

# कार्यकलाप प्रतिवेदन Activity

# Report

2021-22



Ministry of Culture  
Government of India



## National Science Centre

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With Best Wishes

# कार्यकलाप प्रतिवेदन Activity Report

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# 2021 2022

# CONTENT

निदेशक की कलम से/ From the Director's Desk	1
Brief of Programmes /Activities/ Collaborations	12
General Information	22
Existing Galleries	26
New Galleries / Major Renovation	28
Existing Mobile Science Exhibits in the Centre/ Museum	28
New Temporary Exhibition (In House Development)	
Exhibit Development	29
Planning	
Mobile Science Exhibition Programmes	30
Science Education Activities (SDL)	31
Environment Awareness Programmes	
Science Film Shows	32
Popular Science Lectures	
Taramandal Shows	
Sky Observation	33
Science On Sphere	
Science Quizzes	
Fantasy Ride	
Holo Show	34
3d Theatre Show	
Scimax Show	
Video/ Computer Software/ Multimedia Software Developed	35
Creative Ability	
Vacation Hobby Camps	36
Science Fair	
Date, Duration & Streams Of Vacation Hobby Camps	
Conferences Training/ Workshops /olympiads	
Teacher Training & Workshop {TTP}	37
Robotics boot camps/Computer Training Programmes	
Conferences, Training/workshops & Olympiads	38
Community Programmes	40
Science Drama/Puppetry/Other Forms of Performing Art	41
Commemorative Events	42
Temporary Exhibitions	43
Collaborative Programmes	44
Library & Information	
Publications of The Museum/ Centre	45
Construction	46
Procurement of Equipment	47
Personnel	
New Appointments (Regular/Deputation/Adhoc)	48
Promotions	
Transfers	
Retirement/Repatriation/Resignation	50
Foreign Deputation	
Distinguished Visitors	
Visitors Statistics Annexure- I	51
List of Exhibits Developed Annexure- II	57
List of Popular Science Lectures Annexure- III	62
Committee Members Annexure- IV	67

**जै**सा कि आपको ज्ञात है, देश कोविड-19 महामारी के कारण एक चुनौतीपूर्ण स्थिति का सामना कर रहा था और भारत सरकार के निर्देशानुसार विज्ञान केंद्र महामारी के प्रकोप की दूसरी लहर के दौरान 16 अप्रैल, 2021 से 16 जून, 2021 तक और तीसरी लहर के दौरान 8 जनवरी, 2022 से 15 फरवरी, 2022 तक बंद थे। लॉकडाउन के दौरान कोई आगंतुक नहीं होने और इसके फिर से खुलने और बंद होने से पहले सीमित आगंतुकों के साथ, राष्ट्रीय विज्ञान केंद्र ने अपनी उपग्रह इकाइयों के साथ लाइव स्ट्रीमिंग पर नियमित रूप से कई शैक्षिक कार्यक्रमों की मेज़बानी की और आगंतुकों को डिजिटल माध्यम से विज्ञान शिक्षा की सुविधा प्रदान की। नई ऑनलाइन पहल शुरू करने के कारण सोशल मीडिया पर गतिविधियों की भागीदारी में तेज वृद्धि हुई, जिससे वैज्ञानिक संचार के भविष्य को आकार देने में मदद मिली और हम वर्तमान संकट से आगे निकल गए हैं।

इस चुनौतीपूर्ण स्थिति के बावजूद, राष्ट्रीय विज्ञान केंद्र, दिल्ली ने कुल मिलाकर 2,25,508 लोगों की उपस्थिति दर्ज की। इसी तरह, आंचलिक विज्ञान नगरी, लखनऊ ने भी इस अवधि के दौरान 1,60,413 दर्शक हासकार्वाइल कर एक लाख का आंकड़ा पार कर लिया। आउटरीच कार्यक्रमों में आगंतुकों सहित, कुरुक्षेत्र पैनोरमा और विज्ञान केंद्र को इस अवधि के दौरान 3,91,942 आगंतुक मिले। मुझे यह बताते हुए खुशी हो रही है कि, इस वर्ष के दौरान, उत्तरी क्षेत्र ने कुल मिलाकर सात लाख दर्शकों तक प्रत्यक्ष रूप से पहुंच बनाई।

पालमपुर विज्ञान केंद्र, पालमपुर, हिमाचल प्रदेश उद्घाटन के लिए तैयार है। अल्मोड़ा, उत्तराखंड में उप-क्षेत्रीय विज्ञान केंद्र की स्थापना का कार्य प्रगति पर है। भवन की संरचना का कार्य 100 प्रतिशत पूरा हो चुका है। इस परियोजना के मार्च 2023 तक पूरा होने की संभावना है।

NCSM को हिमाचल प्रदेश विज्ञान प्रौद्योगिकी और पर्यावरण परिषद (HIMCOSTE), शिमला से विज्ञान शिक्षण और रचनात्मक



केंद्र, शिमला, H.P की स्थापना के लिए प्रदर्शनी और सुविधाओं के रूप में सहायता प्रदान करने का अनुरोध प्राप्त हुआ। तदनुसार, NSCD ने व्यावहारिक प्रदर्शन प्रदान करने का आश्वासन दिया और प्रदर्शनी विकास कार्य प्रगति पर है। करीब 80 फीसदी काम पूरा हो चुका है। NSC, दिल्ली को विज्ञान अधिगम और रचनात्मक केंद्र, शिमला में 6 स्मार्ट इलेक्ट्रॉनिक्स प्रदर्शन के निर्माण और स्थापना के लिए HIMCOSTE से अनुरोध प्राप्त हुआ। कार्य पूर्ण किया जा रहा है। HIMCOSTE ने NCSM से शिमला में 50 सीटर डिजिटल तारामंडल की स्थापना करने का अनुरोध किया था। INSC, दिल्ली ने NCSM की ओर से इस परियोजना को अपने हाथ में लिया है। तारामंडल भवन के लिए वास्तुकार के चयन की प्रक्रिया जारी है और उपयुक्त तारामंडल उपकरण के चयन के लिए कार्रवाई शुरू कर दी गई है।

# From Director's Desk

As aware, the country was facing a challenging situation due to COVID-19 pandemic and as per the directions of the Government of India, the science centres were closed during second wave from April 16, 2021 to June 16, 2021 and also during third wave of pandemic from January 8, 2022 to February 15, 2022. With no visitors during the lockdown period and limited visitors since its reopening & before closing, National Science Centre with its satellite units hosted a number of educational programmes regularly on live streaming and facilitated visitors to take full benefit through digital mode. There has been a tremendous increase in participation in activities on social media due to launch of new online initiatives, helping to shape the future of scientific communication as we move past the current crisis.

Despite this challenging situation, National Science Centre, Delhi garnered a overall footfall of 2,25,508. Similarly, the Regional Science City, Lucknow also surpassed one lakh mark by attaining a footfall of 1,60,413 during this period. Including visitors in outreach programmes, Kurukshetra Panorama & Science Centre received 3,91,942 visitors during this period. I am delighted to inform that, in all, the North Zone has surpassed seven lakh reachout during this year.



Setting up of Palampur Science Centre, Palampur, H.P. is complete in all respect. SRSC is now ready for inauguration. Setting up of Sub-Regional Science Centre at Almora, Uttarakhand is progressing well. The structure work of building is 100% completed. The project is likely to be completed by March 2023.

NCSM received a request from Himachal Pradesh

Council for Science Technology and Environment (HIMCOSTE), Shimla for providing help in the form of exhibits and facilities for setting up of Science Learning & Creative Centre, Shimla, H.P. Accordingly, NSCD had assured to provide hands-on exhibits and the exhibit development work is in progress. About 80% of work has been completed. NSC, Delhi has also received a request from HIMCOSTE for fabrication and installation of 6 No. of Smart Electronics' Displays at Science Learning and Creativity Centre, Shimla. The work is under completion. HIMCOSTE requested NCSM to take up the setting up of a 50-Seater Digital Planetarium at Shimla. NSC, Delhi, on behalf of NCSM has taken up the project. The process of architect selection for Planetarium building is on and actions have been initiated for selection of suitable Planetarium equipment.

## RSC Ambala site



अंबाला, हरियाणा में उप-क्षेत्रीय विज्ञान केंद्र की स्थापना, जिसका नाम आर्यभट्ट विज्ञान केंद्र, अंबाला है, को NCSM, HSCSIT और PWD (B&R) के बीच हस्ताक्षरित समझौता ज्ञापन (एमओए) के अनुसार लिया गया और भवन निर्माण कार्य शुरू करने के लिए HSCSIT को आंशिक धनराशि भी स्थानांतरित कर दी गई है। PWD (B&R) हरियाणा सरकार द्वारा निर्माण कार्य प्रगति पर है। भवन, स्थापना और संरचना का कार्य प्लिंथ स्तर तक 100 फीसदी पूरा हो चुका है और भवन संरचना का कार्य चल रहा है। प्रदर्शनी दीर्घाओं और अन्य सुविधाओं की योजना पर कार्य प्रगति पर है।

किला राय पिथौरा, एक किलेबंद परिसर जिसमें कुतुब मीनार, नई दिल्ली शामिल है, में 'भारत की नदियों' पर एक संग्रहालय की स्थापना के लिए प्रारूप RFP बनाने का प्रस्ताव भारतीय पुरातत्व सर्वेक्षण से प्राप्त हुआ। प्रारूप RFP बनाया गया और DG, NCSM को अनुमोदन के लिए भेजा गया। NCSM की ओर से, NSC दिल्ली ने राष्ट्रीय संग्रहालय में प्रदर्शनी स्थलों और सुविधाओं के नवीकरण और प्रमुख विकास के लिए राष्ट्रीय संग्रहालय और CPWD के साथ एक त्रिपक्षीय समझौते पर हस्ताक्षर किए हैं। यह एक पर्यटन मंत्रालय द्वारा वित्तपोषित परियोजना है जिसे NCSM द्वारा क्रियान्वित किया जा रहा है। इस परियोजना के लिए ऑनसाइट संबंधित कार्य और समन्वय NSC, दिल्ली द्वारा किया जा रहा है, प्रतिष्ठापन का काम चल रहा है।

NCSM को NGMA दिल्ली में 3डी प्रक्षेपण मैपिंग मल्टीमीडिया शो की स्थापना के लिए पर्यटन मंत्रालय से एक अनुरोध प्राप्त हुआ। निविदा कार्य NCSM द्वारा निष्पादित किया गया था और अब NCSM की ओर से, NSC दिल्ली NGMA, नई दिल्ली में फैकेड लाइटिंग सहित 3डी प्रक्षेपण मैपिंग मल्टीमीडिया शो की अवधारणा, डिजाइन, आपूर्ति, स्थापना, परीक्षण और प्रवर्तन के कार्यों की निगरानी कर रहा है। 3डी प्रक्षेपण मैपिंग मल्टीमीडिया शो और फेसेड लाइटिंग का काम पूरा होने वाला है।

Setting up of Sub-Regional Science Centre at Ambala, Haryana, named as Aryabhatta Vigyan Kendra, Ambala has been taken up as per Memorandum of Agreement (MoA) signed among NCSM, HSCSIT and PWD (B&R) and part funds have also been transferred to HSCSIT for starting the building construction work. The construction work by PWD (B&R) Govt. of Haryana is under progress. Piling work, foundation and structure work up to plinth level is 100% completed and super structure work is under progress. Planning for exhibition galleries and other facilities is underway.

A proposal for making draft RFP for setting up of a Museum on 'Rivers of India' at Qila Rai Pithora, a fortified complex that includes the Qutb Minar, New Delhi has been received from Archaeological Survey of India. Draft RFP was made and sent to DG, NCSM for approval. On behalf of NCSM, NSC Delhi has signed a tripartite agreement with National Museum and CPWD for renovation and major development of exhibition spaces and facilities at National Museum. This is a Tourism Ministry funded project being executed by NCSM. Onsite related works and coordination for this project is being done by NSC, Delhi. Installation work is going on.

NCSM received a request from Tourism Ministry for setting up of 3D Projection Mapping Multimedia Show at NGMA, New Delhi. The tendering work was executed by NCSM and now on behalf of NCSM, NSC Delhi is supervising the works of Conceptualisation, Design, Supply, Installation, Testing and Commissioning of 3D Projection Mapping Multimedia Show including Façade Lighting at NGMA, New Delhi. The work of 3D Projection Mapping Multimedia Show and Façade Lighting is nearing completion and Façade lighting work has been completed.

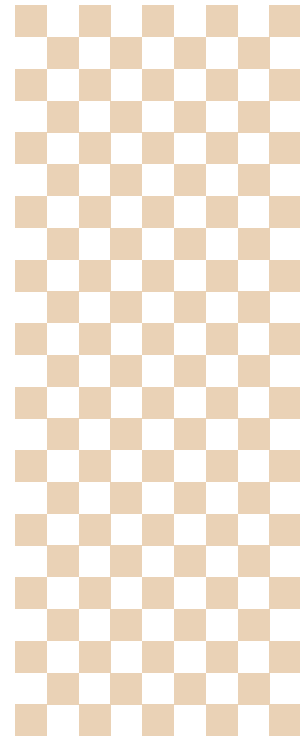
रा. वि. के., दिल्ली को विज्ञान और प्रौद्योगिकी विभाग, राजस्थान सरकार से विज्ञान केंद्र कोटा में 18 फन साइंस की प्रदर्शनी और 11 विज्ञान पार्क की प्रदर्शनी की आपूर्ति के लिए अनुरोध प्राप्त हुआ। यह काम जुलाई 2021 में पूरा हो चुका है। क्षे. वि. के., जयपुर को एनएससी, दिल्ली द्वारा विकसित किया गया था और 2012 में राजस्थान सरकार को सौंप दिया गया था। क्षे. वि. के., जयपुर ने 23 प्रदर्शनियों की मरम्मत के लिए अनुरोध भेजा था जो खगोल विज्ञान और बायोमेडिकल दीर्घाओं का हिस्सा हैं। यह काम अप्रैल 2021 में पूरा किया गया है।

चिकित्सा की पारंपरिक प्रणालियों, विशेष रूप से भारतीय औषधीय प्रणालियों की समृद्ध चिकित्सा विरासत को चित्रित करने के लिए 'पारंपरिक चिकित्सा' नामक एक प्रदर्शनी का विकास और स्थापना पूरी की गई। प्रदर्शनी में ग्राफिक पैनल, मॉडल, मल्टीमीडिया और परस्पर संवादात्मक प्रदर्शन वाले 35 प्रदर्श शामिल हैं। नोबेल पुरस्कार विजेताओं पर एक प्रदर्शनी जनवरी, 2022 को वर्षगांठ दिवस के अवसर पर खोली गई थी। प्रदर्शनी में अल्फ्रेड नोबेल के संक्षिप्त परिचय सहित भौतिकी, रसायन विज्ञान और शरीर विज्ञान या चिकित्सा के क्षेत्र में विजेताओं के काम को चित्रित किया गया है।

NSC, Delhi received a request from Department of Science and Technology, Government of Rajasthan for supply of 18 no. of Fun Science exhibits and 11 no. of Science Park exhibits for Science Centre, Kota. This work has been completed in July 2021. RSC, Jaipur was developed by NSC, Delhi and handed over to Government of Rajasthan in 2012. RSC, Jaipur sent a request for repairing of 23 exhibits which are the part of Astronomy and Biomedical galleries. This work has been completed in April 2021.

Development and installation of an exhibition titled 'Traditional Medicine' to portray the rich medical legacy of Traditional Systems of Medicine particularly Indian Medicinal Systems was completed. The exhibition consists of 35 exhibits containing graphic panels, models, multimedia and interactive exhibits. An exhibition on Nobel Prize Laureates was opened on January, 2022 on the occasion of Anniversary day. The exhibition portrays the winners' work in the field of physics, chemistry and physiology or medicine including brief introduction of Alfred Nobel.





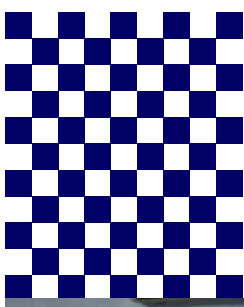
7 अप्रैल, 2021 को गूगल मीट प्लेटफॉर्म पर हार्ट केयर फाउंडेशन ऑफ इंडिया 'पिछले 75 वर्षों में चिकित्सा विज्ञान का विकास' के अध्यक्ष पद्मश्री डॉ. के.के. अग्रवाल द्वारा एक ऑनलाइन व्याख्यान दिया गया। व्याख्यान सह बातचीत को एनएससीटी टीवी के आधिकारिक यूट्यूब चैनल पर भी लाइव स्ट्रीम किया गया। 13 अगस्त, 2021 को 'आजादी का अमृत महोत्सव' विषय के तहत 75वें स्वतंत्रता दिवस समारोह के अवसर पर 'भारत@75 साल' पर एक ऑनलाइन व्याख्यान आयोजित किया गया। राजनीति विज्ञान विभाग के प्रोफेसर दिनेश गहलोत, जय नारायण व्यास विश्वविद्यालय, जोधपुर, राजस्थान ने यह व्याख्यान गूगल मीट ऑनलाइन प्लेटफॉर्म पर दिया। लगभग 100 दर्शक कार्यक्रम में शामिल हुए और वक्ता से बातचीत की।

भारत सरकार के प्रधान वैज्ञानिक सलाहकार और संस्कृति मंत्रालय के कार्यालय के नेतृत्व में डीएसटी, डीबीटी, सीएसआईआर, एमओईएस, डीईई, डीओएस, आईसीएमआर, एआईसीटीई और डीआरडीओ द्वारा संयुक्त रूप से अमृत महोत्सव- विज्ञान, विज्ञान सर्वत्र पूज्यते का आयोजन किया गया। पूरे देश में 75 स्थानों पर एक साथ कार्यक्रम आयोजित किए गए। इस विज्ञान सप्ताह के हिस्से के रूप में, 22 फरवरी से 28 फरवरी, 2022 तक जवाहरलाल नेहरू स्टेडियम के मैदान में एक मेगा एक्सपो और पुस्तक मेला आयोजित किया गया था। रा. वि. स. प. की ओर से राष्ट्रीय विज्ञान केंद्र, दिल्ली ने 51 पैनलों की प्रदर्शनी और विज्ञान शो के साथ भाग लिया। इस कार्यक्रम का उद्घाटन संयुक्त रूप से श्री जी. किशन रेड्डी, माननीय संस्कृति मंत्री, भारत सरकार और डॉ. जितेंद्र सिंह माननीय राज्य मंत्री (स्वतंत्र प्रभार), विज्ञान और प्रौद्योगिकी और पृथ्वी विज्ञान मंत्रालय द्वारा 22 फरवरी, 2022 को किया गया।

An online lecture was given by Padmashri Dr. K. K. Aggarwal, President of the Heart Care Foundation of India 'Development of Medical Science in the past 75 years' on April 7, 2021 on Google meet platform. The lecture cum talk was also streamed live on NSCD TV Official YouTube channel. An online lecture on 'Bharat @75 Years' was organised on the occasion of 75th Independence Day celebration under the theme 'Azadi ka Amrit Mahotsav' on August 13, 2021. The lecture was delivered by Prof. Dinesh Gehlot, Department of Political Science, Jai Narayan Vyas University, Jodhpur, Rajasthan on Google meet online platform. Around 100 viewers joined the programme and interacted with the speaker.

