

Brief Profile of Centre of Excellence

Name of Centre : **C. V Raman Centre for Science Communication**

Name of Coordinator :

Name of the Advisors :

S. No	Name	Org	Mob. No	E-Mail	Area of Expertise
01.	Dr Arvind C Ranade	NIF, India	9871439594	arvind.c.ranade@gmail.com	Science Communication
02.	Dr M M Gore	NIScP R, N. Delhi	9999275292	mmg@niscpr.res.in	Science Communication
03.	Dr Vikas Shende	MPCS T, MP	9926365747	shende.v@gmail.com	Principal Scientist
04.	Dr K C Radhakrishnan	DPI, MP	8839231968	drk1967@gmail.com	State Science Officer

Objective/s of the Centre : Centre for Science Communication (CSC) is designed to provide reliable Sci-Tech info in easy and understandable language and means. The purpose of CSC goes to the very core of the country's quest for building quality institutions with requisite research facilities and to create and leverage of a pool of highly educated/trained professionals. The participating students/institutions would connect to CSC at core level with full of energy. CSC shall be a critical information providing infrastructure for both institutions to evolve as a knowledge society. CSC is significant step which will enable their faculty, scientists, researchers and students from across the M.P to work together for advancing human development.

Goals:

- **Public Engagement:** To engage the general public with science and technology through various means such as public lectures, exhibitions, workshops, and interactive events.
- **Education and Outreach:** To develop educational programs and resources that make complex scientific concepts accessible to learners of all ages and backgrounds.
- **Science Literacy:** To improve scientific literacy by providing accurate, understandable, and relevant information to the public, empowering them to make informed decisions in matters related to science and technology.
- **Partnerships and Collaborations:** To collaborate with scientific institutions, educational organizations, museums, government agencies, and other stakeholders to enhance science communication efforts.

Functions of the Centre :

1. Projects:

Completed:

Mission Eco-Next Project: Mission Eco-Next was a collaborative initiative organized by the National Council for Science & Technology Communication (NCSTC), DST, Govt of India and Rabindranath Tagore University. The event aimed to promote environmental awareness, sustainable practices, and scientific innovation among students of 5 rural districts of Madhya Pradesh viz. Raisen, Vidisha, Khandwa, Rajgarh and Singrauli. Each training was five days residential programme. The event spanned almost a year encompassed a series of nature activities, field trips, science lecture, and interactive sessions.

2. Science Awareness Programme in Tribal School of MP: Science Awareness programme in tribal school of MP is collaborative initiative organised by Madhya Pradesh council of

Science and Technology (MPCST) & Rabindranath Tagore University. The objective of this project is to encourage scientific temper and create awareness about science among the students of Scheduled Tribes. In this project total 15 tribal schools are chosen for conducting programmes.

The following activities have been included under the one-day science awareness program:

- Conducting science demonstration lectures:
- Organizing subject-related lectures Organizing science film exhibition:
- Conducting a science quiz:
- Conducting Sky Observation Programme:

Submitted:

1. Traditional and novel modes of hands-on stem & demonstrations, scientific media & scientific literacy”:

Summery The project is conceived with an aim to promote inclusivity and diversity in STEMM fields by offering hands-on experiences, demonstrations, and science media that are accessible and appealing to individuals from diverse backgrounds as well as to spread awareness in rural areas to encourage them to pursue STEM education and careers.

Date of Submission: July 2023

Budget: Rs.82,80,000 /-

Institute: NCSTC, DST

Status: Pending

2. Enhancing Scientific Literacy & Nature Awareness Through Hands-on Learning Activities:

Summery: This project aims to improve scientific literacy and nature awareness among students through engaging, hands-on learning activities. By integrating interactive, experiential learning methods into the curriculum, students will develop a deeper understanding of scientific concepts and an appreciation for the natural world. This approach emphasizes active participation, critical thinking, and real-world applications of scientific principles.

Date of Submission: July 2024

Budget: 90,36,500/-

Institute: NCSTC, DST

Status: Pending

3. Publications: Centre for Science Communication published following books/Monograph in year of 2022-2023.

S. No	Name	Writer/ Editor	ISBN	<i>Publication</i>
1.	Monograph on Albert Einstein	Dr. Pradeep Mukherjee	978-81-962017-5-3	AISECT Publication
2.	Monograph on Pythagoras	Dr. Kulwant Singh	978-81-962017-4-6	AISECT Publication
3.	Monograph on Sir Mokshagundam Visvesvaraya	Dr. Anamika Anu	978-81-964699-7-9	AISECT Publication
4.	Monograph on Isaac Newton	Mr. Pramod Bhargva	978-81-962017-2-2	AISECT Publication
5.	Monograph on Prashant Chandra Mahalanobis	Dr. M M Gore	978-81-962017-1-5	AISECT Publication
6	Monograph on Megnad Saha	Prof. Dinesh Mani	978-81-962017-3-9	AISECT Publication
7.	Monograph on Dr. Vikram Sarabhai	Ms. Shashi Shukla	978-81-961333-9-9	AISECT Publication
8.	Monograph on Dr. A.P. J Abdul Kalam	Mr. Laxman Prasad	978-81-961332-9-0	AISECT Publication
9.	Monograph on Satyendra Nath Bose	Dr. Shubhrata Mishra	978-81-962017-0-8	AISECT Publication
10	Prashn Upasthit Nitya Naye (Vigyan Kavita Kosh: Volume I)	Mr. Santosh Choubey	978-81-19772-13-1	AISECT Publication
11.	Prathvi Khojti Ho Apna Hona (Vigyan Kavita Kosh: Volume II)	Mr. Santosh Choubey	978-81-19772-02-5	AISECT Publication
12.	Abhedh Hai Jo Vishal Hai (Vigyan Kavita Kosh: Volume III)	Mr. Santosh Choubey	978-81-19772-50-6	AISECT Publication

