

INTRODUCTION

National Science Day is a momentous occasion celebrated annually in India on February 28th. It commemorates the discovery of the Raman Effect by Indian physicist Sir C.V. Raman on February 28, 1928, for which he was awarded the Nobel Prize in Physics in 1930. This day holds immense significance as it pays homage to scientific achievements and promotes the importance of science in our lives. National Science Day fosters collaborations between the scientific community, academia, industries, and the government. It provides a platform for networking, sharing knowledge, and discussing challenges and opportunities in various scientific domains. Such collaborations are crucial for translating scientific research into practical applications that benefit society and drive economic growth.

Celebrating this day also highlights the indigenous scientific achievements of a country. In the case of India, it showcases its rich scientific heritage and the contributions of Indian scientists to the global scientific community. It instils pride and encourages investment in scientific research and development.

In essence, National Science Day is not just a day of celebration; it is a reminder of science's pivotal role in shaping our world. It encourages inclusivity, collaboration, and innovation, laying the foundation for a society that values knowledge, embraces scientific inquiry, and leverages technology for the greater good. It serves as a beacon of hope, inspiring the next generation of scientists and innovators to continue exploring, discovering, and pushing the boundaries of human knowledge.

राजस्थान विज्ञान महोत्सव

RAJASTHAN VIGYAN MAHOTSAV

राष्ट्रीय विज्ञान दिवस 2024

National Science Day – 2024

26-28 FEB 2024



विज्ञान से समृद्धि

“Indigenous Technologies for Viksit Bharat”

Organized By

Vigyan Bharati Rajasthan
CSIR-CEERI, Pilani (DSIR, Govt. of India)

University of Rajasthan, Jaipur

Department of Science and Technology

Government of Rajasthan



Supported By



RTU, Kota



BTU, Bikaner



SKNAU, Jobner



MNIT, Jaipur



NITTR
Chandigarh



NIA
Jaipur



ICAR-DRMR,
Bharatpur



INSA, New Delhi



NIF, Gandhinagar



CSIR-NIScPR, New Delhi



CCS-NIAM
Jaipur

EVENT ORGANIZER CORNER

- This year marks a momentous occasion as Vigyan Bharati Rajasthan, CSIR-CEERI Pilani, University of Rajasthan, and DST Rajasthan collaboratively joined hands to celebrate the Rajasthan Vigyan Mahotsav and National Science Day from February 26th to 28th, 2024. This event symbolises a harmonious convergence of scientific excellence and collaborative efforts to foster innovation and scientific awareness in Rajasthan.
- The Mahotsav will be a vibrant platform, bringing together CSIR labs, Academic Institutions, Industries, Start-ups, Academic Institutions, and Policymakers. It will showcase cutting-edge research, technological advancements, and entrepreneurial endeavours emerging from the region.
- Participants can engage in workshops, seminars, exhibitions, and interactive sessions, providing a unique blend of learning and networking. The event will celebrate the spirit of scientific inquiry and encourage dialogue and collaboration among diverse stakeholders.
- Furthermore, the Mahotsav will unveil insightful thoughts and strategies by policymakers, setting the stage for informed decision-making and policy formulation in science and technology.
- Overall, the Rajasthan Vigyan Mahotsav promises to be a dynamic and inclusive celebration of science, innovation, and collaboration, driving the state towards a brighter and more prosperous future.

Objective

- To celebrate the legacy of Dr. C.V. Raman and his path breaking discovery of the Raman Effect.
- To showcase the latest advancements in science and technology through interactive exhibits, workshops, and demonstrations.
- To cultivate a culture of scientific inquiry and innovation among students and the general public.
- To foster collaboration and knowledge exchange between academia, industry, and government agencies.
- To inspire young people to pursue careers in science and technology.

