May	8 May	9 May	10 May
Dept: DESS Subject: Pol. Science Topic: भारत में चुनाव सुधार की समस्याएं Expert: Prof. Shankar Sharan	Dept: CIET Subject: Art Education Topic: खेल खेल में सीखना (Reuse Waste) Expert: Pramod Kumar Sharma	Dept: DEL Subject: Sanskrit Topic: माध्यमिक स्तर पर संस्कृत अध्ययन Expert: Prof. K.C. Tripathi	Dept: DTE Subject: Teacher Education Topic: Effective Communication Skills for Teachers Expert: Prof. Madhulika S. Patel	Dept: DESM Subject: Physics Topic: Electromagnetic Induction Expert: Prof. Shashi Prabha
13 May	14 May	15 May	16 May	17 May
Dept: DESS Subject: Social Science Topic: उत्तर पूर्वी भारत : निवासी और संस्कृति Expert: Prof. Neeraja Rashmi	Dept: DEAA Subject: Education Topic: शिक्षा और संस्कृति में : शिक्षकों की भूमिका Expert: Prof. Jyotsna Tiwari	Dept: DEL Subject: English Topic: Storytelling to Young Children Expert: Prof. Sandhya Sahoo	Dept: DEE Subject: Education Topic: पूर्व प्राथमिक शिक्षा में गुणवत्ता Expert: Prof. Padma Yadav	Dept: DESM Subject: Chemistry Topic: Acid Base - 3 (Reaction of Metal With Acids and bases) Expert: Dr. Ruchi Verma
20 May	21 May	22 May	23 May	24 May
Dept: DESS Subject: History Topic: इतिहास के साक्ष्य के रूप में सिक्के Expert: Dr. Seema s. Ojha	Dept: LDD Subject: Library Science Topic: Open Access Resources in School Education Expert: Pooja Jain	Dept: DEL Subject: Hindi Topic: कविता शिक्षण : समसामयिक संदर्भ Expert: Dr. Neelkanth Kumar	Dept: IRD Subject: History Topic: Teaching Partition Expert: Prof. Pratyusa Kumar Mandal	Dept: DESM Subject: Biology Topic: Linkage Recombination and Sex Linked inheritance Expert: Prof. Dinesh Kumar
27 May	28 May	29 May	30 May	31 May
Dept: DESS Subject: Environmental Science Topic: Sustainable development Expert: Dr. Jaya Singh and Shri R. R. Rashmi (Distinguished Fellow, TERI, New Delhi)	Dept: CIET Subject: Art Education Topic: Khel-Khel mei Seekhna -II (Reuse Waste) Expert: Mr. Pramod Kumar Sharma and Dr. Alka Singh	Dept: DEL Subject: Urdu Topic: Urdu Drama Expert: Prof. Mohd. Faruq Ansari	Dept: CIET Subject: Art Education Topic: Khel-Khel mei Seekhna - III Expert: Shri Pramod Kumar Sharma	Dept: DESM Subject: Chemistry Topic: Separation of Substance Expert: Dr. Pramila Tanwar

MONDAY (DESS)	TUESDAY (DEGSN, DEAA, DEPFE, DGS, DCS, CIET)	WEDNESDAY (DEL, DCS, DEE)	THURSDAY (DTE, DEE, YOGA / PHY. EDU. PMD, IRD, RMSA, ESD, LDD, PD)	FRIDAY (DESM, ICT, SCIENCE WORKSHOP / KIT)
3 June	4 June	5 June	6 June	7 June
Dept: DESS Subject: History Topic: Indian Freedom Struggle : Symbols & Creative Expressions Expert: Prof. Gouri Srivastava	Dept: DCS Subject: Science & Mathematics Topic: Educational Kits of NCERT Expert: Prof. A.K. Wazalwar & Dr. Varada M. Nikalje	Holiday	Dept: CIET Subject: Environment Science Topic: World Environment Day: Air Pollution Expert: Dr. Abhay Kumar	Dept: DEK Subject: Education Topic: Pedagogical Content Knowledge Expert: Dr. K.V. Sridevi
10 June	11 June	12 June	13 June	14 June
Dept: DESS Subject: History Topic: Media and the Freedom Struggle Expert: Prof. Gouri Srivastava	Dept: DEGSN Subject: Special Education Topic: समावेशी कक्षा में दिव्यांग बच्चों के लिए सहायक उपकरण Expert: Dr. Vinay Kumar Singh	Dept: DEL Subject: Hindi Topic: कविता शिक्षण— बनारस कविता के सन्दर्भ में Expert: Prof. Lal Chand Ram	Dept: IRD Subject: International Relations Topic: Integration of Princely States Expert: Prof. Pratyusa Kumar Mandal	Dept: DESM Subject: Biology Topic: Linkage, Recombination and Sex Linked Inheritance Expert: Prof. Dinesh Kumar
17 June	18 June	19 June	20 June	21 June
Dept: DESS Subject: Business Studies Topic: Motivation in business Expert: Prof. Shipra Vaidya	International Yoga Day Special			Subject: Yoga Topic: योग की सही समझ Expert: Hari Prasad (Yoga Coordinator, Distt. South-West A, Directorate of Education, Delhi) & Sudha Gupta (Senior Yoga Expert, Chhatrasal Stadium, Delhi)
24 June	25 June	26 June	27 June	28 June
Dept: DESS Subject: Geography Topic: Landforms developed by running water Expert: Prof. Aparna Pandey and Dr. Prabuddh Kumar Mishra (Shivaji College, University of Delhi)	Dept: DEPFE Subject: Psychology Topic: Self : The treasure within Expert: Dr. Ruchi Shukla	Dept: DEL Subject: English Topic: Can you punctuate well? Expert: Prof. R. Meganathan	Subject: ICT in Education Topic: Augmented Reality in Education Expert: Ahmad Faraaz & Sashakt Tripathi	Dept: DESM Subject: Biology Topic: Why do we fall ill? Expert: Dr. Pushplata Verma

Audio-Video & Multimedia Production

SCRIPTING

Script writing is a step which needs to be followed before an audio or video programme. It is a written proforma of idea behind any programme. 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 programme 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 April-June, 2019.

