QUARTERLY GLIMPSES

FOUNDATION DAY

INDUSTRY INSTITUTE CONCLAVE

iNaCoMM 2023

E - SUMMIT

AAVARTAN

IN THIS ISSUE

17 Institute Events

3 Faculty Achievements

2 Enlightening Sessions

1 Issued Design Patent

1 STTP

1 Granted Patent

1 Illuminating Seminar

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1 Industrial Visit

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#FestivalTime भावी इंजीनियर्स ने जमकर उठाया लुत्फ

एनआईटी में छाई गरबा की खुमारी

NIT hosts session on 'Preventable Cancers in Females'

■ Staff Reporter   idly growing pain. Heal so exp

स्टैनफोर्ड यूनिवर्सिटी ने जारी की वैज्ञानिकों की सूची, इनमें एनआईटी के 13 प्रोफेसर शामिल

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13 faculties from NIT Raipur feature in top 2 pc World Scientists Ranking of Stanford University

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iNaCoMM Conference kicks-off at NIT Raipur

NIT celebrates Foundation Day

एनआईटी के मॉक प्लेसमेंट में छात्रों से पूछे गए कोडिंग, लैंग्वेज एवं पर्सनैलिटी डेवलपमेंट के सवाल

NIT Raipur to host event on drone pilot training

■ Staff Reporter   initiative also includes men-
RAIPUR, Nov 9   torship to guide students on

National Institute of Technology Raipur

एनआईटी में इंडस्ट्री-इंस्टिट्यूट इंटरेक्शन पर नेशनल कॉन्क्लेव

उद्योगों और शैक्षणिक संस्थानों में सामंजस्य जरूरी इससे कम होगी पढ़ाई के बाद युवाओं में बेरोजगारी

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Two-day annual tech-fest 'Aavartan 23-24' organised

Green Library initiative organised at NIT Raipur

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NIT Raipur organises visits to ATL Labs of rural schools

                                                          start up journey and crox

'Meri Maati Mera Desh' campaign celebrated

NIT holds seminar on Value Education and Mental Health

■ Reporter   the importance of discipline in

NIT Raipur webcasts launch of 'Viksit Bharat@2047: Voice of Youth'

Short Term Training Programme held at NIT

स्टैनफोर्ड यूनिवर्सिटी ने जारी की वैज्ञानिकों की सूची, इनमें एनआईटी के 13 प्रोफेसर शामिल

एनआईटी रायपुर में मनाया गया 'जन जातीय गौरव दिवस 2023'

NIT students bag OPJEMS 2023 scholarships

■ Staff Reporter

NIT Raipur organises guest speaker session on 'Engineering Ethics'

'एक तारीख एक घंटा' में छात्रों ने किया श्रमदान, स्वच्छता का प्रण

My Dear Esteemed Colleagues from NIT Raipur Fraternity,

As we embrace the dawn of a new year, I wish to express profound gratitude to each one of you for your steadfast support and unwavering inspiration during the second half of the bygone year. Your support has been the guiding compass illuminating our path at NIT Raipur and your friendship has painted vibrant hues on the canvas of our shared aspirations.

May the tapestry of 2024 be richly adorned with prosperity, creativity, and unbridled joy. I extend wishes for a year filled with limitless opportunities, flourishing dreams, and the sweet symphony of success. Your guidance and camaraderie have been invaluable, and I convey my sincere appreciation for the enriching experiences.

Forget the things that made you sad. Remember the moments that made you glad. Forget the trouble that passed away. Accept the blessings that will come your way.

Let New Year fulfil all your professional goals and you realise your cherished dreams. **Healthy**, **wealthy**, **peaceful & prosperous 2024 for all of you.**

With heartfelt thanks,

Dr. N. V. RAMANA RAO

Director, *NIT Raipur*
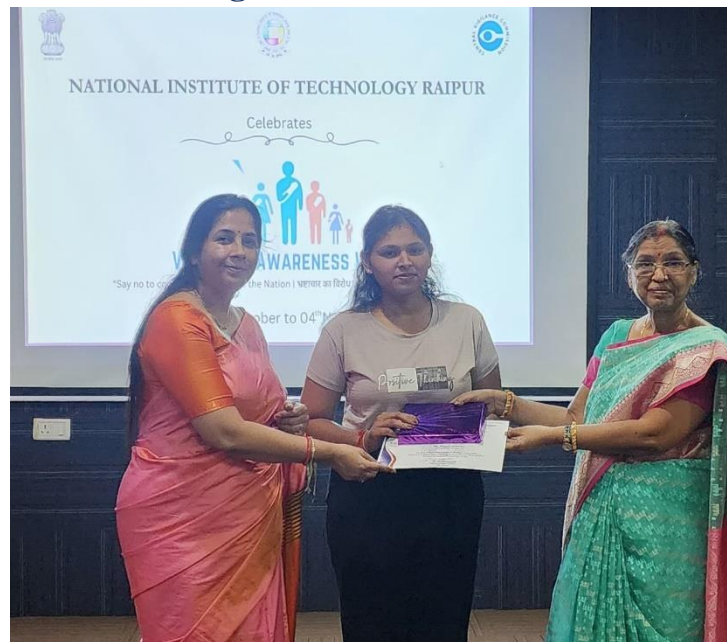
Celebrated Foundation Day

NIT Raipur celebrated its **Foundation Day** on 1st Dec. 2023. **Dr. Prem Sagar Mishra**, *CMD*, *Southeastern Coalfields Limited* was the Chief Guest, **Dr. Subhanshu Gupta**, *Associate Professor*, *EE and CSE, Washington State University*, *Pullman WA*, *USA* was the Guest of Honor and **Dr. Suresh Haware**, *Chairman*, *BoG*, *NIT Raipur* was the Special Guest. The event was presided over by **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*. All the HoDs, faculty members, staff and students were also present during the event.

Dr. Sameer Bajpai, *Head*, *CDC* talked about the glorious and chequered history of the Institute and how the alumni are the real backbones and brand ambassadors of the Institute. Acknowledging and moving the reputation resilience ahead, a documentary featuring the legacy of the Institute, its impressive placement and PPO records, and the various achievements of the students, faculty members, and alumni was presented. **Dr. N. V. Ramana Rao** emphasized on the growth of the Institute into one of the top ones of the country and briefed about the essence of celebrating the Foundation Day. He appreciated the faculty members and alumni for their indispensable contributions and urged everyone to stay updated, motivated, and hardworking and to work relentlessly towards the development of the Institute and the growth of our Nation at large. **Dr. Suresh Haware** explained how Alumni are the representatives of the Institute and stressed on multifaceted growth and all-round progress of students and the rich legacy of our Institute. As for the scope of improvement, he mentioned resources and their efficient utilization while talking about his visit to **Bhilai Steel Plant (BSP)** and how such visits expand the mental horizon of a person. He also mentioned the construction of the new campus of the Institute and the great leadership provided by **Dr. N. V. Ramana Rao**. **Dr. Subhanshu Gupta** elaborated upon his connection with NIT Raipur. **Dr. Prem Sagar Mishra** recited a verse written by Rabindranath Tagore which translated to asking God to give one strength, courage, determination and will power to deal with all the challenges that come one's way, no matter how difficult they are.

This was followed by the Awards Ceremony. The **Best Department Award** was awarded to the **Department of EE**. **Dr. Dilip Singh Sisodiya**, *Associate Professor*, *CSE* secured the **Best Faculty Award**. The **Best Researcher Award** was won by **Dr. Anamika Yadav**, *Professor*, *EE*. The **Young Achiever Alumnus Award** was given to **Dr. Abhijit Shrotri** and the **Distinguished Alumnus Award** was given to **Dr. Jayant Jain**. Further, the student achievers were recognized by scholarships and awards. Cultural performances by **Raaga- The Music Club of NIT Raipur**, and **Nrityam- The Dance Club of NIT Raipur** were staged. The event ended with a vote of thanks.

Concluded Vigilance Awareness Week

NIT Raipur observed the **Vigilance Awareness Week** based on the theme **Say no to corruption; commit to the Nation** from 30th Oct. to 4th Nov. 2023. The Vigilance Awareness Week celebration at the Institute was orchestrated under the vision of **Dr. Swasti Sthapak**, *Chief Vigilance Officer (CVO)*, *NIT Raipur*. The Chief guest of the event was **Dr. P. Y. Dhekne**, *Registrar*, *NIT Raipur*. **Dr. D. Sanyal**, *Dean (Faculty Welfare)*, **Dr. Nitin Jain**, *Dean (Students' Welfare)*, **Dr. Samir Bajpai**, *Head*, *CDC* along with HoDs, faculty members and staff were present during the event. **Mr. Satyabrata Kar**, *GM-Vigilance and ACVO (Bhilai Steel Plant), a distinguished individual recognized by the Central Vigilance Commission (CVC)* was the Guest Speaker. The prize distribution ceremony for the various events conducted over the course of the week was scheduled for 4th Nov. 2023 under the guidance of **Dr. Vivek Agnihotri**, *Assistant Professor*, *DoA*.

The Institute also organized a **Lecture Session** themed **Say no to corruption, Commit to the nation** on 31st Oct. 2023. A short film on Vigilance Awareness was presented, further emphasizing the importance of maintaining integrity and transparency. **Dr. Suresh Haware**, *Chairman*, *BoG*, *NIT Raipur* and **Dr. N.V. Ramana Rao,** *Director*, *NIT Raipur*

shared their positive views on Vigilance Awareness, explaining its role in shaping a better future for the nation. **Essay writing competition** was conducted for students, faculty members, and staff on 31st Oct. 2023 with **Dr. Sudhakar Pandey**, *Professor*, *IT* as the event coordinator. Topics for essay writing competition were **Say no to corruption; commit to the Nation** for the faculty members and **Role of corruption free India for developed country** for the students. The competition was adjudged by **Dr. Sharda Nandan Raw**, *DoM* and **Dr. Vijaya Babu**, *DHSS*. **Dr. Ayush Khare**, *Professor*, *DoP* stood **1st** ; **2nd** position was secured by **Mrs. Juhi Saurabh**, *IT*; and **3rd** was **Dr. Anil Kumar Pandey**, Faculty, IT. In the student's category, **Ms. Vishakha Shukla**, *Ph.D. scholar*, *IT* bagged **1st** place, **2nd** was acquired by **Ms. Kajal Tiwari**, *Ph.D. scholar*, *IT* and **3rd** place was shared by **Mr. Shashank Kaushik**, *M. Tech*, *IT* and **Mr. Kaustuv Panda**, *M. Sc.*, *DoM*. **Debate competition** was scheduled under the supervision of **Dr. Anoop Tiwari**, *HoD*, *DHSS* on 1st Nov. 2023. Topics for debate competition were **Educational vs. Ethical bindings** (for UG students) and **Political System vs. Legal System** (for PG and Ph.D. students). Judges for the debate competition were **Dr. (Mrs.) Moksha Singh**, *DHSS,* and **Dr. ShashiKanta Tarai**, *DHSS*. In the UG/PG category, **Ms. Isita** secured **1st** position, **Ms. Anyaneya** was **2nd** and **Ms. Mahima** and **Mr. Yuvraj** stood **3rd**. In the Ph.D. category, **Mr. Sayan Das** bagged **1st** place; **Mr. Prasant** the **2nd**, and **Mr. Abi Sarkar** and **Ms. Tulika Ghosh** the **3rd** position. **Poster making competition** was coordinated for students on 2nd Nov. 2023 under the guidance of **Ms. Devanshi Gaur**, *Assistant Professor*, *DoA* on the theme **Say No to Corruption: commit to the Nation**. Judge for the poster making competition was **Dr. Abir Bandyopadhyay**, *HoD*, *DoA*. **Vishal Murmu**, *7th sem.*, *DoA* stood **1st**, **2nd** was **Pragya Sahare**, *3rd sem.*, *DoA* and **3rd** place was secured by *Vaishnavpriya M.*, *1st sem.*, *DoA*. **Abhinay-The Dramatics Club**, **NIT Raipur** organized a Nukkad Natak on the theme **Bhrashtachar pe Vichar** on 3rd Nov. 2023 under the leadership of **Dr. Govardhan Bhatt**, *Professor In-Charge*, *Abhinay*. The Chief Guest for this occasion was **Dr. Swasti Sthapak**, *CVO*, *NIT Raipur*.

The Nukkad Natak portrayed the importance of corruption as a free state and depicted the losses of corruption signifying how difficult it was for the good and honest people to get by financially without bribing. **Dr. S. Sthapak** congratulated Team Abhinay, highlighting the pervasiveness of corruption in society, and urged everyone to be vigilant, emphasizing the transformative power of small steps in combating corruption. The prize distribution ceremony commenced on 4th Nov. 2023

with the winners of all competitions in various categories felicitated by the Institute. **Dr. (Mrs.) A. B. Soni**, *Director (I/C)*, *NIT Raipur* congratulated the organizing committee for the successful coordination of the event and appreciated all the winners of the competitions. **Dr. S. Sthapak** delivered the vote of thanks at the ceremony and concluded the event by alerting the attendees of the significance of being vigilant. The week-long event concluded by witnessing enthusiastic participation and raising consciousness among the attendees.