SCHEDULE AND ACTIVITIES



Venue – Rajasthan International Centre,
Jhalana, Jaipur
Time: 09:30 AM to 07:30 PM
Coordinated by: CSIR-CEERI, Pilani (Raj) India

EVENTS

- Inauguration of Rajasthan Vigyan Mahotsav
- CSIR Technology Demonstration
- Panel Discussion on: “Beyond the Lab: A Discussion on Science, Tech and Innovation”
- Astro-Night Tourism (Sky observation by telescope)



Venue – Humanity Auditorium, University of
Rajasthan, Jaipur
Time: 09:00 AM to 07:30 PM
Coordinated by: CNCER, University of Rajasthan,
Jaipur

EVENTS

- Inauguration of YSC & Vigyanika
- Key Note Talks
- Young Scientist Conference
- Vigyanika: A Science Literature Festival



Venue – Regional Science Centre and Science
Park, Shastri Nagar, Jaipur
Time: 11:00 AM to 7:30 PM
Coordinated by: Vigyan Bharati Rajasthan

EVENTS

- Inauguration of SIF & STTM
- Students Innovation Festival (SIF)/Model Competition
- Technology Expo
- Science & Technical Teachers Meet (STTM)
- Astro Night Tourism (Sky observation by telescope)
- Cultural Night

Note: On 27th Feb Feb, 2024 two parallel events are organised at two different venues



Venue – Regional Science Centre and Science
Park, Shastri Nagar, Jaipur
Time: 11:00 AM to 7:30 PM
Coordinated by: Vigyan Bharati Rajasthan

EVENTS

- Drawing/Quiz Competition
- Students Innovation Festival (SIF) & Technology Expo
- Session on “Life Support System”
- Talk on Vedic Mathematics
- Valedictory & Award Ceremony
- Astro Night Tourism (Sky observation by telescope)

LOCATIONS

SCAN THE QR CODES FOR VENUES



Venue – Rajasthan International Centre, Jhalana, Jaipur



Venue – Humanity Auditorium, University of Rajasthan, Jaipur



Venue – Regional Science Centre and Science Park, Shastri Nagar, Jaipur

CONTACT PERSONS

Vigyan Bharati, Rajasthan

- a. Er. Shailesh Jain: +91-9772202045; shailesh.c.jain@gmail.com
- b. Er. Sanjay Bansal; +91-9829056738; sanjaybansal09@gmail.com

CSIR-CEERI, Pilani

- a. Dr. Manish Mathew; +91-9414390684; manish@ceeri.res.in
- b. Dr. Vijay Chatterjee; +91-9996203470; vc@ceeri.res.in
- c. Mr. Ashutosh Kumar; +91-8058836972; ashutoshas124@gmail.com

University of Rajasthan, Jaipur

- a. Prof. S.N. Dolia; +91- 9414370172; Sndolia64@gmail.com
- b. Dr. Balram Tripathi; +91- 9460067015; Balramtripathi1181@gmail.com

DST - GoR

- a. Sh. Kailash Mishra; +91- 9314055612; Scienceparkjaipur@gmail.com

ABOUT THE ORGANIZERS



Vigyan Bharati Rajasthan: Vigyan Bharati Rajasthan (ViBha), is a state unit of Vijnana Bharati (also spelled as Vigyan Bharati), a non-profit organization dedicated to promoting science literacy and awareness among masses in the state. Vijnana Bharati has units in 22 states across the country and contacts in 4 states. It is working in 11 different areas through autonomous institutions, independent organizations & also as project entities. Vijnana Bharati works closely with various ministries and departments of Government of India to spread science among masses through various projects such as India International Science Festival (IISF), Vidyarthi Vigyan Manthan (VVM) etc. Vijnana Bharati has vast experience of organising India International Science Festival (IISF) since 2015, every year as lead partner of the Department of Science & Technology, Government of India, Ministry of Earth Sciences, Government of India.

Vigyan Bharati Rajasthan is a pioneering organization dedicated to promoting scientific temperament and innovation in the state of Rajasthan, India. With a focus on fostering a culture of scientific inquiry and technological advancement, Vigyan Bharati Rajasthan plays a crucial role in bridging the gap between academia, industry, and society.

Through various initiatives such as workshops, seminars, exhibitions, and competitions, Vigyan Bharati Rajasthan aims to ignite the curiosity of young minds and encourage them to explore the realms of science and technology.