List of scripts put up in the Script Committee Meeting during April-June, 2019

S. No.	Title of the Script	Subject	Medium	Department	Media Type	Date of Meeting	Target Audience	Status
1	H1N1 ki Maar, Lae Swine Flu ka Bukhar	Science	Hindi	DESM-NCERT	Video-Puppet Based Drama	05/04/2019	Class VIII	Accepted
2	Prithvi Ki kahani Mini Ki zubani	Geography	Hindi	CIET-NCERT	Video-Puppet Based Drama	05/04/2019	Upper Primary	Sent for Modification
3	Script of Science 'ध्वनि' (dhvani)	Chemistry	Hindi	DESM	Video-Puppet Based Drama	16/04/2019	Upper Primary	Accepted and sent for production
4	Script of Science 'सुनो तो सुनो कैसे'	Chemistry	Hindi	DESM	Video-Puppet Based Drama	16/04/2019	Upper Primary	Accepted and sent for production
5	हाथी मेरा साथी	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Sent for Modification
6	पेड़ हमारे दोस्त	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Accepted and sent for production
7	नट खट डमरू	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Accepted and sent for production
8	लाडू की चुनिया	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Sent for Modification
9	डॉक्टर की सुई	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Rejected
10	चमकी और टफी	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Rejected
11	जीमू छुटकी और काला बादल	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Rejected
12	राजू	Story	Hindi	SAARD	Audio	02/05/2019	Pre-primary	Rejected
13	मलेरिया और डेंगू	Chemistry	Hindi	DESM	Video-Puppet Based Drama	09/05/2019	Upper Primary	Accepted and sent for production
14	Food Poisoning and its treatment	Chemistry	Hindi	DESM	Video-Puppet Based Drama	09/05/2019	Upper Primary	Accepted and sent for production
15	धातुओं से पहचान	Chemistry	Hindi	DESM	Video-Puppet Based Drama	09/05/2019	Upper Primary	Sent for Modification

16	Nationalised Banks: Banks in India	Economics	English	DESS	Audio	16/05/2019	Senior Secondary	Sent for Modification
17	IMF	Economics	English	DESS	Audio	16/05/2019	Senior Secondary	Sent for Modification
18	World Bank	Economics	English	DESS	Audio	16/05/2019	Senior Secondary	Sent for Modification
19	Human Capital	Economics	English	DESS	Audio	16/05/2019	Senior Secondary	Sent for Modification
20	MOOC Economics – Equilibrium, excess demand and excess supply part 1	Economics	English	DESS	Video	16/05/2019	Senior Secondary	Accepted and sent for production
21	MOOC Economics script on monopolistic competition part 1	Economics	English	DESS	Video	16/05/2019	Senior Secondary	Accepted and sent for production
22	MOOC Economics script on monopoly part 2	Economics	English	DESS	Video	16/05/2019	Senior Secondary	Accepted and sent for production
23	MOOC Economics script on Oligopoly part 3	Economics	English	DESS	Video	16/05/2019	Senior Secondary	Accepted and sent for production
24	Yoga Script for Yoga Olympiad (Jingle in Hindi)	Yoga	Hindi & English	MPD	Audio	30/05/2019	All (General)	Accepted and sent for production
25	Yoga Script for Yoga Olympiad (Jingle in English)	Yoga	Hindi & English	MPD	Audio	30/05/2019	All (General)	Accepted and sent for production
26	Awaaz Kam Baatein Zyaada	Chemistry	Hindi	DESM	Video	30/05/2019		Accepted and sent for production
27	Desi Boomerang	Chemistry	Hindi	DESM	Video	30/05/2019		Accepted and sent for production
28	अंतरा कक्षा 11 टॉर्च बेचने वाला	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
29	अंतरा कक्षा 12 साहित्य का मंगल स्वरूप	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
30	अंतरा कक्षा 12 भारत वर्ष की उन्नति कैसे हो सकती है ?	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
31	अंतरा कक्षा 12 कच्चा चिह्न	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
32	अंतरा कक्षा 12 सुमिरिनी के मनके	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
33	अंतरा कक्षा 12 जहाँ कोई वापसी नहीं	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
34	अंतरा कक्षा 12 कुटज	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
35	अंतरा कक्षा 12 असगर वजाहत की लघु कथाएं	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
36	अंतरा कक्षा 12 प्रेमछन की छाया स्मृति	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
37	अंतरा कक्षा 12 खानाबदोश	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
38	अंतरा कक्षा 12 ईदगाह	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification

39	अंतरा कक्षा 12 संबंदिता	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
40	अंतरा कक्षा 12 दूसरा देवदास	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
41	अंतरा कक्षा 12 उसकी माँ	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
42	अंतरा कक्षा 12 सूरदास की झोपड़ी	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
43	अंतरा कक्षा 12 आरोहण	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
44	अंतरा कक्षा 12 बिस्कोहर की माटी	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
45	अंतरा कक्षा 12 अपना मालवा खाऊ उजाड़ू सभ्यता में	Hindi	Hindi	DEL	Video	14/06/2019	Senior Secondary	Sent for Modification
46	MOOCs script on Food Groups and selection from each food group	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
47	MOOCs script on Principles, Advantages and Factors Affecting meal Planning	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
48	Minimizing Food Wastage	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
49	Malnutrition	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
50	Personal Hygiene	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
51	Food Safety	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
52	Nutraceuticals and Functional Food	FNHL	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
53	Straight line (Kemh_101001)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
54	Straight line (Kemh_101002)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
55	Straight line (Kemh_101003)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
56	Relations & Functions (lemh_10101)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.

