

THE QUARTERLY NEWSLETTER OF NIT RAIPUR



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Mirror

Reflecting the True Spirit of NIT Raipur



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QUARTERLY GLIMPSES

INDEPENDENCE DAY



INDUCTION PROGRAM



RESEARCH SCHOLARS' CONCLAVE



NAYA BHARAT UTSAV



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NIT Raipur hosts seminar on 'Stress management through value education'

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स्टार्टअप के लिए एनआईटी-आईजीकेवी की एकजुटता

'एआई से 2030 तक पड़ेगा गहरा प्रभाव, कार्यबल बदलेगा, उपकरणों का होगा विस्तार'

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'Yuva Samvaad' organised as part of Naya Bharat Utsav at NIT Raipur

NIT, NITTTR sign MoU for institutional collaboration

NIT Raipur organises 3rd Research Scholars' Conclave 2024

फाइनल में एनआईटी स्ट्राइकर्स ने रायल्स को हराया, बनी चैंपियन

NIT Raipur, UNICEF CG hold National Stakeholder's Conference on 'Water, Energy & Climate: Vision For Chhattisgarh'

NIT welcomes new students with induction programme

Foundation stone laid for new academic building at NIT Raipur

NIT organises industry expert talk

Awareness seminar, quiz competition on BNS 2023 held at NIT Raipur

NIT Raipur organises programme on stress management

NIT Raipur signs MoU with CSIR-NGRI Hyderabad

NIT Raipur organises awareness workshop 'Energy Conservation'

NITRRFIE, MNNIT Allahabad sign MoU to promote incubation related activities

Institute News

NIRF 2024: 71st Rank

NIT Raipur has been consistently performing well in the National Institutional Ranking Framework (NIRF). The Institute holds the 71st rank in NIRF 2024 in the Engineering category. The **Teaching, Learning & Resources (TLR)** score increased from 55.59 in 2023 to 57.83 in 2024, while the **Research, Professional Practice & Collaborative Performance (RPC)** improved from 40.36 to 40.80. Additionally, the **Graduation Outcome (GO)** score rose from 64.35 to 65.98, and **Outreach and Inclusivity (OI)** increased from 55.81 to 56.96. These enhancements reflect the institute's ongoing focus on academic, professional growth and its continued efforts to enhance research output, foster professional growth, and strengthen collaborative initiatives.

78th Independence Day Celebration

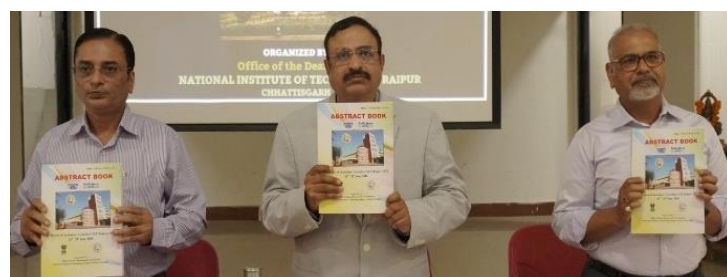


NIT Raipur celebrated 78th Independence Day on 15th Aug. 2024. The event commenced with **Dr. N. V. Ramana Rao**, Director, NIT Raipur, hoisting the national flag, symbolizing the enduring spirit of freedom and unity, followed by the national anthem and a parade led by cadets of NCC. Addressing the assembly, **Dr. Rao** highlighted the Institute's significant contributions through major events, including the successful organization of the 19th Chhattisgarh Young Scientist Congress and the launch of the new M.Tech. Program in Urban Planning and also emphasized the importance of institute's role in addressing critical national challenges, such as the Mahanadi River Basin study.

The event continued with a series of vibrant cultural performances. India's diverse cultural heritage was showcased through a series of poetry recitations, songs, and dances by **Sanskriti – The Cultural Committee**, musical performance delivered by **Raaga – The Music Club**. **Nrityam – The Dance Club** highlighted India's cultural versatility with traditional dances like Bihu, Kathak, and Garba. Additionally, the legacy of Independence Day was explored in a

documentary presentation by the **Public & Media Relations Cell (PMRC)**. The festivities concluded with a *Tiranga Yatra* across the campus and a meaningful plantation drive, titled **Ek Ped Maa ke Naam**, emphasizing the importance of environmental stewardship. **The Unnat Bharat Abhiyan (UBA) Club**, NIT Raipur organized a visit to the *Government School, Nardaha village, Raipur*, under the guidance of **Dr. Sudhakar Pandey**, Regional Coordinator, and **Dr. Harendra Bikrol**, PI Coordinator, UBA. Students from the UBA Club took an active part in various activities, including cultural performances, an awareness rally, and the donation of cricket bats along with an array of games to the Government School. This event was crafted to inspire a deeper sense of responsibility towards rural development and education.