Organized Swachhata Pakhwada

NIT Raipur organized a series of events observing the **Swacchata Pakhwada** from 27th Sep. to 1st Oct. 2023. On 27th Sep. 2023, **Swachhata Pakhwada Rally** around the campus was organized to promote the cause of a Garbage Free India. The event was graced by the presence of **Dr. D. C. Jhariya**, *HoD*, *DAG*, **Dr. M. K. Prasad**, *Associate Dean (Students' Welfare)*, **Dr. Neeraj Manhas**, *Faculty In-charge*, *NCC*, **Dr. M. K. Pradhan**, *Professor*, *DME* and **Dr. Suraj Kumar Mukti**, *Associate Professor*, *ME*. The procession enthusiastically chanted slogans promoting cleanliness like *Sabhi rogo ki ek dawai, ghar mein rakho saaf safai*, *Hum sab ka ek hi sapna, swachh ho Bharat apna*, and *Maine apna kartavya nibhaya, saaf safai ko apnaya*. The drive witnessed active participation from students and NCC cadets and amplified the importance of cleanliness in the collective consciousness of the campus.

On 29th Sep, **E-Waste drive** was conducted **by Sahyog- The Mentorship Club**, **NIT Raipur**. The event was mentored by **Dr. Ravi K. Jade**, *Faculty In-Charge*, *Sahyog*. The drive commenced by the installation of E-waste collection boxes at the main entrance of the academic building as well as the student entrance gate. The E-waste was handed over to the authorized personnel for its recycling and proper disposal. Faculty members, staff and students of the Institute showed active participation by promptly submitting their E-wastes which included mobile phones, chargers, batteries, SD cards, cables and much more. **Dr. Ravi K. Jade** addressed the ceremony and gave insights regarding the conscious and careful disposing of electronic waste. Finally, the event concluded with an oath ceremony in which all the participants pledged to become responsible and eco-conscious citizens, contributing to the well-being of our environment and the future generations. The event was a success as it encouraged people to find ways to transform *Waste into Wealth* as well as to spread the message of *Reduce, Reuse, Recycle & Refuse* everywhere.

On 30th Sep., **Go Green- The Eco Social Committee of NIT Raipur** organized an event **Green Library** in a bid to foster
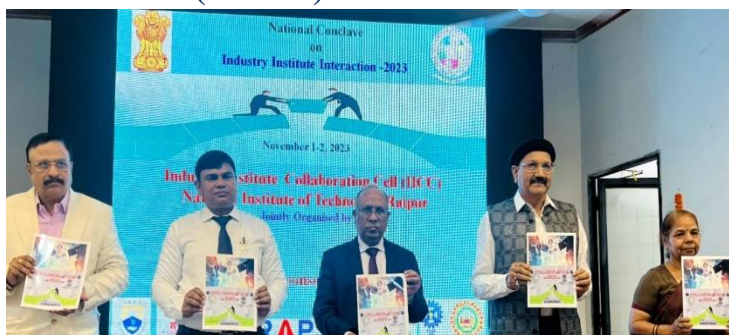
sustainability and knowledge-sharing. The event was mentored by **Dr. D. C. Jhariya**, *Professor In-charge*, *Go Green*. The Green Library initiative is a remarkable project that combines environmental consciousness with academic enrichment. It aimed to collect old books, journals, and stationary materials donated by faculty members, staff, and students to redistribute them to those in need, thereby promoting the idea of reusing educational resources. The event saw enthusiastic participation from various members of the NIT Raipur community, including several alumni, who generously donated their educational materials. More than 200 books were collected and redistributed among students. The event received positive feedback from both donors and recipients and concluded with the handing out of refreshments followed by a photo session.

Cleanliness Drive was conducted on 1st Oct. 2023. The main purpose of this drive was to create awareness among the citizens regarding cleanliness and its benefits. The event started with a Pledge Ceremony by **Dr. N.V. Ramana Rao**, *Director*, *NIT Raipur* with the active participation of all the members to propagate the mission of *Swachh Bharat Mission*. The cleanliness drive took place in various areas such as **Students' Amenities**, **Faculty Quarters**, **Saraswati Nagar Police Station**, and **Platform of Saraswati Nagar Railway Station** in presence of **Dr. N.V. Ramana Rao**, **Dr. P.Y. Dhekne**, *Registrar*, Deans, HoDs, Faculty members, **Team NSS**, **Team NCC**, **Team UBA,** and students of the Institute. The event witnessed enthusiastic chanting of slogans like *sabhi rogo ki ek dawai, ghar mein rakho saaf safai*, *Hum sab ka ek hi sapna*, *swachh ho Bharat apna*. **Dr. N. V. Ramana Rao** concluded the drive by addressing the attendees about the significance of cleanliness drives and their criticality in sustaining a healthy environment.

National Conclave on Industry-Institute Interaction (NC III) 2023

Industry Institute Collaboration Cell (IICC), NIT Raipur organized a National Conclave on **Industry-Institute Interaction** on 1st and 2nd Nov. 2023 in association with **Alumni Association, GEC- NIT Raipur** and **NIT**

Foundation for Innovation and Entrepreneurship under the guidance of **Dr. Shobha Lata Sinha**, *Chairperson, IICC*. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* was the Chief Patron of the program. The interaction was organized with a vision of bridging the gap between industry and academia. It also aimed to solve industrial problems through academia by promoting new innovations and entrepreneurship. The inaugural ceremony was organized on 1st Nov. 2023 at E-hall, NIT Raipur. The Chief Guest for the inauguration ceremony was Honorable **Dr. Suresh Haware**, *Chairman, BOG, NIT Raipur*. **Dr. Pawan Kumar**, *Executive Director (ED), Personnel Administration Department, Bhilai Steel Plant (BSP)* was the Guest of Honor during the ceremony. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Mr. Sunil Agrawal,** and **Mr. Umesh Chitlangia**, *Senior Member*, *Alumni Association, GEC/NIT Raipur* graced the event with their presence. The inaugural ceremony began with the national song, followed by lamp lightning ceremony by the dignitaries. Saplings were presented as a token of welcome to the Chief Guest and the Guest of Honor. **Dr. N. V. Ramana Rao** welcomed **Dr. Suresh Haware**, **Mr. Pawan Kumar**, **Mr. Umesh Chitlangia** and **Dr. S. L. Sinha** with saplings. **Dr. S.L. Sinha** provided introductory remarks on NCIII and welcomed all the dignitaries present on the dais. She said that a total of 7 MoUs are going to be signed between NIT Raipur and other industries. **Dr. N. V. Ramana Rao** delivered the welcome speech and delivered a talk titled *Institute-Industry Partnerships: The NIT Model*. He told the advantages of Institute-Industry Collaboration for the Institute, Industry, Faculty-Members, Students and Nation. **Mr. Pawan Kumar** enlightened everyone with the Chief Guest Speech. **Dr. Suresh Haware** asked NIT Raipur to take a forward leap in the success of the state of Chattisgarh and that of the nation. **Mr. Umesh Chitlangia** expressed his views on the Role *of Alumni for Industry-Institute Interaction***.** He said that alumni are the biggest power hold by NIT Raipur and asked it to harness the potential of Alumni spread all over the world. The inaugural ceremony was concluded with the release of NIT Raipur Collaboration booklets. Further, **Dr. N. V. Ramana Rao** felicitated **Dr. Haware**, **Mr. Pawan Kumar** and **Mr. Umesh Chitlangia** with mementos and shawls.

Further, out of total three Panel Discussions, two were held on 1st Nov. Panel Discussion-1 was on the topic **Collaboration between Industry and Academia Panelists**. Panelists included **Prof. Rajiv Prakash**, *Director, IIT Bhilai*, **Prof. Ram Kumar Kakani**, *Director, IIM Raipur*, **Mr. Siddharth Agrawal**, *Chairman, Confederation of Indian Industry (CII)*, **Mr. S. S. Bajaj**, *Chairman, CCOST, Raipur*, **Mr. Meghal Agrawal**, *Founder and CEO, CodeNicely* and **Mr. Pankaj Sarda**, *Jr. Managing Director, SARDA Energy and Minerals, Raipur*. The Moderator for this panel was **Dr. Prabhat Diwan**, *Dean (R&C), NIT Raipur*. The Coordinators were **Dr. S. Patnaik**, *Associate Professor*, *EE*, and **Dr. Baidyanath Bag**, *Assistant Professor, EE, NIT Raipur*. Panel Discussion-1 was concluded with **Dr. N. V. Ramana Rao** felicitating the panelists with the mementos. A **MoU** was signed **between NIT Raipur** and **CII.** Panel Discussion-2 was held on **Resource Generation for Collaborative Research Panelists**. The panelists were **Mr. Umesh Chitlangia**, *Alumni Association of GEC/NIT Raipur*, **Dr. U. P. Singh**, *Vice*

President, Jindal Steels, **Mr. Sachin Saxena**, *TMC Mineral Resources Pvt. Ltd.*, **Mrs. Nandani Bhattacharya**, *GM (Finance), CGSPG, Raipur*, **Dr. Samir Bajpai** *Head, CDC, NIT Raipur* and **Mr. Manoj Kumar**, *Additional General Manager, NTPC-SAIL Power Company Limited (NSPCL), Bhilai*. It was well moderated by **Dr. S. Sanyal**, *Professor, ME, NIT Raipur*, and coordinated by **Dr. Satish Dewangan**, *Associate Professor, ME,* and **Dr. Arindam Bit**, *Associate Professor, BME, NIT Raipur*. The Panel Discussion concluded with **Dr. S. Sanyal** presenting the mementos and shawls to the panelists. Further, presentations were presented by the organizations entering **Memorandum of Understanding (MoU)**. 7 more MoU's were signed on this auspicious occasion between NIT Raipur and other industries. The MoUs were signed between NIT Raipur and **Hira Group (Godavari Power and Ispat Ltd.)**; **Central Institute Of Petrochemical Engineering & Technology (CIPET), Chennai**; **Technoblast Mining Corporation (TMC), Mineral Resources Pvt. Limited**; **Ramesh's Aerospace Products & Services Pvt. Ltd.**; **Institute of Aeronautical Engineering, Dundigal, Hyderabad**; **Unmanned Warriors Limited Liability Partnership**; **Leh Nutrition Project (LNP)**. At the end of the program, concluding remarks were presented by **Dr. S. L. Sinha** and **Prof. H. Bikrol**, *IICC, NIT Raipur*.

An illuminating speaker session was also organized on 2nd Nov. 2023 as a part of the NCIII-2023. The Keynote Speaker of the session was **Mr. Prem Sagar Mishra**, *Chief Managing Director (CMD), South Eastern Coalfields Limited (SECL), Bilaspur*. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. P. Y. Dhekne**, *Registrar, NIT Raipur* and **Dr. Manoj Pradhan**, *Professor, DME* were the Distinguished Guests and the session was graced by the deans, faculty members, staff, and students of the Institute. Beginning with his discourse, **Dr. Saurabh Gupta**, *Faculty In-Charge, Innovation Cell*, spoke at length about the need to develop a growth mindset. **Dr. Subhojit Ghosh**, *Chairman, Continuing Education Cell*, emphasized on the need to broaden the knowledge base of industry enthusiasts. **Dr. Shrish Verma**, *Dean (Academics)* stressed holistic and multidisciplinary learning. This was followed by a panel discussion with the eminent panelists, **Mr. Amit Singh Wadhwani**, *Senior Program Manager, Wadhwani foundation*, **Mr. Gangaram Verma**, *and Vice President*, *Godavari Power & Ispat Ltd*, **Dr. Soumya Gangopadhyay**, *Associate Professor, Department of Mechanical Engineering, IIT Bhilai*, **Dr. Srinivasa K. Gopal Iyengar**, *IIIT Naya Raipur* along with the moderator **Dr. Samir Bajpai**, and coordinators **Dr. Tanmoy Kanti Das** and **Dr. Saurabh Gupta**. The dialogue was followed by an engaging Q&A session with active participation from the attendees. The first half ended with a felicitation ceremony and memento presentation to the distinguished speakers. The Valedictory session began with sapling presentation to the Guest of Honour, **Shri Anirban Dasgupta**, *CMD, Bhilai Steel Plant*, and Chief Guest, **Mr. Prem Sagar Mishra**, *CMD, SECL, Bilaspur* along with a brief revisit of the events of the conclave by **Dr. N. V. Swami Naidu**, *Member, IICC, NIT Raipur*. **Dr. N.V. Ramana Rao** addressed the gathering by welcoming the attendees and emphasized the importance of this conclave to promote industry institute interaction for an increased and better placement opportunity for the students. **Mr. Dasgupta** commented that this collaboration would prove to be beneficial for both the organizations for survival in this fast paced and ever-changing world of technology. **Mr. Prem Sagar Mishra** engaged with the assembly by discussing the significance of strategizing and the prediction of changes and challenges in the industry to help enhance the ability of tackling problems. He stressed the need of constantly update us and channel our inner curiosity. He concluded the session by essentializing sustainable development; expatiated the difference between theoretical knowledge and its applicability in the practical field and by vitalizing the value of good perception. The conclave ended with a questionnaire round and the presentation of mementos to the dignitaries along with a beautiful rendition of the National Anthem.

Celebrated "Meri Maati Mera Desh"

NIT Raipur hosted a heartwarming celebration as a part of **Meri Maati Mera Desh** initiative on 12th Oct. 2023, marking the finale of the Azaadi ka Amrit Mahotsav program, which commemorated 75 years of India's independence. The event, centred around the theme *Mitti ko naman, veeron ka vandan* brought together everyone in a show of unity and patriotism. This nationwide *Jan Bhagidari* initiative celebrated India's achievements and honoured its brave defenders at all levels, from villages to the national stage, uniting the entire nation in this celebration.