57	Relations and Functions (lemh_10102)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
58	Relations and Functions (lemh_10103)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
59	Relations and Functions (lemh_10104)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
60	Relations and Functions (lemh_10105)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
61	Differential Equation (lemh_10901)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
62	Differential Equation (lemh_10902)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
63	Differential Equation (lemh_10903)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
64	Differential Equation (lemh_10904)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
65	Sequence & Series (Kemh_10901)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
66	Sequence & Series (Kemh_10902)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
67	Sequence & Series (Kemh_10903)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
68	Sequence & Series (Kemh_10904)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
69	Sequence & Series (Kemh_10905)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
70	Relation and Functions (kemh_10201)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
71	Relation and Functions (kemh_10202)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
72	Relation and Functions (kemh_10203)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.

73	Relation and Functions (kemh_10204)	Mathematics	English	DICT	Video	14/06/2019	Senior Secondary	To be vetted in workshop mode and resubmitted.
74	1 programme on PSSCIVE glorious past to the inspiring future	MPD	English	DICT	Video	27/06/2019	General	Accepted and sent for production
Biology Scripts for Educational Science Kit								
75	Demonstration of Biology lab equipments and apparatuses i.e. PVC Tube, Compound Microscope, Rubber Balloon, Glassware Apparatus & Materials (Magnifying glass), Glassware Apparatus and Materials (Glass slides), Glassware Apparatus & Materials (Bell jar)	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
76	Permanent slide of Amoeba showing Binary fission	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
77	Permanent slide of Paramecium	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
78	Permanent slide of Hydra showing budding	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
79	Activity 6.1.1 How to prepare sprouts from whole seeds	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
80	Activity 6.2.1 To study how we can identify the major components in our diet	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
81	Activity 6.7.1 To study why the colour of white petals of a flower	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
82	Activity 6.7.2 To study the venation pattern in leaves	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
83	Activity 6.7.3 To study how transpiration occurs in plants	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
84	Activity 6.7.4 To study why leaves are called the kitchen of the plants	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
85	Activity 6.7.5 To study what are the major types of roots	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
86	Activity 6.7.6 To study the function of root	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
87	Activity 7.1.1 To study what are the conditions necessary for photosynthesis	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
88	Activity 7.7.1 How to demonstrate the presence of carbon dioxide in air we breathe out	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

89	Activity 7.7.2 The role of diaphragm in breathing	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
90	Activity 7.8.1 How can you listen to your own heart	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
91	Activity 7.8.2 To study how does water move from one cell to another cell in plants	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
92	Activity 7.9.1 To study how does asexual reproduction occur in plants	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
93	Activity 8.1.1 Crop production and Management	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
94	Activity 8.2.1 To study where do micro-organisms live	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
95	Activity 8.2.2 To study micro-organisms as an integral part of our life	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
96	Activity 8.2.3 Role of microorganisms in fermentation	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
97	Activity 8.6.1 To observe Amoeba, Paramecium and Yeast under a microscope	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
98	Activity 8.6.2 To study what do plant cells look like	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
99	Activity 8.7.1 To study how does asexual reproduction occur in small animals such as Hydra and Amoeba	Biology	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
Chemistry Educational Science Kit								
100	Demonstration of Chemistry Lab Equipments and Apparatuses (Category A) i.e. 1. 1 C.C Spoon, 2. Kerosene burner/spirit Lamp, 3. Tripod Stand 4. Pasteur pipette, 5. Plastic funnel, 6. Filter paper, 7. Dispensing Bottle, 8. Plastic vials, 9. Measuring Cylinder, 10. Micro Test Tube rack, 11. Deflagrating Spoon, 12. China dish, 13. Wash bottle, 14. Petri dish, 15. Micro Test Tube, 16. Beaker (50 MI), 17. Glass rod, 18. Double mouthed flask, 19. Glass tube, 20. W-Tube, 21. Watch glass	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

101	Demonstration of Chemistry Lab Equipments and Apparatuses (Category B) i.e. 1. Knife, 2. Surgical scissor, 3. Screw driver, 4. Bottle opener with corkscrew and screw driver, 5. Claw hammer, 6. Shaving blade, 7. Scalpel, 8. Dissecting needle, 9. Pair of tongs, 10. Magnesium ribbon, 11. Test tube Brush, 12. Test tube holder, 13. Sand Paper	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
102	Activity 6.4.1- To study how do you classify materials/objects on the basis of their appearance?	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
103	Activity 6.4.2- To study the substances dissolves in water?	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
104	Activity 6.4.3- To study miscibility of some liquids in water?	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
105	Activity 6.5.1- How will you separate mud from muddy water?	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
106	Activity 6.5.2- To study how will you separate salt from salt solution?	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
107	Activity 6.5.3 To study the separation of a mixture of sand and salt	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
108	Activity 6.5.4 To study the amount of the salt which can be dissolved in a given volume of water at a given temperature	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
109	Activity 6.5.5 How can a saturated solution be made to dissolve some more substance	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
110	Activity 6.5.6 Are different substances dissolved in varying quantities in water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
111	Activity 6.6.1 To study some of the changes which can be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
112	Activity 6.6.2 Can you explain the difference between changes which can be reversed and those which cannot be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

113	Activity 6.6.3 Are burning of candle, and melting of wax are of the same	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
114	Activity 6.13.1 Study the effect of moving air	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
115	Activity 6.13.2 Air is present everywhere	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
116	Activity 6.13.3 To study the components of air	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
117	Activity 8.3.1 Strength of threads/fibres	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
118	Activity 8.3.2 Does the synthetic fabric absorb the same amount of water as the natural fabrics	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
119	Activity 8.4.3 How will you test whether rust is a acidic or basic	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
120	Activity 8.4.4 How will you test the nature of the gas evolved on burning of Sulphur	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
121	Activity 8.4.5 To test the nurture of the solution formed when magnesium reacts with water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
122	Activity 8.4.6 What happens when zinc reacts with hot water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
122	Activity 8.4.6 What happens when zinc reacts with hot water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
123	Activity 8.4.7 How do metals and non-metals with dilute hydrochloric acid	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
124	Activity 8.4.8 Does aluminium react with a base	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
125	Activity 8.4.9 What happens when metals are immersed in the salt solution of other metals	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
126	Activity 8.5.1 Are all substances around us combustible	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
127	Activity 8.5.2 Is air necessary for combustion	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
128	Activity 8.5.3 Can we heat water in a paper cap over a candle flame without burning it	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
129	Activity 8.5.4 To study the degree of hotness of different zones of the flame	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