The Amrit Mahotsav- Science, titled Vigyan Sarvatra Pujyate was jointly organised by DST, DBT, CSIR, MoES, DAE, DOS, ICMR, AICTE, and DRDO under the leadership of the Office of the Principal Scientific Adviser to the Government of India and the Ministry of Culture. The programmes were organized simultaneously at 75 locations all over the country. As part of this science week, a mega expo and book fair was held at the grounds of Jawaharlal Nehru Stadium from February 22 to 28, 2022. National Science Centre, Delhi on the behalf of NCSM participated with an exhibition of 51 panels and science shows. The event was jointly inaugurated by Shri G. Kishan Reddy, Hon'ble Minister of Culture, GOI and Dr. Jitendra Singh Hon'ble Minister of State (Independent Charge) of the Ministry of Science and Technology & Earth Sciences on February 22, 2022.





विश्व बौद्धिक संपदा दिवस के अवसर पर 26 अप्रैल, 2021 को 'प्रोटेक्ट योर आइडिया' पर एक ऑनलाइन संवादात्मक सत्र आयोजित किया गया। 11 मई, 2021 को 'लेट्स इनोवेट टू लर्न' विषय पर एक ऑनलाइन व्याख्यान आयोजित किया गया जिसमें दिल्ली विश्वविद्यालय के क्लस्टर इनोवेशन सेंटर के प्रो. पंकज त्यागी ने व्याख्यान दिया। 5 जून, 2021 को विश्व पर्यावरण दिवस के अवसर पर गूगल मीट ऑनलाइन प्लेटफॉर्म पर डॉ. शालिनी ध्यानी, वरिष्ठ वैज्ञानिक, जल प्रौद्योगिकी और प्रबंधन प्रभाग, राष्ट्रीय पर्यावरण इंजीनियरिंग अनुसंधान संस्थान, नागपुर द्वारा 'पारिस्थितिकी तंत्र वहाली: पुनर्कल्पना पर एक ऑनलाइन व्याख्यान दिया गया। 11 जुलाई, 2021 को 'भारत में दशकीय जनगणना: पिछले अभ्यास और भविष्य के परिप्रेक्ष्य' पर एक ऑनलाइन व्याख्यान आयोजित किया गया, व्याख्यान श्री ए.के. सामल, सेवानिवृत्त उप-रजिस्ट्रार जनरल, ओआरजीआई द्वारा गूगल मीट ऑनलाइन प्लेटफॉर्म पर दिया गया था। लगभग 300 प्रतिभागियों ने ऑनलाइन स्ट्रीमिंग पर बातचीत देखी और वक्ता के साथ बातचीत की। 'प्राचीन डीएनए अध्ययन: हमारे अतीत को समझने के लिए एक आधुनिक वैज्ञानिक उपकरण' पर एक ऑनलाइन व्याख्यान 22 जुलाई, 2021 को आयोजित किया गया था। यह व्याख्यान डॉ. के. थंगराज सेंटर फॉर डीएनए फिंगरप्रिंटिंग एंड डायग्नोस्टिक्स, हैदराबाद, तेलंगाना के निदेशक द्वारा गूगल मीट पर ऑनलाइन दिया गया था। उन्होंने अपने व्याख्यान में जॉर्जिया की रानी केतेवन के अवशेषों को खोजने और पहचानने का विशेष संदर्भ दिया। गूगल मीट में 100 से ज्यादा प्रतिभागियों ने हिस्सा लिया और वक्ता से बातचीत की।

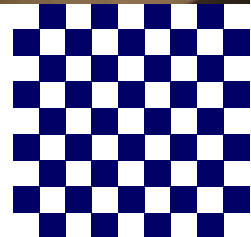
An online interactive session on 'Protect Your Idea' was organised on April 26, 2021 on the occasion of World Intellectual Property Day. An online lecture on 'Let's Innovate to Learn' was organised on May 11, 2021. Prof. Pankaj Tyagi from Cluster Innovation Centre, University of Delhi delivered the lecture. An online lecture was delivered by Dr. Shalini Dhyani, Senior Scientist, Water Technology & Management Division, National Environmental Engineering Research Institute, Nagpur on 'Ecosystem Restoration: Reimagine. Recreate. Restore' on Google meet online platform on the occasion of World Environment Day on June 5, 2021. An online lecture on 'Decennial Census in India: Past Practices and Future Perspective' was organised on July 11, 2021. The lecture was delivered by Shri A. K. Samal, Retd Dy. Registrar General, ORGI on Google meet online platform. Around 300 participants watched the talk on online streaming and interacted with speaker. An online lecture on 'Ancient DNA Studies: A modern scientific tool to understand our past' was organised July 22, 2021. The lecture was delivered by Dr. K. Thangaraj, Director, Centre for DNA Fingerprinting & Diagnostics, Hyderabad, Telangana on Google meet online platform. He made special reference of finding and identifying the relics of Queen Ketevan of Georgia in his talk. More than 100 participants joined on Google meet and interacted with the speaker.

28 सितंबर, 2021 को 'अंडरवाटर आर्कियोलॉजी इन इंडिया' पर एक ऑनलाइन व्याख्यान आयोजित किया गया। डॉ. आलोक त्रिपाठी, अतिरिक्त महानिदेशक, भारतीय पुरातत्व सर्वेक्षण ने व्याख्यान दिया और दर्शकों के साथ बातचीत की। 7 अक्टूबर, 2021 को डॉ. यतन पाल सिंह बल्हारा, अतिरिक्त प्रोफेसर, एम्स, नई दिल्ली द्वारा 'इंटरनेट, कोविड एंड अस: एक्सप्लोरेशन द इंप्लीकेशन्स' पर एक लोकप्रिय व्याख्यान दिया गया। प्रोफेसर रजत मित्रा, एमिटी यूनिवर्सिटी नोएडा ने 8 अक्टूबर, 2021 को 'माई एक्सपीरियंस एज ए साइकोलॉजिस्ट वर्किंग इन पुलिस एंड जेल्स' पर एक लोकप्रिय व्याख्यान दिया। 31 अक्टूबर, 2021 को राष्ट्रीय एकता दिवस के अवसर पर सरदार पटेल की जयंती मनाने के लिए दिल्ली विश्वविद्यालय के प्रोफेसर आशीष कुमार शुक्ला द्वारा 'द स्टोरी ऑफ यूनाइटेड इंडिया' पर एक ऑनलाइन लोकप्रिय व्याख्यान दिया गया। इन कार्यक्रमों को एनएससीडी टीवी के आधिकारिक यूट्यूब चैनल और एनएससीडी के फेसबुक पेज पर लाइव स्ट्रीम किया गया।

विश्व विज्ञान दिवस के अवसर पर 10 नवंबर, 2021 को एक पैनल चर्चा इस बात पर केंद्रित थी कि विज्ञान के सीमांत विचार इस ग्रह को रहने के लिए एक बेहतर जगह बनाने में कैसे मदद कर सकते हैं। डॉ. टी. वी. वेंकटेश्वरन, वैज्ञानिक, विज्ञान प्रसार, नोएडा; डॉ. श्रीधर शिव सुब्बू, वैज्ञानिक, सीएसआईआर - इंस्टीट्यूट ऑफ जीनोमिक्स एंड इंटीग्रेटेड बायोलॉजी, नई दिल्ली; प्रो. (डॉ.) वेणु गोपाल अचंता, निदेशक, सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला, नई दिल्ली और डॉ. राजीव शर्मा, वैज्ञानिक, विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार ने पैनलिस्ट के रूप में भाग लिया।

An online lecture on 'Underwater Archaeology in India' was organised on September 28, 2021. Dr. Alok Tripathi, Additional Director-General, Archaeological Survey of India delivered the lecture and interacted with viewers. A popular lecture on 'Internet, COVID and Us: Exploring the Implications' was delivered by Dr. Yatan Pal Singh Balhara, Additional Professor, AIIMS, New Delhi on October 7, 2021. Prof. Rajat Mitra, Faculty, Amity University Noida delivered a popular talk on 'My Experience as a psychologist working in with police and prisons' on October 8, 2021. An online popular lecture on 'The Story of United India' was delivered by Prof. Ashish Kumar Shukla, Delhi University to commemorate the birth anniversary of Sardar Patel on the occasion of National Unity Day on October 31, 2021. These programmes were streamed live on NSCD TV Official YouTube channel and Facebook Page of NSCD.

A panel discussion on November 10, 2021 on the occasion of World Science Day centred on how frontier ideas of sciences can help and make this planet a better place to live. Dr. T. V. Venkateswaran, Scientist, Vigyan Prasar, NOIDA; Dr. Sridhar Siva Subbu, Scientist, CSIR - Institute of Genomics and Integrated Biology, New Delhi; Prof. (Dr.) Venu Gopal Achanta, Director, CSIR-National Physical Laboratory, New Delhi & Dr. Rajiv Sharma, Scientist, Department of Science & Technology, Govt. of India participated as panellist.



कार्यक्रम को एनएससीडी टीवी के आधिकारिक यूट्यूब चैनल और एनएससीडी के फेसबुक पेज पर लाइव स्ट्रीम किया गया। 25 जनवरी, 2022 को एयर वाइस मार्शल (सेवानिवृत्त) सूर्यकांत चिंतामन चाफेकर द्वारा 'हिमालय एडवेंचर' पर एक ऑनलाइन लोकप्रिय व्याख्यान दिया गया। उन्होंने ऊंचाई वाले हवाई क्षेत्र के संचालन के बारे में व्याख्या दिया और दर्शकों से बातचीत की। डॉ. आर.के. कोटनाला, मुख्य वैज्ञानिक (पूर्व), एनपीएल, नई दिल्ली और अध्यक्ष, परीक्षण और अंशांकन प्रयोगशालाओं के लिए राष्ट्रीय प्रत्यायन बोर्ड (एनएबीएल) गुरुग्राम, द्वारा 'एरा ऑफ़ रेडियोएक्टिव टू हाइड्रोएक्टिव ग्रीन एनर्जी टू सेव अर्थ' पर एक ऑनलाइन व्याख्यान 28 फरवरी, 2022 को दिया गया। जेम्स स्पेस टेलीस्कोप पर एक ऑनलाइन कार्यशाला 31 जनवरी, 2022 को आयोजित की गई, कार्यशाला के दौरान छात्रों ने जेम्स स्पेस टेलीस्कोप की मूल बातें, अंतरिक्ष में इसकी आवश्यकता और उपयोगिता को सीखा। 4 फरवरी, 2022 को छात्रों के लिए 'रोबोटिक्स' पर इंटरएक्टिव वर्कशॉप का आयोजन किया गया, प्रतिभागियों को EV3 लेगो प्रोग्रामिंग का उपयोग करते हुए विभिन्न रोबोटिक्स किट की व्याख्या और प्रदर्शन दिया गया।

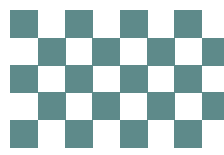


इनोवेशन फेस्टिवल 25 और 26 मार्च, 2022 को आयोजित किया गया था। इस कार्यक्रम को डिजिटल मीडिया में प्रकाशित किया गया और उत्सव के दौरान विभिन्न कार्यक्रमों और प्रतियोगिताओं में भाग लेने के लिए प्रविष्टियां आमंत्रित की गई थीं। इस महोत्सव का उद्घाटन 25 मार्च, 2022 को दिल्ली विश्वविद्यालय के क्लस्टर इनोवेशन सेंटर के निदेशक प्रोफेसर दीनबन्धु साहू ने किया था। उन्होंने 'विज्ञान, प्रौद्योगिकी और जीवन को प्रभावित करने वाले नवाचार' पर एक लोकप्रिय व्याख्यान भी दिया। कला, शिल्प, विज्ञान और प्रौद्योगिकी और रोबोटिक के क्षेत्र से 26 नवप्रवर्तकों और 5 कंपनियों ने महोत्सव में अपने अभिनव कार्यों का प्रदर्शन किया। विशेषज्ञों के एक पैनल ने उनके प्रोजेक्ट कार्य का मूल्यांकन किया और संबंधित श्रेणियों में विजेताओं का चयन किया। 7 परियोजनाओं को 'मेक इट एट साइंस सेंटर' श्रेणी में प्रदर्शित किया गया, जिन्होंने कला, मूर्तिकला और स्कैप से रचनात्मकता का प्रदर्शन किया। मेले में बड़ी संख्या में छात्र-छात्राएं एवं आम आगंतुक पहुंचे और लाभान्वित हुए।

The programme was streamed live on NSCD TV Official YouTube channel and Facebook Page of NSCD. An online popular lecture on 'Himalaya Adventure' was delivered on January 25, 2022 by Air Vice Marshal (Retd.) Suryakant Chintaman Chafekar. He talked about high altitude airfield operations and interacted with viewers. An online lecture on 'Era of Radioactive to Hydroactive Green Energy to Save Earth' was delivered by Dr. R.K. Kotnala, Chief Scientist(Ex), NPL, New Delhi and Chairman, National Accreditation Board for testing and Calibration laboratories(NABL), Gurugram on February 28, 2022. An online workshop on 'Space Telescope' was organised on January 31, 2022. During the workshop students learnt basics of space telescope, its need & utility in space. Interactive workshop on 'Robotics' was organised for Students on February 4, 2022. The explanation and demonstration of various robotics kits using EV3 Lego programming was given to participants. Innovation Festival was organised on March 25 & 26, 2022. The event was published in digital media and entries were invited to participate in different events and contests during the festival.

The festival was inaugurated by Prof. Dinabandhu Sahoo, Director Cluster Innovation Centre, University of Delhi on March 25, 2022. He delivered a popular talk on 'Science, Technology and Innovation Impacting the Lives'. 26 innovators and 5 companies from the field of art, craft, science, and technology and robotic displayed their innovative works in the festival. A panel of experts evaluated their project work and selected winners in respective categories. 7 projects displayed in 'Make it at Science Centre' category which showcased the creativity in arts, sculpture & building from scrap. A large number of students and general visitor visited the fair and get benefitted.

RSC, Lucknow organised an online quiz on 'Freedom: A Fundamental Right' on April 7, 2021 for school students. Online slogan writing contest on 'Our Great Nation' was organised on April 29, 2021. Online lecture on 'Bharatiya Swatantrta ke Vyapak Aayam' was organised on May 25, 2021. Online quiz on 'The Champions of Freedom' was organised on May 31, 2021. Online quiz on 'Our Constitution' was organised on June 17, 2021 and another online quiz on 'Independence & Freedom Fighter' was organised on June 30, 2021. Online slogan writing contest on '75th Year of Independence: Achievement in Science & Technology' was organised on July 6, 2021. Online poster making contest on 'Independence of 75th Year & Our Achievement' was organised for school children on July 30, 2021. Online slogan writing contest on 'Aatm Nirbhar Bharat' was organised August 6, 2021.



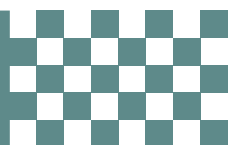
आ. वि. न., लखनऊ ने 7 अप्रैल, 2021 को स्कूली छात्रों के लिए 'स्वतंत्रता: एक मौलिक अधिकार' पर एक ऑनलाइन प्रश्नोत्तरी का आयोजन किया। 29 अप्रैल, 2021 को 'हमारा महान राष्ट्र' पर ऑनलाइन नारा लेखन प्रतियोगिता का आयोजन किया गया। 25 मई, 2021 को 'भारतीय स्वतंत्रता के व्यापक आयाम' पर ऑनलाइन व्याख्यान का आयोजन किया गया। 31 मई, 2021 को 'द चैंपियंस ऑफ फ्रीडम' पर ऑनलाइन प्रश्नोत्तरी का आयोजन किया गया। 'हमारा संविधान' पर ऑनलाइन प्रश्नोत्तरी का आयोजन 17 जून, 2021 को और एक अन्य ऑनलाइन प्रश्नोत्तरी का आयोजन 'स्वतंत्रता और स्वतंत्रता सेनानी' पर 30 जून, 2021 को किया गया। '75वें स्वतंत्रता वर्ष: विज्ञान में उपलब्धि' पर ऑनलाइन नारा लेखन प्रतियोगिता का आयोजन 6 जुलाई, 2021 को किया गया। 30 जुलाई, 2021 को स्कूली बच्चों के लिए '75वें वर्ष की स्वतंत्रता और हमारी उपलब्धि' पर ऑनलाइन पोस्टर बनाना प्रतियोगिता का आयोजन किया गया। 6 अगस्त, 2021 को 'आत्मनिर्भर भारत' पर ऑनलाइन नारा लेखन प्रतियोगिता का आयोजन किया गया।

30 सितंबर, 2021 को 'स्वतंत्रता के 75 वर्ष' पर एक ऑनलाइन कविता लेखन प्रतियोगिता आयोजित की गई। स्कूली छात्रों के लिए 22 दिसंबर, 2021 को 'स्वतंत्रता और समानता' पर ऑनलाइन प्रश्नोत्तरी का आयोजन किया गया। 29 दिसंबर, 2021 को 'हमारा महान देशभक्त' पर स्केच मेकिंग प्रतियोगिता का आयोजन किया गया। 18 जनवरी, 2022 को 'आजादी का अमृत महोत्सव' पर ऑनलाइन नारा लेखन प्रतियोगिता का आयोजन किया गया। 26 मार्च, 2022 को 'स्वतंत्रत भारत का संविधान' पर ऑनलाइन प्रश्नोत्तरी का आयोजन किया गया। आ. वि. न., लखनऊ द्वारा विभिन्न विषयों पर लोकप्रिय वार्ताओं की एक श्रृंखला आयोजित की गई। 22 अप्रैल, 2021 को 'हमारी पृथ्वी को पुनर्स्थापित करें' पर व्याख्यान; 5 जून, 2021 को 'इकोसिस्टम रिस्टोरेशन: रीडमेजिन, रिक्रिएट, रिस्टोर' पर व्याख्यान; 16 सितंबर, 2021 को 'ओजोन फॉर लाइफ: 36 इयर्स ऑफ ओजोन लेयर प्रोटेक्शन' पर व्याख्यान और 28 सितंबर, 2021 को 'विज्ञान, समाज और संस्कृति के रूप में विज्ञान' पर एक लोकप्रिय व्याख्यान का आयोजन किया गया। 'कोविड-19: जानें' पर एक वेबिनार का आयोजन 28 फरवरी, 2022 को गूगल मीट के माध्यम से नेशनल एकेडमी ऑफ साइंसेज इंडिया (एनएसआई) लखनऊ चैप्टर के साथ संयुक्त रूप से किया गया। वेबिनार में प्रसिद्ध डॉक्टरों, मेडिकल छात्रों और आम जनता सहित 60 प्रतिभागियों ने भाग लिया। 8 मार्च, 2022 को '#BreakTheBias' पर एक और वेबिनार आयोजित किया गया, जिसमें 150 महिला प्रतिभागी शामिल हुईं।

कु.पै.वि.के., कुरुक्षेत्र ने 5 फरवरी, 2022 को 'स्वदेशी-पारंपरिक विज्ञान और प्रौद्योगिकी: आविष्कार और नवाचार' पर एक लोकप्रिय व्याख्यान का आयोजन किया। 'भारतीय विज्ञान और प्रौद्योगिकी की दुनिया से 75 मील के पथर' पर एक और व्याख्यान 24 फरवरी, 2022 को आजादी का अमृत महोत्सव उत्सव के तहत आयोजित किया गया था। 26 फरवरी 2022 को 'विज्ञान साहित्य' पर व्याख्यान का आयोजन किया गया

An online poem writing contest on '75 Years of Independence' was organised on September 30, 2021. Online quiz on 'Freedom & Equality' was organised on December 22, 2021 for school students. Sketch making contest on 'Our Great Patriot' was organised on December 29, 2021. Online slogan writing contest on 'Azadi ka Amrit Mahotsav' was organised on January 18, 2022. Online quiz on 'Constitution of Independence India' was organised on March 26, 2022. A series of popular talks on various themes were organised by RSC, Lucknow. The lecture on 'Restore our Earth' on April 22, 2021; lecture on 'Ecosystem Restoration: Reimagine, Recreate, Restore' on June 5, 2021; lecture on 'Ozone for Life: 36 Years of Ozone Layer Protection' on September 16, 2021 and a popular lecture on 'Science, Society & Science as Culture' was organised on September 28, 2021. A webinar on 'COVID-19: Learn to Live with Virus' was organized jointly with National Academy of Sciences India (NASI) Lucknow Chapter through Google Meet on February 28, 2022. 60 participants including renowned doctors, medical students and general public attended the webinar. Another webinar on '#BreakTheBias' was organised on March 8, 2022 in which 150 female participants attended the same.