The event witnessed the presence of distinguished individuals, including **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Dr. P.Y. Dhekne**, *Registrar*, **Dr. Shrish Verma**, *Dean (Academics)*, **Dr. Nitin Jain**, *Dean (Students' Welfare)*, **Dr. Sameer Bajpai**, *Head, CDC*, **Dr. M.K. Prasad**, *Associate Dean (Students' Welfare)*, **Dr. H. K. Narang**, *Faculty In-charge, Shaurya*, **Dr. Neeraj Manhas**, *Faculty In-Charge, NCC*, **Dr. Mridu Sahu**, *Assistant Professor, IT*. In addition to these esteemed individuals, HoDs, faculty members, Ph.D. scholars, and students also graced the occasion with their

presence. The event commenced with the singing of the National Song. Following this, all participants, holding earth and rice in their hands, jointly took the **Panch Pran Pledge**, reiterating their unwavering commitment to the nation and its advancement. The mitti and rice were then collected in the Amrit Kalash after the pledge. Participants carried the Amrit Kalash to the Souvenir Garden, chanting slogans like *Meri Maati Mera Desh* and *Mitti ko naman, veeron ka vandan* and planted the saplings. The grand event concluded with a collective singing of the National Anthem in front of the Main Building, leaving participants with a deep sense of pride and national identity.

Webcasted the launch of Viksit Bharat@2047: Voice of Youth

NIT Raipur organized a webcast of the address by **Shri. Narendra Modi**, *Hon'ble Prime Minister*, *Govt. of India* in **Viksit Bharat@2047: Voice of Youth**, a workshop conducted by the **Prime Minister's Office,** *Government of India* on 11th Dec. 2023, with the vision of making India a developed nation by the year 2047, commemorating a century of the country's independence. **Shri Narendra Modi** addressed the Vice Chancellors of Universities, Heads of Prestigious Institutes, and faculty members in this workshop via video conferencing. He elaborated on the significance of out-of-the-box thinking in fostering the progress of the country and discussed the criticality of the contribution of teachers and students in the nation's advancement. The workshop was themed **Voice of Youth** to symbolize the role of youth in the development of the country and encourage them to contribute ideas to the vision of Viksit Bharat@2047. The workshop was live streamed and made available for all to ensure maximum engagement from the people of the country. Faculty members, staff, and students at the Institute attended the webcast and listened keenly to the message delivered by the Hon'ble PM.

Inaugurated VIP Guest House

NIT Raipur's VIP Guest House was inaugurated by **Dr. Suresh Haware**, *Chairman, BoG*, *NIT Raipur* on 31st Oct. 2023. The event was attended by **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur*, **Dr. P. Y. Dhekne**, *Registrar*, Deans, HoDs and section heads.

This valuable new addition to the campus will provide accommodation for guests and serve as a peaceful retreat.

iNaCoMM-2023

NIT Raipur commenced the **6th International and National Conference on Machines and Mechanisms (iNaCoMM 2023)** on 7th Dec. 2023. **Dr. A. B. Soni**, *Director(I/C), NIT Raipur* delivered an impassioned talk, emphasizing the role of technology in daily life and highlighted the uses of various mechanisms, citing examples like connected vehicles and their potential application in the formulation of smart cities. **Dr. C. Amarnath**, *Former President*, *AMM,* and the Chief Guest of iNaCoMM-2023, provided insights into the background of the event, its inception, and its contributions to the field of mechanisms, encompassing theory, analysis, and fabrication. He welcomed industry professionals, urging them to share their mechanism-related challenges on this platform for collaborative problem-solving.

The Keynote Lecture by **Dr. Shailendra V. Gade**, *Distinguished Scientist and Director General (Armament and Combat Engineering Systems DG (ACE), DRDO Pune*, delved into the uses of mechanisms in small arms, heavy artillery, battle tanks, and the ejection systems of fighter planes. He emphasized the critical role of material scientists in developing materials for these applications.

Dr. P. M. Pathak, *Professor, IIT Roorkee*, delivered the **Prof. B. M. Belgaumkar Memorial Lecture-1**, discussing the work of his robotic lab and presenting insights into the **Design and development of hyper-redundant robots for ground and aerial applications**. He addressed various mechanisms for snake robots, agriculture boats, drones, and the associated challenges, encouraging an interactive session with experts and participants. **Dr. Qingguo Li** delved into the realm of biochemical energy harvesting from human walk throughout a gait cycle, emphasizing the innovative approach of exoskeleton design. He explored the potential applications of this technology as an energy source for animal tracking systems, envisioning its utility in wildlife monitoring or even during microgravity outer space walks. Following this talk, representatives from BSP took the stage to share some of the challenges they currently face with the research community, fostering an open dialogue and inviting collaborative solutions from the diverse pool of attendees. This session served as a valuable platform for knowledge exchange and problem-solving within the conference. The day featured three parallel sessions **on Machines and Mechanisms**, **Robotics**, and **Materials and Machine Design**, with a total of 14 papers presented in each session before and after lunch. These sessions were chaired by esteemed academicians from IIT and IISC, providing a platform for in-depth discussions and knowledge exchange. The second day of iNaCoMM-2023 commenced with a captivating lecture by **Dr. Sujatha Srinivasan**, *Professor*, *ME*, *IIT Madras*. **Dr. Srinivasan**, renowned for her work at the *TTK Center for Rehabilitation Research and Device Development (R2D2)*, shared insights into the development of assistive devices tailored for Indian lifestyles and conditions. A highlight of her presentation was the journey of **Neofly** and **NeoBolt**, the first Indian wheelchair and scooter attachment customized to the user, designed for enhanced comfort, mobility, manoeuvrability, and ergonomics. **Dr. Srinivasan** shared the challenges encountered in creating the first indigenous knee joint, and showcased how incorporating passive mechanisms in rehabilitation equipment with a feedback system can revolutionize traditional heavy and manual devices. In a memorable sign-off, **Dr. Srinivasan** quoted, *Four bar*, emphasizing the significance of the four-bar mechanism in many of these assistive devices. She called for collaboration between local and global stakeholders, including clinicians, NGOs, and individuals with special needs. **Dr. C.S. Kumar**, *Distinguished Professor*, *ME*, *IIT Kharagpur*, delivered a riveting talk at iNaCoMM-2023, delving into the forefront of Robotics. **Dr. Kumar's** presentation featured a remarkable journey through the evolution of robotics, highlighting the groundbreaking KGP50 Robot, a prototype industrial robot developed at IIT Kharagpur in 1998 under a Technology Development Mission (TDM) Project. His presentation included the kinematic model of a micro gripper, a pseudo-rigid body model, and a fascinating 4-piezo actuated micro gripper. Dr. Kumar's expertise extended into the use of **FIB/SEM (Scanning Electron Microscopes)** and their applications in robotics. He discussed underwater robotics,

recounting the Indian Autonomous Underwater Vehicle (AUV) of 2007, designed to explore depths of up to 150 meters. The sessions, overseen by esteemed academicians from prestigious institutions like IIT and IISC, offered a conducive platform for profound discussions and the exchange of knowledge among participants. The final day of iNaCoMM-2023 commenced with an insightful talk by **Dr. Ashitava Ghoshal**, *Professor*, *Robotics Lab, IISC Bangalore*. **Dr. Ghoshal** shared insights into soft and continuum robots, covering topics such as pneumatically actuated robots, endoscopes, and soft robots. Following this session, the conference continued its momentum with an industrial presentation by **BEML (Bharat Earth Movers Limited)**. BEML showcased its role in locomotion, mining, goods transportation, and even outer space equipment like rocket casings. In the **Student Mechanism Design Contest (SMDC)**, teams from **IIT Kanpur**, **IIT Kharagpur**, **IIT Hyderabad**, and **Amrita Vishwa Vidyapeetham** presented innovative designs, including **a Treadle Pump for Agriculture**, **a Rover for Harsh Environments**, **a Recliner Wheelchair**, and **an Engaging-disengaging Mechanism**. The event reached its pinnacle with a talk by **Dr. Sunil Kumar Agrawal**, *Professor*, *Columbia University*, *New York*, *USA*, focusing on Rehabilitation Robotics and advancements for individuals with neural disorders. **Mr. Shantanu Roy** *(Electrical/ 1991)*, *Distinguished alumnus and CMD of BEML*, insights into the transformative journey from manual to industry 5.0. He emphasized the value of hard work, stating, *There is no substitute for hard work*—do the work and own it. This day also featured 15 research papers presented in three parallel sessions, creating a platform for cutting-edge research discussions. iNaCoMM-2023 provided a harmonious blend of academic insights and practical industry experiences, fostering collaboration among participants.
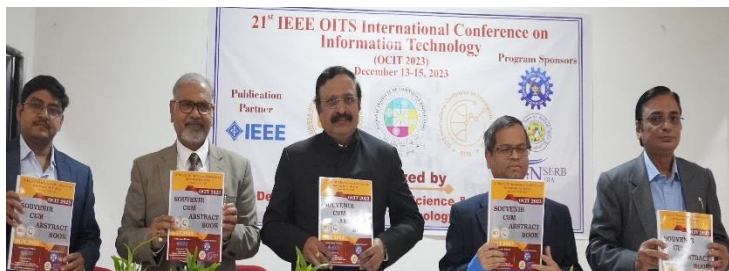

The Valedictory Session of iNaCoMM-2023, chaired by **Dr. S. Sanyal**, *Chairperson of the conference*, unfolded with warmth and gratitude as **Mr. Shantanu Roy**, *CMD*, *BEML*, graced the occasion. **Dr. Sanyal** extended a welcome to **Mr. Roy** and expressed gratitude to all participants and sponsors, including **DRDO**, **BEML**, **SERB**, and **SAIL (BSP)**. Special thanks were also extended to AMM's former president, **Dr. C. Amarnath**, *Current AMM office bearers*, **Dr. S. L. Sinha**,

HoD, *ME*, faculty members, and research scholars. **Dr. D. Sanyal**, *Dean (Faculty Welfare)* congratulated the organizing team for the success of iNaCoMM-2023 and expressed gratitude to all delegates and participants. The vote of thanks was delivered by **Dr. R. S. Kumar**, *Secretary of iNaCoMM-2023* towards participants, sponsors, involved teams, research scholars and students.

21st IEEE International Conference on Information Technology OCIT-2023

NIT Raipur organized the **21st IEEE International Conference on Information Technology (OCIT-2023)** on 13th Dec. 2023. **Dr. Manu Vardhan**, **Dr Jitendra Kumar Rout**, and **Dr. Deepak Singh**, *Assistant Professors, CSE* were the *Organizing Secretary*, *OCIT-2023*, welcomed the distinguished guests and participants. The conference Chief Guest, **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* expressed gratitude to the Guest of Honor **Prof. Saraju Mohanty**, *University of North Texas, Denton*, and Keynote speaker **Prof. Siba K. Udgata,** *Professor, University of Hyderabad*. **Dr. Pradeep Singh**, *HoD, CSE*, welcomed dignitaries and participants. **Prof. Saraju P. Mohanty** delivered an impassioned talk, emphasizing Smart Agriculture. The Keynote Lecture by **Prof. Siba K Udgata**, delved into the Explainable AI (XAI) Models for Informed Decision Making. In the post-lunch session, **Prof. T. V. Vijay Kumar** delved into the Artificial Intelligence for Disaster Management. The day featured three technical sessions on **Artificial Intelligence, Machine Learning, and Deep Learning, Networking and Information Security, Multimedia, Signal Processing, Embedded Systems, Data Science, Sequential, Parallel, Distributed and Cloud Computing, Power, Smart Grid, and Internet of Things** with a total of 40 papers presented in each session before and after lunch.

On the second day, **Dr. Pradeep Singh** welcomed keynote speakers, **Prof. Ram Bilas Pachori**, and **Prof. Vladimir M. Mladenovic** and participants. The Keynote Lecture by **Prof. Ram Bilas Pachori**, *Professor, IIT Indore*, delved into the AI-driven signal processing based intelligent systems for diagnosis of brain and heart diseases. The post-lunch session commenced with a plenary talk by **Prof. Vladimir M. Mladenovic**, *Faculty, Technical Sciences in Cacak, Department of Information Technology, University of Kragujevac, Cacak, Serbia*. His presentation delved into the Advanced development of haemodialysis system with predictive fluid balance in body for kids. Total of 80 papers presented in each session before and after lunch.

On the third day, the Keynote speaker was **Ms. Shanu Agarwal**, *Senior Data Scientist, Bosch Global Software Technologies* and the distinguished guest was **Mr. Aditya Agarwal**. She has a 9+ years of hands-on experience in implementing and deploying AI models in domains like manufacturing, engineering, sales, and supply chain. She explains how to develop multiple AI products like anomaly detection engine, root cause analysis tool, time series forecasting, sound rating prediction and automating the spray layout design.

The third and the closing day featured three technical sessions on **Artificial Intelligence, Machine Learning, and Deep Learning, Networking and Information Security, Multimedia, Signal Processing**, etc. These sessions were chaired by esteemed academicians from NIT, IIIT, IIT and IISC, providing a platform for in-depth discussions and knowledge exchange. In total 170 papers were presented by the authors, in 30 technical sessions with 66 session chairs, chairing the sessions. The organizing secretary were thankful to the sponsors SERB, CSIR and CCOST. IEEE OCIT-2023 witnessed six very informative keynote sessions and one Industry talk, by the very renowned keynote speakers from across the globe. This is followed by the announcement from the bidders of OCIT-2024. Feedback was given by the participants about the conference OCIT-2023. Finally, the IEEE OCIT-2023 conference concluded with the photo session in the presence of Head CSE, Organizing secretary, PhD Coordinators, student coordinators, participants, and faculty members.