130	Activity 6.6.1 To study some of the changes which can be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
131	Activity 6.6.2 To study can you explain the difference between changes which can be reversed and those which cannot be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
132	Activity 6.6.3 To study whether the burning of candle, and melting of wax are of the same type of change or not.	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
133	Activity 6.6.2 To study can you explain the difference between changes which can be reversed and those which cannot be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
134	Activity 6.6.2 To study the difference between the changes that can be reversed and those which can not be reversed	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
135	Activity 6.5.1 How will you separate mud from muddy water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
136	Activity 6.5.2 To study how will you separate salt from salt solution	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
137	Activity 6.5.3 To study the separation of a mixture of sand and salt	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
138	Activity 6.5.4 To study the amount of the salt which can be dissolved in a given volume of water at a given temperature	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
139	Activity 6.5.5 How can a saturated solution be made to dissolve some more substance	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
140	Activity 6.9.1 To study Do all substances allow light to pass through them	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
141	Activity 7.3.1 Is your Shampoo Acidic or basic	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
142	Activity 7.3.2 What happens when an acid is mixed with a base	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
143	Activity 7.4.1 How will you get water from ice and ice from water, How will you get water from water Vapour	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

144	Activity 7.4.2 Is heating of a shaving blade a physical change	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
145	Activity 7.4.3 Is burning of Magnesium Ribbon a chemical change	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
146	Activity 7.4.4 To study the nature of change when zinc is added to copper sulphates solution	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
147	Activity 7.4.5 To study the type of change when vinegar is added to baking soda	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
148	Activity 7.6.1 How will you show that the soil, collected from different places differ in compositions	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
149	Activity 7.6.2 How will you show the presence of water in soil	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
150	Activity 7.6.3 How will you show that different types of soil have different water holding capacity	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
151	Activity 8.3 To study synthetic fibres and plastics	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
152	Activity 8.3.1 Strength of threads/fibres	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
153	Activity 8.3.2 Does the synthetic fabric absorb the same amount of water as the natural fabrics	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
154	Activity 8.4.3 How will you test whether rust is a acidic or basic	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
155	Activity 8.4.4 How will you test the nature of the gas evolved on burning of Sulphur	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
156	Activity 8.4.5 How test the nurture of the solution formed when magnesium reacts with water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
157	Activity 8.4.6 What happens when zinc reacts with hot water	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
158	Activity 8.4.7 How do metals and non-metals reacts with dilutes hydrochloric acid	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
159	Activity 8.4.8 Does aluminium react with a base	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

160	Activity 8.4.9 What happens when metals are immersed in the salt solution of other metals	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
161	Activity 8.5.1 Are all substances around us combustible	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
162	Activity 8.5.2 Is air necessary for combustion	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
163	Activity 8.5.3 Can we heat water in a paper cap over a candle flame without burning it	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
164	Activity 8.5.4 To study the degree of hotness of different zones of the flame	Chemistry	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

Physics Educational Science Kits

165	<p>Demonstration of Chemistry Lab Equipments and Apparatuses (Category A) i.e. 1.Thermometer 2. Laboratory stand 3.Sun-dial 4.Steel Ball with a hole for hook arrangement 5.Aluminium rules cum lever 6. Pulley with frame 7.Aluminium wire and pointer 8.Bimetallic strip 9.Rods with holder 10.Sitar string or a steel wire 11.Banana clips connecting wire 12.Fuses and model showing heating effects of current 13.Set of four different resistors 14.Magnetic compass 15.Electric bell along with coil and iron core 16.Panel for connection 17.Ray streak apparatus 18.Colour disk 19. Electroscope assembly or Aluminium disk with rubber cork 20.Thermo-Cole or Styrofoam ball 21.Tuning fork 22.Graduated syringe 23.Copper wire 24.Protractor 25. Circuit board 26. Assembly with torch 27.Bulbs of 1.5V</p>	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
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	28. Light Emitting diode or LED 29.Slinky 30.Magnets 31. Stainless steel 32. Electrodes fixed in cork 33.Generator Assembly 34.Periscope frame with mirror 35. Plug key 36. Crocodile clips							
166	Demonstration of Chemistry Lab Equipments and Apparatuses (Category B) i.e. 1. Cotton thread 2. Rubber suckers 3. Iron nails 4. Polyester cloth of size 150 mm by 150 mm 5. Woollen cloth of size 150 mm by 150 mm 6. Thermo Cole sheet 7. Plastic strip with woollen cloth attached at one side 8. Plane mirror strips 9. Copper strip of size 2 mm by 10 mm 10. G-clamp 11. Lens and spherical 12. Mirror stand	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
167	Activity 6.8.1 How can we recognise periodic motion and circular motion	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
168	Activity 6.8.2 How can we measure the perimeter of a circular object using a thread	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
169	Activity 6.8.3 How can we recognise the rectilinear motion of an object	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
170	Activity 6.9.1 Do all substances allow light to pass through them	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
171	Activity 6.9.2 How can you make an opaque paper translucent.	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
172	Activity 6.9.3 How are shadows formed	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
173	Activity 6.9.4 How does light travel	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
174	Activity 6.9.5 How an image is formed in a pinhole camera?	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
175	Activity 6.9.6 What happens to the light falling on a plane mirror	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

176	Activity 6.9.7 How does an image of a person appear in a plane mirror	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
177	Activity 6.9.8 What is the nature of the image formed by the plane mirror	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
178	Activity 6.9.9 How can we see objects which cannot be seen directly	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
179	Activity 6.10.1 How can we make a simple electric circuit	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
180	Activity 6.10.2 How can we identify conductors and insulators	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
181	Activity 6.10.3 How can we make an electric switch	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
182	Activity 6.10.4 Does tap water conduct electricity	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
183	Activity 6.11.1 How can we test whether a given object is a magnet or not	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
184	Activity 6.11.2 In what different shapes magnets are usually made	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
185	Activity 6.11.3 Do all materials experience mutual attraction with a magnet	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
186	Activity 6.11.4 Does a magnet attract iron filings/nails equally at all points	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
187	Activity 6.11.5 How do we name the poles of a magnet	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
188	Activity 6.11.6 How can we make a magnet by ourselves	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
189	Activity 6.11.7 How can we make a simple compass needle	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
190	Activity 6.11.8 Does the pole of a magnet attract the pole of the other magnet	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
191	Activity 6.11.9 How can we compare the strength of two magnets using compass needle	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
192	Activity 6.11.10 Can a magnet lose its magnetic properties when heated	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
193	Activity 6.12.1 What makes evaporation faster or slower	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