3rd Research Scholars' Conclave 2024



Dean (R&C) office, NIT Raipur officially unveiled the 3rd Research Scholars' Conclave 2024 on 25th Jun. 2024. The 3-day Research Conclave, held from 25th to 27th Jun. 2024, was organized for Ph.D. scholars at NIT Raipur. The event featured **Dr. N. V. Ramana Rao**, Director, NIT Raipur, as the Chief Patron and Guest, with **Dr. Shrish Verma**, Dean (Academics), as Guest of Honor. **Dr. P. Diwan**, Dean (R&C), chaired the conclave. Organizing secretaries included **Dr. Anamika Yadav**, Hod, EE, **Dr. J. Anandkumar**, Associate Dean, (R&C), **Dr. Manvendra K. Tripathi**, Associate Dean, (R&C), **Dr. Awanish Kumar**, HoD, DBT and **Dr. Tirath Prasad Sahu**, Assistant Professor, IT. The conclave provided scholars a platform to present their research and foster innovation in various R&D sectors.

Dr. Anamika Yadav's highlighted the event's significance, and the collaborative efforts involved. **Dr. P. Diwan** emphasized the conclave's role in promoting academic and research excellence, announcing the submission of 246 high-quality abstracts. **Dr. Rao** outlined the conclave's objectives, and **Dr. Shrish Verma** stressed the importance of research. The ISBN Abstract Volume was then released by the dignitaries, and **Dr. J. Anandkumar** concluded the ceremony

with a vote of thanks. Following the inauguration, **Dr. Rao** delivered a keynote lecture on **Research Publication and Ethics**. He provided an insightful overview of the process for publishing in Scopus-indexed journals. Thereafter, **Dr. Dharam Pal**, *Associate Professor, DCE* delivered a keynote session on **Responsible Conduct of Research and Academic Writing Skill**. He addressed research ethics, focusing on data fabrication and writing skills. The event also honoured scholars from 18 departments and their coordinators with certificates, followed by shared experiences.

Dr. P. Diwan announced plans to publish a book, while acknowledging the coordinators' essential support. **Dr. Rao** urged scholars to prioritize obtaining patents, publishing research papers, and cultivating disciplined reading and writing habits. **Dr. Samir Bajpai**, *Head (CDC), NIT Raipur*, highlighted the importance of controlled use of generative AI and interdepartmental collaboration in research. A feedback session was organized, and the event concluded with a vote of thanks by **Dr. T. P. Sahu**, *Organizing Secretary, Research Scholar Conclave*.

Induction program for newly admitted students



NIT Raipur organized an **Induction Program** on 28th Aug. 2024 to welcome and introduce the newly admitted B. Tech and B. Arch students to the institute's culture, academic structure, and various clubs and committees. The event was graced by **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Suresh Haware**, *Chairperson, BoG, NIT Raipur*, **Dr. P. Y. Dhekne**, *Registrar, NIT Raipur*, Deans, faculty members and first year students were present during the program. **Dr. Rao** delivered the inaugural address, giving an overview of the Institute's facilities and achievements and welcomed the new students and encouraged them to strive for excellence and make the best of their academic journey at NIT Raipur.