Organized HeAL session on 'Preventable Cancers in Females'

NIT Raipur hosted a two-day **HeAL (Health Awareness Lesson)** session on **Preventable Cancers in Females (Breast and Cervix Cancer)** on 17th & 18th Oct. 2023, commemorating the worldwide recognised Breast Cancer Awareness Month of October. The session was organized under the vision of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* and **Dr. Nitin Jain**, *Dean (Student Welfare)*. **Dr. Anamika Yadav**, *HoD, EE*; **Dr. Priyanka Tripathi**, *HoD, MCA*; and **Dr. Mridu Sahu**, *Assistant Professor, IT* were the event coordinators of the program. **Dr. Jayesh Sharma**, *Surgical Oncologist, V. Y. Hospital Raipur* and **Dr. Saurabh Jain**, *Surgical Oncologist, Ram Krishna Care Hospital Raipur* were the Guest Speakers for the event. Day-one began with **Dr. A. Yadav** welcoming the Hon'ble Director of NIT Raipur and **Dr. J. Sharma** being welcomed by **Dr. P. Tripathi** with a sapling. **Dr. N. V. Ramana Rao** congratulated the program coordinators for successful organization of the two-day event. **Dr. J. Sharma** discussed breast, ovarian, uterine, and oral

cancers; suggesting various safety measures such as regular screening, maintaining good hygiene, vaccination; and answering the doubts of the attendees. **Dr. P. Tripathi** delivered the vote of thanks. Preventive measures to reduce the risk of infection were suggested. **Dr. Jayshree Dhekne**, *Aashirwad Club, NIT Raipur*; female faculty members; Ph.D. scholars; M.Tech and B.Tech students; and family members were a part of this cancer awareness program.

On the second day, **Mrs. Jyoti Rao**, *President, Aashirwad Ladies Club, NIT Raipur* was the Chief Guest. The event began with a lecture delivered by **Dr. Saurabh Jain**. He elaborated on treatment methods such as breast surgery, chemotherapy, immunotherapy, and radiation therapy and debunked misconceptions related to breast cancer and took a Q&A session with the attendees. Following this, **Mrs. Jyoti Rao** appealed to everyone to try to prevent breast cancer with the knowledge gained from this session. The event was attended by **Dr. Ebha Kole**, *Associate Professor, EE*, **Dr. Manju Pandey**, *Associate Professor*, *MCA*, **Dr. Deepmala Sharma**, *Associate Professor, DoM*, female staffs, PhD, graduate, and postgraduate students. In the closing moments, **Dr. Saurabh Jain** was honoured with a token of appreciation. The session concluded with a vote of thanks by **Dr. Anamika Yadav**.

Commemorated Jan Jatiya Gaurav Diwas 2023

Department of Information Technology (IT), **NIT Raipur** organized an event on 26th Nov. 2023 to celebrate **Jan Jatiya Gaurav Diwas (JJDG) 2023** as a tribute to the legendary freedom fighter and tribal leader, Bhagwan Birsa Munda. The celebration, spanning from 15th Nov. to 26th Nov. 2023, aligned with Constitution Day and aimed to recognize and empower tribal communities. The event was organized under the adept guidance of **Dr. Pavan Kumar Mishra**, *Assistant Professor*, *IT*. **Dr. P. Mishra** elaborated the significance of celebrating the birth anniversary of Bhagwan Birsa Munda and underscored the need to recognize the cultural heritage associated with Bhagwan Birsa Munda. A discourse on Jan Jatiya Gaurav Diwas was delivered by the organizing committee highlighting the importance of preserving tribal identities, acknowledging their resilience, and promoting inclusivity. The speaker called for the protection of tribal rights and active participation in national development, concluding with a plea for unity and respect to contribute to the harmonious growth of the nation. A PPT presentation was staged before the audience to raise consciousness for the same. A captivating performance by **Raaga- The Music Club**, **NIT**

Raipur was staged. The event concluded successfully with uplifting the spirits of the attendees and alerting them about the relevance and criticality of the tribal communities of the nation.

Drone Pilot Training

NIT Raipur is set to host an event dedicated to drone pilot training. The initiative, named **Unmanned Warriors (UW)**, is spearheaded by Armed Forces Veterans who aim to groom skilled professionals in the field of Drone/Unmanned Vehicle technology on a global scale. Commenced from 1st Nov. 2023, UW, has signed an important **Memorandum of Understanding (MoU)** agreement with **NIT Raipur** for establishing a **Center of Excellence (COE)** at the institute. This centre will serve as a hub for training, research, demonstrations, and the promotion of unmanned systems. This integration will cover a spectrum of fields, including payloads, imagery, data analysis, management, AI, IoT, and more.

Moreover, the program will offer consultancy services and facilitate the transformation of innovative ideas into practical, marketable products. The initiative also includes mentorship to guide students on their journey to becoming successful entrepreneurs. Students can choose from different courses like, **5-days Drone Pilot Course (DGCA Licensed)**, **Research & Development in Drone Technology and Drone Manufacturing**. This collaborative effort between UW and NIT Raipur is set to be a transformative step towards nurturing skilled professionals and fostering innovation in the field of unmanned technology. The training program aims at giving students at the institute the opportunity to benefit from real-life projects and internships, providing them with hands-on experience in government ministries, armed forces, and various industries and also make them successful entrepreneurs.

NIT Raipur participates in AIIMS Raipur for 'Nation of Lifesavers' event

NIT Raipur's Students participated in the **Nation of Lifesavers** event, a collaborative initiative between **AIIMS Raipur** and the **American Heart Association (AHA)**. The event was organized on the occasion of World Heart Day, on 29th Sep. 2023, and aimed to raise awareness about cardiovascular diseases while equipping the students with essential Hands-Only Cardiopulmonary Resuscitation (HOCPR) skills to save lives. Students from diverse academic backgrounds engaged in intensive CPR training during the event. The event was graced by distinguished figures from

AIIMS Raipur and featured the esteemed presence of **Dr. K. K. Deepak**, *Professor*, *IIT Delhi*, who emphasized the event's significance. The event left a lasting impact on the students of the Institute. It underscored the importance of collaborative efforts in spreading awareness. The event's success was made possible through the support of **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur*, HoDs, and the supervision of **Dr. Nitin Jain**, *Dean (Students' Welfare)*, and **Prof. Sayon Pramanik**, *Chief Coordinator*.

Seminar on 'Embracing AI in Engineering'

NIT Raipur in association with **ARK** and **MathWorks** organized a one-day seminar on **Embracing AI in Engineering: Industry, Academia, and Upskilling for Success** on 26th Sep. 2023. **Mr. Visweswaran J.**, *Country Manager, Higher Education Program, ARK Infosolutions*, was the Guest Speaker. The focus of the seminar was on the role of MATLAB and Simulink in accelerating AI innovations relevant to industries and academia.

Broadcasted the Kaushal Deekshant Samaroh

NIT Raipur live broadcast the **Kaushal Deekshant Samaroh- Annual Skill Convocation Ceremony**, organized by the **Ministry of Skill Development and Entrepreneurship** on 12th Oct. 2023. The Hon'ble Prime Minister digitally addressed the participants and shared his golden words of wisdom.

Established the Behavioral Insights Unit (BIU)

NIT Raipur held a signing ceremony for the establishment of a **Behavioral Insights Unit (BIU)** in partnership with **UNICEF** on 2nd Nov. 2023. This joint initiative would lead to fruitful research in various fields of Behavioral Sciences and construct a conducive environment for the same.

Aashirwad Ladies Club makes Heartfelt Contribution

Aashirwad Ladies Club, **NIT Raipur** donated a hospital bed to the **Zindagi Na Milegi Dobara** organization on 8th Nov. 2023. Zindagi Na Milegi Dobara society has been participating in the commendable work of providing free medical equipment to needy people for the last several years. The guests who were present on the occasion included **Mrs. Jyoti Rao**, *President*, *Aashirwad Ladies Club*, **Dr. Swasti Sthapak**, *Professor*, *DoA*, **Mrs. Jayashree Dhekne**, *w/o Dr. P.Y. Dhekne, Associate Professor, DME*, **Dr. Mridu Sahu**, *Assistant Professor*, *IT*, **Mrs. Jaya Srivastava**, and **Mrs. Shivkali Jharia** were also involved. The *President of Zindagi Na Milegi Dobara*, *Social Service Organization*, **Mrs. Sushma Tiwari** and **Patron Ajay Sharma** were also present on the occasion.

Aashirwad Club arranged a one-day Diwali exhibition and sale event at the Nilgiri premises at NIT Raipur on 07th Nov. 2023. This exhibition featured and sold items crafted by physically and mentally challenged children. The program was inaugurated by **Mrs. Jyoti Rao**, and it represented endeavour to integrate especially abled children into mainstream society, consistent with the club's broader social work efforts. Among the artistic children such as **Yug Dewangan**, **Jeetendra Sahu**, **Devendra**, and **Rahul**, along with their teachers including **Sangeeta**, **Bhumika**, **Anjali**, **Neeta**, and others were involved. During this occasion, **Mrs. Jayashree Dhekne**, **Mrs. Jaya Srivastava**, **Mrs. Anjana Patle**, **Mrs. Rashmi Diwan**, **Dr. Swasti Sthapak**, **Dr. Vandana Agarwal**, *Assistant Professor, DoA,* **Dr. Mridu Sahu** and **Dr. Priyanka Tripathi**, *HoD, MCA* extended their support and encouragement to the children and their organization in this exhibition. The success of this program was made possible through the generous assistance of the Nilgiri campus residents at NIT Raipur and the dedicated women of the Aashirwad Club. Aashirwad Ladies Club launched a campaign on 28th and 29th October to donate old clothes. These clothes were gathered in the parking lot of the Institute's Nilgiri residence for children, women, and men. During this time, old sheets and blankets were also donated according to the cold climate.

STTP/Conference/Workshop Conducted

NIT Raipur Hosts an Online Informative Talk Session

Department of Electronics and Communication Engineering (ECE), **NIT Raipur** in association with the **Institute of Electrical and Electronics Engineers, Electron Devices Society, Student Branch Chapter (IEEE EDS SBC)** hosted an online expert lecture talk on 16th Sep. 2023. The session was graced by the Guest speaker **Dr. Hiroshi Iwai**, *Vice Dean and Distinguished Chair Professor*, *National Yang Ming Chiao Tung University*, **Professor Emeritus**, *Tokyo Institute of Technology*, *Japan*, who gave important insights on the topic, **Invention of the Transistor in December 1947: The Origin of Device Miniaturization towards Super-Intelligent Society**. The event was conducted under the guidance of **Dr. Guru Prasad Mishra**, *Faculty In-Charge*, *IEEE EDS NIT Raipur*, by a dedicated leadership team headed by **Mr. Abhishek Ray**, *Student Chapter*, *IEEE EDS NIT Raipur*. The session began with the welcoming of **Dr. Iwai** and introducing him to the attendees. Dr. Iwai explained the importance of conducting this talk so as to honour the 75 years of invention of the transistor, without which the concept of a digital society would have been unimaginable. He further elaborated on the contributions of various scientists and explained the evolution of technology from the first telegraph to triode vacuum tube to finally the transistor which brought in the concept of miniaturization and introduced a whole new field of science called micro/nano electronics, with a lucid explanation of the underlying physics. Finally, he concluded with the fact that the coming centuries would be controlled by the far more sophisticated and efficient bionics and biosystems just as mechanics and electronics dominate the world today. A Q&A session was conducted towards the end and the talk was concluded by **Mr. Abhishek Ray** expressing his gratitude towards **Dr. Iwai** for investing his invaluable time in enlightening the students and making them realize the transformative powers of innovation.

STTP on 'Essential Communication Skills'

Department of Humanities & Social Sciences in association with **Department of Electrical Engineering**, **NIT Raipur** organized a valedictory ceremony for the STTP on **Essential Communication Skills for UG, PG and Research Scholars** on 21st Sep. 2023 in virtual mode.

The STTP featured 30 comprehensive lectures delivered by 10 renowned speakers, each an expert in their respective domains. The esteemed speakers from diverse background shared their valuable insights and experiences, elevating the educational value of the program significantly. Attendees, enthusiastic individuals, were from diverse backgrounds, including faculty members, engineering students, and research scholars, from prestigious Institutes in India. The valedictory ceremony of the program was graced by the presence of **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur*, as the Chief Guest. He emphasized the importance of effective communication and soft skills in everyday requirements of the current scenario. The coordinators extended their heartfelt gratitude to **Dr. N. V. Ramana Rao, Dr. P. Diwan**, *Dean (R&C)* and **Dr. S. Ghosh**, *Chairman*, *CEC* for their unwavering support and approval in making this STTP a success. Leading the team with great efficiency and dedication, **Dr. Anoop Kumar Tiwari**, *HoD*, *DHSS* served as the Co-Patron of the event. The program coordinators of the STTP were **Dr. Y. Vijaya Babu**, *Assistant Professor*, *DHSS*, and **Dr. Binod Shaw**, *Assistant Professor*, *EE*. Members of the organizing committee were **Dr. S. K. Tarai**, **Dr. S. Sarkar**, and **Dr. Moksha Singh**, *Assistant Professors*, *DHSS*.

Lecture session themed 'Emotion Regulation'

Department of Humanities and Social Sciences, **NIT Raipur** organized a Lecture session on the topic **Emotion Regulation** on 26th Sep. 2023. **Mr. Amrut Majumdar** was the Guest Speaker of the session. **Dr. Anoop Kumar Tiwari**, *HoD*, *DHSS*, **Dr. Moksha Singh**, *Assistant Professor*, *DHSS*, **Dr. L. K. Tiwari**, *Temporary Faculty*, *DHSS*, **Mr. Suraj Nishad**, *Teaching Assistant*, *DHSS*, faculty members, students and Ph.D. scholars were present in the program. The program was coordinated by **Dr. Manju Shukla**, *Yoga Faculty*, *DHSS*.