194	Activity 6.12.2 Is there any water in air	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
195	Activity 8.8.1 How can we apply a force on an object without bringing it into physical contact with another object	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
196	Activity 8.8.2 How can we show that force acting on a smaller area exerts larger pressure	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
196	Activity 8.8.2 How can we show that force acting on a smaller area exerts larger pressure	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
197	Activity 8.9.1 How can you measure the weight of a given object using a spring balance	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
198	Activity 8.9.2 How can you show that friction depends upon the nature of the two surfaces in contact	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
199	Activity 8.10.1 How can we distinguish between a pleasant sound and a noise	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
200	Activity 8.10.2 How can you show that sound can travel through a string	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
201	Activity 8.10.3 How can we produce waves by using a slinky	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
202	Activity 8.11.1 How can you show that water can be split into its constituent elements	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
203	Activity 8.11.2 How can you use electric current for coating a metal over the surface of another metal	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
204	Activity 8.12.1 How is an Electroscope made	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
205	Activity 8.12.2 Do charges interact with each other	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
206	Activity 8.13.1 How can you verify laws of reflection of light by using a plane mirror	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
207	Activity 8.13.2 How can you show that a reflected light can be further reflected	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
208	Activity 8.13.3 How can you make your own kaleidoscope	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

209	Activity 8.13.4 How can you show that the sunlight can be split into seven different colours	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
210	Activity 7.2.1 How can we measure temperature using laboratory thermometer	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
211	Activity 7.2.2 How can we measure our body temperature in degree Celsius	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
212	Activity 7.2.3 How can we show that the rate of heat conducted by different substances is different	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
213	Activity 7.2.4 Which of the two identical bodies will absorb more amount of heat when kept under similar conditions	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
214	Activity 7.2.5 How can we show that heat is transferred in liquids	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
215	Activity 7.2.6 How can we show that heat is transferred in gases	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
216	Activity 7.5.1 How can we show that air expands on heating & contracts on cooling	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
217	Activity 7.5.2 How can we show that air exerts pressure	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
218	Activity 7.5.3 How can we show that the air pressure gets reduced when air blows	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
219	Activity 7.10.1 How can we determine time period of a simple pendulum	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
220	Activity 7.10.2 How can we find speed of a normal walk	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
221	Activity 7.10.3 How can we measure time with the help of a sundial	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
222	Activity 7.11.1 How can we show that the current flowing through a conductor produces heating effect	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
223	Activity 7.11.2 How can we show that an electric current flowing through a conductor produces magnetic effect around it	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification

224	Activity 7.11.3 How can we make an electromagnet	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
225	Activity 7.12.1 How can we identify types of lenses and mirrors	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
226	Activity 7.12.2 How can we find the nature of the image formed by a concave mirror	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
227	Activity 7.12.3 How can we find the nature of the image formed by a convex lens and a concave lens	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
228	Activity 7.12.4 How can you find the composition of white light	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
229	Activity 7.12.5 How can we split sunlight into different colours	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification
230	चढ़ता जोकर (घर्षण) 3 rd Scripts on science handbook on understanding science through activities, games, toys and art form at upper primary stage	Physics	English	DEK	Video	27/06/2019	Upper primary	Sent for modification



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. Apart from the below listed programmes CIET has also recorded five programmes for HRM's office.

List of Audio programs produced (recorded) during April-June, 2019

S. No.	Name of the programme	Subject	Target group	Duration of programme	Producer
1	Flamingo (Audio book) 1 book	English	Hr. Secondary	7 Hrs. approx	Sri Ajit Horo
2	Hornbill (Audio book) 1 book	English	Secondary	7 Hrs. approx	Sri Ajit Horo
3	Bhaswati (Audio book) 2 books (classes XI-XII)	Sanskrit	Hr. Secondary	7 Hrs. each approx	Sri Ajit Horo & Smt. Vandana Arimardan
4	Basant	Hindi	Primary	7 Hrs. approx	Sri Ajit Horo & Smt. Vandana Arimardan
5	Jingles of Yoga Olympiad	Hindi & English	General	2 min.	Sri Ajit Horo & Smt. Vandana Arimardan

List of Video programs produced (recorded) inside and outside NCERT during April-June, 2019

S. No.	Name of Programme	Producer	Date of Recording
1	Video program for SARD	Sh. Buddhi Prakash Kukreti	02.05.2019
2	Question with Selfie for SWAYAM PRABHA Channel 31 Kishore Manch	Smt. Sujata Lochab	27-05-2019 to 31-05-2019
3	MOOCs lecture series of Economics	Smt. Sujata Lochab	28-05-2019 to 30-05-2019
4	MOOCs lecture series of Economics	Smt. Sujata Lochab	04-06-2019
5	Lecture on World's Environment Day	Shri Sudhir Kumar Saxena	04-06-2019
6	Video recording for Children's Summer Camp on Digital Learning	Smt. Savita Sharad	04-06-2019 to 05-06-2019
7	Video recording for Children's Summer Camp on Digital Learning	Smt. Sujata Lochab	11-06-2019 to 12-06-2019
8	Faculty development program	Smt. Sujata Lochab	03-07-2019
9	Cartoonist Sudhi	Shri Buddhi Prakash Kukreti	05-07-2019
10	Syllabus, Curriculum and textbook	Shri Sudhir Kumar Saxena	09-07-2019
11	Science experiment	Smt. Anita Malhotra	10-07-2019
12	Nishtha Mega Training	Smt. Anita Malhotra	20-07-2019 to 21-07-2019
13	Sampling	Shri Buddhi Prakash Kukreti	25-07-2019
14	Premchand Jayanti	Shri Mansukh Rathod	31-07-2019