KPSC, Kurukshetra organised a popular lecture on 'Swadeshi-Paramparik Vigyan & Praudyogiki: Inventions and Innovations' on February 5, 2022. Another lecture on '75 Milestones from the world of Indian Science & Technology' was organised on February 24, 2022 under Azadi Ka Amrit Mahotsava celebration. A lecture on 'Science Literature' was organised on February 26, 2022 in which 200 audiences attended the programme. Painting & essay writing contest on 'India@75: Heritage in Our Hands' was organised on March 11, 2022 in collaboration with the Indian National Trust for Art and Cultural Heritage (INTACH). Nukkad Natak was performed at KPSC on March 27, 2022 as part of celebration of 'Azadi Ka Amrit Mahotsava'.



जिसमें 200 श्रोताओं ने कार्यक्रम में भाग लिया। इंडियन नेशनल ट्रस्ट फॉर आर्ट एंड कल्चरल हेरिटेज (INTACH) के सहयोग से 11 मार्च, 2022 को 'इंडिया @ 75: हेरिटेज इन अवर हैंड्स' पर पेंटिंग और निबंध लेखन प्रतियोगिता का आयोजन किया गया। कु.पै.वि.के., में 27 मार्च, 2022 को 'आजादी का अमृत महोत्सव' के उत्सव के तहत नुक्कड़ नाटक का प्रदर्शन किया गया। इंडियन नेशनल ट्रस्ट फॉर आर्ट एंड कल्चरल हेरिटेज (INTACH) के सहयोग से 8 अक्टूबर, 2021 को 'भारत की वैज्ञानिक विरासत और स्मारक' पर एक लोकप्रिय व्याख्यान आयोजित किया गया। 23 फरवरी, 2022 को 'फ्रॉम द एनल्स ऑफ हिस्ट्री ऑफ साइंस' पर एक लोकप्रिय व्याख्यान का आयोजन किया गया। 27 फरवरी, 2022 को 'द रोड फॉरवर्ड फॉर नेक्स्ट 25 इयर्स ऑफ इंडियन साइंस एंड टेक्नोलॉजी' पर एक अन्य व्याख्यान का आयोजन किया गया।

इंजीनियरिंग मेला 22 फरवरी से 24 फरवरी, 2022 तक 'विज्ञान, प्रौद्योगिकी और इंजीनियरिंग' विषय पर आयोजित किया गया। छात्रों ने अपनी परियोजनाओं, मॉडलों और प्रदर्शनियों और शैक्षिक किटों को प्रदर्शित किया। मेले का उद्घाटन कुरुक्षेत्र विश्वविद्यालय कुरुक्षेत्र के कुलपति डॉ. सोमनाथ सचदेवा ने किया। 100 से अधिक छात्रों और शिक्षकों ने भाग लिया और 32 प्रोजेक्ट प्रस्तुत किए गए। मेले में करीब 3500 लोगों ने भ्रमण किया।

इसके अलावा, पृथ्वी दिवस (22 अप्रैल), राष्ट्रीय प्रौद्योगिकी दिवस (11 मई), अंतर्राष्ट्रीय संग्रहालय दिवस (18 मई), विश्व पर्यावरण दिवस (5 जून), अंतर्राष्ट्रीय योग दिवस (21 जून), विश्व ओजोन दिवस (16 सितंबर), विश्व विज्ञान दिवस (10 नवंबर), राष्ट्रीय विज्ञान दिवस (28 फरवरी), अंतर्राष्ट्रीय महिला दिवस (8 मार्च) और विश्व जल दिवस (22 मार्च) के उपलक्ष्य में बड़ी संख्या में ऑनलाइन शैक्षिक कार्यक्रम आयोजित किए गए। मुझे लगता है कि संदेश समाप्त करने से पूर्व, जब तक कि मैं रा. वि. के. दिल्ली, आ. वि. न., लखनऊ और कु.पै.वि.के. कुरुक्षेत्र के अपने साथी अधिकारियों और कर्मचारियों के अथक प्रयासों को श्रेय नहीं देता हूँ, जिन्होंने समर्पण, कर्तव्यनिष्ठा और प्रतिबद्धता का प्रदर्शन कर कोरोना महामारी की स्थिति में भी अथक प्रयास कर पूर्व निर्धारित लक्ष्यों को प्राप्त किया। मैं हमारे मुख्यालय रा. वि. स. प., रा. वि. के. की सलाहकार समितियों, कार्यकारी समिति, रा. वि. के. की कार्यक्रम और योजना समिति और आ. वि. न., लखनऊ और कु.पै.वि.के. कुरुक्षेत्र की स्थानीय सलाहकार समितियों का भी आभारी हूँ।

मैं आने वाले समय में कई और सफलताओं को आपसे साझा करने के लिए उत्सुक हूँ।

निदेशक  
रा. वि. के. दिल्ली



A popular lecture on 'Scientific Heritage & Monuments of India' was organised on October 8, 2021 in collaboration with Indian National Trust for Art and Cultural Heritage (INTACH). A popular lecture on 'From the Annals of History of Science' was organised on February 23, 2022. Another lecture on 'The Road ahead for next 25 years of Indian Science & Technology' was organised on February 27, 2022.

Engineering Fair was organised from February 22 to 24, 2022 on the theme 'Science, Technology & Engineering'. Students displayed their projects, models, exhibits and educational kits. Dr. Somnath Sachdeva, Vice Chancellor, Kurukshetra University, Kurukshetra inaugurated the fair. More than 100 students and teachers participated and 32 projects were presented. About 3500 visitors visited the fair.

In addition, large number of online educational programmes were organized to commemorate Earth Day (April 22), National Technology Day (May 11), International Museum Day (May 18), World Environment Day (June 5), International Yoga Day (June 21), World Ozone Day (September 16), World Science Day (November 10), National Science Day (February 28), International Women Day (March 8) and World Water Day (March 22).

Before I conclude, I will be failed in my duties, if I do not credit the untiring efforts that my fellow officers and staff members of NSCD, RSCL and KPSC who have put in and extended unqualified support besides exhibiting dedication, passion and commitment which has been solely responsible for the results that are seen. I also owe my indebtedness to our headquarter at NCSM, advisory committees of NSCD, the Executive Committee, Programme and Planning Committee of NSCD and Local Advisory Committees of RSCL and KPSC.

Looking forward to share many more successes during the years to come.

Director  
National Science Centre, Delhi

NATIONAL SCIENCE CENTRE  
Delhi

REGIONAL  
SCIENCE CITY  
LUCKNOW



KURUKSHETRA  
PANORAMA &  
SCIENCE CENTRE  
KURUKSHETRA

## BRIEF OF PROGRAMMES, ACTIVITIES, COLLOBORATIONS



An online lecture was given by Padmashri Dr. K. K. Aggarwal, President of the Heart Care Foundation of India 'Development of Medical Science in the past 75 years' on April 7, 2021 on Google meet platform. The lecture cum talk was also streamed live on NSCD TV Official YouTube channel.

An online lecture on 'Bharat @75 Years' was organised on the occasion of 75th Independence Day celebration under the theme 'Azadi ka Amrit Mahotsav' on August 13, 2021. The lecture was delivered by Prof. Dinesh Gehlot, Department of Political Science, Jai Narayan Vyas University, Jodhpur, Rajasthan on Google meet online platform. Around 100 viewers joined the programme and interacted with the speaker.

An online poster making contest on 'Bharat @75 Years' was organised on the occasion of 'Azadi ka Amrit Mahotsav' on January 26, 2022. During this contest, students made poster on given topic and submitted them online using Google form. 311 students from various schools participated in this contest. Government of India is organising a year-long programme 'Azadi Ka Amrit Mahotsav' to pay homage and showcase India's achievements in 75

years of Independence. The Government of India's science and technology organizations in close partnership with state agencies are leveraging this 'Mahotsav' as an opportunity to take the science and technology to common man. The Amrit Mahotsav- Science, titled Vigyan Sarvatra Pujyate was jointly organised by DST, DBT, CSIR, MoES, DAE, DOS, ICMR, AICTE, and DRDO under the leadership of the Office of the Principal Scientific Adviser to the Government of India of India and the Ministry of Culture.

The programmes were organized simultaneously at 75 locations all over the country. As part of this science week, a mega expo and book fair was held at the grounds of Jawaharlal Nehru Stadium from February 22 to 28, 2022. National Science Centre, Delhi on the behalf of NCSM participated with an exhibition of 51 panels and science shows. The event was jointly inaugurated by Shri G. Kishan Reddy, Hon'ble Minister of Culture, GOI and Dr. Jitendra Singh Hon'ble Minister of State (Independent Charge) of the Ministry of Science and Technology & Earth Sciences on February 22, 2022.



An online interactive session on 'Protect Your Idea' was organised on April 26, 2021 on the occasion of World Intellectual Property Day. The session experts discussed the importance of patents and copyrights as well as its process and criteria. Total 20 students participated in this session. An online lecture on 'Let's Innovate to Learn' was organised on May 11, 2021. Prof. Pankaj Tyagi from Cluster Innovation Centre, University of Delhi delivered the lecture. He shared his views on development of innovative ideas and their implementation. During the interaction, the speaker interacted with the viewers. A large number of people watched it live on NSCD TV YouTube channel.

An online lecture was delivered by Dr. Shalini Dhyani, Senior Scientist, Water Technology & Management Division, National Environmental Engineering Research Institute, Nagpur on 'Ecosystem Restoration: Reimagine. Recreate. Restore' on Google meet online platform on the occasion of World Environment Day on June 5, 2021. The lecture cum talk was also streamed live on NSCD TV Official YouTube channel. Dr. Shalini Dhyani shared her views on ecosystem restoration and its role to protect the environment.



An online lecture on 'Decennial Census in India: Past Practices and Future Perspective' was organised on July 11, 2021. The lecture was delivered by Shri A. K. Samal, Retd Dy. Registrar General, ORGI on Google meet online platform. Around 300 participants watched the talk on online streaming and interacted with speaker.

An online lecture on 'Ancient DNA Studies: A modern scientific tool to understand our past' was organised July 22, 2021. The lecture was delivered by Dr. K. Thangaraj, Director, Centre for DNA Fingerprinting & Diagnostics, Hyderabad, Telangana on Google meet online platform. He made special reference of finding and identifying the relics of Queen Ketevan of Georgia in his talk. More than 100 participants joined on Google meet and interacted with the speaker.



An online lecture on 'Underwater Archaeology in India' was organised on September 28, 2021. Dr. Alok Tripathi, Additional Director-General, Archaeological Survey of India delivered the lecture and interacted with viewers. The lecture was streamed live on NSCD TV Official channel and large number of people across the country viewed this interaction.

A popular talk on 'Gandhi ji and Science' was delivered by Sh. Uttam Kumar Sinha, Joint Director, National Gandhi Museum, New Delhi on October 1, 2021. A popular lecture on 'Internet, COVID and Us: Exploring the Implications' was delivered by Dr. Yatan Pal Singh Balhara, Additional Professor, AllMS, New Delhi on October 7, 2021. Prof. Rajat Mitra, Faculty, Amity University Noida delivered a popular talk on 'My Experience as a psychologist working in with police and prisons' on October 8, 2021. An online popular lecture on 'The Story of United India' was delivered by Prof. Ashish Kumar Shukla, Delhi University to commemorate the birth anniversary of Sardar Patel on the occasion of National Unity Day on October 31, 2021. These programmes were streamed live on NSCD TV Official YouTube channel and Facebook Page of NSCD.

A panel discussion on November 10, 2021 on the occasion of World Science Day centred on how frontier ideas of sciences can help and make this planet a better place to live. Dr. T. V. Venkateswaran, Scientist, Vigyan Prasar, NOIDA; Dr. Sridhar Siva Subbu, Scientist, CSIR - Institute of Genomics and Integrated Biology, New Delhi; Prof. (Dr.) Venu Gopal Achanta, Director, CSIR-National Physical Laboratory, New Delhi & Dr. Rajiv Sharma, Scientist, Department of Science & Technology, Govt. of India participated as panellist. The programme was streamed live on NSCD TV Official YouTube channel and Facebook Page of NSCD. An online popular lecture on 'Himalaya Adventure' was delivered on January 25, 2022 by Air Vice Marshal (Retd.) Suryakant Chintaman Chafekar. He talked about high altitude airfield operations and interacted with viewers. The lecture was streamed live on NSCD TV Official YouTube channel and Facebook Page of NSCD. About 700 viewers attended the lecture.



An online lecture on 'Era of Radioactive to Hydroactive Green Energy to Save Earth" was delivered by Dr. R.K. Kotnala, Chief Scientist(Ex), NPL, New Delhi and Chairman, National Accreditation Board for testing and Calibration laboratories(NABL), Gurugram on February 28, 2022. The lecture was also streamed live on NSCD TV Official YouTube channel. Approximately 100 people across the country joined the interaction on Google meet and a large number of people watched it live on centre's YouTube channel.

National Science Centre, Delhi organized 'After the Dark – Sky Observation Programme' for enthusiastic star spectators. The children, parents and youngsters were invited in evening on February 20, 2022. The participants saw Moon & its craters, through telescope. About 100 people attended the programme. Similar programme was organised on March 12 & 13, 2022 in which 300 people participated.

Innovation Festival was organised on March 25 & 26, 2022. The event was published on digital media and entries were invited to participate in different events and contests during the festival. The festival was inaugurated by Prof. Dinabandhu Sahoo, Director Cluster Innovation Centre, University of Delhi on March 25, 2022. He delivered a popular talk on 'Science, Technology and Innovation Impacting the Lives'. 26 innovators and 5 companies from the field of art, craft, science, and technology and robotic displayed their innovative works in the festival. A panel of experts evaluated their project work and selected winners in respective categories. 7 projects displayed in 'Make it at Science Centre' category which showcased the creativity in arts, sculpture & building from scrap. A large number of students and general visitor visited the fair and get benefitted.

An interactive online workshop on 'Artificial Intelligence' was organised on April 15 & 16, 2021. The participants in the workshop were students, innovators & professionals. Basics of self-improving algorithms, machine learning, big data & pattern recognition was also taught in an interactive way. During the workshop, participants learnt the utility of AI by doing hands-on activities. More than 120 participants joined the workshop.

To commemorate International Museum Day on May 18, 2021, NSCD organised an online seminar on 'Collections Make Connections'. The seminar was streamed live on NSCD TV Official YouTube channel. During the seminar, participant showcased their collection of artefacts. The postal stamps, brass plate with carving, microliths from the Deccan Plateau and old coins were the collections exhibited during the programme. The participants briefed the story of collection and its significance. A large number of people watched it live on NSCD TV YouTube channel.

An online STEM workshop for Girl Students was organised on June 30 & July 1, 2021. The main objective of this workshop was to acquaint girls with STEM education. During this workshop, two sessions were conducted on Science around us, & Sustainable Technology. 120 students from various schools/institute participated in this workshop.

An offline workshop on 'Robotics' was organised for Girl Students on July 4, 2021. The participants were trained in assembly and programming of various robotics kits using Lego kits. They made Castor Bot, Bumper Car and Line follower. The participants also got familiar with different sensors and their uses in kit development. The students actively participated in this offline workshop.





Online astronomy programmes using Science on Sphere facility were conducted for school students. In addition, large number of online educational programmes were organized to commemorate World Ozone Day (16th September), World Science Day (10th November), World AIDS Day (1st December), National Mathematics Day (22nd December) and National Science Day (28th February).

Most of the videos of these programmes were uploaded on NSCD TV, which is the official YouTube Channel of NSCD, for public viewing.

An online STEAM workshop was organised on July 30 & 31, 2021 for school students. The objective of this program was to involve the participants in critical thinking process and guide them to use engineering & technology in designing of creative projects to solve the real-world problems. During the workshop, five hands-on sessions were conducted on Science around us, Sustainable Technology, Magic of Engineering, Digital Arts and Fun with Mathematics. 58 students from various schools/institutes participated in this workshop.

An online workshop on 'Space Telescope' was organised on January 31, 2022. During the workshop students learnt basics of space telescope, its need & utility in space. A paper model of James Space Web Telescope was fabricated during the workshop. 41 students from various schools participated in this workshop.

Interactive workshop on 'Robotics' was organised for Students on February 4, 2022. The explanation and demonstration of various robotics kits using EV3 Lego programming was given to participants. The demonstration of Castor Bot and Line follower was also arranged. The participants also get familiar with different sensors and their uses in kit development. 20 students actively participated in this workshop.

Online Summer Vacation Camps for school students were organised in June 2021. The camps were organised in four streams - Astro Lab, Science at Home, Fun with Botany & Basic of Website Development. During the camps students learnt scientific concepts while performing hands-on activities using material readily available at home. 26 students from various schools participated in summer vacation camps.

Tool operation workshop for members of Innovation Space was organised on October 23 & 24, 2021. During this workshop, participants learnt the importance of measurement, handling of electronics tools. They were given exposure of equipment used in Biotechnology Lab. The participants made innovative projects using available materials and tools.

Interactive workshops on 'Development & use of Low Cost Teaching Aid' was organised for in-service teachers on November 10, 2021. The participating teachers were trained in development of teaching aids on Inertia, Air Pressure and Energy. 70 teachers from various schools participated in the workshop.

Workshop on 'Comic making on digital safety' was organised on November 20 & 21, 2021 for students. During the workshop basic training of making a comic book and telling a story using cartoons was provided to students. The students narrated and drew their stories on digital and social media crime which they come across in their life time in the form of comic booklet. 20 students participated in the workshop.