Mr. A. Majumdar highlighted the emotional balance through self-awareness, analysis, mindfulness, and deep breathing. During his lecture, he shared his views with all the attendees on how to keep oneself balanced in different situations. The event witnessed enthusiastic participation from over 100 students.

Two-Day Seminar on Value Education and Mental Health

NIT Raipur's Department of Humanities and Social Sciences (DHSS) organized a two-day seminar on **Value Education and Mental Health of Students** on 5th & 6th Oct. 2023. The seminar coincided with the global observance of the **World Mental Health Day** on 10th Oct. 2023. The workshop was conducted under the guidance of **Dr. Anoop Kumar Tiwari**, *HoD, DHSS* by a dedicated leadership team headed by **Dr. Heena Chawda**, *Faculty*, *DHSS*. It aimed to raise awareness about mental health, stress management, and techniques to combat depression among students.

Mr. Surendra Pal, *DAC*, *External Sub.*, *Value Education*, *NIT Raipur*, present as the Chief Guest inaugurated the seminar on day one. It was soon followed by a short movie premiered on the theme **Solving the Struggles of College Students through Value Education Classes** and a brief introduction to the seminar's theme by **Dr. Heena Chawda**. **Mr. Surendra Pal**, *Value Education and Human Consciousness-Oriented Psychology Expert*, shed light on conflict resolution in human life, relationships, and ways to cope with academic pressure. With his rich educational background (M.Tech from **IIT Mumbai** and B.Tech from **IIT Delhi**), and expertise in **Coexistential Philosophy**, **Mr. Pal** provided valuable insights into humanist and educationist perspectives. **Dr. Anoop Kumar Tiwari** inaugurated the seminar on the second day by highlighting the importance of discipline in students' life. **Mr. Shriram Narasimhan**, *Human Consciousness-Oriented Psychology and Coexistential Philosophy Expert*, shared his profound insights into life beyond the realms of career and academics. With a diverse educational background (B.Tech. Electronics from Pune and MA Anthropology & Development from **LSE & SOAS, London**), **Mr. Narasimhan** inspired attendees to explore broader horizons.

The seminar received overwhelming support from all the Heads of Departments and faculty members, ensuring the active participation of undergraduate, postgraduate students, and research scholars. The event served as a significant milestone in promoting mental health awareness, inspiring students to lead healthier and more fulfilling lives. The **Department of Humanities and Social Sciences**, led by **Dr. Anoop Kumar Tiwari** reaffirmed its commitment to the holistic education and well-being of students at **NIT Raipur.**

Participated in Indian Mobile Congress (IMC) 2023

Department of Electronics and Communication Engineering (ECE), NIT Raipur took part in the **Indian Mobile Congress (IMC) 2023,** organized by the **Department of Telecommunication (DoT), Govt. of India**, in collaboration with the **Cellular Operators Association of India (COAI)** from 27th to 29th Oct. 2023 at the Bharat Mandapam, New Delhi, via live video conferencing on 27th Oct. 2023. **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Dr. P.Y. Dhekne**, *Registrar*, and **Dr. Shrish Verma**, *Dean (Academics)* graced the event with their presence, along with **Mr. Neeresh Sharma**, *Director (Admins & Tech.), O/o DDG (C), MPLSA, DoT*. The event was organized under the supervision of **Dr. T. Meenpal**, *HoD, ECE*, and **Dr. S. Deshmukh**, *Associate Professor, ECE*.

The Hon'ble Prime Minister graced the inaugural event of IMC 2023, in whose presence the DoT officially awarded the 5G use case Labs to 100 selected institutions, of which NIT Raipur is one of the awardee institutes. Some use cases proposed to be investigated at the institute are Remote Health Care, Precision Farming, and Industrial Revolution 4.0. The 5G use case laboratory development is expected to build competencies and engagement in 5G and beyond technologies among students and the academic fraternity. Moreover, the new infrastructure will encourage academia-industry engagement to ideate and develop India-specific 5G use cases for rural and remote areas.

Organized Industrial visit to VNR Seeds

Department of Biotechnology (DBT), NIT Raipur organized an **Industrial visit to VNR Seeds Pvt. Ltd**. *Raipur, Chhattisgarh* on 31st Oct. 2023. The industrial visit was organized for 5th semester B. Tech students, *DBT* under the guidance of **Dr. Awanish Kumar**, *HoD, DBT* and **Dr. Chinmaya Mahapatra**, *Assistant Professor, DBT, Department Coordinator, and Outreach Committee*.

The objective of this industrial visit was to provide students with a unique opportunity in the field of Biotechnology and to witness how theoretical knowledge is applied in practical & industrial settings. During this visit, students interacted with all the scientists and researchers who are working at VNR Seeds, such as **Mr. Ashok Patel**, **Dr. Kislay Sinha**, and **Mr. Deepankar Sarkar** gaining valuable insights into plant hybrid technology and its mechanisms. They learned about the instruments used in the field which helped them to deepen their knowledge and understanding. The technical staff including **Dr. Vivek Kumar Singh**, **Mr. Dilip Kumar Chandra**, and **Mr. Zafar Khan** assisted the students. This

industrial visit served as a transformative experience and bridged the gap between classroom knowledge and real-world applications which provided students with invaluable hands-on experiences, equipping them to excel in their careers and make significant contributions to the constantly evolving field of biotechnology.

Organized National Chemical Conference

Department of Chemical Engineering, **NIT Raipur** hosted a two-day National Chemical Conference on **Advances in Chemical and Environmental Science & Engineering** on 1st and 2nd Dec. 2023. On Day 1, **Dr. Suresh Haware**, *Chairman BOG*, *NIT Raipur* was present as the Chief Guest, and **Dr. N.V. Ramana Rao**, *Director*, *NIT Raipur* was the Guest of Honor. **Dr. B.C. Meikap**, *Professor and Head DCE*, *IIT Kharagpur* was the Keynote Speaker of the conference, and **Dr. A. B. Soni**, *Professor*, *DCE*, *NIT Raipur* was the Chairperson of the conference. The conference was organized under the guidance of **Dr. Amit Keshav**, *HoD*, *DCE* and **Dr. J. Anandkumar**, *Associate Professor*, *DCE*. The objective of the conference was to provide a platform for interaction, exchange of knowledge and innovative ideas on research advancements in the areas of Chemical Engineering, Industry experts from Biotechnology, Environmental Science and Technology, Chemistry, AYUSH, etc. were in attendance and 68 papers were presented in this conference on these fields. Dr. A.B. Soni highlighted the institute's conference, which has garnered over 90 research articles. This event offered a platform for faculty, engineers, students, industrial professionals, and other researchers in Chemical Science and Engineering to exchange and disseminate the latest advancements in the field. **Dr. Amit Keshav** provided insights into the department's contributions and emphasized the societal benefits expected to emerge from the conference. **Dr. B.C. Meikap** underscored the critical role of technology in fostering a healthier environment, urging collective efforts to combat pollution. **Dr. N.V. Ramana Rao** highlighted the unique opportunity the conference provides students to engage with professors at the national level, enhancing their academic and professional perspectives. **Dr. Suresh Haware** emphasized how engineering shapes mindsets while elucidating the transformative impact of technological solutions on a country's development. Drawing parallels with examples such as **Sweden's Garbage Treatment Plant** and **Sai Seva Sansthan** in *Shirdi*, he motivated students to recognize the pivotal role of engineering in societal progress. At the end of the ceremony, the event reached a symbolic zenith with the publication of the abstract booklet. This was followed by a speaker session on **control of SO2 and flue gas conditioning to enhance fly-ash removal efficiency of ESP in coal based thermal power plants** by Dr. B.C. Meikap.

Day 2 featured a lecture by **Dr. Kailas L. Wasewar**, *Professor and Associate Dean (Education Technology & Library)* of *DCE* at *VNIT Nagpur*. **Dr. Wasewar** shared insights on the **Perspective Towards Chemical Engineering & Sustainability**, adding a valuable dimension to the conference's discourse which was followed by felicitation of the participants who presented best papers in their presentations. The certificate of participation was given to the students of the Institute. Bringing the two-day conference to a close, **Dr. J. Anandkumar** delivered the vote of thanks.

Research Frontier

Awards, Recognition, and Fellowship

- **Dr. Pradeep Singh,** *HoD*, *CSE* and **Dr. Dilip Singh Sisodia**, *Associate Professor*, *CSE*, **Dr. Chandrashekhar Jatoth**, **Dr. Govind Prasad Gupta**, **Dr. Gyanendra Kumar Verma**, *Assistant Professors*, *IT* and **Dr. Rakesh Tripathi**, *Associate Professor*, *IT*, **Dr. Anamika Yadav**, *HoD*, *EE*, **Dr. Sachin Jain**, and **Dr. Subhojit Ghosh**, *Professors*, *EE*, **Dr. Bikesh Kumar Singh**, *HoD*, *BME*, **Dr. Pratima Gupta**, *Professor*, *DBT* and **Dr. Awanish Kumar**, *HoD*, *DBT*, and **Dr. Dalchand Jhariya**, *HoD*, *DAG* have been featured in the prestigious list of **World Ranking of Top 2% Scientists/Researchers** released by the renowned **Stanford University, USA** in the various fields of Engineering & Technology for the year 2023.
- **Dr. Anup Kumar Sharma**, *Assistant Professor*, *DoM* & **Mohd. Irfan's**, *Ph.D. Scholar*, *DoM* paper titled *Reliability Characteristics of COVID-19 Death Rate Using Generalized Progressive Hybrid Censored Data (IJQRM)* got published on 11th Sep. 2023.
- **Dr. Anup Kumar Sharma**, *Assistant Professor*, *DoM* & **Mohd. Irfan's**, *Ph.D. Scholar*, *DoM* paper titled *Bayesian Estimation and Prediction for Inverse Power Maxwell Distribution with Application to Tax Revenue and Health Care Data Set (JMASM)*.

Patents

- **Dr. Ishtiyaq Ahmad**, *Assistant Professor, CE*, **Dr. Vivek Verma**, *Postdoctoral Research Fellow, Department of Civil & Environmental Engineering*, *Florida International University*, *US,* and **Dr. Asif Ahmad**, *Assistant Professor*, *ME*, *Pranveer Singh Institute of Technology*, *Kanpur* have been issued a design patent titled **Multi-Layer Water Filter** on 2nd Nov. 2023. The patent has been registered by the Patent Office, Government of India.

- **Dr. L. K. Sahu**, *Assistant Professor, EE*, **Dr. S. Gupta**, *Professor, EE,* and team (**Shivam Prakash Gautam, Manik Jalhotra**) have been granted a patent titled **Highly Resilient Fault Tolerant Topology of Single Phase MLI** by the Patent Office, Government of India on 14th Nov. 2023 for a term of 20 years.

Sponsored Research Projects

- The project titled *Fund for Improvement of Science & Technology (FIST 2023)* by **Dr. Guru P. S. C. Mishra**, *PI*, **Dr. Chitrakant Sahu**, *CO-PI*, **Dr. Alok Naugarhiya**, *CO-PI*, **Dr. Ashish Kumar**, *CO-PI* and **Dr. Kaushal Kumar Nigam**, *CO-PI* has been sanctioned by the **Department of Science and Technology, Government of India.** Rs. 1,18,00,000/- for a period of 5 years.