Council Of Scientific And Industrial Research–Central Electronics Engineering Research Institute (CSIR–CEERI)

Founder Pillar was laid by our first Prime Minister, Pandit Jawahar Lal Nehru, on 21st September 1953. Central Electronics and Engineering Research Institute (CEERI) is a premier research and development institute under the Council of Scientific and Industrial Research (CSIR) Govt. of India. CSIR-CEERI has significantly impacted electronics and allied engineering, especially regarding microwave devices, sensor technologies, VLSI design, and Embedded Systems.

Broad area of expertise

- Semiconductor Sensors and microsystems
- Advanced Electronics Systems
- Microwave Devices and Systems

Major Thrust



Legacy

- To mention a few
- India's First Television Technology
- Microelectronic hybrid circuits for INSAT and SROSS satellites.
- provided the C-band space-TWT, which was the first of its kind
- Designed and developed the country's first Gyrotron
- Designed and developed Pulsed Magnetrons in S-Band for medical LINACs
- Electronic Instrumentation for Sugar Industry
- “Ksheer Scanner” has been developed to aid in the detection of contaminated milk samples dedicated to the nation.
- For the first time in our country (INDIA), technology for Gallium Nitride-based blue LED production has been successfully created
- Designed and developed various semiconductor-based sensors for the national interest

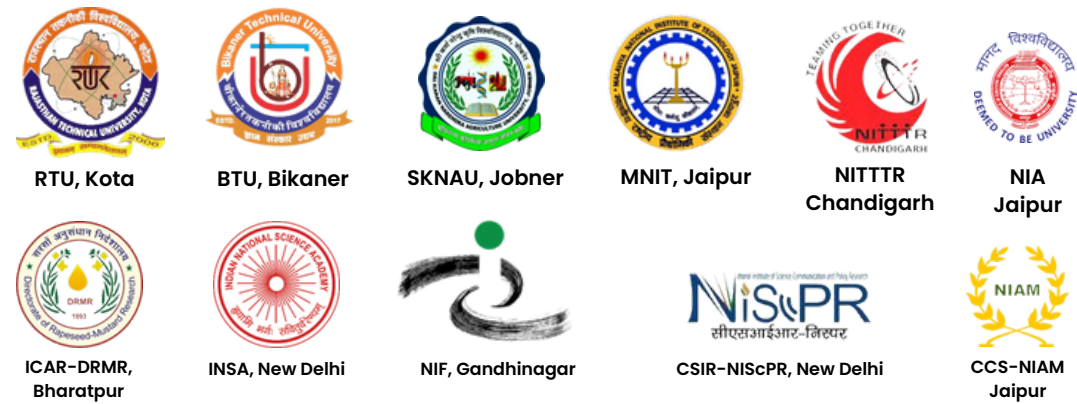


University of Rajasthan, Jaipur University of Rajasthan is a public and state university in Jaipur, Rajasthan, India and is one of the oldest universities in the state. It was set up on 8 January 1947 as the University of Rajputana in 1956 and the foundation stone of the current University Campus was laid by Shri C. Rajagopalachari on Sunday, the February 20, 1949. Spread in approximately 285.29 hectares (705.0 acres) on Jawaharlal Nehru Marg, also known as the central spine of Jaipur, the central campus incubates various departments, libraries, sports complexes etc. Many sports are organized every year in the university. The university has always accorded a high priority to games and sports. The university has a modern sports complex, and also a swimming pool, the latter has been the venue of many national swimming meets and inter university-national tournaments.



Department of Science and Technology, Govt. of Rajasthan: The department of Science and Technology was established in the Year 1983 to develop scientific temper in the society and to uplift the socio-economic status of the masses especially in the rural areas and the weaker section of the society with the input of science and technology. The department caters the need of science and technology requirements of the state and takes necessary measures to promote utilization of science and technology for enhancing socio economic status of the state. Various programmes and activities of the department are executed through well-established regional offices located at Ajmer (H.Q. Jaipur), Bikaner, Kota, Jodhpur and Udaipur. Addition to these regional offices State Remote Sensing Application Centre, Jodhpur is also working under this Department.