A training programme for staff of Regional Science Centre, Dehradun was organised from

November 18 to 20, 2021. During the training programme, the staff was given training on handling and use of telescope for conduction of astronomy awareness programmes.

An online workshop on 'Learning Physics at Home' was organised on December 2, 2021 in which participants learnt the scientific principles by performing simple experiments using household material. Total 50 participants participated in the programme.

An online workshop on 'Maths is Fun' was organised on December 22, 2021 to commemorate Birth Anniversary of Indian mathematician Srinivasa Ramanujan on the occasion of National Mathematics Day. During the workshop participants made low cost mathematical teaching aids and also presented their innovative ideas for development of new teaching aids. Around 100 teachers from various schools of Delhi & NCR participated in the workshop.

An online session on 'Basics of Biotechnology' was organised on January 20, 2022. During the session, students learnt basic protocols of biotechnology lab and a demonstration of biotech lab equipment. A virtual tour of biotechnology lab of NSC, Delhi was also organised for students. 20 students from various schools participated in the session.

An online student's seminar on 'Combating Viruses: Innovative Ways' was organised on January 24, 2022. During the seminar, participants presented their innovative ideas on the various techniques for combating viruses and viral infection in humans. Students from various Colleges and schools participated in this seminar.

Teachers' Training Programme on 'Development of Low Cost Teaching Aid' was organised for in-service teachers on February 28, 2022. The participating teachers were trained in development of teaching aids on Inertia, Air Pressure and Energy. Total 70 teachers from various schools participated in the training.

Special visit for children from Probation Homes of Delhi (Juvenile delinquents) was organized on November 14, 2021 in collaboration with the National Institute of Public Cooperation and Child Development (NIPCCD), functioning under the Ministry of Women and Child Development. Children visited galleries and facilities of the Centre like Fantasy Ride, 3D Show, Holoshow and Science Show. A science quiz programme was also conducted and winners were given souvenirs.

A special focus was created, under the directives of Ministry of Culture, to expose the science centre to the Under-privileged Children of the society. Under this program, several Non-Governmental Organizations were roped-in to mobilize and bring in these children who otherwise have no avenues for such kind of scientific exposure or have never visited NSCD to create inquisitiveness among them in science and technology. Large number of children benefitted from this facility.

Film shows, painting contests, quizzes on mental health were organised from October 5 to 10, 2021 during World Mental Health Week programme. An open discussion on 'Gender Equality Today for Sustainable Tomorrow' was organised on the occasion of International Women Day on March 8, 2022. The objective was to create awareness towards women safety and a call to action for accelerating gender parity among the general populace. Women staff members of the Centre & female visitors participated in the programme. An open house quiz was also conducted. Total 30 women participated in the event.



Computer Training Programs etc. Painting contests, science experiments, demonstration, interactive workshops on 'How animals walk & biodiversity' and lectures on wildlife of India were organised from October 4 to 7, 2021 during Wild Life Week programme.

Rock and Fossil show was organised from October 11 to October 15, 2021 during Earth Science Week programme in which specimen of fossils, rocks and minerals were displayed and explained by students of University of Delhi for inculcating the awareness among masses.

NSCD organised various programmes on the occasion of World Forestry Day on March 21, 2022. Online quiz on 'Forest and Ecology', painting contest and interactive session on 'Identification of trees' was organised. Total 139 participants participated in quiz and painting contest from various schools. The participants were taken to Medicinal Garden of NSC where they were explained the methods to identify the medicinal plants. Online workshop on 'Water & its properties' was organised on March 22, 2022 on the occasion of World Water Day. During the workshop students learnt the basic properties of water in interactive manner. The interactive kits and experiments explaining the properties of water were shown to participants. Large number of school students participated in the programme.

A week long programme full of scientific activities for children to commemorate the Children Day from November 14 to 21, 2021 was organised. Science show, online science quiz, online painting contest, online science experiment video making contest, sky observation programme, open house quiz and science film shows were organised during this period. About 1500 children participated in these offline and online programmes.

Vigilance awareness week was organised from October 26 to November 1, 2021 to inculcate awareness about ills of corruption and promoting ways to combat it at systematic level. Pledge taking ceremony, popular lecture, online quiz, debate and film shows was organised during the period.

NSCD participated in Science Carnival organised by Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana on March 14, 2022. SDLs on 'Super Cooled Show' and 'Fun with Science' were organised. About 1000 students from various colleges and schools participated in the programme.

The Centre organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the hygiene practices to stay healthy. They



also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective sections in NSCD.

On the occasion of International Yoga Day on June 21, 2021, NSCD organised an online Yoga practice session for staff on theme 'Be with Yoga, Be at Home'. NSCD staff joined the session online from home and performed various Yoga asana. Yoga@Home contest was organised for students. The students made short duration video clip of performing yoga exercises and submitted online. A panel of Judges selected the winner on the basis of performance, posture accuracy and explanation. E-certificate was awarded to the winners of the contest. 25 students from various schools participated in this contest.

The Centre organized a series of programmes for staff members to encourage the use of Hindi language in official communication as well in daily routine work. Extempore talk, Quiz contest, Essay writing contest, Dictation writing contest, Hindi Typing contest, Hindi Translation contest & note/proposal making contest in Hindi was organized from September 14 to 30, 2021 during Hindi Diwas Pakhwada. Most of the staff participated in these programmes. In addition, online Rajbhasha Karayshalas were organised on regular basis throughout the year.

In addition, large number of online educational programmes were organized to commemorate Earth Day (April 22), National Technology Day (May 11), International Museum Day (May 18), World Environment Day (June 5), International Yoga Day (June 21), World Ozone Day (September 16), World Science Day (November 10), National Science Day (February 28), International Women Day (March 8) and World Water Day (March 22).

An online quiz on 'Freedom: A Fundamental Right' was organised on April 7, 2021 for school students. Online slogan writing contest on 'Our Great Nation' was organised on April 29, 2021 in which 250 viewers participated. Online lecture on 'Bharatiya Swatantrta ke Vyapak Aayam' was organised on May 25, 2021. Online quiz on 'The Champions of Freedom' was organised on May 31, 2021.

Online quiz on 'Our Constitution' was organised on June 17, 2021 and another online quiz on 'Independence & Freedom Fighter' was organised

on June 30, 2021. Online slogan writing contest on '75th Year of Independence: Achievement in Science & Technology' was organised on July 6, 2021. Online poster making contest on 'Independence of 75th Year & Our Achievement' was organised for school children on July 30, 2021. Online slogan writing contest on 'Aatm Nirbhar Bharat' was organised August 6, 2021.

An online poem writing contest on '75 Years of Independence' was organised on September 30, 2021. Online quiz on 'Freedom & Equality' was organised December 22, 2021 for school students. Sketch making contest on 'Our Great Patriot' was organised on December 29, 2021. Online slogan writing contest on 'Azadi ka Amrit Mahotsav' was organised on January 18, 2022. Online quiz on 'Constitution of Independence India' was organised on March 26, 2022.

A series of popular talks on various themes were organised by RSC, Lucknow. The lecture on 'Restore our Earth' on April 22, 2021; lecture on 'Ecosystem Restoration: Reimagine, Recreate, Restore' on June 5, 2021; lecture on 'Ozone for Life: 36 Years of Ozone Layer Protection' on September 16, 2021 and a popular lecture on 'Science, Society & Science as Culture' was organised on September 28, 2021.

A popular talk on 'Transformation in the Energy Sector: Present Scenario and its Future' was delivered by Prof. Vibhuti Rai, Geology Department, University of Lucknow on December 14, 2021. An online lecture on 'Dengue Fever Control & Prevention' was organized on December 17, 2021 which was delivered by Dr. Manvendra Tripathi, Senior Entomologist, Addl. Director, Medical Health and Family Welfare, Lucknow.

A lecture on 'Swami Vivekanand: A Vision for Youth' was delivered by Shri Hira Singh, Principal Scientist, RSCAC & Coordinator Ramkrishna Mission on January 12, 2022. An online lecture on 'Why do we age: Interventions for healthy aging' was organized on January 18, 2022 through Google Meet. A lecture on 'Cancer as a lifestyle disorder' was organised on February 4, 2022.

A webinar on 'COVID-19: Learn to Live with Virus' was organized jointly with National Academy of Sciences India (NASI) Lucknow Chapter through Google Meet on February 28, 2022. 60 participants including renowned doctors, medical

students and general public attended the webinar. Another webinar on '#BreakTheBias' was organised on March 8, 2022 in which 150 female participants attended the same.

A number of interactive sessions, workshops and online lectures were organised on Arduino IDE, Electronics with ThinkerCAD, Fun with Coding: App Development Using GUI, 3D Printing and CURA Slicing, Robotics & Human, 3D Modelling & Industrial Application and CAD Software.

Online Summer Vacation Camps for school students were organised in July-August 2021. The camps were organised in three streams - 'Biological Toy Making', 'Creative Science Toys Making' and 'Astro-Gadgets Making'. Large number of students from various schools participated in summer vacation camps.

Online Teachers' Training Programme was organised for in-service teachers on August 25 & 26, 2021. The participating teachers were trained in development of teaching aids. The teachers from various schools participated in the training.

Online quiz on 'Environment' and a film show on 'Ecosystem Restoration' was organised on the occasion of World Environment Day on June 5, 2021. Online quiz on 'Surface Stream & Ground Water' was organised on July 19, 2021. Another online quiz on 'Water: Our Life' was organised on March 22, 2022. Large number of school children participated in the programme.

Vigilance awareness week was organised from October 26 to November 1, 2021 to inculcate awareness about ills of corruption and promoting ways to combat it at systematic level. Pledge taking ceremony, popular lecture, slogan writing contest and cartoon making contest were organised during the period.

An online science camp followed by quiz was organised on the occasion of World Science Day on November 10, 2021. A week long programme full of scientific activities for children to commemorate the Children Day from November 14 to 21, 2021 was organised. Science shows, exhibit hunt quiz, tree identification programme, popular lecture and science film shows were organised during the period.

RSCL organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the

hygiene practices to stay healthy. They also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective sections in RSCL.

On the occasion of International Yoga Day on June 21, 2021, RSCL organised an online Yoga practice session for staff. RSCL staff joined the session online from home and performed various Yoga asana. Online quiz on 'Yoga & Health' was organised for social media viewers.

RSCL organized a series of programmes for staff members to encourage the use of Hindi language in official communication as well in daily routine work. Extempore talk, Quiz contest, Essay writing contest, Dictation writing contest, Hindi Typing contest, Hindi Translation contest & note/proposal making contest in Hindi was organized from September 14 to 30, 2021 during Hindi Diwas Pakhwada. Most of the staff participated in these programmes. In addition, online Rajbhasha Karayshalas were organised on regular basis throughout the year.

In addition, large number of online educational programmes were organized to commemorate Earth Day (April 22), National Technology Day (May 11), International Museum Day (May 18), World Environment Day (June 5), International Yoga Day (June 21), World Ozone Day (September 16), World Science Day (November 10), National Science Day (February 28), International Women Day (March 8) and World Water Day (March 22).

A popular lecture on 'Swadeshi-Paramparik Vigyan & Praudyogiki: Inventions and Innovations' was organised on February 5, 2022 in which 150 audiences attended the programme. Another lecture on '75 Milestones from the world of Indian Science & Technology' was organised on February 24, 2022 under Azadi Ka Amrit Mahotsava celebration. A lecture on 'Science Literature' was organised on February 26, 2022 in which 200 audiences attended the programme. Painting & essay writing contest on 'India@75: Heritage in Our Hands' was organised on March 11, 2022 in collaboration with the Indian National Trust for Art and Cultural Heritage (INTACH). 200 students participated in the contests. Nukkad Natak was performed at KPSC on March 27, 2022 as part of celebration of 'Azadi Ka Amrit Mahotsava'. Students demonstrated Indian achievements in various fields.

A popular lecture on 'Scientific Heritage & Monuments of India' was organised on October 8, 2021 in collaboration with Indian National Trust for Art and Cultural Heritage (INTACH).

A popular lecture on 'From the Annals of History of Science' was organised on February 23, 2022. Another lecture on 'The Road ahead for next 25 years of Indian Science & Technology' was organised on February 27, 2022.

Engineering Fair was organised from February 22 to 24, 2022 on the theme 'Science, Technology & Engineering'. Students displayed their projects, models and exhibits and educational kits. Dr. Somnath Sachdeva, Vice Chancellor, Kurukshetra University, Kurukshetra inaugurated the fair. More than 100 students and teachers participated and 32 projects were presented. About 3500 visitors visited the fair.

Skills development workshop was organised at Government High School, Kaithal, Kurukshetra on December 22, 2021. The students learnt about different props and models about STEM. 100 students participated in this program.

Online Summer Vacation Camps for school students were organised in July 2021. The camps were organised in two streams - 'Scientific Toy Making' and 'Exploring Nature'. 4 students from various schools participated in summer vacation camps.

Online Teachers' Training Programme was organised for in-service teachers on January 5 to 10, 2022. The participating teachers were trained in development of teaching aids. The teachers from various schools participated in the training. During Sankalp Parva-2021 from June 28 to July 12, 2021, a plantation drive was initiated and saplings of Peepal, Amla and Ashok trees were planted at the premises of KPSC. Similar plantation was done on June 5, & July 28, 2021 on the occasion of World Environment Day & World Nature Conservation Day respectively. An online painting contest was also organised on the occasion for the students.

Vigilance awareness week was organised from October 26 to November 1, 2021 to inculcate awareness about ills of corruption and promoting ways to combat it at systematic level. Pledge taking ceremony, popular lecture, slogan writing contest and cartoon making contest was organised during the period.

An online science camp followed by quiz was organised on the occasion of World Science Day on November 10, 2021. A week long programme full of scientific activities for children to commemorate the Children Day from November 14 to 21, 2021 was organised. Science shows, exhibit hunt quiz, tree identification programme, popular lecture and science film shows were organised during the period.

KPSC organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the hygiene practices to stay healthy. They also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective sections in KPSC.

On the occasion of International Yoga Day on June 21, 2021, KPSC organised an online Yoga practice session for staff. KPSC staff joined the session online from home and performed various Yoga asana.

KPSC organized a series of programmes for staff members to encourage the use of Hindi language in official communication as well in daily routine work. Extempore talk, Quiz contest, Essay writing contest, Dictation writing contest, Hindi Typing contest, Hindi Translation contest & note/proposal making contest in Hindi was organized from September 14 to 30, 2021 during Hindi Diwas Pakhwada. Most of the staff participated in these programmes. In addition, online Rajbhasha Karayshalas were organised on regular basis throughout the year.



# 1. GENERAL INFORMATION



Name of the Centre	National Science Centre Delhi	Regional Science City Lucknow	Kurukshetra Panorama & Science Centre, Kurukshetra
Name of Head of Museum/Centre and Designation	Shri D. Rama Sarma Director	Dr. Raj Mehrotra Project co-ordinator	Shri K. Srinivasa Nehru Project co-ordinator
Full Address	Near Gate No.4 Pragati Maidan, Bhairon Road New Delhi -110001	Aliganj Extension Sector-E, Ekta Vihar Lucknow - 226024	Pehowa Road Kurukshetra - 136118 Haryana
S.T.D.	011	0522	01744
Phone Number of Director/PC	2337-1946	2321804, 2327833	251100
EPABX	07428693710 to 17 (8 lines)	2321804	270810
Telefax E-mail	2337-1263 nscdl01@gmail.com	rsclu89@rediffmail.com pcrscl@gmail.co	kpscckr@gmail.com
Website	nscd.gov.in	rscl.nscd.gov.in	kpsc.nscd.gov.in
Hours of opening	09:30 am to 6:00 pm	9.30 am to 6.00 pm	9.30 am to 6.00 pm
Closed on	Diwali & Holi	Diwali & Holi	Diwali & Holi
<b>Admission Fee</b>			
I) General Public	I) Rs.60/- per head	Rs.30/- per head	Rs.40/- per head
II) Genral Entry (Group more than 25)	II) Rs.50/- per head	Rs.25/- per head	Rs.35/- per head
III) Genral Entry (BPL Card holder)	III) Rs.5/- per head	Rs.5/- per head	Rs.5/- per head
I) Student group (Pvt. Schools)	I) Rs.25/- per head	Rs.15/- per head	Rs10/- per head
II) Student group (Govt. Schools)	II) Rs.10/- per head	Rs.5/- per head	Rs.5/- per head

Name of the Centre	National Science Centre Delhi	Regional Science City Lucknow	Kurukshetra Panorama & Science Centre
<b>3-D Film Show</b>			
I) General Public	Rs.25/- per head	Rs.20/- per head	Rs.20/- per head
II) General Public (in Groups)	Rs.20/- per head	Rs.15/- per head	
III) Student Group (Pvt. Schools)	Rs.20/- per head	Rs.15/- per head	Rs.10/- per head
IV) Student Group (Govt. Schools)	Rs.10/- per head	Rs.10/- per head	Rs.5/- per head
<b>Science on Sphere</b>			
I) General Public	Rs.30/- per head	----	----
II) General Public (in Groups)	Rs.25/- per head	----	----
III) Student Group (Pvt. Schools)	Rs.25/- per head	----	----
IV) Student Group (Govt. Schools)	Rs.20/- per head	----	----
<b>Holo Show</b>			
I) General Public	Rs.30/- per head	----	----
II) General Public (in Groups)	Rs.20/- per head	----	----
III) Student Group (Pvt. Schools)	Rs.20/- per head	----	----
IV) Student Group (Govt. Schools)	Rs.20/- per head	----	----
<b>Fantasy ride</b>			
I) General Public	Rs.40/- per head		
II) General Public (in Groups)		----	----
III) Student Group (Pvt. Schools)	Rs.30/- per head	----	----
IV) Student Group (Govt. Schools)	Rs.30/- per head	----	----
<b>SDL</b>			
I) General	Rs.10/- per head	Rs.10/- per head	Rs.10/- per head
II) Student Group (Pvt. Schools)	Rs.10/- per head	Rs.10/- per head	Rs.10/- per head
III) Student Group (Govt. Schools)	Rs.5/- per head	Rs.10/- per head	Rs.10/- per head

## Space Theatre

General Visitor	-	Rs.50/- per head	-
Student group	-	Rs.30/- per head	-
Inaugurated on	January 9 <sup>th</sup> , 1992	September 7 <sup>th</sup> , 1989 Upgraded to Regional Science City on 21 <sup>st</sup> Sept. 2007	March 6 <sup>th</sup> , 2001
Total floor area in Sq. Mts.	18,773	8186	Approximately 4000 Square meters
<b>Staff strength</b>			
Scientific	6	2	1
Technical	57	17	8
Admin.	32	7	6
Total	95	26	15

# Financial Data 2021-2022

FY	EXPENDITURE			
	UNIT	GIA-GEN	GIA-SALARY	GIA-CCA
2021-2022	NSCD	1631.54	1250.82	37.49
	RSCL	390.21	245.33	12.31
	KPSC	171.64	112.50	0.15
	TOTAL	2193.40	1608.65	49.95

FY	HEAD	FUND
2021-2022	GIA-GEN	184.18
	GIA-SALARY	1648.12
	GIA-CCA	50.13

## RECEIPTS

FY	NSCD	RSCL	KPSC	TOTAL
2017-18	328.12	141.33	175.41	644.86
2018-19	314.42	156.40	193.66	664.48
2019-20	337.18	146.65	186.75	670.58
2020-21	200.7	25.75	43.43	269.25
2021-22	202.78	57.34	128.47	388.59

\*All figures are in lakhs

## VISITORS

S.No	Visitors	NSCD	RSCL	KPSC
1.	Number of school groups	99	306	524
2.	No.of students in groups	6935	19373	42796
3.	No.of general visitors	203573	140290	384792
4.	No.of outreach visitors	15000	750	7150
5.	Total no.of visitors	225508	160413	391942

Note: Graphs showing visitors details and comparative data are enclosed at Annexure - I.