PhD Thesis Defended

- **Mr. Mohd. Nasim** defended his Ph.D. thesis entitled *Parametric Study on Self-Healing Capability of Fiber Reinforced Cementitious Composites Enhanced by Crystalline Admixture* on 17th Feb. 2023 under the supervision of **Dr. U. K. Dewangan**, *Professor, CE.*
- **Mr. Mangesh Ramaji Kose** defended his Ph.D. thesis entitled *Development of New Technique for Analysing the EEG based Brain Connectivity Network* on 9th Apr. 2023 under the supervision of **Dr. Mithilesh Atulkar**, *Professor, MCA,* and **Dr. Mitul Kumar Ahirwal**, *Assistant Professor, CSE, MANIT Bhopal.*
- **Ms. Monika** defended her Ph.D. thesis entitled *Land deformation/displacement monitoring in coal mines of Korba, Chhattisgarh, India using SAR remote sensing* on 9th Apr. 2023 under the supervision of **Dr. Himanshu Govil**, *Assistant Professor, DAG,* and **Dr. R. S. Chatterjee**, *Scientist & Head, Geosciences Department, IIRS, Dehradun.*
- **Mr. Ravindra Kumar Chouhan** defended his Ph.D. thesis entitled *Intrusion Detection and Prevention in Software Defined Networks using Machine Learning Techniques* on 30th Jun. 2023 under the supervision of **Dr. Mithilest Atulkar**, *Professor, MCA,* and **Dr. Naresh Kumar Nagwani**, *Professor, CSE.*
- **Mr. Khemraj Deshmukh** defended his Ph.D. thesis entitled *Numerical study and Evaluation of degradation of poly-electrolyte complex scaffold under cryogenic conditions* on 11th Jul. 2023 under the supervision of **Dr. Arindam Bit**, *Associate Professor, BME* and **Dr. Saurabh Gupta**, *Assistant Professor, BME.*
- **Ms. Saswati Mishra** defended her Ph.D. thesis entitled *Development Of Fault Location Algorithms for Facts Compensated Transmission Lines* on 9th Aug. 2023 under the supervision of **Dr. Shubhrata Gupta**, *Professor, EE,* and **Dr. Anamika Yadav.** *HoD, EE.*
- **Ms. Bharati Patel** defended her Ph.D. thesis entitled *Automated Phenotyping Traits Analysis of Rice Plants by using Machine Learning Techniques* on 28th Aug. 2023 under the supervision of **Dr. Aakanksha Sharaff**, *Assistant Professor, CSE.*
- **Mr. Panduranga Ravi Teja** defended his Ph.D. thesis entitled *An Optimize Resource Allocation* Scheme Framework for Device Tier Communication for 5G Cellular Networks on 31st Aug. 2023 under the supervision of **Dr. Pavan Kumar Mishra**, *Assistant Professor, IT.*
- **Ms. Pinkey Chouhan** defended her Ph.D. thesis entitled *Development of Efficient Intrusion Detection and Prevention Model for Software Defined Networking based Internet of Things* on 10th Sep. 2023 under the supervision of **Dr. Mithilesh Atulkar**, *Professor, MCA.*
- **Ms. Maheswata Moharana** defended her Ph.D. thesis entitled *Computational studies on the binding performance of phytochemicals with proteins involved in infectious diseases* on 15th Sep. 2023 under the supervision of **Dr. F. Khan**, *Professor, DoC.*
- **Mr. Satya Kumar Dewangan** defended his Ph.D. thesis entitled *Effect of Process Parameters, Tool Design and Interlayer on Similar and Dissimilar Friction Stir Welding of Al and Mg Alloys* on 15th Sep. 2023 under the supervision of **Dr. Manoranjan Kumar Manoj**, *Assistant Professor, MME,* and **Dr. M. K. Tripathi**, *Associate Professor, MME.*
- **Ms. Rama Devi** defended her Ph.D. thesis entitled *Synthesis and Characterization of Polypyrrole & its Composites for Supercapacitor Application* on 21st Sep. 2023 under the supervision of **Dr. Tungabidya Maharana**, *HoD, DoC,* and **Dr. Kavita Tapadia**, *Associate Professor, DoC.*
- **Ms. Priyanka Singh** defended her Ph.D. thesis entitled *Design, Synthesis, Structural and Physico-Chemical Analysis of Hydrogen-bonded Coordination Networks Based on N/O Donor Multidentate Ligands with Some Metal Ions and Evaluation of Few Organic Crystals* on 22nd Sep. 2023 under the supervision of **Dr. K. A. Siddiqui**, *Associate Professor, DoC.*
- **Mr. Ravikant Singh** defended his Ph.D. thesis entitled *Conservation of Degraded Wetland Ecosystem: A Mathematical Modeling* on 27th Sep. 2023 under the supervision of **Dr. N. K. Thakur**, *Associate Professor, DoM.*
- **Mr. Somnath** defended his Ph.D. thesis entitled *Design, Synthesis, Structural, Physico-Chemical Analysis and Applications of Coordination Polymers with Cobalt, Copper, Zinc and Cadmium Metals and Some Multidentate Organic Ligands* on 27th Sep. 2023 under the supervision of **Dr. K. A. Siddiqui**, *Associate Professor, DoC.*
- **Mr. Sandeep Soni** defended his Ph.D. thesis entitled *Feasibility assessment of inter basin water transfer from Indravati basin to Mahanadi Reservoir Project (MRP) Complex* on 29th Sep. 2023 under the supervision of **Dr. Ishtiyaq Ahmad**, *Assistant Professor, CE.*
- **Ms. Bharti Ahuja** defended her Ph.D. thesis entitled *Image Security using Chaotic Map-based Hybrid Techniques* on 28th Oct. 2023 under the supervision of **Dr. Rajesh Doriya**, *Assistant Professor, IT.*
- **Ms. Indulekha K.** defended her Ph.D. thesis entitled *Qualitative and Quantitative assessment of groundwater using hydrogeological modelling in samoda watershed, Chhattisgarh India* on 28th Oct. 2023 under the supervision of **Dr. D. C. Jhariya**, *HoD, DAG.*

- **Ms. Chandrama Swain** defended her Ph.D. thesis entitled *Female Image, Male Gaze In The Novels Of Nadia Hashimi* on 31st Oct. 2023 under the supervision of **Dr. Jaya Dwivedi**, *Professor, DHSS*.
- **Ms. Aakriti Pandey** defended her Ph.D. thesis entitled *Design and Development of High Gain Converters for Renewable Energy Applications* on 3rd Nov. 2023 under the supervision of **Dr. Swapnajit Pattnaik**, *Associate Professor, EE*.
- **Mr. Manish Kumar Bawar** defended his Ph.D. thesis entitled *Investigation and Development of Driver Circuit for LED Based Lighting Application* on 4th Nov. 2023 under the supervision of **Dr. L. K. Sahu**, *Assistant Professor, EE*.
- **Mr. Shiv Kumar Manu** defended his Ph.D. thesis entitled *Investigation of biocorrosion inhibition using plant extract in stainless steel and galvanized steel* on 9th Nov. 2023 under the supervision of **Dr. R. Manivannan**, *Associate Professor, DoC*.
- **Mr. Rama Ranjan Panda** defended his Ph.D. thesis entitled *Fuzzy Logic Based Techniques for Software Bug Classification and Triaging* on 10th Nov. 2023 under the supervision of **Dr. N. K. Nagwani**, *Professor, CSE*.
- **Mr. Lakshminarayana Janjanam** defended his Ph.D. thesis entitled *System Identification using Meta-heuristic Optimization Algorithm Assisted Kalman filter* on 18th Nov. 2023 under the supervision of **Dr. Suman Kumar Saha**, *Assistant Professor, ECE*.
- **Mr. Mrinal Sahu** defended his Ph.D. thesis entitled *A Study on Dissimilar Friction Stir Welding of AA5083 to HSLA Steel and Evaluation of Joint Interface* on 24th Nov. 2023 under the supervision of **Dr. Subhas Ganguly**, *Associate Professor, MME*.
- **Mr. Prabhat Ranjan Mishra** defended his Ph.D. thesis entitled *Design, development, analysis, and applications of an evaporative cooler* on 24th Nov. 2023 under the supervision of **Dr. V. K. Gaba**, *Associate Professor, ME,* and **Dr. Aneesh Somwanshi**, *HoD, ME, MATS University*.
- **Mr. Kousik Das** defended his Ph.D. thesis entitled *Computational Aspects of Discrete-Time Bulk Queueing Systems with Correlation in Arrival And/OR Service Processes* on 28th Nov. 2023 under the supervision of **Dr. S. K. Samanta**, *Associate Professor, DoM*.
- **Mr. Khilawan Patel** defended his Ph.D. thesis entitled *Synthesis and characterization of graphene oxide and functionalized graphene oxide for removal of heavy metals in water* on 1st Dec. 2023 under the supervision of **Dr. Tungabidya Maharana**, *HoD, DoC,* and **Dr. A. K. Sutar**, *Associate Professor, School of Chemistry, GMU, Sambalpur*.
- **Mr. Vinit Rajesh Lambey** defended his Ph.D. thesis entitled *GIS & IoT Based Real Time Air Pollutant Monitoring Solutions using UAV* on 9th Dec. 2023 under the supervision of **Dr. A. D. Prasad**, *Assistant Professor, CE*.

Students' Corner

- **NIT Raipur's Sanskar Gupta**, *7th sem, CE*, **Vishakha Jha**, *7th sem* and **Anshika Gupta**, *3rd sem, EE*, **Khushi Gupta**, *3rd sem, MME* were winners in the prestigious **O.P. Jindal Engineering and Management Scholarships (OPJEMS).**
- **NIT Raipur's Shivam Gupta**, *5th Sem, MME*, **Raj Motwani**, *5th Sem, ME* & **Harsh Agrawal**, *5th Sem, ME* secured rank 1 at the National level in **CEREBRUM' 23 APAC Hackathon** by Western Digital conducted on 12th Oct. 2023 at Western Digital premises, Bengaluru.
- **NIT Raipur's Arnav Tripathi**, **Hari Jagannath Jain**, **Bhupendra Gehlot** and **Sachin Basantia** emerged as the national finalists at **Dr. Reddy's Aspire Case Challenge** competition.
- **NIT Raipur's Aishwary Kumar Singh, Amitabh Shukla, Aayush Dubey** & **Lakshya Raj** emerged as the national semi-finalists at **Dr. Reddy's Aspire Case Challenge** competition.
- **NIT Raipur's Medha Kumari**, *5th Sem, DCE* & **Arshi Khan**, emerged as the national finalists at **Tata Steel Women of Mettle Season 7.**
- **NIT Raipur's Aishwary Kumar Singh, Amitabh Shukla & Aayush Dubey** emerged as the national finalists & PPO winners at **Tata Elxsi TELIPORT.**
- **NIT Raipur's Hari Jagannath Jain, Nitesh Patel** and **Rajvardhan Singh** emerged as the national semi-finalists at **Coca-Cola Disrupt Season 3.**
- **NIT Raipur's Aishwary Kumar Singh, Amitabh Shukla &** **Lakshya Raj** emerged as the national semi-finalists at **Coca-Cola Disrupt Season 3**.
- **NIT Raipur's Rishi Raj & Bhumika Bose** emerged as the national winners from over 1000 teams representing leading business schools at **Samadhaan'23**, a Guesstimate Competition conducted by IIM Raipur.
- **NIT Raipur's Rishi Raj, Bhumika Bose & Tarun Singh** coveted spot in the **top 18 teams globally** advancing to the International finals of **GSRC International Case Competition, IIM Bangalore-Vista 23**. The competition witnessed over 1600 teams from more than 20 countries, including students from **IIMs, NMIMS, NYU, UBC Sauder School of Business**, and **Peking University**.

Club/Committee Activities

Unkahi 19.0 by Abhinay

NIT Raipur's Abhinay-The Dramatics Club, in association with the **Turing Club of Programmers (TCP)**, the Institute's official Coding club organized an open mic session - **UNKAHI 19.0** ahead of **CodeUtsava 7.0** on 29th Oct. 2023.

Engaging stories and incident narrations, captivating poems, mesmerizing songs, and thrilling performances by students made the event a success.

E-Cell Activities

Career Guidance-GATE Seminar

Entrepreneurship Cell (E-Cell), NIT Raipur conducted a special speaker session titled **Career Guidance- GATE (Graduate Aptitude Test in Engineering) Seminar** on 6th Oct. 2023, under the guidance of **Dr. Chandrakant Thakur**, *Faculty In-charge*, *E-Cell*.

The program began with a greeting of the esteemed speaker, **Mr. Diptanshu Choubey**, *Alumnus (IIT BHU)*, *GATE Rank Holder (157 and 186)*, *GATE professor, Physics Wallah (PW)*. He provided invaluable insights and in-depth knowledge about GATE preparation and shared the study techniques and strategies for **Indian Engineering Services (IES)** exam, a prestigious exam conducted by the **Union Public Service Commission (UPSC)**. The eye-opening lecture concluded with an interactive Q&A session. **Mr. D. Choubey** enthusiastically answered various questions regarding the exam preparation and motivated the students for their future endeavours.

E-Summit 23-24

Entrepreneurship Cell (E-Cell), **NIT Raipur** organized its flagship event **E-Summit 23-24** from 3rd to 5th Nov. 2023. The aim of the event was to spark and nurture the entrepreneurial spirit, empowering students to become change-makers and trailblazers in the business world. The event was organized under the adept guidance of **Dr. Chandrakant Thakur**, *Professor In-charge*, *E-cell*.

NIT Raipur flagged off **E-Summit 23-24** on 3rd Nov. 2023. Dr**. (Mrs.) A. B. Soni**, *Director (I/C)*, *NIT Raipur* was the Chief Guest. She delved into the essence of entrepreneurship and events like E-Summit and shared valuable insights, igniting the entrepreneurial spirit in the audience and expressed her heartfelt gratitude to the sponsors and partners for their invaluable support, acknowledging their pivotal role in making the event a reality. **Dr. Thakur** highlighted E-Cell's mission to nurture entrepreneurship and innovation, emphasizing the importance of this event in providing students with knowledge and skills in entrepreneurship and acknowledged the team's dedication in overcoming challenges to make the event a reality. **Dr. Samir Bajpai**, *Head*, *CDC* stressed the significance of startups, urging the audience to channel their dedication and hard work into their passions. **Dr. Shrish Verma**, *Dean (Academics)* motivated students to harness their talents and intellect in the right direction, inspiring them to embark on their entrepreneurial journeys with determination and purpose.

Investor Pitching was a highlight on the schedule, featuring startups presenting their businesses to a distinguished panel of investors, including **Mrs. Namrata Tatiya**, *Startup mentor & ecosystem enabler*, **Mr. Tushar Vadera**, *Startup Enabler & Co-Founder at SetMyCart*, **Parminder Sahni**, *Co-Founder at Vsnapu* and **Arvind Agrawal**, *Founder of VNR Seeds*. On day two, **Mr. Kamlesh Ghumare** (Jugadu Kamlesh), *Start-up Founder*, *K.G. Agrotech* was the speaker of **Utkrishth**. He discussed the significance of exposure, highlighting the importance of farming, and its relevance in society. His key message underscored the value of individuality which aimed to elevate farming to a larger platform. **Mr. Arsh Goyal**, *Content Creator*, *YouTube* and **Mr. Rishabh Telang**, *Founder*, *Cult.fit* were the speakers of **Entropy**. **Mr. A. Goyal** reflected a different mindset of Gen-Z who tend to save less and spend more and acquainted students on the various skill sets required to get good careers in the corporate world. **Mr. R. Telang** discussed the RIH formula i.e., Risk, Insights, Hustle which is essential for developing problem solving skills. In the **B- Quiz Competition**, **Anirudh Pratap Singh** and **Tanish Agrawal** stood 1st, **Aditya Soni** and **Vijayesh Dey** were 2nd while **Ayush Singh** and **Samarth Surya Mishra** stood 3rd. **Mime act** was staged by **Abhinay- The Dramatics Club**, **NIT Raipur** alongside various cultural performances presented by **Raag- The Music Academy** and **Raaga- The Musical Club**, **NIT Raipur** to conclude the festivities on day two. On day three, **Utkrishth** speaker **Mr. Abhishek Dubey**, *Founder & CEO*, *Muskaan Dreams*

encouraged the proliferation of social entrepreneurship within society and acknowledged the maturity displayed by students. Alumni talk was conducted to provide an insight about the learning experiences of the alumni during college period. **Mr. Meghal Agrawal**, *Founder & CEO, CodeNicely* shared how he encountered challenges while working with various startups like Wednicely, Gimbooks, Vahak, etc. discoursing the importance of real ideas rather than the copy ones. In the **Ignition: B- Model Competition**, **Team Buyfi** secured **1st** position, **Team Sync Vers** stood **2nd** while **Team the Lawpreneurs** grabbed the **3rd** place. **Raag- The Music Academy** performed before the audience while **Team Abhinay** also staged a play that left the audience awestruck. Numerous events such as **B-case Study**, **Startup Expo**, **Investor Pitching** and **Fun-E-Stock 2.0** were also, a part of this three-day fiesta. The series of events concluded with vote of thanks delivered by *Team E-Cell*. The three-day fest raised the spirit of entrepreneurship and inculcated the values of business amongst the attendees.