OUR COLLABORATORS



- Department of Science and Technology, Government of India
- Rajasthan Technical University (RTU), Kota
- Bikaner Technical University (BTU), Bikaner
- Shri Karan Narendra Agricultural University (SKNAU), Jobner
- Malviya National Institute of Technology (MNIT), Jaipur
- National Institute of Ayurveda (NIA), Jaipur
- National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh
- ICAR-Directorate of Rapeseed Mustard Research, (ICAR-DRMR), Bharatpur
- Indian National Science Academy (INSA), New Delhi
- National Innovation Foundation (NIF), Gandhinagar
- CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), New Delhi
- Chaudhary Charan Singh National Institute of Agricultural Marketing (CCS-NIAM), Jaipur

OTHER INFORMATIONS

Vigyanika - Science Literature Festival: As part of Vigyan Mahotsav, we present "Vigyanika," a vibrant Science Literature Festival on the 27th and 28th of February 2024. This festival celebrates the essence of science through engaging literature. Science communication is a proven method to disseminate scientific information and cultivate scientific awareness among the general populace. Vigyanika, with its primary objective of showcasing India's remarkable progress in S&T and charting a comprehensive roadmap for effective communication of S&T achievements, is positioned to facilitate in-depth discussions and dialogues. This will be achieved through various means, including keynote lectures, panel discussions, scientific sessions, and more. Furthermore, Vigyanika will encompass additional features such as a workshop and various online, and offline competitions. The Science Literature Festival features an Expo showcasing cutting-edge scientific developments, inviting participants to explore the frontiers of knowledge. Simultaneously, the Young Scientist Conference provides a platform for emerging talents to present their research, fostering a spirit of curiosity and innovation.

Young Scientist Conference (YSC): The Young Scientist Conference (YSC) aims to provide a platform for advancing aspiring researchers in frontier sciences. YSC will offer ample opportunities for young postgraduates, research scholars, postdocs, academicians, scientists, entrepreneurs, and innovators under the age of 45 years from R&D laboratories, academic institutions, and industries to share experiences, exchange ideas, and discuss the country's research vision for Amrit kaal to make a Samraddha Bharat. YSC will allow young researchers to exhibit their accomplishments, identify emerging trends, new research opportunities, scientific methods & tools in the frontier sciences striving to combat climate change, achieve sustainable development, and solve societal & industrial challenges. YSC will also provide budding scientists an excellent platform to witness the country's scientific achievements and the local to global challenges that need to be solved through Science & Technology and Innovation. During YSC, there will be lots of scope for young scientists to discuss their exciting research and innovations with common masses, fellow researchers, and peers of the subjects and establish scientific connections and collaborations to address societal issues

Students Innovation Festival (SIF) / Model Expo: This exhibition will showcase cutting-edge research and development in various scientific fields, with interactive exhibits, demonstrations, from across the state by students, research and educational institutes from all Rajasthan. The expo will highlight cutting-edge innovations in artificial intelligence, renewable energy, semiconductors, and more and encourage hands-on experiences with the latest gadgets and technological advancements.

Science & Technical Teachers Meet (STTM): Teachers play a crucial role in shaping moral values, thinking processes, and discipline of the younger generation, making them vital contributors to the nation-building process. They serve as sources of inspiration and have a profound impact on the future of both individual students and the nation as a whole. In the 21st century, with the rapid advancement of science and technology, science education has become a focal point in the school education system, aligning with the changing needs of society and the goal of holistic development outlined in the NEP 2020.

'The National Science Teachers workshops' aim to gather innovative, dedicated educators from across the country to promote experiential learning, emphasize key concepts, and encourage problem-solving skills. Participants will share teaching methodologies and innovations in activity-based learning. Panel discussions will cover various aspects of science education, including effective tools for comprehensive learning. The workshop also aims to leverage science education as a means for nation-building through Science, Technology, and Innovation, culminating in a report based on discussions and dissertations.

Astro-night Tourism (Sky Observation by telescope): Participating students and all the organizers will watch the sky at night by the help of telescope and observe various star formation, planets and other celestial bodies.