## EXISTING GALLERIES

Name of the Centre/ Museums	Name of the gallery	Floor area (sq.m.)	Date of first Inauguration	Date of last major renovation	Number of exhibits
National Science Centre, Delhi	Our Science and Technology Heritage	1135	09.01.1992	21.10.2009	99
	Human Biology	757	09.01.2003	--	55
	Uniqueness of Human Life	204	02.06.2008	--	16
	Prehistoric Life	959	08.08.2004	10.11.2020	42
	Fun Science (including 3D, Spark Theater & Science Show)	1007	09.01.1992	19.11.2020 (3D Theater)	79
	Nuclear Power	677	16.01.2016	--	58
	Information Revolution	987	09.01.1992	March 2009	65
	Digital Information Revolution	348	09.01.1992	24.06.2006	41
	Water- The Elixir of Life	200	14.12.2010	—	45
	Energy Ball	122	09.01.1992	—	23
	Innovation Space	200	23.01.2014	—	45 kits
	Biotechnology Lab	110	22.04.2016	—	40
	Science on Sphere	110	07.06.2016	—	—
	Communication Saga	200	09.01.2016	—	—
	Reception Area	316	—	17.03.2014	12
	Temp. Exhibition Gallery	496	—	—	—
	Holo Show	74.4	14.11.2018	—	01
Fantasy Ride	53.60	09.01.2020	—	—	

Name of the Centre/ Museums	Name of the gallery	Floor area (sq.m.)	Date of first Inauguration	Date of last major renovation	Number of exhibits
<b>Regional Science City, Lucknow</b>	Fun Science	400	20.05.1995	March, 2005	50
	Fluidics	400	07.09.1989	Sept. 2008	64
	Popular Science	400	07.09.1989	March, 2004	Under Renovation
	Water-Our Life	400	24.12.2012	-	39
	Children Gallery	400	08.06.2001	14.11.2016	32
	Under water Exploration	680	21.09.2007	-	67
	Being Human	410	21.09.2007	-	41
	Biotech. Revolution	207	21.09.2007	-	66
	Aquamobile	130	21.09.2007	2009	01
	Scimax Hall	380	21.09.2007	-	01
	Pre historic life park & Light & Sound Show	4500	15.02.2008	—	41
	Science Park	Open Area	07.09.1989	—	67
	Wonder World of Materials Gallery	400	19.12.2009	—	68
	Innovation Hub	296	04.01.2016	—	—
Sports & Fitness	373	20.02.2020	—	35	
<b>Kurukshetra Panorama Science Centre, Kurukshetra</b>	Ground Floor a. Our Heritage	1520.25	06.03.2001	31.03.2013	47
	Ground Floor b. Fun Science		06.03.2001	----	88
	First Floor Mahabharat Panorama	1371.15	06.03.2001	30.04.2018	11
	Science Park	12500	06.03.2001	31.03.2017	38
	Panorama Hall	----	----	----	11
	3D - Theatre	----	----	2015	1
	TV Studio	----	----	2017	1
	Herbal Garden	----	01.03.2019	----	18

### 3 NEW GALLERIES / MAJOR RENOVATION

#### NSCD:

1. Development and installation of an exhibition titled 'Traditional Medicine' to portray the rich medical legacy of Traditional Systems of Medicine particularly Indian Medicinal Systems was completed. The exhibition consists of 35 exhibits containing graphic panels, models, multimedia and interactive exhibits.
2. An exhibition on Nobel Prize Laureates was opened on January 2022 on Anniversary day.
3. Setting up of Sub-Regional Science Centre, Palampur, H.P. is complete in all respect. SRSC is now ready for inauguration.
4. Setting up of Sub-Regional Science Centre at Almora, Uttarakhand is progressing well. The structure work of building is 100% completed
5. NCSM received a request from Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE), Shimla for providing help in form of exhibits and facilities for setting up of Science Learning & Creative Centre, Shimla, H.P. Accordingly, NSCD had assured to provide hands-on exhibits and the exhibit development work is in progress. About 80% of work has been completed.
6. NSC, Delhi has also received a request from HIMCOSTE for fabrication and installation of 6 No. of Smart Electronics' Displays at Science Learning and Creativity Centre, Shimla. The work is under completion.
7. Setting up of Sub-Regional Science Centre at Ambala, Haryana, named as Aryabhata Vigyan Kendra, Ambala has been taken up as per Memorandum of Agreement (MoA) signed among NCSM, HSCSIT and PWD (B&R) and part funds have also been transferred to HSCSIT for starting the building construction work. The construction work by PWD (B&R) Govt. of Haryana is under progress.

#### RSCL:

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#### KPSC

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### 4 EXISTING MOBILE SCIENCE EXHIBITS IN THE CENTRE/ MUSEUM

Title of the Unit	Name of the Centre	No. of Exhibits	Year in which unite was developed	Year of major renovation
Understanding Mathematics	RSC, Lucknow	24	2015-16	---
Energy: The Lifeline of Mankind		20	September 2019	---
Energy: Machines in Everyday Life		20	September 2019	---
Understading Mathematics	KPSC, KKR	24	2016	---
Energy		20	2019	---

## 5 NEW TEMPORARY EXHIBITION

Name of the Centre	Name of the Exhibition/project	No. of Exhibits	Date of Inauguration
NSCD	Nobel Prize 2021	6	January, 2022
RSCL	—	—	—
KPSC	Glimpses of Indian Science	150	22 <sup>nd</sup> February, 2022

## 6 EXHIBIT DEVELOPMENT

	NSCD	RSCL	KPSC
Gallery exhibits	50	07	05
Duplicate exhibits	51	02	00
Park exhibits	00	00	01
MSE exhibits	00	00	11
Taramandal	00	00	00
Kits/aids	05	00	00
Duplicate kits/aids	00	00	00
Temporary exhibits	14	00	00
<b>Total</b>	<b>120</b>	<b>09</b>	<b>17</b>

Note: List of major exhibits and kits developed during the year is given in Annexure-II

## 7 PLANNING FOR THE YEAR 2021-2022

### NSCD

Sl. No.	Name of the Scheme
1.	Sub-Regional Science Centre, Palampur, H.P. is almost complete now. SRSC is now ready for inauguration.
2.	Setting up of Sub-Regional Science Centre at Almora, Uttarakhand is progressing well.
3.	Setting up of Sub-Regional Science Centre at Ambala, Haryana, named as Aryabhata Vigyan Kendra, Ambala



**NSCD**

Sl. No.	Name of the Scheme
4.	Identifying space for setting-up of a Science City, Gurugram as per advisory received from NCSM (Hqrs.).
5.	Providing help in form of exhibits and facilities for setting up of Science Learning & Creative Centre, Shimla on receiving a request from Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE), Shimla to NCSM.
6.	The setting up of a 50-Seater Digital Planetarium by NSC, Delhi, on behalf of NCSM on request by HIMCOSTE.

**RSC, Lucknow**  
-----**KPSC, Kurukshetra**  
-----**8 MOBILE SCIENCE EXHIBITION PROGRAMMES**

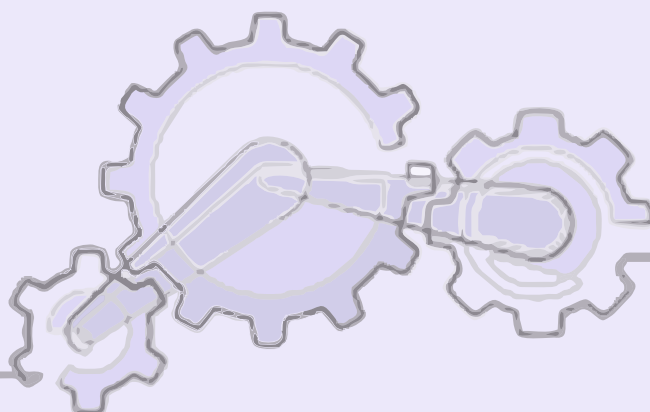
	NSCD	RSCL	KPSC
No. of exhibition sites	0	0	11
No. of exhibition days	0	0	17
No. of film shows	0	0	0
No. of visitors to exhibition	0	0	2500
No. of visitors in film shows	0	0	0
Distance traveled (in Kms)	0	0	1029

## 9 SCIENCE EDUCATION ACTIVITIES

### A. Science Demonstration Lectures (SDL)

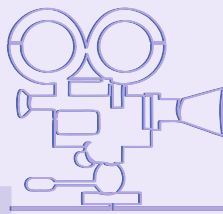
Science Demonstration Lectures are conducted for providing an exposure to the teachers on the effectiveness of use of simple experimental demonstrations during the classroom lecture, made out of low cost materials and with hand tools. This method is conducive for interactive learning through the process of raising questions, making observations, logical reasoning and arriving at inferences to postulates of basic scientific principles.

Name of the Centre	Name of the SDL unit	No. of Lectures Held in Centre	No. of Students Attended	No. of Lectures Held outside	No. of Students Attended
NSC, Delhi	<ol style="list-style-type: none"> <li>1. Liquid Nitrogen</li> <li>2. Unexpected Science</li> <li>3. Sound</li> <li>4. Human Torso</li> <li>5. Fun with Physics</li> <li>6. Air Pressure</li> <li>7. Static Electricity</li> <li>8. Size &amp; Distance in Astronomy</li> </ol>	408	14280	80	5000
RSC, Lucknow	<ol style="list-style-type: none"> <li>1. Super Cooled Show</li> <li>2. Air Pressure</li> <li>3. Sound</li> <li>4. Chemical Demonstration</li> <li>5. Our Body</li> <li>6. Light</li> <li>7. Unexpected Science</li> </ol>	176	2199	1	750
KPSC, Kurukshetra	<ol style="list-style-type: none"> <li>1. Know Your Body</li> <li>2. Fantastic Chemistry</li> </ol>	19	572	12	4572



## B. ENVIRONMENT AWARENESS PROGRAMMES

Name of the Centre	Name of the Programme	Date of the programme	No. of Participants
NSC, Delhi	Wildlife Week	4 <sup>th</sup> to 7 <sup>th</sup> October 2021	200
	Earth Science Week programme	11 <sup>th</sup> to 15 <sup>th</sup> October 2021	605
	World Forestry Day	21 <sup>st</sup> March 2022	139
	World Water Day	22 <sup>st</sup> March 2022	44
RSC, Lucknow	World Environment Day	5 <sup>th</sup> June 2021	145
	Ground water week	19 <sup>th</sup> July 2021	245
	World Water Day	22 <sup>nd</sup> March 2022	36
KPSC, Kuruksbra	Earth Day	22 <sup>nd</sup> April 2021	85
	World Environment Day	5 <sup>th</sup> June 2021	25
	World Nature Conservation Day	28 <sup>th</sup> July 2021	90
	Sankalp Parva	28 <sup>th</sup> June -12 <sup>th</sup> July 2021	40



## C. SCIENCE FILM SHOW

Name of the Centre	Date/Duration	Title/Theme	No. of Shows	No. of Total Visitors
NSC, Delhi	----	----	----	----
RSC, Lucknow	----	----	----	----
KPSC, KKR	22 <sup>nd</sup> to 28 <sup>th</sup> February, 2022	Delhi Safari	05	800

## D. POPULAR SCIENCE LECTURES

Name of the Centre	No. of Lectures	No. of Audience
NSC, Delhi	14	2006
RSC, Lucknow	22	714
KPSC, Kuruksbra	06	730

Note: List is given in Annexure – III

## E. TARAMANDAL SHOWS

Taramandal is a portable mini planetarium with an inflatable dome and simple projection equipment providing an opportunity to promote interactive learning of elementary astronomy. It could also serve the purpose of an improvised dark room for conducting scientific experiments requiring dark room facilities.

Name of the Centre	Number of Shows held	Number of Audience
NSC, Delhi	00	00
RSC, Lucknow	00	00
KPSC, Kurukshetra	00	00

## F. SKY OBSERVATION

Name of the Centre	No. of Programmes held	No. of Participants
NSC, Delhi	09	630
RSC, Lucknow	09	235
KPSC, Kurukshetra	25	500

## G. SCIENCE ON SPHERE

Name of the Centre	No. of Shows held	No. of Audience
NSC, Delhi	494	14820
RSC, Lucknow	00	00
KPSC, Kurukshetra	00	00

## H. SCIENCE QUIZZES

Name of the Centre	No. of Quizzes held	No. of Participants	No. of Audience
NSC, Delhi	07	1040	950
RSC, Lucknow	29	5014	00
KPSC, Kurukshetra	06	450	420

## I. FANTASY RIDE

Name of the Centre	No. of Shows held	No. of Audience
NSC, Delhi	1399	9503
RSC, Lucknow	00	00
KPSC, Kurukshetra	00	00

## J. HOLO SHOW

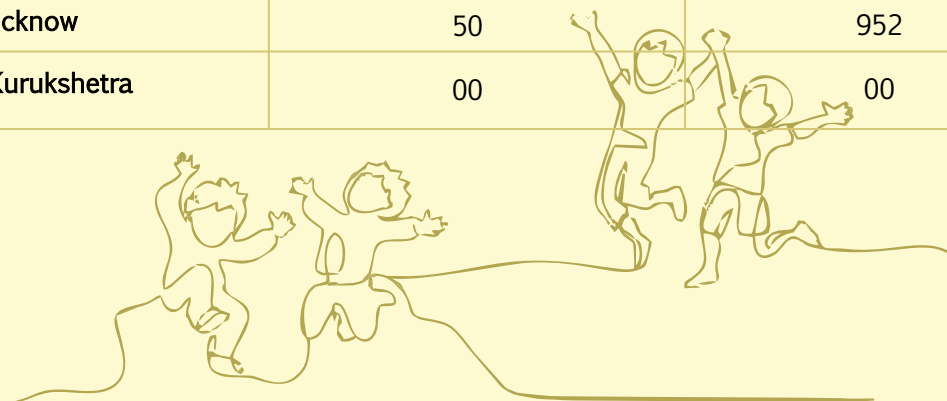
Name of the Centre	No. of Shows held	No. of Audience
NSC, Delhi	185	3331
RSC, Lucknow	00	00
KPSC, Kurukshetra	00	00

## K. 3D THEATRE SHOW

Name of the Centre	No. of Shows held	No. of Audience
NSC, Delhi	806	7032
RSC, Lucknow	782	24434
KPSC, Kurukshetra	00	00

## L. SCIMAX SHOW

Name of the Centre	No. of Shows held	No. of Audience
NSC, Delhi	00	00
RSC, Lucknow	50	952
KPSC, Kurukshetra	00	00



## 10 VIDEO/COMPUTER SOFTWARE/ MULTIMEDIA SOFTWARE DEVELOPED

### NSCD:

Sl. No.	Name of the Exhibit/kit/Multimedia	No.	Gallery/ Project	New/Duplicate /Renovated
1.	Film Corner – Video (15:32 minutes)	1	PSC Palampur	New
2.	T Rex – Video (01:53 minutes)	1	Pre-Historic life gallery	New
3.	Brachiosaurus – Video (02:04 minutes)	1	Pre-Historic life gallery	New
4.	Stegosaurus– Video (01:56 minutes)	1	Pre-Historic life gallery	New
5.	Trilobites– Video (02:02 minutes)	1	Pre-Historic life gallery	New
6.	Anomalocaris– Video (01:49 minutes)	1	Pre-Historic life gallery	New
7.	Virtual Tornado- Unity Based Multimedia	1	PSC Palampur	New
8.	Volcano- Projection Mapped video	1	PSC Palampur	New
9.	Water Pledge - Multimedia	1	Water: The Elixir of Life gallery	Renovated
10.	The instrument of accession- Virtual Flipbook	1	Uniting India: Sardar Patel gallery	Renovated
11.	Alternate Medicine: Ask the Expert Dual display based Multimedia	1	Traditional Medicine exhibition	Renovated New
12.	Know Your Constitution	1	Traditional Medicine exhibition	New
13.	Properties of Water – Switch operated multimedia	1	Himcoste (Smart electronic displays), Shimla	Duplicate
14.	Water Usage- Virtual Flipbook	1	Do	Duplicate
15.	Water Quiz- Unmanned Quiz Corner	1	Do	Duplicate
16.	Water in you- Weighing scale based multimedia	1	Do	Duplicate
17.	Water borne Disease: Ask the Expert Dual display based multimedia	1	Do	Duplicate
18.	We are thirsty because we are hungry Quad display based multimedia	1	Do	Duplicate



# 11 CREATIVE ABILITY

## A. VACATION HOBBY CAMPS

Name of the Centre	Number of Camps held	Number of Projects Completed	Number of Participants
NSC, Delhi	05	15	26
RSC, Lucknow	03	09	36
KPSC, Kurukshetra	02	12	04

## B. SCIENCE FAIR

Name of the Centre	Date & Duration	Name of the Science Fair	No. of Schools Participated	No. of Students /participants	No. of Projects
NSC, Delhi	25 <sup>th</sup> & 26 <sup>th</sup> March, 2022	Innovation Festival	----	140	36
RSC, Lucknow	0 (Due to Covid outbreak)	----	----	----	----
KPSC, Kurukshetra	22 <sup>nd</sup> to 24 <sup>th</sup> February, 2022	Engineering Fair	20	60	32

## C. DATE, DURATION & STREAMS OF VACATION HOBBY CAMPS

Name & Venue of programme	Date/Duration	Streams/Subjects	No. of Participants	No. of projects
NSC, Delhi	June, 2021 Online mode	Astro Lab Science at Home Fun with Botany Basic of Website Development	26	15
Regional Science City, Lucknow	July-August, 2021 Online mode	Biological Toy Making Creative Science Toys Making Astro-Gadgets Making	36	09
KPSC, Kurukshetra	05th to 16th July, 2021 Online mode	Scientific Toy Making and Exploring Nature	04	12

## 12 CONFERENCES, TRAINING/WORKSHOPS & OLYMPIADS

### A. Teachers' Training Programmes (TTP)

Teachers' Training Programme envisages providing an opportunity and exposure to school teachers in handling of simple tools, raw materials and also introduces techniques as well as ideas for developing low cost teaching-aids with ultimate goal of 'build your own laboratory'. Specially designed TTP was organised for the school teachers of various schools of Delhi and adjoining areas at National Science Centre, Delhi. Regional Science City Lucknow and KPSC, Kurukshetra also conducted TTP for the teachers.