Session themed 'Engineering Ethics' by Ethics Club

Ethics Club, **NIT Raipur** organized a Guest Speaker Session titled **Engineering Ethics** on 8th Nov. 2023. The event was graced by the Guest Speaker **Dr. Mukunda Madhav**, *Director at CHOICE, and an alumnus of IITB*. The session was organized successfully under the guidance of **Dr. Lalit Kumar Sahu**, *Professor In-charge*, *Ethics Club*. **Dr. Shirish V. Deo**, *HoD, CE*, **Dr. Govardhan Bhatt**, *Assistant Professor, CE,* and **Dr. Ravikant Verma**, *Assistant Registrar, Examination* were also present. **Dr. Madhav** discoursed that ethics is the distinction between what is right and what is wrong. He elaborated the guiding actions that bring a sense of pride further elaborating with the mirror test that serves as an assessment of these ethical standards. **Dr. Madhav** stated that values form the cornerstone of an individual's character, while the conscience acts as the 7 custodian of these values and an inner moral guide, by taking examples illustrating unethical practices involved in the construction of **Supertech Twin Towers** in *Noida*, **Collapsing of Morbi Suspension Bridge** in *Gujarat*, **Bhopal Gas Tragedy** and many more. He concluded with the statement *Putting oneself in another person's shoes* is the sole method to engage in ethical behaviour. The event ended with a Q&A session and distribution of certificates among the students. The session effectively promoted critical thinking, ethical decision-making, and awareness of the broader social implications of one's work, influencing one's future professional behaviour and mindset by enhancing one's ability to resolve ethical dilemmas.

Non-Core Week: A Blend of Career Insights and Club Orientation by FCC

Finance and Consultation Club (FCC), **NIT Raipur** recently hosted two remarkable events on 7th and 8th Oct. 2023, coinciding with the grand opening ceremony of the club's orientation. The event was organised under the guidance of **Dr. Anoop Tiwari**, *Faculty In-charge, FCC*. The session started with a warm welcome to a pair of distinguished guests, **Mr. Shubham Tiwari**, *Associate, PwC US Advisory*, *IIM Kozhikode, Alumnus (ME/2017)*, and **Mr. Tarun Kaushik**, *Senior Consultant, KPMG, IIM Bangalore, Alumnus (ME/2016)* took the stage. The core theme of the session revolved around consulting as the art of solving complex problems for others through the expertise of consultants. The speakers emphasized the critical steps students should consider before stepping into the consulting world. A resounding message from the session was the importance of pursuing higher-level education, particularly an MBA, to elevate one's consulting career. Transitioning to the opening ceremony of the Financial Consultation Club's orientation session, **Dr. Anoop Tiwari** took the opportunity to differentiate finance from accounts, leveraging real-life examples to drive home his point. The anchor then delved into the club's history and formation, underscoring its commitment to financial literacy, career opportunities, improved analytical skills, and networking possibilities. The ceremony also showcased the vast career options in finance. The club's ongoing and upcoming projects, including ventures with the Haryana Urban Development Authority and the Nail Company, along with exciting prospects like C-Mart and an RBI chatbot initiative. The event concluded with a thrilling quiz featuring two rounds, an eliminator, and a final round. **Samyak Jain Banzal**, *3rd Sem., EE* emerged as the victor, and the event ended with the distribution of prizes.

Idol Making Competition by Go Green

Go Green- The Eco-social Committee of NIT Raipur organized **Green Ganesha**, an eco-friendly idol-making competition to commemorate **Ganesh Chaturthi** on 8th Oct. 2023. The event was organized under the supervision of **Dr. D. C. Jhariya**, *Faculty In-charge*, *Go Green* and well-coordinated by the members of the committee. The main objective was to protect the environment and human beings from harmful effects of chemicals used in making Ganesha idols and to emphasize natural earthen idols over Plaster of Paris idols. **Dr. Sharda Nandan Raw**, *Associate Professor, DoM* was present as the judge of the competition. He admired the creativity and hard work of all the participants and committee members. Over 200 people participated individually or in teams of up to 4 members in the competition from 10 different institutions. They were provided with earthen soil, tools and natural colors like turmeric, vermillion, etc., to highlight their creativity. **Gaurav Sinha** and **Prahlad Sahu** secured **1st** position, **Manish Kumar Sahu** secured **2nd** position and **Prathiba**, **Riya**, **Vinay** & **Supriya** secured **3rd** position respectively in the College Category. **Chunmun Sahu** & **Chaitali Sharma** secured **1st** position, **Kritika Rathore** secured **2nd** position and **Misha Verma** & **Tanya Dewangan** secured **3rd** Position respectively in the Higher section. **Atharva Raj Gupta, Priyanshu Nirmalkar, Gitanshu Sahu** & **Gopal Patel** secured **1st** position, **2nd** position was secured by **Shreyas Kumar Patel**, **Bhavya Patel** & **Shreya Patel,** and **3rd** position was secured by **Kartik Nirmalkar**, **Tripti Thakur**, **Akriti Thakur** & **Rajat Chandrakar** from the Junior section of School Category. Winners were felicitated and participation certificates were distributed among the participants.

ATL Lab Visit by I-Cell

Innovation Cell (I-Cell), **NIT Raipur** organized a visit to the Atal Tinkering Labs (ATL) of **Govt. High School**, *Latabod*; **Swami Atmanand Boys School**, *Balod*; and **Govt. Girls Model Higher Secondary School**, *Balod* on 14th Oct. 2023. The primary objective of this visit was to inspire and educate the students about the world of innovation. The visit was scheduled under the able guidance of **Dr. Saurabh Gupta**, *Professor In-charge, I-Cell*. During the visit, Team I-Cell conducted many activities including Entrepreneurship Guidance, Inspirational Talks, Project Showcases, Question and Answer Sessions. Team I-Cell received positive feedback from the schools and the students likewise. Numerous students expressed an ardent desire to pursue careers in engineering, innovation, and even entrepreneurship. The ATL visits to these government schools were a significant step in the ongoing efforts of the Institute to promote engineering, innovation, and entrepreneurship among students.

Grand Garba Night by Nrityam

NIT Raipur's Nrityam- The Dance Club, organized a **Grand Garba Eve** on 20th Oct. 2023 as a part of Navratri celebrations. The colourful event was organized under the guidance of **Dr. Moksha Singh**, *Faculty In-Charge, Nrityam*. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Shrish Verma**, *Dean (Academics)*, **Dr. Nitin Jain**, *Dean (Students' Welfare)*, **Dr. Manoj Pradhan**, *Professor*, *ME*, and various other faculty members along with their families graced the occasion. The evening started off with the chanting of our National Song *Vande Mataram*, performed by **Team Raaga- The Music Club of NIT Raipur**, followed by the welcoming of the Distinguished Guests with a sapling. Subsequently, a ceremonial Durga puja was conducted. Dance performances were staged by team Nrityam. The freshers presented a Dandiya performance; the girls of the team performed a Bolly Garba and a duet performance portraying the eternal divine Radha Krishna with a surprising salsa twist concluded the performances from Team Nrityam. **Mrs. Jyoti Nagapraju**, **Mrs. Archana Verma**, **Mrs. Jaya Shrivastava**, **Mrs. Rashmi Pradhan**, **Mrs. Gopa Sanyal**, **Mrs. Anita Sahu**, **Mrs. Renu Poonia**, **Mrs. Vineeta Ramtekkar**, **Mrs. Poonam Raghuvanshi**, **Mrs. Rashmi Diwan**, **Mrs. Shilpa Chopkar**, **Mrs. Heam Yadav**, **Mrs. Mona Bikral**, **Mrs. Praneeta Sonkar**, **Mrs. Sulakshna Murti**, **Mrs. Pooja Mishra**, **Mrs. Sunita Kumar** and **Mrs. Monika Rajn** from the **MatrShakti Group**, **NIT Raipur** also took part in the event presenting an elegant dance performance. A token of appreciation was presented to the members of the group for their exceptional contribution to making the event a grand success. The stage was then opened for all, commencing the premiere Garba celebration. A special prize to the best dressed male and female was handed. **Mr. Prakhar Sharma** and **Ms. Ishika Jain** bagged the prizes.

Shruti'23 by Raaga

Raaga - The Music Club of NIT Raipur organized **Shruti 2k23** on 30th Oct. 2023. **Mrs. Jyothi Ramana Rao**, *w/o Dr. N. V. Ramana Rao, Director, NIT Raipur,* and **Dr.(Mrs) A. B. Soni**, *Professor, Chemical Engineering* were the Guests of

Honour. The program was organized under the supervision of **Dr. Shubhashis Sanyal**, *Professor In-charge, Raaga* and **Dr. Ayush Khare**, *Faculty In-charge, Raaga.* **Dr. P. Y. Dhekne**, *Registrar*, **Dr. Shrish Verma**, *Dean (Academics)*, **Dr. N. K. Jain**, *Dean (Students' Welfare)* and **Dr. Samir Bajpai**, *Head, CDC* were also present. The event commenced with the national song, followed by Ganesh Vandana. The musical performances spanned various genres, including retro, English, and South Indian, among others, demonstrating the rich tapestry of our country's music. These performances not only entertained but also united people from all walks of life, fostering a sense of togetherness and camaraderie among the guests and attendees. It was a night filled with soul-stirring music that resonated with everyone present, leaving a lasting impression. The program ended on a patriotic note, with an emotionally charged rendition of the national anthem. **Dr. Shubhashis Sanyal** and **Dr. Ayush Khare** extended their heartfelt gratitude to all those who had made the event a resounding success.

Sahyog Activities

Pitch-the Peculiar Hackathon

Sahyog- The Mentorship Club, **NIT Raipur** organized a special event titled **Pitch-The Peculiar Hackathon** on 9th Oct. 2023 at E-Hall, NIT Raipur. The event was organized under the guidance of **Dr. Ravi K. Jade**, *Faculty In-Charge, Sahyog*, and the Overall Coordinators, Coordinators, and mentors of the club. The program began with the brief introduction of 'Sahyog' and about the event. Pitch The Peculiar (PTP) is an event comprising 3 rounds that is conducted every year and aims at solving the problems and issues from NIT campus using technology. **Dr. Deepak Singh**, *Assistant Professor, CSE* and **Dr. Subhas Ganguly**, *Associate Professor, MME* were the judges of the event. **Dr. Subhas** congratulated the finalists and enlightened the students about the importance of failures and the ways to cope with them. **Dr. Deepak** motivated and encouraged the students to actively participate in such hackathons. Upon that, top 10 finalists pitched their novel & innovative solutions to the various ideas like Ragging Preventer, Event Calendar, Doubt Solver, Asset Manager, Academic Goals Manager and Crowd Analyzer, etc. Top teams were rewarded for their solutions to various problems. **Team Brainstormers**, consisting of **Premchand Maddikuntla**, **Lakshman Mulchandani** and **Shriyansh Gaur** stood 1st while **Team 2nd Next Gen Innovators**, made of **Ankush Singh**, **Nitesh Kumar** and **Arshad Yasir** stood 2nd. 3rd place was awarded to **Team Big3** having **Pranjal Naman**, **Shayan Khan** and **Prince Tripathi** as team

members. The event was then successfully concluded by a vote of thanks.

Mock Interviews

Sahyog - The Mentorship Club, **NIT Raipur** organized the **Mock Interviews** under the Mock Placement event on 25th Nov. 2023 in the Central Computer Centre (CCC). The event was organized under the adept guidance of **Dr. Ravi Jade**, *Faculty In-Charge*, *Sahyog*. The interview was the third and final round in the placement event. The applications were for the profiles of **Software Development Engineer (SDE)**, **Data Analyst (DA)** and **Core** job profiles for each branch. First round was an aptitude test conducted on 4th Nov. 2023. The second round was a Group Discussion. Out of 1000 candidates who appeared in the first round, 80 made it to the third and final round. The online interview panellists included NIT Raipur Alumni who are placed at various companies. **Hemant Kumar Rathore**, *VISA*, **Rudronil Dey**, *Hindustan Copper Limited*, **Shivam Kar**, *Gate ECE 101* and currently studying in *IISC Bangalore*, **Siddharth Mishra**, *Arcesium*, **Anikesh Rupchandani** and **Sumit Singh Thakur**, *Deloitte*. There were two panellists who took the interview offline. **Nirmalesh Verma** from *Shubhkamnaye Institute* and **Imran** from *Imran English classes*. The interviews consisted of questions from Core and technical subjects, coding questions with implementation and the candidates were judged for their resume, communication skills and presentation. There were puzzles and questions from some topics according to the candidate's profile and the subjects studied. The candidates were required to explain their answers and code for implementation wherever required. The main objective of the entire event was to give the candidates an experience of real-life placement procedures. The event was conducted successfully, and the results are awaited.