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 April-June, 2019 has been given below:

List of programmes previewed during April-June 2019

S. No.	Name of the programme	Subject	Target group	Duration of programme (min:sec)	Producer
1	अक्षर की कहानी ट से टोली	हिंदी, अकादमिक समन्वयक – डॉ. नीलकंठ कुमार	सामान्य	11:45	श्रीमती वन्दना अरिमर्दन
2	Electro Magnetic Toy Train	Physics Academic Coordinator - Anuradha Mathur	Secondary	06:50	Shri Buddhi Prakash Kukreti
3	Stability of Structure	- do -	- do -	05:28	- do -

4	संस्कृत रूपक अलंकार	संस्कृत कार्यक्रम समन्वयक— प्रो. के सी त्रिपाठी	माध्यमिक	18:00	श्रीमती वन्दना अरिमर्दन
5		Audio book Chapter-7	सामान्य	5:00	श्रीमती वन्दना अरिमर्दन
6	संस्कृत उपमा अलंकार के भेद	संस्कृत कार्यक्रम समन्वयक— प्रो. के सी त्रिपाठी प्रो. जतीन्द्र मोहन मिश्र	माध्यमिक	20:02	श्री सुधीर कुमार सक्सेना
7	ध्वनि पुस्तक गुलजार उर्दू— भाग—1 पाठ—18	उर्दू अकादमिक समन्वयक— डॉ. निसार अख्तर	माध्यमिक	6:40	श्रीमती वन्दना अरिमर्दन
8	उपमा अलंकार के भेद	संस्कृत कार्यक्रम समन्वयक— प्रो. के सी त्रिपाठी प्रो. जतीन्द्र मोहन मिश्र	माध्यमिक	20:02	श्री सुधीर कुमार सक्सेना
9	Rikitam mei Hridayah	Sanskrit Academic Coordinator- Prof. K.C. Tripathi Dr. Jatindra Mohan Mishra	माध्यमिक	6:30	Smt. Vandana Arimardhan
10	Water	EVS Academic Coordinator- Dr. Kavita Sharma	Teachers (Primary Teachers)	21:15	Sh. Buddhi Prakash
11	माटी वाली	Audio Book कृतिका भाग—1		14:00	Smt. Vimlesh Chaudhary
12	Choreography	Art & Aesthetics Academic Coordinator- Dr. Sharbari Banerjee	Teachers	9:00	Smt. Anita Malhotra
13	Pakhawaj	Art & Aesthetics Academic Coordinator- Dr. Sharbari Banerjee	Teachers	12:48	Smt. Anita Malhotra
14	नटखट डमरू	हिन्दी	Primary	7:30	Smt. Vimlesh Chaudhary
15	Teacher Education in quest of Peace	English Academic Coordinator Dr. Devraj Goel	Teachers Educators (Med)	26:00	Smt. Sujata Lochab
16	किशोरावस्था की ओर भाग—2	Science (Hindi) Academic Coordinator- Dr. Ruchi Verma	Upper Primary Class-VIII	16:00	Sh. Buddhi Prakash Kukreti
17	गुरुत्वाकर्षण बल भाग—1 एवं भाग—2	विज्ञान कार्यक्रम समन्वयक — अनुराधा माथुर	माध्यमिक	21:16	श्री बुद्धि प्रकाश कुकरेती
18	(बापू की दुनिया) वैष्णव जन तो...	हिन्दी	सामान्य	6:42	श्रीमती सुजाता लोचब
19	किशोरावस्था की ओर भाग—3	विज्ञान कार्यक्रम समन्वयक — डॉ. रुचि वर्मा	उच्च प्राथमिक कक्षा—8	07:30	श्री बुद्धि प्रकाश कुकरेती
20	Auctioning out Event on ndifference curve Analysis (for inclusive Education)	Economics Academic Coordinator Dr. Pratima Kumari	Sr. Secondary	21:33	Sh. Sudhir Saxena
21	Promo Jingles on Yoga Olympiad	Hindi & English	General	2:00	Sh. Ajit Horo Smt. Vandana Arimardan
22	Curriculum, Syllabus and Text Books	EVS Academic Coordinator- Prof. Kavita Sharma	Teachers	11:55	Sh. Sudhir Saxena
23	पुष्प के भागो और लैंगिक जनन में उनकी भूमिका	विज्ञान कार्यक्रम समन्वयक— डॉ. पुष्प लता वर्मा	माध्यमिक	10:26	श्री बुद्धि प्रकाश कुकरेती
24	Teacher Education in Human Rights	English Academic Coordinator- Dr. Devraj Goel	Education	35:18	Mrs. Sujata Lochab

25	गुड़हल और सदाबहार के फूलों के माध्यम से पुष्प के विभिन्न भागों का अध्ययन	विज्ञान कार्यक्रम समन्वयक— डॉ पुष्प लता वर्मा	माध्यमिक	08:30	श्री बुद्धि प्रकाश कुकरेती
26	Standard solution of Oxalic acid	Chemistry Academic Coordinator-Pramila Tanwar	Sec. & Sr. Secondary	14:30	Sh. Mansukh Rathod

QUALITY ASSESSMENT OF MEDIA PROGRAMS

CIET-NCERT has adopted a mechanism for reviewing audio, video and other multimedia e-contents before disseminating them on respective web portals which is done on a routine basis. Workshops are also conducted on regular basis to review programs received from different states for Shala Gunvatta (ShaGun) portal NROER, ePathshala, MOOCs and DIKSHA. During this quarter, Apart from these programs, review workshops for content validation for various organizations are also undertaken by CIET on a regular basis. A workshop 29-30 April 2019 was organized to review content for ShaGun portal where, the no. of content reviewed was 109. Five review workshops were organized during May: (i) 01-02 May 2019 - ShaGun portal, No. of content reviewed = 76 (ii) 08 May 2019 - DragonLearn (Mathematics, Primary Level), No. of content reviewed = 12 (iii) 09-10 May 2019 - ShaGun portal, No. of content reviewed = 71 (iv) 22-24 May 2019 - ShaGun portal, No. of content reviewed = 109 (v) 28-31 May 2019 - ShaGun portal (MHRD) & Kavi aur Kavita (Hindi DEL) No. of content reviewed = 154 & 21, respectively. Similarly, three review workshops were organized during June: (i) 11-14 June 2019 - ShaGun portal, No. of content reviewed = 225 (ii) 17-21 June 2019 - ShaGun portal, No. of content reviewed = 292 (iii) 25-28 June 2019 - ShaGun portal, No. of content reviewed = 78.