Venue of Programme	Number of programme	No. of Teachers Trained	No. of Teaching Aids /Kits Developed
NSC, Delhi	04	250	80
RSC, Lucknow	01	05	12
KPSC, Kurukshetra	02	23	14

### B) Robotics boot camps/Computer Training Programmes

Name of the Centre	Number of programme	Duration	No. of Participants	Subjects
NSC, Delhi	03	-	120	--
Regional Science City Lucknow	0	0	0	0
KPSC Kurukshetra	0	0	0	0



## C. CONFERENCES, TRAINING/WORKSHOPS & OLYMPIADS

### National Science Centre, Delhi

An interactive online workshop on 'Artificial Intelligence' was organised on April 15 & 16, 2021. The participants in the workshop were students, innovators & professionals. Basics of self-improving algorithms, machine learning, big data & pattern recognition was also taught in an interactive way. During the workshop, participants learnt the utility of AI by doing hands-on activities. More than 120 participants joined the workshop.

To commemorate International Museum Day on May 18, 2021, NSCD organised an online seminar on 'Collections Make Connections'. The seminar was streamed live on NSCD TV Official YouTube channel. During the seminar, participant showcased their collection of artefacts. The postal stamps, brass plate with carving, microliths from the Deccan Plateau and old coins were the collections exhibited during the programme. The participants briefed the story of collection and its significance. A large number of people watched it live on NSCD TV YouTube channel.

An online STEM workshop for Girl Students was organised on June 30 & July 1, 2021. The main objective of this workshop was to acquaint girls with STEM education. During this workshop, two sessions were conducted on Science around us, & Sustainable Technology. 120 students from various schools/institute participated in this workshop.

An offline workshop on 'Robotics' was organised for Girl Students on July 4, 2021. The participants were trained in assembly and programming of various robotics kits using Lego kits. They made Castor Bot, Bumper Car and Line follower. The participants also got familiar with different sensors and their uses in kit development. The students actively participated in this offline workshop.

An online STEAM workshop was organised on July 30 & 31, 2021 for school students. The objective of this program was to involve the participants in critical thinking process and guide them to use engineering & technology in designing of creative projects to solve the real-world problems. During the workshop, five hands-on sessions were conducted on Science around us, Sustainable Technology, Magic of Engineering, Digital Arts and Fun with Mathematics. 58 students from various schools/institutes participated in this workshop.

An online workshop on 'Space Telescope' was organised on January 31, 2022. During the workshop students learnt basics of space telescope, its need & utility in space. A paper model of James Space Web Telescope was fabricated during the workshop. 41 students from various schools participated in this workshop.

Interactive workshop on 'Robotics' was organised for Students on February 4, 2022. The explanation and demonstration of various robotics kits using EV3 Lego programming was given to participants. The demonstration of Castor Bot and Line follower was also arranged. The participants also get familiar with different sensors and their uses in kit development. 20 students actively participated in this workshop.

Tool operation workshop for members of Innovation Space was organised on October 23 & 24, 2021. During this workshop, participants learnt the importance of measurement, handling of electronics tools. They were given exposure of equipment used in Biotechnology Lab. The participants made innovative projects using available materials and tools.

Interactive workshops on 'Development & use of Low Cost Teaching Aid' was organised for in-service teachers on November 10, 2021. The participating teachers were trained in development of teaching aids on Inertia, Air Pressure and Energy. 70 teachers from various schools participated in the workshop.

Another workshop on 'Comic making on digital safety' was organised on November 20 & 21, 2021 for students. During the workshop basic training of making a comic book and telling a story using cartoons was provided to students. The students narrated and drew their stories of digital and social media crime which they come across in their lifetime in the form comic booklet. 20 students participated in the workshop.

A training programme for staff of Regional Science Centre, Dehradun was organised from November 18 to 20, 2021. During the training programme, the staff was given training on handling and use of telescope for conduction of astronomy awareness programmes.

An online workshop on 'Learning Physics at Home' was organised on December 2, 2021 in which participants learnt the scientific principles by performing simple experiments using household material. Total 50 participants participated in the programme.

An online workshop on 'Maths is Fun' was organised on December 22, 2021 to commemorate Birth Anniversary Indian mathematician Srinivasa Ramanujan on the occasion of National Mathematics Day. During the workshop participants made low cost mathematical teaching aids and also presented their innovative ideas for development of new teaching aids. Around 100 teachers from various schools of Delhi & NCR participated in the workshop.

An online session on 'Basics of Biotechnology' was organised on January 20, 2022. During the session, students learnt basic protocols of biotechnology lab and a demonstration of biotech lab equipment. A virtual tour of biotechnology lab of NSC, Delhi was also organised for students. 20 students from various schools participated in the session.

An online student's seminar on 'Combating Viruses: Innovative Ways' was organised on January 24, 2022. During the seminar, participants presented their innovative ideas on the various techniques for combating viruses and viral infection in humans. Students from various Colleges and schools participated in this seminar.

Teachers' Training Programme on 'Development of Low Cost Teaching Aid' was organised for in-service teachers on February 28, 2022. The participating teachers were trained in development of teaching aids on Inertia, Air Pressure and Energy. Total 70 teachers from various schools participated in the training.

## RSC, LUCKNOW

A webinar on 'COVID-19: Learn to Live with Virus' was organized jointly with National Academy of Sciences India (NASI) Lucknow Chapter through Google Meet on February 28, 2022. 60 participants including renowned doctors, medical students and general public attended the webinar. Another webinar on '#BreakTheBias' was organised on March 8, 2022 in which 150 female participants attend the same.

A number of interactive sessions, workshops and online lectures were organised on Arduino IDE, Electronics with ThinkerCAD, Fun with Coding: App Development Using GUI, 3D Printing and CURA Slicing, Robotics & Human, 3D Modelling & Industrial Application and CAD Software.

Online Teachers' Training Programme was organised for in-service teachers on August 25 & 26, 2021. The participating teachers were trained in development of teaching aids. The teachers from various schools participated in the training.

## KPSC, KURUKSHETRA

Skills development workshop was organised at Government High School, Kaithal, Kurukshetra on December 22, 2021. The students learnt about different props and models about STEM. 100 students participated in this program.

Online Teachers' Training Programme was organised for in-service teachers on January 5 to 10, 2022. The participating teachers were trained in development of teaching aids. The teachers from various schools participated in the training.

KPSC organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the hygiene practices to stay healthy. They also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective

## 13 COMMUNITY PROGRAMMES

### NSC, Delhi

Special visit for children from Probation Homes of Delhi (Juvenile delinquents) was organized on November 14, 2021 in collaboration with the National Institute of Public Cooperation and Child Development (NIPCCD), functioning under the Ministry of Women and Child Development. Children visited galleries and facilities of the Centre like Fantasy Ride, 3D Show, Holoshow and Science Show. A science quiz programme was also conducted and winners were given souvenirs.

A special focus was created, under the directives of Ministry of Culture, to expose the science centre to the Under-privileged Children of the society. Under this program, several Non-Governmental Organizations were roped-in to mobilize and bring in these children

who otherwise have no avenues for such kind of scientific exposure or have never visited NSCD to create inquisitiveness among them in science and technology. Large number of children benefitted from this facility.

An open discussion on 'Gender Equality Today for Sustainable Tomorrow' was organised on the occasion of International Women Day on March 8, 2022. The objective was to create awareness towards women safety and a call to action for accelerating gender parity among the general populace. Women staff members of the Centre & female visitors participated in the programme. An open house quiz was also conducted. Total 30 women participated in the event.

### RSC, Lucknow

On the occasion of International Yoga Day on June 21, 2021, RSCL organised an online Yoga practice session for staff. RSCL staff joined the session online from home and performed various Yoga asana. Online quiz on 'Yoga & Health' was organised for social media viewers.

RSCL organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the hygiene practices to stay healthy. They also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective sections in RSCL.

Vigilance awareness week was organised from October 26 to November 1, 2021 to inculcate awareness about ills of corruption and promoting ways to combat it at systematic level. Pledge taking ceremony, popular lecture, slogan writing contest and cartoon making contest was organised during the period.

An online science camp followed by quiz was organised on the occasion of World Science Day on November 10, 2021. A week long programme full of scientific activities for children to commemorate the Children Day from November 14 to 21, 2021 was organised. Science shows, exhibit hunt quiz, tree identification programme, popular lecture and science film shows were organised during the period.

### KPSC, Kurukshetra

Vigilance awareness week was organised from October 26 to November 1, 2021 to inculcate awareness about ills of corruption and promoting ways to combat it at systematic level. Pledge taking ceremony, popular lecture, slogan writing contest and cartoon making contest was organised during the period.

An online science camp followed by quiz was organised on the occasion of World Science Day on November 10, 2021. A week long programme full of scientific activities for children to commemorate the Children Day from November 14 to 21, 2021 was organised. Science shows, exhibit hunt quiz, tree identification programme, popular lecture and science film shows were organised during the period.

KPSC organized interactive workshops, sessions and lectures programmes regularly to inculcate awareness on 'Health & Hygiene'. During the programmes, the participants learnt about the hygiene practices to stay healthy. They also understood the importance of cleanliness to prevent diseases. Regular cleanliness drive was taken up by the staff members in their respective sections in KPSC.

On the occasion of International Yoga Day on June 21, 2021, KPSC organised an online Yoga practice session for staff. KPSC staff joined the session online from home and performed various Yoga asana.

**14****SCIENCE DRAMA/ PUPPETRY/  
OTHER FORMS OF PERFORMING ART**

Name of the Centre	Venue of programme	Description of Media	No. of teams Participated	No. of players Performed	No. of Audience
NSC, Delhi	NSCD	0 (Due to Covid outbreak)	00	00	00
Regional Science City, Lucknow	RSCL	0 (Due to Covid outbreak)	00	00	00
KPSC, Kurukshetra	KPSC	26th February, 2022	09	09	200

# 15 COMMEMORATIVE EVENTS

Name of the Centre	Name of the Events	Number of Programmes	Number of Participants
NSC, Delhi	International Day for Yoga	2	67
	Constitution Day	2	107
	Gandhi Jayanti	1	73
	National Technology Day	1	85
	National Science Day	2	23
	International Women's Day	1	150
	Earth Day Celebration	1	40
	World Environment Day	1	30
	International Museum Day	1	65
	World Ozone Day	1	80
	World Science Day	1	115
	World Water Day	1	35
	Moon Landing Day	1	210
	Wild Life Week	1	80
	Children's Day Celebration	1	310
Commemorating of 75 Years of Independence	1	105	
RSC, Lucknow	World Earth Day Celebration	2	72
	National Technology Day Celebration 2021	3	1200
	International Museum Day Celebration-2021	2	95
	Observation of Anti-Terrorism Day	1	20
	International Yoga Day		
	World Environment Day Celebration	3	1200
	Ground Water Week Celebration	2	129
	Moon Landing Day celebration	1	70
	Commemorating of 75 Years of Independence	1	72
	International Day of Scientific Culture (IDSC) Celebration	3	300
KPSC, Kurukshetra	International Ozone Layer Conservation Day	2	300
	Hindi Diwas Celebration	2	25
	WildLife Week Celebration	1	35
	National Unity Day celebration	1	92
	International Science Centre & Science Museum Day	2	300

Name of the Centre	Name of the Events	Number of Programmes	Number of Participants
KPSC, Kurukshetra	Children's Day Celebration	8	2200
	Constitution Day - 2021	2	60
	National Youth Day Celebration	2	125
	Celebration of National Energy Conservation Day:	3	150
	Birth Anniversary Celebration of Sir Stephen Hawking	1	225
	Republic Day Celebration	2	90
	World Cancer Day	2	150
	National Science Day Celebration	4	300
	International Women's Day	2	150
	World Water Day	3	150
	World Heritage Day	2	90
	Earth Day	2	100
	Freedom 75 commemoration	1	50
	National Technology Day	2	150
	International Day for Yoga	2	120
	Swachh Bharat Pakhwara	3	350
	International Day of Scientific Culture	1	110
	Children's Day	2	90
	India at 75: Heritage in Our Hands” Poster & Essay writing Competition	1	67
	National Science Week	7	1200

## 16 TEMPORARY EXHIBITIONS

Name of the Centre	Title of the Exhibits	Date/Duration	No. of Visuals/Panels	No. of Working Animated Exhibits
NSC, Delhi	Nobel Prize, 2021	January, 2022	06	00
RSC, Lucknow				
KPSC, Kurukshetra	Glimpses of Indian Science	21st to 28th February, 2022	150	00

# 17 COLLABORATIVE PROGRAMMES

## NSC, Delhi

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	Learning Links Foundation	Workshop on Artificial Intelligence	15 <sup>th</sup> & 16 <sup>th</sup> April, 2021
2.	National Institute of Public Cooperation and Child Development (NIPCCD)	Special visit for children	14 <sup>th</sup> November, 2021

## RSC, Lucknow

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	National Academy of Sciences India (NASI Lucknow Chapter)	Online Webinar	17 <sup>th</sup> December, 2021
2.	National Academy of Sciences India (NASI Lucknow Chapter)	Online Webinar	18 <sup>th</sup> January, 2022
3.	Council Of Science & Technology, UP	Vigyan Utsav on Eve of Azadi ka Amrit Mahotsav	25 <sup>th</sup> February, 2022
4.	Manju Seth Foundation for Advance Research & Training	Foundation Lecture	16 <sup>th</sup> March, 2022

## KPSC, Kurukshetra

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	LNJP Hospital, Kurukshetra	Pulse Polio Immunization	27 <sup>th</sup> June 2021
2.	Indian National Trust for Art and Cultural Heritage (INTACH)	Heritage Quiz	08 <sup>th</sup> October, 2021
3.	Vigyan Prasar	Vigyan Sarvatra Pujyate	22 <sup>nd</sup> to 28 <sup>th</sup> February, 2022
4.	Indian National Trust for Art and Cultural Heritage (INTACH)	India at 75: Heritage in Our Hands" Poster & Essay writing Competition	11 <sup>th</sup> March, 2022
5.	Deenbadhu Chottu Ram University of Science & Technology, Murthal	Science Conclave 2022	14 <sup>th</sup> March, 2022

## 18 LIBRARY & INFORMATION

Name of The Centre	Item	Total holding as on 31 <sup>st</sup> March Previous year	No. Acquired during current year	Net holding as on 31 <sup>st</sup> March of current year
NSC, Delhi	Books	7042	-	7044
	Journals	1288	-	1288
	Audio /Visual (CD-ROM /DVD/Blue-Ray etc.)	--	--	--
	Audio Disc	--	--	--
	Video Disc	--	--	--
	Misc. Disc	--	--	--
	RSC, Lucknow	Books	--	--
Journals		-	--	-
Audio Disc		-	--	-
Misc. Disc		-	--	--
Video Disc		-	--	--
KPSC, Kurukshetra	Books	1222	-	--
	Video CDs	257	-	--

## 19 PUBLICATIONS OF THE MUSEUM/CENTRE

### LIST OF PUBLICATIONS FROM THE MUSEUM/CENTRE

Name of The Centre	Name of the Publication	Process	Number Printed	Expenditure Incurred (Rs.)
NSC, Delhi	—	—	—	—
RSC, Lucknow	—	—	—	—
KPSC, Kurukshetra	Summer Vacation Hobby Booklets	—	10	400



## 20 CONSTRUCTION

### NSC, Delhi

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1.	Providing and making M.S. tubular structure with cladding for Diorama in triple height portion at 3rd floor pre-historic life Gallery of National Science Centre, Delhi.	24.05.2021	14.09.2021	Rs 10,51,973/-
2.	Providing and replacing existing worn out carpet in temporary exhibition area for Indo - French Exhibition at National Science Centre, Delhi.	10.12.2021	23.12.2021	Rs 6,81,574/-
3.	Up-gradation of ground floor toilet and drinking water areas at National Science Centre, Delhi.	06.01.2022	26.04.2022	Rs 9,83,833/-

### RSC, Lucknow

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1.	Balance work towards Up-gradation of visitor's toilet and Cafeteria at Regional Science City, Lucknow (UP)	29.09.2020	Spilled over in FY 2021-22	Rs 7,96,725/-*

### KPSC, Kurukshetra

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1.	NIL			

\*expenditure booked in FY 2021-22

## 21 PROCUREMENT OF EQUIPMENT (Costing Rs. 5000/- or more)

	Sl.No	Name of the Equipment	Date of Procurement	Cost in Rupees (including GST)
NSC Delhi	1	Supply of Computer SMPS with Power Cable at NSC, Delhi	20.07.2021	34,102/-
	2	Renewal of Adobe Creative Cloud License at NSC, Delhi	29.07.2021	38,350/-
	3	Supply of Touch Computer 240BC3M-F at NSC, Delhi	02.11.2021	1,57,530/-
	4	Supply of Head Phones & different computer cables at NSC, Delhi	10.01.2022	59,708/-
	5	Supply of APC Interactive UPS (0.8 KVA) at NSC, Delhi	18.01.2022	5,498/-
	6	Supply of APC Interactive UPS (0.6KVA) at NSC, Delhi	19.01.2022	19,800/-
	7	Supply of Epson Ultra Short Throw Projectors at NSC, Delhi	23.02.2022	4,55,190/-
RSC, Lucknow				
KPSC, Kurukshetra				

## 22 PERSONNEL

### A. NEW APPOINTMENT (REGULAR/DEPUTATION/ADHOC)

Name of the Centre	S.No	Name of Personnel	Designation	Date of Joining
NSC, Delhi	1.	Sh. Satish Sharma	Technician 'A' (Electrical)	28-03-2022
	2.	Mohd. Murtaza	Technician 'A' (Computer Hardware & Networking)	31-03-2022
RSC, Lucknow	1.	Sh. Ghanshyam Prakash	Technician 'A' (Computer Hardware & Networking)	20-10-2021
KPSC, KKR			-- Nil --	
PSC, Palampur	1.	Sh. Mukund Mohan	Office Assistant, Gr-III	01-04-2021
	2.	Sh. Akshay Kumar	Technician 'A' (Electronics)	29-03-2022

### B PROMOTION

Name of the Centre	S. No	Full Name of Personnel	Designation prior to Promotion	Designation after Promotion	Effective date of promotion
NSC, Delhi	1.	Sh. Rajdeep Verma	Security & Maintenance Officer'	Sr. Security & Maintenance Officer'	03-05-2021
	2.	Sh. Gurmeet Singh	Technician 'F' (Carpenter)	Technician 'G' (Carpenter)	27-08-2021
	3.	Sh. Prem Kumar	Office Assistant, Gr.-II	Office Assistant, Gr.-I	01-09-2021
	4.	Sh. Sikander Lal	Office Assistant, Gr.-I	Section Officer	31-12-2021
	5.	Sh. Devinder Singh	Technician 'F' (Electrical)	Technician 'G' (Electrical)	15-02-2022
	6.	Sh. Ved Prakash	Technician 'F' (Sheet Metal)	Technician 'G' (Sheet Metal)	15-02-2022
	7.	Sh. V. K. Pant	Technician 'F' (Carpenter)	Technician 'G' (Carpenter)	15-02-2022
	8.	Smt. Shakuntla Sharma	Artist 'E'	Artist 'F'	15-02-2022