4. Events/ Activities: Following activities were conducted by Centre for Science Communication in 2023-24.

S. No	Type of Event/Guest Lecture	Date	No. of Participant	Co- Organizer
01	Ramyan me Gyan Vigyan	25 Jan 24	100	Department of Humanity
02.	National Science Day	28 Feb 2	60	Faculty of Science
03.	World Earth Day	22 April 24	50	NSS Unit
04.	National Tech. Day	11 May 24	100	Faculty of Engineering
05.	Science Popular lecture	27May 24	100	Faculty of Nursing
06	World Environment Day	05 June 24	80	Faculty of Science
07.	World Youth Day	12 August 24	25	AIC
08.	National Space Day	29 August 24	70	Faculty of Science
09.	Remembering Acharya Prafulla Chandra Ray	28 August 24	100	Faculty of Nursing
10.	Celebration of Sir C V Raman Birthday	7 November 24	50	Faculty of Science
11.	Science Demonstration Lecture at various schools	Throughout the school	1200	

5. Outreach Programme:

Science Demonstration Lecture & Sky Observation Programme: Centre for Science Communication conducted Science Demonstration Lecture (SDL) in various schools and Departments of RNTU throughout the year.

S. No	Event	Date	Venue	No. of Participant
1	Sky Observation Programme	31.01.24	RNTU Campus	30
2	Sky Observation Programme & official inauguration of telescope	16.03 24	RNTU Campus	70
3.	Science Demonstration Lecture	24.4.24	C. M Rise School, Shahpur, Betul	70
4.	Science Demonstration Lecture	25.4.24	Govt. High School, Kundi, Betul	110
5.	Science Demonstration Lecture	26.4.24	Govt. Girls Excel. School, Shahpur, Betul	120
6.	Science Demonstration Lecture	27.4.24	Govt. High School, Salimet, Betul	90
7.	Science Demonstration Lecture	29.4.24	Govt. Boys H S School, Bhoura, Betul	60
8.	Science Demonstration Lecture	30.4.24	Govt. Girls H S School, Bhoura, Betul	105
9.	Science Demonstration Lecture	02.07.24	Govt. Higher Secondary School, Pathrota, Narmadapuram	70
10.	Science Demonstration Lecture	04.07.24	Govt. High School, Saheli, Namadapuram	80
11.	Science Demonstration Lecture	06.07.24	Govt. High School, Dhar, Namadapuram	60
12.	Science Demonstration Lecture	08.07.24	Govt. High School, Taku, Namadapuram	50
13.	Science Demonstration Lecture	09.07.24	Govt. High School, Kesla, Namadapuram	80
14.	Science Demonstration Lecture	10.07.24	Govt. C.M Rise School, Sukhtava, Namadapuram	50

15.	Science Demonstration Lecture	16.07.24	Govt. Excellence Hr. Sec. School, Kesla, Namadapuram	100

Future Plan for Expansion of the Centre : The Centre for Science Communication aims to expand the centre with the following activities:

- **Science Demonstration Lecture & Sky Observation Programme:** Expand outreach efforts by conducting more science demonstration lectures and sky observation programs in schools.
- **Mobile Science Exhibition:** Develop a mobile science exhibition that can travel to different communities, reaching audiences beyond the Centre's physical location.
- **Diploma Course:** Establish a diploma course in science communication to train aspiring science communicators.
- **Projects:** Applying for more government project to self-sustained the centre.

Achievement:

Any other details. C. V. Raman Centre for Science Communication publishes a monthly science magazine “Electroniki Aapke Liye” since 1988. It is the only magazine which brings science & technology to Hindi-speaking audience.

Electroniki Aapke Liye has garnered recognition for its contributions. It has been awarded the Rashtriya Bhasha Shield Award and prestigious literary awards like the Bharatendu Harishchandra Award, Saraswat Award, Rameshwar Guru Award etc

Details of Research projects (Govt. Funded/University funded)

S.No.	Title	Name of Principal Investigator	Sponsoring Agency	Fund Sanctioned	Fund Received	Date of Sanction and Duration (in year)	Status of project
1.	Mission eco next, eco routes & eco leads: to nurture young role models for resurgence of eco scientific traditions	Dr. Shambhu Awasthi Dr. Prabal Roy	NCSTC, DST, Govt. of India	27,23,094/-	10,00,000/-	13.02. 2020	Completed
2.	Science Awareness Programme in tribal school	Dr. Prabal Roy	MPCST	2,95,000/-		05.10. 2023	Completed
3.	Traditional and novel modes of hands-on stem & demonstrations, scientific media & scientific literacy”	Dr Prabal Roy	NCSTC, DST, Govt. of India	82,8000/-	-	July 2023	Pending
	Enhancing Scientific Literacy & Nature Awareness Through Hands-on Learning Activities:	Dr Prabal Roy	NCSTC, DST, Govt. of India	90,36,500/-	-	July 2024	Pending