Shaurya Activities

Run for Unity

Shaurya- The Sports Committee of NIT Raipur organized a **Run for Unity** on 31st Oct. 2023 on **National Unity Day 2023** commemorating the birth anniversary of Sardar Vallabhbhai Patel. During the event, students solemnly took an oath to uphold the values of national integrity, reiterating their dedication to the unity of India. The event was organized

under the guidance of **Dr. H. K. Narang**, *Faculty In-charge, Shaurya.*

The Run for Unity at NIT Raipur symbolizes the Institute's dedication to nurturing not only academic excellence but also the values of unity, integrity, and transparency in our society.

Inter-Branch Cricket League 2023

Shaurya-The Sports Committee, **NIT Raipur** organized the **Inter-Branch Cricket League (IBCL)-2023**. The event kicked off on 25th Nov. 2023, highlighting the Institute's commitment to fostering a sense of camaraderie and healthy competition among its various branches. The event was organized under the guidance of **Dr. H. K. Narang**, *Faculty In-charge*, *Shaurya*. As the league progressed, students from different branches had the opportunity to highlight their cricketing prowess and build connections beyond their academic domains. The Inter-Branch Cricket League (IBCL)-2023 not only aimed to crown a champion but also served as a platform for fostering a sense of community and sportsmanship among the Institute.

Aavartan 23-24 by Technocracy

Technocracy- The Technical Committee of NIT Raipur organized its annual tech-festival **Aavartan 23-24** on 28th and 29th Oct. 2023. The Central India's largest technical fest-**Aavartan** was organized successfully under the adept guidance of **Dr. Manu Vardhan**, *Faculty In-charge, Technocracy* and **Dr. Anuj Shukla**, *Faculty In-charge, Aavartan.* The Chief Guest for the inauguration ceremony was **Shri. S. S. Bajaj**, *Director General, Chattisgarh Regional Science Centre, Government of Chattisgarh and Alumnus (1984/CE).* **Dr. Samir Bajpai**, *Head, CDC* and **Dr. Nitin Jain**, *Dean (Student's Welfare), NIT Raipur* were the Special Guests in the ceremony. **Dr. Manu Vardhan**, **Dr. Anuj Shukla**, **Dr. Govardhan Bhatt**, *Assistant Professor, CE,* and

Dr. Ishtiyaq Ahmad, *Assistant Professor, CE* graced the ceremony with their presence. The event aimed to improve the technical acumen of young and creative minds. The inaugural ceremony began with the national song. Saplings were presented as a token of welcome to the Chief Guest and the Special Guests and the Faculty In-charges, respectively. **Shri. S. S. Bajaj** was welcomed by **Dr. Samir Bajpai**, **Dr. S. Bajpai** by **Dr. Madhu Vardhan**, and **Dr. Nitin Jain** by **Dr. A. Shukla,** with the saplings. Further, **Dr. Manu Vardhan** delivered the welcome speech and welcomed everyone. He enlightened about various events in Aavartan and its importance in modern era education. **Dr. Samir Bajpai** took the opportunity to greet the Chief Guest and other Special Guests present. **Shri. S. S. Bajaj** expressed his gratitude towards the Institute for providing him with an opportunity to interact with the young minds. The inaugural ceremony concluded with **Dr. Samir Bajpai** felicitating **Shri. S. S. Bajaj** with a memento followed by the National Anthem.

Day one of Aavartan included a science exhibition, known as **Vigyaan**, where teams of students proposed their solutions to the problem statements provided by the Institute. **Shri. S. S. Bajaj** inaugurated the event by leading the ribbon cutting ceremony. Working models and prototypes on topics like **Green Sand Plant, Home Automation**, **Water Leakage Identifier**, **Reducing Carbon Footprint Models**, **Data Analysis and Visualization**, **Memory App for Alzheimer Patients**, **Better Architectural Brick Structure Design for Buildings**, **Jantar Mantar Replacement Ram Yantra**, **Infant Incubator**, **Hybrid EV, and CV Engine Vehicles**,**Aerolifters**, etc., were presented by students from institutions all across India. More than 200 abstracts were received, and 171 prototypes were displayed. The event concluded fruitfully with the exhibition drawing the attention of more than 3000 students and serving as a platform for students to hone their technical skills across various domains, such as coding, robotics, and engineering. A speaker session entitled **Blockchain** was organized with **Ms. Riya Yadav**, *Youtuber, Community Lead at Rise-In* as the Guest Speaker to raise consciousness concerning Blockchain, Crypto currency and their importance. Other events and competitions like **Ecopolis**, **Terrain Treader**, **Circuitrix**, **Survival**, **Codemime Quest**, **Mechanical Junkyard**, **Autocad Challenge**, **Hydrolift**, **Speed Cubing**, **Planetarium**, **Technomic Quotient**, etc., were organized. First Day of the two-day fest was concluded by a series of cultural

performances by **Team Nrityam-The Dance Club of NIT Raipur** and **Team Raaga- The Music Club of NIT Raipur**. Day-two consisted of activities such as **Mock Cid**, **Logo Designing**, **Robo Soccer**, **October Sky**, **Jenga**, **Valo Tournament**, **Aerofilia**, **Human Tic-tac-toe**, **Reaction Racing** and **Planetarium**. Subsequently, the closing ceremony was conducted to conclude the fest. The ceremony started with a National Song. The Chief Guest of the event was **Dr. Prabhat Diwan**, *Dean (Research and Consultancy)* who was welcomed with a sapling. **Dr. Samir Bajpai** was the Special Guest. **Dr. Prabhat Diwan** congratulated **Team Technocracy** for the successful coordination of the event and the participants to bring the prototype into demonstration. **Dr. Sameer Bajpai** promoted the start-up culture by thanking **Team Technocracy** for providing a platform to engineers for the implementation of solutions to daily life problems. **Dr. Manu Vardhan** emphasized the significance of getting exposure to such skill development events. **Dr. Anuj Shukla** concluded the event encouraging manufacturing of products from scratch to reduce dependency on imports. **Team Nurture Tech**, *BME*, stood first for exhibiting a model on **Solar Power Infant Incubator** while **Team Three Musketeers**, *MME* were the first runner up for exhibiting a model on **Automated System for Finding Surface Defects using AI/ML** for the **Vigyaan** event. A vote of thanks was delivered by Team Technocracy. The ceremony concluded with the National Anthem.

Awaaz by Think India

Think India, **NIT Raipur** organized **Awaaz**, an open mic session on 26th Nov. 2023 remembering the 26/11 Mumbai Attacks. **Shri R. K. Sahu**, *Former Indian Navy Officer*, was the Chief Guest of the event. A documentary featuring details of the 26/11 attacks and the brave fightback of our valiant soldiers was screened, and numerous poems, songs and speeches were delivered. The evening ended with the singing of the National Anthem, reinforcing the collective sense of patriotism among the attendees.

Turing Club of Programmers Activities

Programming Camp on Graph Theory

Turing Club of Programmers (TCP) organized a programming camp on **Graph Theory** from 3rd to 6th Oct. 2023. The mentor of the camp, **Mr. Manas Kumar Verma**, *Codeforces Master*, was welcomed on the first day by the Head Coordinators of TCP with a bouquet. The learning camp was conducted on the first three days while there was a contest on the last day to put the learnings from the camp to test. At the end of each day of the camp, the attendees were given a problem and those who solved it till the next day were given a chocolate each as a prize on the following day. The camp saw enthusiastic participation from the students and the responses were overwhelming. **Mr. Verma** interacted closely with the students and mentored them carefully. On the second day, a peer programming lab session was conducted. Twelve expert mentors were there to help the students during the session. The contest on the last day was for ninety minutes and the students were given 4 questions to solve. There were winners in 6 categories. **Aarif Khan**, *5th sem.*, *CSE* emerged as the overall winner, **Uday Sharma**, *5th sem.*, *EE* as the runner up, **Pranav** as the second runner up. In the Non-CS category, **Siva Krishna**, *5th sem.*, *ECE* emerged as the winner. **Prabhat Sharma**, *3rd sem.*, *ECE* was the Junior winner while **Ananya Srivastava**, *3rd sem.,* CSE was the winner in the female category. The camp concluded successfully after the winners were awarded with medals.

Speaker Session by TCP

Turing Club of Programmers (TCP), **NIT Raipur** organized a speaker session on 8th Oct. 2023 for **CodeUtsava 7.0**, the annual coding fiesta of the institute, under the guidance of **Dr. Pawan Mishra**, *Faculty In-Charge*, *TCP*. **Dr. Samir Bajpai**, *Head*, *CDC* was present at the event. The event was graced by the Distinguished Speaker **Mr. Tushar Tayal**, *an alumnus of NIT Raipur* and *presently the Director of Engineering at Swiggy*, who shed light on the **Binary Realms of Corporate Excellence** as well as enlightened the students with his corporate journey, be it working for blooming start-ups or the bigshots like Microsoft, Samsung, Ola, and Amadeus. **Mr. Tayal** further elaborated on the ebb and flow in his journey during and after his academic life. He told the attendees about the importance of cultivating leadership qualities and sportsman spirit to survive in the world of business along with the importance of freelancing in getting upskilled and independent. The talk concluded after a Q&A session followed by certificate distribution to the attendees.

Organized CodeUtsava 7.0

Turing Club of Programmers (TCP), **NIT Raipur** organized its annual flagship event **CodeUtsava 7.0**, a 28-Hour Hackathon on 1st and 2nd Nov. 2023. With a prize pool

of 33 lakhs, this event became a must-attend for those eager to flaunt their coding prowess and creativity. The coding festival was organized under the expert guidance of **Dr. Pawan Mishra**, *Professor In-charge*, *TCP*. **TCP, NIT Raipur** inaugurated its annual flagship event **CodeUtsava 7.0** on 1st Nov. 2023. The fest involved students from across different colleges in the country participating to display their programming capabilities and coding prowess through a 28 Hour Hackathon, the centrepiece of the fest, in addition to a plethora of programs including Workshops, Coding competitions and gaming battles to empower them to tackle real world problems in public interest. The problem statements for **CodeUtsava 7.0** enable the participants to delve in a wide range of coding challenges which requires the knowledge of interdisciplinary principles and the ability to integrate multifarious concepts ranging from AI, Machine Learning, Data Visualization to Blockchain and IoT framework. The event started off by the felicitation ceremony and sapling presentation to **Dr. Suresh Haware**, *Special Guest and Chairman of the Board of Governors*, *NIT Raipur*, **Dr. N.V. Ramana Rao**, *Chief Guest,* and *Director*, *NIT Raipur* and **Dr. Samir Bajpai, Head**, *Career Development Centre (CDC)*. **Dr. Haware** discussed ocean strategy and emphasized the importance of accepting big challenges in life to hone and grind the unlimited potential encompassed by every human being. Pre-events lined up for CodeUtsava 7.0 included **TriCoder Tournament**, **Coding Contest** followed by fun activities like **Virtual Escape Room**, **eSports Contest of**

Valorant and BGMI. The first day of CodeUtsava 7.0 witnessed an electrifying kickoff, setting the stage for an unforgettable coding journey. The hackathon then continued through day one onto the second day. Scores of students worked tirelessly to come up with a solution for their problem statements and execute it through relevant frameworks and technologies. The annual coding carnival concluded on 2nd Nov. 2023 after the completion of the Hackathon. **Dr. Shrish Verma**, *Dean (Academics)* delivered an inspiring address, emphasizing that **CodeUtsava 7.0** represents a small stride toward cultivating a problem-solving perspective. **Control Shift Hack** from *NIT Raipur* emerged as the triumphant team in the hackathon. The 2nd place was secured by **MinGW x 86** from *Thadomal Shahani Engineering College*, with **Synergy** from *GEC Raipur* claiming the 3rd position. An **Open Innovation Challenge** was championed by **Kirmanda** from *NIT Raipur*, showcasing exceptional problem-solving skills. Certificates were awarded to the winners. **CodeUtsava 7.0** showcased remarkable projects and reinforced the spirit of collaboration in the coding community.

Contribution to the Institution

Donations

- **NIT Raipur** expresses sincere gratitude towards **Shri Amitava Sur** *(Mech/1970)* who has made a generous donation to the Institute.
- **NIT Raipur** expresses sincere gratitude towards **Mrs. Nishtha Vijra** *(Mech/1991)* and **Mr. Akhilesh Vijra** *(Chem/1985)* for their generous donation to the Institute through the establishment of the **Dr. M. L. Kathuriya & Smt. Pramila Devi Kathuriya Memorial Scholarship** for 2nd year female ME students.

Appeal

Ever since its establishment in 1956, the institute has been serving and maintaining steady progress to achieve a unique feat in the highly competitive area of engineering and technology. To focus on cutting-edge multidisciplinary and frontier areas of engineering and technology as well as innovation-based research, a strong and continuous financial support from alumni, faculty members, students and all well-wishers is the need of the hour. All the stakeholders of the Institute have a major role in building a corpus fund to support various teaching and research infrastructures, and other allied facilities for the welfare of students. NIT Raipur appeals to all alumni, faculty members, students, and well-wishers for their contribution to the NIT Raipur Donation Fund. **The financial donation is exempted under section 80G (5) (vi) of the Income Tax, 1961 Vide IT Order Number ITBA/EXM/S/80G/2019-20/1015830613(1) dated 29/04/2019.**

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