Name of the Centre	S. No	Full Name of Personnel	Designation prior to Promotion	Designation after Promotion	Effective date of promotion
RSC, Lucknow	1.	Sh. D.S. Rawat	Technical Officer 'A' (Electronics)	Technical Officer 'B' (Electronics)	27-08-2021
	2.	Sh. Mata Prasad	Technician 'F' (Carpenter)	Technician 'G' (Carpenter)	27-08-2021
	3.	Sh. Swarup Mandal	Curator 'C'	Curator 'D'	04-10-2021
	4.	Sh. Ramesh Kumar	Technician 'F' (Sheet Metal)	Technician 'G' (Sheet Metal)	15-02-2022
KPSC, KKR	1.	Sh. Suresh Kumar	Curator 'C'	Curator 'D'	15-03-2022
PSC, Palampur	NIL				

### C. Transfers

Name of the Centre	Name of Personnel	Designation	Transferred From	To	Effective Date of Transfer
NSC, Delhi	1. Sh. Vijay Shanker Sharma	Curator 'F'	RSC, Nagpur	NSCD	19-07-2021
	2. Sh. Anindya Sarkar	Exhibition Officer 'B'	NSC, Delhi	BITM, Kolkata	29-10-2021
	3. Sh. K.K. Chatterjee	Education Officer 'C'	NSC, Delhi	RSC, Lucknow	29-10-2021
	4. Sh. Prem Kumar	Office Assistant, Gr.-I	NSC, Delhi	RSC, Lucknow	31-03-2022
RSC Lucknow	1. Sh. Subhasis Dutta	Technician 'B' (Welder)	RSC, Lucknow	CRTL, Kolkata	13-05-2021
	2. Sh. Sikander Lal	Office Assistant, Gr.I)	RSC, Lucknow	NSC, Delhi	30-12-2021
KPSC, KKR	NIL				
PSC, Palampur	NIL				

### D.Retirement/ Repatriation/Resignation

S. No	Name of Personnel	Designation	Name of Centre	Date of Retirement/ release	Remarks mention retirement/ repatriation
1.	Sh. Roshan Lal	Technician 'G' (Painter)	NSC, Delhi	31-05-2021	Retirement
2.	Sh. V. J. Mathew	Section Officer	NSC, Delhi	31-01-2022	Retirement
3.	Sh. Surender Kumar	Technician 'F' (Carpenter)	NSC, Delhi	28-02-2022	Retirement
4.	Sh. G. Sajeendran	Dy. Controller of Administration	NSC, Delhi	31--03-2022	Retirement

### E. Foreign Deputations

1.	NSC, Delhi	- NIL--
2.	RSC, Lucknow	
3.	KPSC ,Kukshetra	

### F. Distinguished visitors

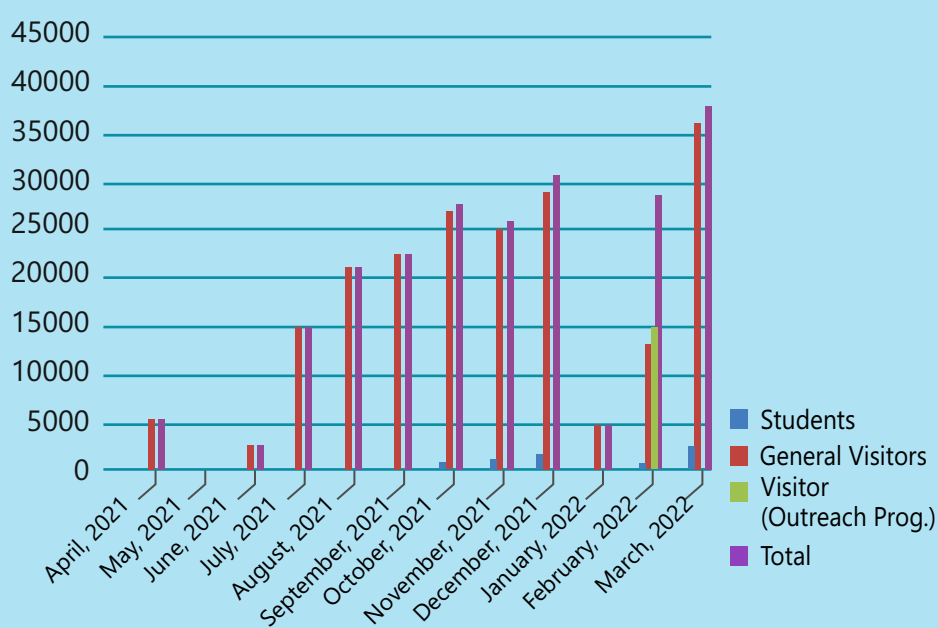
1.	NSC, Delhi	- NIL--
2.	RSC, Lucknow	
3.	KPSC, Kukshetra	

## VISITORS STATISTICS (YEAR 2021- 2022)

Annexure –I

### A. National Science Centre, Delhi

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2021	14	6451	0	6465
May, 2021	0	0	0	0
June, 2021	0	3096	0	3096
July, 2021	0	15034	0	15034
August, 2021	0	21287	0	21287
September, 2021	97	22629	0	22726
October, 2021	586	27112	0	27698
November, 2021	966	25117	0	26083
December, 2021	1672	29161	0	30833
January, 2022	0	4875	0	4875
February, 2022	804	13060	15000	28864
March, 2022	2796	35751	0	38547
Total	6935	203573	15000	225508



## B. National Science Centre, Delhi (on site)

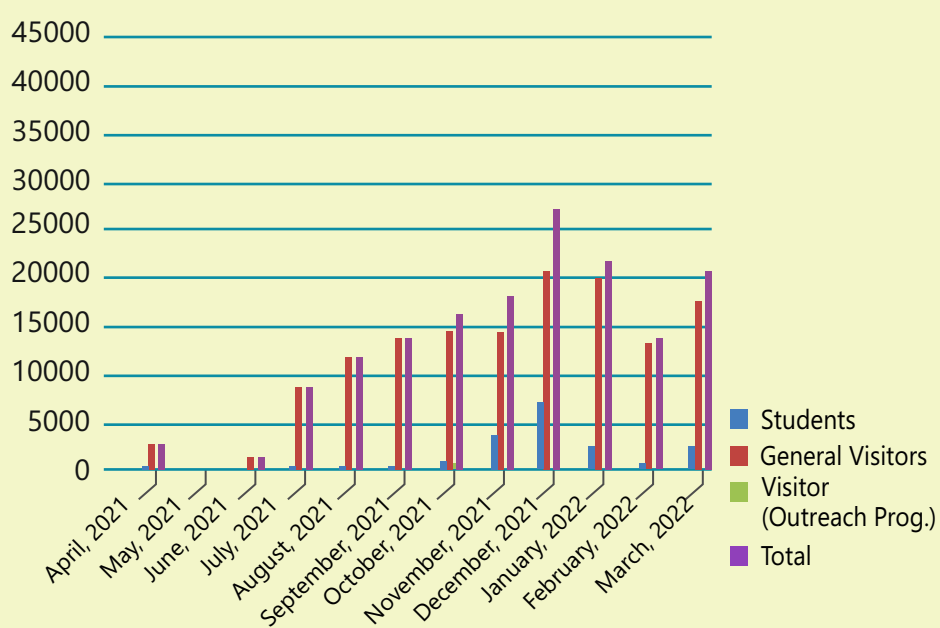
Visitor's Profile in the last five years at NSC, Delhi (Excluding Outreach Visitors)

Year	Total Visitors
2017-18	609435
2018-19	561911
2019-20	561107
2020-21	73609
2021-22	210508



## C. Regional Science City, Lucknow

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2021	61	3782	0	3843
May, 2021	0	0	0	0
June, 2021	0	2099	0	2099
July, 2021	99	8960	0	9059
August, 2021	68	12096	0	12164
September, 2021	247	13186	0	13433
October, 2021	1830	14015	750	16595
November, 2021	3802	14089	0	17891
December, 2021	7455	20324	0	27779
January, 2022	1861	20101	0	21962
February, 2022	578	13343	0	13921
March, 2022	3372	18295	0	21667
Total	19373	140290	750	160413





#### D. Regional Science City, Lucknow (On Site)

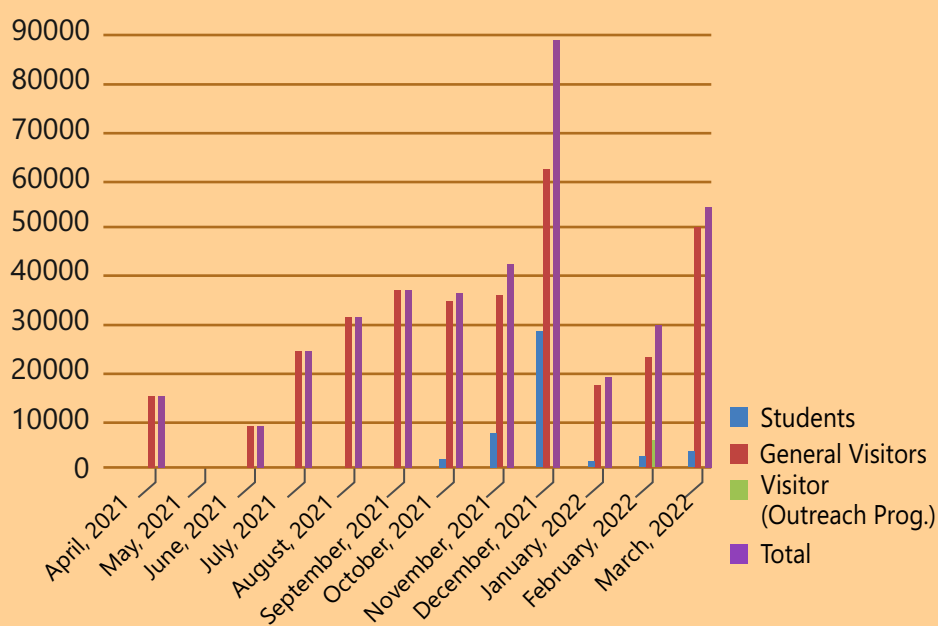
Visitors' Profile in the last five years at RSC, Lucknow (Excluding Outreach Visitors)

Year	Total Visitors
2017-18	336207
2018-19	371717
2019-20	347919
2020-21	70710
2021-22	159663



## E. KURUKSHETRA PANORAMA & SCIENCE CENTRE, KURUKSHETRA

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2021	54	14429	0	14483
May, 2021	0	0	0	0
June, 2021	0	9477	0	9477
July, 2021	0	24295	0	24295
August, 2021	99	32682	0	32781
September, 2021	346	36954	0	37300
October, 2021	2156	33942	0	36098
November, 2021	6380	35675	0	42055
December, 2021	28158	61637	150	89945
January, 2022	971	18386	0	19357
February, 2022	1685	23741	5000	30426
March, 2022	2947	50778	2000	55725
Total	42796	384792	7150	391942



## F. Kurukshetra Panorama & Science Centre, Kurukshetra (on site)

Visitors' Profile in the last five years at KPSC, Kurukshetra (Excluding Outreach Visitors)

Year	Total Visitors
2017-18	630263
2018-19	676563
2019-20	608256
2020-21	112618
2021-22	427588



## LIST OF EXHIBITS DEVELOPED / RENOVATED/ PROCURED

## A. National Science Centre, Delhi

S.No.	Name of the Exhibit	Qty.	Gallery/ Project	New Duplicate /Renovated
1.	Virtual Flip Book	1	HIMCOST (Shimla)	Renovated
2.	Ask the Expert	1	HIMCOST (Shimla)	Renovated
3.	Properties of Water	1	HIMCOST (Shimla)	Renovated
4.	Unmanned Quiz	1	HIMCOST (Shimla)	Renovated
5.	Water in You	1	HIMCOST (Shimla)	Renovated
6.	We are Thirsty because We are Hungry	1	HIMCOST (Shimla)	Renovated
7.	Floating Balls	1	HIMCOST (Shimla)	Duplicate
8.	Fun Mirrors	1	HIMCOST (Shimla)	Duplicate
9.	Illusion with a Ring / Dancing ring	1	HIMCOST (Shimla)	Duplicate
10.	Musical tubes	1	HIMCOST (Shimla)	Duplicate
11.	Acrobatic Stick	1	HIMCOST (Shimla)	Duplicate
12.	Photo Collage	1	HIMCOST (Shimla)	Duplicate
13.	Colour Pyramid	1	HIMCOST (Shimla)	Duplicate
14.	Colour Shadow	1	HIMCOST (Shimla)	Duplicate
15.	Vortex	1	HIMCOST (Shimla)	Duplicate
16.	Up or down	1	HIMCOST (Shimla)	Duplicate
17.	Curving Tunnel/ Infinity Tunnel	1	HIMCOST (Shimla)	Duplicate
18.	All Roads Lead to Rome	1	HIMCOST (Shimla)	Duplicate
19.	Energy Ball (Wall Mounted)	1	HIMCOST (Shimla)	New
20.	Head on a Plater	1	HIMCOST (Shimla)	New
21.	Floating Objects? Wind Table	1	HIMCOST (Shimla)	Duplicate
22.	Kaleidoscope	1	HIMCOST (Shimla)	Duplicate
23.	Planetary Motion	1	HIMCOST (Shimla)	Duplicate
24.	Rotating Platform	1	HIMCOST (Shimla)	Duplicate
25.	Musical Infrared Harp/ Music in air	1	HIMCOST (Shimla)	Duplicate
26.	Impossible Mixture	1	HIMCOST (Shimla)	Duplicate
27.	Anamorphoses	1	HIMCOST (Shimla)	Duplicate
28.	Straight Line to Hyperboloid	1	HIMCOST (Shimla)	Duplicate
29.	Visualizing Sound	1	HIMCOST (Shimla)	Duplicate
30.	Curie Point	1	HIMCOST(Shimla)	Duplicate
31.	Walk in air	1	HIMCOST(Shimla)	Duplicate
32.	Crazy Maze/ Skill game	1	HIMCOST(Shimla)	Duplicate
33.	Loop the Loop	1	HIMCOST(Shimla)	Duplicate
34.	Infinity Well	1	HIMCOST(Shimla)	Duplicate
35.	Pepper's Ghost Illusion	1	Travelling Exhibition Azadi Ka Amrit Mahautsav	Duplicate
36.	Water Wall	1 1	Travelling Exhibition Azadi Ka Amrit Mahautsav	NEW

S.No.	Name of the Exhibit	Qty.	Gallery / Project	New Duplicate /Renovated
37.	Interactive Sand Table	1	Travelling Exhibition Azadi Ka Amrit Mahautsav	Duplicate
38.	Concentration	1	Travelling Exhibition Azadi Ka Amrit Mahautsav	Duplicate
39.	Walk in air	1	RSC Jaipur Fun Science Exhibit Renovation work	New
40.	Kaleidoscope	1		Duplicate
41.	Rotating Chair	1	Ambala, Almora Fun Science	Duplicate
42.	Impossible mixture	1	Ambala, Almora Fun Science	Duplicate
43.	Rope walk	1	Almora Fun Science	Duplicate
44.	Up or Down	1	Almora Fun Science	Renovated
45.	Hit the ball if you can	1	Ambala, Almora Fun Science	Renovated
46.	Shaded Pole Motor	1	Ambala Fun Science	Renovated
47.	Stop the Fan	1	Almora Fun Science	Duplicate
48.	Liquid Painting	1	Ambala Fun Science	Renovated
49.	Rotating sand disc	1	Ambala Fun Science	Renovated
50.	Velvet Hands	1	Almora Fun Science	New
51.	Express Route	1	Almora Fun Science	Renovated
52.	Loop the Loop	2	Almora Fun Science	Duplicate
53.	Where do you feel comfort	1	Ambala, Almora Fun Science	Renovated
54.	Straight Line to Hyperboloid	1	Almora Fun Science	Renovated
55.	Vortex	1	Almora Fun Science	Renovated
56.	Interference of waves	1	Ambala Fun Science	Duplicate
57.	Film Corner – Video (15:32 minutes)	1	PSC Palampur	New
58.	T Rex – Video (01:53 minutes)	1	Pre-Historic life gallery	New
59.	Brachiosaurus – Video (02:04 minutes)	1	Pre-Historic life gallery	New
60.	Stegosaurus– Video (01:56 minutes)	1	Pre-Historic life gallery	New
61.	Trilobites– Video (02:02 minutes)	1	Pre-Historic life gallery	New
62.	Anomalocaris– Video (01:49 minutes)	1	Pre-Historic life gallery	New
63.	Virtual Tornado- Unity Based Multimedia	1	PSC Palampur	New
64.	Volcano- Projection Mapped video	1	PSC Palampur	New
65.	Water Pledge - Multimedia	1	Water: The Elixir of Life gallery	New
66.	The instrument of accession- Virtual Flipbook	1	Uniting India: Sardar Patel gallery	Renovated
67.	Alternate Medicine: Ask the Expert Dual display based Multimedia	1	Traditional Medicine exhibition	Renovated

S.No.	Name of the Exhibit	Qty.	Gallery / Project	New Duplicate /Renovated
68.	Know Your Constitution	1	Traditional Medicine exhibition	New
69.	Properties of Water – Switch operated multimedia	1	Himcoste (Smart electronic displays), Shimla	New
70.	Water Usage- Virtual Flipbook	1	Do	Duplicate
71.	Water Quiz- Unmanned Quiz Corner	1	Do	Duplicate
72.	Water in you- Weighing scale based multimedia	1	Do	Duplicate
73.	Water borne Disease: Ask the Expert Dual display based multimedia	1	Do	Duplicate
74.	We are thirsty because we are hungry Quad display based multimedia	1		Duplicate
75.	Nature fight back	1	HB Gallery	Duplicate
76.	We fight nature	1	HB Gallery	Renovated
77.	Blood give & take	1	HB Gallery	Renovated
78.	Unmanned quiz	2	HB Gallery	Renovated
79.	Remote control	1	HB Gallery	Renovated
80.	Where sound came from	1	HB Gallery	Renovated
81.	Light & sound show	1	Heritage Gallery	Renovated
82.	Herbs for Body	1	Traditional Medicine	Renovated
83.	Control circuit of all Dinosaur	1	Traditional Medicine	Renovated
84.	Unani medicine	1	Traditional Medicine	New
85.	Lets Identify	1	Traditional Medicine	New
86.	Rhythm Cycle	1	Traditional Medicine	New
87.	Volcano	1	Palampur Science center	New
88.	Pangea	1	Palampur Science center	New
89.	Tornado	1	Palampur Science center	New
90.	Floating ball	1	Palampur Science center	New
91.	Timeline	1	Palampur Science center	New
92.	Hologram	1	Azadi ki amrit mahotsab	New
93.	Interactive water wall	1	Azadi ki amrit mahotsab	New
94.	Augmented Reality	1	Azadi ki amrit mahotsab	New
95.	Concentration	1	Azadi ki amrit mahotsab	New
96.	Virtual interactive	1	Aryabhatta science Center,Ambala	New
97.	Human body system	1	Aryabhatta science Center,Ambala	New
98.	Avalanche disc	1	Shimla Project	New