DISSEMINATION OF eCONTENTS

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 14,237 including- 401 collection, 2,778 documents, 1068 interactives, 1,664 audios, 2,586 images, 6,140 videos. The total no. of registered users till June end has been 13,933.

ePathshala is a portal supported with app where there are e-resources of NCERT put up for use. The portal has 4,64,98,382 visitors, the app has a rating of 4.5 out of 5 on Google play store, 3 out of 5 on Apple store and 4.3 out of 5 on Windows Store. Till 30 June 2019, 23,01,055 users downloaded the app from various play stores. Total views of ePathshala on Youtube have been amounted to 29,078,458. 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 321 textbooks of NCERT has already been done and resource mapping is in progress.

PINDICS app had 35,820 downloads, **PARAKH** (Third Party Evaluation of ICT in States) had 2,577 users whereas, **KISHORE MANCH** had 3,590 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 5,110 people.

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. Support to SCERT Tripura was given in the form of a webportal with 1,57,333 views of Tripura Siksha Bandhu.

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 1767 programs have been telecast on the Kishore Manch channel as per schedule between April to June 2019. It is noted that the total number includes the repetitions also. Among these 1767 programs, 203 were the lecture series of different subjects of class XI (31) and XII (172). Apart from lecture series, there were 1327 programs covering the syllabus of secondary and senior secondary level. Similarly, teachers related 134 programs were also included in the schedule. Nine 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 2019.

Besides the types of programs, the analysis of the schedule also reported the subject-wise categorization of programs (see table 1) between April to June 2019.

Subject-wise categorisation of programs scheduled and telecast between Jan to March 2019 on SWAYAM Prabha # 31 (Kishore Manch)

Subjects	No. of Programs telecast	% of programs telecast
Sciences (Biology, Chemistry, Physics)	250	14.14

Social Sciences (Economics, Geography, History, Political Science, Sociology)	284	16.07
Mathematics	72	04.07
Language	196	11.09
Art, Culture, Crafts, Dance and Music	257	14.54
Accountancy	18	01.01
Psychology	10	00.56
Business Studies	4	00.22
Others	676	38.25
Total	1767	100

As shown in the above table, there were 250 and 284 programs related to different disciplines of sciences and social sciences respectively. Seventy two programs included the Mathematics lecture series, Mathematics activities and other related programs. Similarly, language related programs (196) were mostly of Hindi language. The schedule covered 257 programs depicting Indian art and culture through different series of videos. Furthermore, Accountancy (18), Psychology (10) and Business Studies (4) subjects of senior secondary level were also placed in the schedule. Due to summer vacations between May and June 2019, majority of the other programs (676) were related to physical education, Yoga, teachers, famous personalities, travelogues, environment and in generic in nature.

Participation in Conferences/Seminars and publication

CIET, NCERT in collaborating with Cyber Peace Foundation launched the Online Contest , e-Raksha Competition on 15 April, 2019 , New Delhi which aims to promote Online Safety & Responsibility among the students and teachers from schools across all states of India. Prof. Indu Kumar participated as one of the chief guests and other faculty members and technical persons participated in the launch.

Dr. Nidhi Singh attended one-day National pre-symposium of 43rd Indian Social Science Congress with a focal theme, 'Science of Nature and Society', on Friday 3 May, 2019 at School of Social Sciences-1 Committee Room, Jawaharlal Nehru University, New Delhi.

Prof. Amarendra P. Behera participated in the International Conference organized by Worldreader on Digital Reading Summit 2019 as an invitee organized by Wordreader at Nairobi, Kenya from 06-10 May, 2019.

Dr. Abhay Kumar attended a meeting to review the National Science Film Festival of India being organized every year by Vigyan Prasaar, DST, NOIDA on 24th June, 2019.

Prof. Amarendra P. Behera was invited the meeting on Research and Training in Educational Technology (ET) and ICTs in Education and Learning organized by National Central University, Taiwan on 24-30 June, 2019. The objective of the meeting was to explore the possibilities of collaboration on ET between National Central University, Taiwan and NCERT, New Delhi.

Prof. Amarendra P. Behera also attended the meeting as an external member for the Shodh Salahkar Samiti, Central University of Himachal Pradesh, Dharamshala on 20 July 2019.

A publication was done by Gupta, D. & Singh, G. (2018). Competency of Teacher Educators and Student Teachers towards E-learning Tools. Journal of Indian Education, Volume XLIV, Number 2, August 2018, pp 126 – 140.

VISITORS

CIET-NCERT has been regularly facilitating enhancement of knowledge of students, teachers and teacher educators through various means. One such way is to orient them through visits done to the institution. During these visits they are introduced to the various initiatives of the institution and the manner in which audio-video and multimedia productions are done. The detail of visits done during this quarter of the year has been given below:

Internship and Exposure Visits to CIET

Single day visit for Teacher Educators/Trainee Teachers

S. No.	Name of the Institute/College/Organisation	Total no. of Trainees/ Faculty	Date of the Visit
1	Manav Rachna University, Faridabad	70	2 April, 2019
2	RCIT, Najafgarh, Delhi	82	23 April, 2019
3	GD Goenka University, Gurgaon	34	24 April, 2019

List of Organisations for Internship programme for B.Ed. Students

S. No.	Name of the Institute/College/Organisation	Total no. of Scholars/ Students	Date of the Internship
1	Maharshi Valmiki College of Education, University of Delhi	9	24 June - 5 July, 2019
2	Bhavan's Leelavati Munshi College of Education, GGSIU, Delhi	1	28 June - 12 July, 2019

List of Organisation/ Departments for Attachment Training Programme

S. No.	Name of the Organisation/Department/Course	Total no. of Participants	Date of the Visit
1	Attachment training programme for the participants of FIP organised by Shri Lal Bahadur Shastri Sanskrit Vidyapeetha, Delhi	20	16 May, 2019
2	Fact Verification Workshop of Google News Initiative by Dr. Nimesh Kapoor, Vigyan Prasar, Noida	20	22 May, 2019

Support to Tripura was provided by CIET-NCERT through Workshop on Orientation on DIKSHA and e-Content Development from 24-26 April, 2019.