S.No.	Name of the Exhibit	Qty.	Gallery / Project	New Duplicate /Renovated
99.	Water in you	1	Shimla Project	New
100.	Unmanned quiz	1	Shimla Project	Duplicate
101.	Floating ball	1	Shimla Project	Duplicate
102.	Flip book water properties	1	Shimla Project	Duplicate
103.	Astronomy quiz	1	RSC jaipur Project	Duplicate
104.	Endoscopy	1	RSC jaipur Project	New
105.	History of medicine	1	RSC jaipur Project	New
106.	Bio quiz	1	RSC jaipur Project	New
107.	CT Scan	1	RSC jaipur Project	Duplicate
108.	Astronomy Cluster	1	RSC jaipur Project	Duplicate
109.	Red blue shift	2	RSC jaipur Project	New
110.	What stuff the universe	1	RSC jaipur Project	Duplicate
111.	Small video diorama	1	HB Gallery	New
112.	Educational Kits	1	Heritage Gallery	New

Total Exhibits = 120

## B. Regional Science City, Lucknow

S.No.	Name of the Exhibit/Kit/Multimedia	Gallery/Project	Quantity	New/Duplicate /Renovated
1.	Kaplan turbine	Fluidics	1 No.	Renovated
2.	Depth spinner	Science Park	1 No.	Renovated
3.	Enzymes a perfect lock and key	Biotechnological Revolution	1 No.	Renovated
4.	Water in the earth	Water Gallery	1 No.	Renovated
5.	Science of sailing	Under water Exploration	1 No.	Renovated
6.	Crazy Maze	Science Park	1 No.	Renovated
7.	Probability Curve	Portable exhibit	1 set	New
8.	Expanding Cube	Portable exhibit	1 set	New
9.	Magic stick	Gallery Exhibit	1 set	New

Total Exhibits -09

## C. Kurukshetra Panorama & Science Centre, Kurukshetra

S.No.	Name of the Exhibit/Kit/Multimedia	Gallery/Project	Quantity	New/Duplicate /Renovated
1.	Reaction Time	Gallery Exhibit	1 No.	New
2.	Catch the Balls	Gallery Exhibit	1 No.	New
3.	Xylophone	Gallery Exhibit	1 No.	New
4.	Chaotic Wheel	Science park Exhibit	1 No.	New
5.	Pin Hole Camera	Portable exhibit	1 No.	New
6.	Vortex	Portable exhibit	1 No.	New
7.	Crazy Maze	Portable exhibit	1 No.	New
8.	Probability Curve	Portable exhibit	1 No.	New
9.	Chaotic Pendulum	Portable exhibit	1 No.	New
10.	Infinity Tunnel	Portable exhibit	1 No.	New
11.	Pythagoras Theorem	Portable exhibit	1 No.	New
12.	Anamorphosis	Portable exhibit	1 No.	New
13.	Cone Runs Uphill	Portable exhibit	1 No.	New
14.	All Roads Lead to Rome	Portable exhibit	1 No.	New
15.	Kaleidoscope	Portable exhibit	1 No.	New
16.	Floating Ball	Gallery Exhibit	1 No.	Renovated
17.	Spinning Wane	Gallery Exhibit	1 No.	Renovated

Total Exhibits = 17



## LIST OF POPULAR SCIENCE LECTURES

## A. National Science Centre, Delhi

S. No.	Date	Title	Speaker	No. of Audience
1.	07.04.2021	"Development of Medical Science in the past 75 years"	Padmashri Dr. K.K Aggarwal President of the Heart Care Foundation of India	144
2.	11.05.2021	"Let's Innovate to Learn"	Prof. Pankaj Tyagi Cluster Innovation Centre University of Delhi	50
3.	05.06.2021	Ecosystem Restoration: Reimagine. Recreate. Restore	Dr Shalini Dhyani Senior Scientist Water Technology & Management Division, National Environmental Engineering Research Institute, Nagpur	105
4.	09.07.2021	Decennial Census in India Past Practices and Future Perspective	Sh A. K Samal, Senior Consultant (Retd Dy Registrar General, ORGI	300
5.	22.07.2021	Ancient DNA Studies: A modern scientific tool to understand our past	Dr. K. Thangaraj, Director, Centre for DNA Fingerprinting & Diagnostics, Hyderabad, Telangana	100
6.	13.08.2021	Bharat @75 Years	Prof. Dinesh Gehlot, Department of Political Science, Jai Narayan Vyas University, Jodhpur, Rajasthan,	86
7.	23.09.2021	हिन्दी एक वैज्ञानिक भाषा	Prof. Sunil Kumar Tiwari, Professor, Shaheed Bhagat Singh College, Department of Hindi, University of Delhi	40
8.	28.09.2021	Underwater Archaeology in India	Dr. Alok Tripathi, Additional Director-General, Archaeological Survey of India	40
9.	01.10.2021	Gandhi ji and Science	Sh. Uttam Kumar Sinha, Joint Director, National Gandhi Museum, Rajghat, New Delhi	100

S. No.	Date	Title	Speaker	No. of Audience
10.	06.10.2021	Wildlife of India- An Overview	Dr. Devender Kumar, Evaluating and Monitoring Officer, Central Zoo Authority, Govt. of India	90
11.	07.10.2021	Internet, Covid and Us: Exploring the Implications	Dr.Yatan Pal Singh Balhara, Additional Professor, AIIMS, New Delhi	90
12.	08.10.2021	My Experience as a psychologist working in with police and prisons	Prof. Rajat Mitra, Faculty, Amity University Noida	115
13.	25.01.2022	Himalaya Adventure	Air Vice Marshal (Retd.) Suryakant Chintaman Chafekar	646
14.	28.02.2022	Era of Radioactive to Hydroactive Green Energy to Save Earth	Dr. R.K. Kotnala, Chief Scientist(Ex); NPL, New Delhi and Chairman, National Accreditation Board for testing and Calibration laboratories(NABL), Gurugram	100

#### B. Regional Science City, Lucknow

S. No.	Date	Title	Speaker	No. of Audience
1.	22.04.2021	'Restore our Earth'	Prof. Ajay Mishra, Head Geology Department, Lucknow University, Lucknow	50
2.	25.05.2021	भारतीय स्वतंत्रता के व्यापक आयाम	Dr Brijendra Pandey, Political Science Department, Vidyant Hindu PG College, Lucknow	255
3.	05.06.2021	'Ecosystem Restoration: Reimagine. Recreate. Restore	Prof. Amita Kanoujia, Zoology Department, Lucknow University, Lucknow	263
4.	22.07.2021	Ground Water Recharging & Aquifer Management'	Shri D.K. Sharma, Former Manager & Advisor Ground Water Department, UP	129

S. No.	Date	Title	Speaker	No. of Audience
5.	16.09.2021	Ozone for Life: 36 Years of Ozone Layer Protection	Prof. Dhruv Sen Singh, Geology Department, Lucknow University & Director, Institute of Hydrocarbon Energy & Geo Resources, Lucknow	300
6.	21.09.2021	125th Years of Radioactivity	Prof. Sudha Jain, Chemistry Department, Lucknow University, Lucknow	200
7.	28.09.2021	Science, Society & Science as Culture	Dr. C.M. Nautiyal, Formerly Scientist in-Charge, Radiocarbon Laboratory, Birbal Sahni Institute of Palaeosciences, Lucknow	78
8.	31.10.2021	राष्ट्रीय एकता का संस्कृतिक सन्दर्भ	Dr Brijendra Pandey, Political Science Department, Vidyant Hindu PG College, Lucknow	256
9.	22.07.2021	Independent India@75:Self Reliance with Integrity	Shri P.K. Mohanti, OSD, Central Vigilance Commission	25
10.	13.08.2021	Azadi ka Amrit Mahotsav and 75th years of Independence	Dr. Ratnesh Kumar Mishra, Professor, Political Science Department, Jawahar Lal Nehru PG College, Etah, UP	53
11.	23.09.2021	Sciencetoon	P.K Srivastava, Sen. Scientist CSIR-CDRI	73
12.	28.09.2021	'Controlling the Pollution & Our responsibility	Shri Imran Ahmad Khan, Environmental Engineer, Uttar Pradesh Pollution Control Board, Lucknow	125
13.	01.10.2021	Transformation in the Energy Sector: Present Scenario and its Future	Prof. Vibhuti Rai, Geology Department, University of Lucknow	150

S. No.	Date	Title	Speaker	No. of Audience
14.	17.12.2021	“Dengue fever control and Prevention ”	Dr. Manvendra Tripathi, Senior Entomologist, O/O Additional director Medical health and family welfare, Lucknow division situated in Urbancommunity center Aliganj, Lucknow	81
15.	12.01.2022	Swami Vivekanand: A Vision for Youth	Shri Hira Singh, Principal Scientist, RSCAC & Coordinator Ramkrishna Mission Math	75
16.	04.02.2022	Cancer as a lifestyle disorder	Dr. Sudhir Mehrotra, Head, Department of Biochemistry, University of Lucknow	150
17.	25.02.2022	Communicating Science to Millions: Regional Science City, Lucknow	Dr. Raj Mehrotra, PC, RSCL	50
18.	28.02.2022	Nuclear power energy: Safe way for electricity generation	Shri Amritesh Srivastava, Senior Manager, The Nuclear Power Corporation of India Limited (NPCIL), Mumbai	91
19.	28.02.2022	COVID 19 Learn to live with virus	Dr Shailendra K Saxena, Vice Dean and Prof. KGMU, Lucknow	80
20.	08.03.2022	Women in leadership: Achieving an equal future in a COVID-19 world	Prof. Nishi Pandey, Department of English and Modern European Language & Director Women's Development Centre, University of Lucknow	150
21.	26.03.2022	Stem Cell Research and Therapy	Shri Imran Ahmad Khan, Environmental Engineer, Uttar Pradesh Pollution Control Board, Lucknow	150
22.	06.03.2022	How to fill the Inspection Questionnaire of the Parliamentary Committee on Official Language	Prof. Vibhuti Rai, Geology Department, University of Lucknow	15

### C. Kurukshetra Panorama & Science Centre, Kurukshetra

S. No.	Date	Title	Speaker	No. of Audience
1.	21.06.2021	Yoga for Peace & Prosperity	Sh. K. Srinivasa Nehru, Project Coordinator	60
2.	23.02.2022	From the Annals of History of Science	Dr. J. K. Bhargava, SC 'G', Institute for Systems Studies & Analyses, Metcalfe House, Delhi	150
3.	24.02.2022	75 Milestones from the world of Indian Science & Technology	Dr. R. K. Moudgil, Professor, Department of Physics, Kurukshetra University, Kurukshetra	150
4.	25.02.2022	Swadeshi-Paramparik Vigyan & Praudyogiki: Inventions and Innovations	Dr. Ellora Sen, PhD, Scientist VI & Professor, National Brain Research Centre, Department of Biotechnology, Ministry of Science & Technology, Manesar, Haryana	120
5.	26.02.2022	Science Literature	Professor B. V. Ramana Reddy, Director, National Institute of Technology, Kurukshetra, Haryana	200
6.	27.02.2022	The Road ahead for next 25 years of Indian Science & Technology	Dr. A. R. Chaudhari, Director, Centre of Excellence for Research on the Saraswati River, Kurukshetra University, Kurukshetra	150

## Annexure-IV

### COMMITTEE MEMBERS (2021-22) EXECUTIVE COMMITTEE NSC, DELHI

1.	Shri G. S. Rautela Former Director General, NCSM C-211, Panache Valley Sahasrtradhara Road, Dehradun Uttarakhand-248001	8.	The Director Ministry of Culture, Govt. of India, 329 C Wing, Shastri Bhawan, New Delhi-110001 Or A representative of Ministry of Culture not below rank of Dy. Secretary
2.	Dr. Dinakar Kanjilal, FNA, FNASc Former Director Inter-University Accelerator Centre(IUAC) Aruna Asaf Ali Marg, New Mehrauli Road New Delhi-110067	9.	Shri A. D. Choudhury Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar Kolkata- 700091
3.	Prof. P.V. Madhusudhan Rao Head, Department of Design Indian Institute of Technology (IIT) Hauz Khas New Delhi-110016	10.	Shri D. Rama Sarma Director National Science Centre, Pragati Maidan, Near Gate No.4 Bhairon Marg, New Delhi –110001
4.	Shri Nakul Parasar Director Vigyan Prasasr New Delhi-110066	11.	Shri N. Ramdas Iyer Curator 'G' National Science Centre Pragati Maidan, Near Gate No.4 Bhairon Marg, New Delhi – 110001
5.	Shri Suresh Sharma Director National School of Drama New Delhi	12.	Dr. Raj Mehrotra Curator 'F' & Project Coordinator, Regional Science City, Aliganj Extension, Sector-E (Ekta Vihar), Lucknow-226024
6.	Prof. Dr. Chitra Sarkar Head, Neuropathology & Dean(Research) AIIMS, New Delhi-110029	13.	Dy. Controller of Administration National Science Centre, Pragati Maidan, Near Gate No.4, New Delhi – 110001
7.	Secretary Department of Education Govt. of NCT, Delhi Old Secretariat, Civil Lines Delhi-110054		

## COMMITTEE MEMBERS

### PLANNING & PROGRAMMING COMMITTEE, NSC, DELHI

1.	Dr. Dinakar Kanjilal, FNA, FNASc Former Director Inter-University Accelerator Centre(IUAC) Aruna Asaf Ali Marg, New Mehrauli Road New Delhi-110067	8.	Dr. Rajiv Choudhary Professor of Mech. Engg., Delhi Technological University Shahbad Daultapur, Main Bawana Road Delhi-110042
2.	Dr. Sridhar Sivasubbu Principal Scientists, Room No. 106 CSIR-IGIB, Sukhdev Vihar Mathura Road, New Delhi-110025	9.	Shri A. D. Choudhury Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar Kolkata- 700091
3.	Ms. Kinkini Dasgupta Scientist, Vigyan Prasar 5th Floor Prithvi, Opp. India Habitat Centre Lodhi Road, New Delhi-110003	10.	Shri D. Rama Sarma Director National Science Centre, Pragati Maidan, Near Gate No.4 Bhairon Marg, New Delhi -110001
4.	Dr. K. Thyagarajan HoD (Physics), Bennet University Plot Nos. 8-11, Tech Zone 2 Greater Noida, Uttar Pradesh-201310	11.	Shri N. Ramdas Iyer Curator 'G' National Science Centre Pragati Maidan, Near Gate No.4 Bhairon Marg, New Delhi - 110001
5.	Prof. Dinesh Kumar, Head Department of Education in Science and Mathematics (DESM) NCERT, New Delhi	12.	Shri Vijay Shanker Sharma Curator 'F', National Science Centre Pragati Maidan, Near Gate No.1 Bhairon Marg, New Delhi
6.	Dr. Abdul Latif Khatana Associate Professor Acting & Chief Theatre in Education National School of Drama Bahawalpur House, 1, Bhagwandas Road New Delhi-110001		
7.	Dr. Mohit Gambhir Innovation Director Innovation Cell, Ministry of HRD, Govt. of India, New Delhi		

## LOCAL ADVISORY COMMITTEE, RSC, LUCKNOW

1.	Dr. Prabodh Kumar Trivedi Director CSIR- Central Institute of Medicinal & Aromatic Plants, Near Kukrail Picnic Spot Lucknow-226 015, U.P.	8.	Shri Brajendra Singh Member of Management Committee Chain of Pioneer Montessori Schools & Colleges, PMS Hdqrs. 649 /640, Sector-3, Eldeco Udyan-I, Lucknow
2.	Dr. I.D. Ram Secretary Council of Science & Technology, UP VigyanBhawan, Suraj Kund Park 9 Nabiullah Road, Lucknow-226 018	9.	Mrs. Neha Singh Director, Academics & Innovation Lucknow Public Schools & Colleges Jupiter Squire, Devpur Para, Hardoi Ring Road, Lucknow-220017
3.	Shri R.N. Bhargava Chairman-cum-Managing Director ECOMEN Laboratories Pvt. Ltd. H.O. Flats No. 5-8, 2nd Floor Arif Chamber-V, Sector-H Aliganj, Lucknow-226 024, U.P.	10.	Shri Surendra Kumar Tiwari Joint Director (Education) Lucknow Division, Siksha Bhawan, 58, Jagat Narayan Road Near City Station , Lucknow- 226003, U.P.
4.	Shri P. K. Srivastava Dy. Director (Sr. Principal Scientist)- Ex. CSIR-Central Drug Research Institute, R/o House No. 4/218, Jankipuram Extension Lucknow-226021	11.	Shri D. Rama Sarma Director National Science Centre, Pragati Maidan, Near Gate No.4, Bhairon Marg, New Delhi – 110001
5.	Prof. H.C. Verma Professor (retired) Dept. of Physics, Indian Institute of Technology (IIT), Kanpur -208016	12.	Dr. Raj Mehrotra Curator 'F' & Project Coordinator, Regional Science City, Aliganj Extension, Sector-E (Ekta Vihar), Lucknow-226024
6.	Shri Nimish Kapoor Scientist 'F' Vigyan Prasar, Noida		
7.	Shri Rajendra Kumar Singh Director, Lucknow Zoological Garden, Banarasi Bagh, Lucknow-226 001, U.P.		



## LOCAL ADVISORY COMMITTEE, KPSC, KURUKSHETRA

1.	Dr. Satish Kumar Director, National Institute of Technology Kurukshetra-136119, Haryana.	8.	Shri Arun Ashri District Education Officer, Kurukshetra-136119
2.	Dr. V.M. Murthy Professor, Department Of Instrumentation, Kurukshetra University, Kurukshetra – 136119, Haryana	9.	Smt. Geetika Jasuja Principal, DAV Public School, Sector - 3, Urban Estate, Kurukshetra-136118, Haryana
3.	Chief Executive Officer, Kurukshetra Development Board Kurukshetra-136118, Haryana	10.	Dr. Maha Singh Poonia Director, Deptt. of Youth and Culture Affairs, Kurukshetra University, Kurukshetra-136119, Haryana
4.	Shri Rajbir Singh Principal Scientist (SG) Haryana State Council of Science & Technology, Govt. of Haryana Bays No. 35-38, Sector-2, Panchkula, Haryana-134109	11.	Shri D. Rama Sarma Director National Science Centre, Pragati Maidan, Near Gate No.4, Bhairon Marg, New Delhi – 110001
5.	Shri Sudarshan Agrawal Managing Partner Agrawal Extrusions Pvt. Ltd. G.T. Road, Kurukshetra, Haryana	12.	Sh. K.S. Nehru Project Coordinator, Kurukshetra Panorama & Science Centre, Kurukshetra-136118, Haryana
6.	Director, SCERT, Haryana or his Nominee		
7.	Sh. Sameer Diwan Superintendent Archaeologist Sheikh Chilli Tomb, Darra Khera, Kalyan Nagar, Thanesar, Kurukshetra-136118		



DCSN



सत्यमेव जयते

Ministry of Culture  
Government of India



## National Science Centre, Delhi

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Ministry of Culture, Government of India

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