Expert support to other institutions or universities is also provided by CIET. During April, 2019 expert support on 'Developing e-content' was provided to 36 participants of School of Education, Guru Nanak Dev University, Amritsar under the scheme of Pandit Madan Mohan Malviya Nation Mission on Teacher and Training, Department of Higher Education, MHRD, Government of India, from 19 April-02 May, 2019. Various faculty members and technical members trained and provided support during this.



CIET held a condolence meeting of **Prof. (Ms.) Vijaya Mulay**. Prof. Mulay, who is best known for her film 'Ek Anek Aur Ekta', left for her heavenly abode on Sunday i.e. 19 May, 2019. As a renowned filmmaker and film historian, she had won National Award for the film in the Best Education Film Category. Born on May 16, 1921, Prof. Mulay founded the Delhi Film Society in 1959. She later became a Joint Secretary of the Federation of Film Societies. She also worked with Central Board of Film Certification in the early 1960s. Centre for Educational Technology (CET), a constituent unit of NCERT, in 1975 asked Prof. Mulay to prepare educational films which were to be broadcast in four languages across 2400 villages under

SITE/INSAT. She shared a great friendship with film personalities like Satyajit Ray and Mrinal Sen who are reportedly said to have greater influenced her career. Prof. Mulay was the founder Principal of CET, NCERT and Prof. Mulay got retired on 31 May, 1981 as Principal, CET, NCERT. In CIET-NCERT family she was popularly known as, "Aakla".

GUEST COLUMN

IIT BOMBAY SPOKEN TUTORIAL (ST) PROJECT FOR E-LEARNING

(NMEICT, MHRD, Govt. Of India)

(Swapnil More, Senior Project Manager, e-mail:moreswapnil66@gmail.com, Mobile: 09833901538)

Perspective

The teaching community and education policy makers are emphasising innovations in teaching-learning-evaluation modes, more than ever before. There is a sense of urgency to introduce these modes in the classrooms and make them easily accessible, implementable taking into consideration the financial viability. This thrust is essential for the developing nation like, India to come at par with the rest of the world. In this context, a common and popular approach pertains to the use of Information Communication Technology (ICT) in the daily or routine teaching taking place in schools.

A large number of initiatives have been taken up by the MHRD and other bodies of Government of India (GoI) and private groups in introducing virtual learning products. Spoken Tutorial started as a project of IIT Bombay in 2009 with a funding from the National Mission on Education through ICT, MHRD, GoI (<https://spoken-tutorial.org/> and <https://www.youtube.com/user/SpokenTutorialIITB/>). The project aims

to promote IT literacy through Open Source Softwares. The training through Spoken Tutorial started in 2011 at the college level and the project was awarded the Best Interactive MOOC in 2015 by Google. It is a software/IT training program which through audio-video technology offers a range of courses for students, across the board in education. It fits in with the prescribed best practices and provides innumerable solutions to common challenges in school teaching. Some of the salient features of Spoken Tutorial are the following:

- The course content is designed for self-learning
- Learning is on computers, one learner to one system
- There is a use of audio-video active learning tool in DVD format, suited for young learners
- Learning can be in online as well as offline modes
- Compatible with simple computer systems having minimum capacity
- The instruction is designed for hands-on experience through which the student can learn on his/her own
- Teacher's role is of a facilitator
- Offers a range of course i.e. from basic computer skills to advanced courses on programming, computation, multimedia and web development
- Many basic courses are available in 15 Indian languages e.g., Hindi, Tamil and Marathi etc.
- The school has to pay a nominal subscription fee of Rs. 5000 for the entire year (additional nominal charges for test and certificates)

Courses (relevant for school children Classes V to XII)

- LibreOffice (like MS-Office) with Writer for Word processing, Calc for Spreadsheet like Excel, Impress for slide making like Powerpoint
- Office automation systems courses like, Linux-OS & Firefox browser
- Multimedia courses on GIMP & Inkscape for graphics designing and Blender for animation
- Geogebra for learning basics of Geometry and Algebra concepts
- Avogadro, Gchempaint, Cell designer, Jmol Applications for Chemistry & Bioscience courses
- C, C++, Java and Python for Programming

The IIT Bombay-ST team has an active Customer Care with 24x7 e-mail & phone support. It also supports teacher's training in groups or for separate schools on a face to face mode.

ePathshala

NROER

CIET

SWAYAM

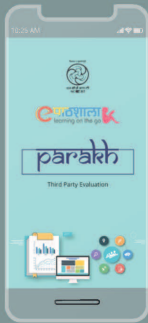
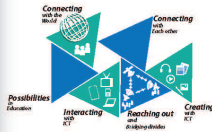


SWAYAM PRABHA

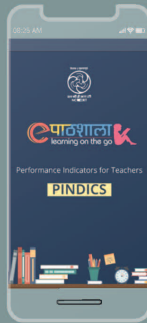
ICT CURRICULUM

ITPD

PINDICS



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PINDICS



KISHORE MANCH



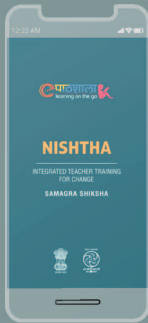
ePathshala



NAS



ePathshala Scanner



NISHTHA



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