Dr. Haware praised the Institute's achievements and urged students not to become complacent. He stressed the importance of communication skills, building friendships, and making the most of their time. Subsequently, **Dr. Shrish Verma**, *Dean (Academics), NIT Raipur* explained the

academic structure and various programs offered, including UG and PG courses and provided details on the academic calendar, registration processes, grading systems, and performance indices. **Dr. Nitin Jain**, *Dean (SW)* elaborated the history of the Institute and its objectives, highlighting the role of various clubs and committees, including flagship events like Eclectika, Aavartan, Samar and Shruti. He shared visuals of these events and spoke about initiatives like Yuva Sangam Phase 2 that facilitates cultural exchange between **Nagaland** and **Raipur** students and also discussed the dispensary services, amenities, counselling services, anti-ragging measures, scholarship portals, and student financial assistance schemes available to students. In the subsequent session, **Dr. Pradeep Singh**, *HoD, CSE* provided information about the Boys Hostels, while **Dr. Shubhrata Gupta**, *Chief Warden, Girls Hostel* made everyone aware of the rules of the Girls Hostels. **Dr. Samir Bajpai**, *Head (CDC), NIT Raipur*, highlighted the importance of career development through character building and introduced the four cells under the **CDC - Placement Cell, Training Cell, Entrepreneurship Cell and Innovation Cell** and emphasized the need for early engagement, career planning, and the steps required for achieving early placements, also sharing the recent accomplishments of students of NIT Raipur.

A lecture on the topic **Life Lessons from Ramayana** was delivered by **Mr. Yashodeep Deodhar**, *Ex-McKinsey & Co and Alumnus (IITB and IIMA)* which provided values of life in the light of moral and spiritual education. **Mr. Deodhar** has a YouTube channel named *21 Notes*. He presented a beautiful depiction based on the life, struggle and achievements of **Lord Rama** and the values of life were explained through various characters of **Ramayana** and their stories. The entire session was concluded with the presentation of a shawl and memento to **Mr. Deodhar**.

National Space Day 2024



NIT Raipur marked **National Space Day** with a special event on 23rd Aug. 2024 which saw the presence of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Nitin Jain**, *Dean (SW)*, faculty members and students. The event was organized under the guidance of **Dr. N. V. Swamy Naidu**, *Faculty In-*

Charge, Aviation Club. The event was formally declared open by **Dr. Naidu**, setting the stage for a day of insightful discussions and celebrations. **Dr. Rao** emphasized the day's importance, highlighting the theme *Touching Lives, While Touching the Moon*, and noted how space technology profoundly impacts everyday life, from communication to environmental monitoring. The event continued with an online insightful speaker session featuring **Mr. Abhijit Kibe, Scientist, ISRO**, shared his insights from working on the Solid Propulsion and GSLV Project's Mechanical Integration Area and provided an in-depth look at India's **Gaganyaan Program** and discussed the significance of National Space Day, celebrating India's space achievements. **Team SpaceNovas** presented their *CanSat Mechanisms* project, which significantly sparked interest in space exploration among the students. The event concluded with a **Quiz competition** titled **Bharat in Space: Exploring India's Space Program**, featuring questions about India's space missions from past to present. **Rishabh Raj** secured 1st place, **Aryan** coming in 2nd, and **Ishan Daharia** secured 3rd. Additionally, a **Poster Exhibition** showcasing India's remarkable space achievements was displayed on campus, further inspiring and educating the participants about the nation's progress in space exploration.

A live webcast of National Space Day celebration from **Bharat Mandapam, New Delhi**, was held at the institute. The event featured an address by **Her Excellency President Droupadi Murmu** where praised ISRO's remarkable efforts and reflected on the historic moment of Chandrayaan's successful landing on the moon, underscoring the significance of India's advancements in space exploration. The live telecast was attended by **Dr. Rao, Dr. Jain, Dr. M. K. Prasad, Associate Professor, DoM, Dr. Naidu**, along with faculty members, staff, and students. During the webcast, awards for various national-level technical competitions were distributed, and videos showcasing ISRO's, and India's space achievements were presented.

Vibhajan Vibhishika Smriti Diwas'24



NIT Raipur observed the **Vibhajan Vibhishika Smriti Diwas'24** on 14th Aug. 2024 to reflect on the **Horrors of Partition**. The event was graced by **Dr. Purnendu Saxena,**

Chairman, VY Hospitals as *Chief Guest*, and **Dr. N.V. Ramana Rao, Director, NIT Raipur** as *Guest of Honor*. The event was attended by large number of students, scholars and faculty members of the institute. The dignitaries were welcomed by **Dr. S. L. Sinha, HoD, ME, Dr. Dilip Singh Sisodia, Associate Professor, CSE** and **Dr. Anuj Shukla, Assistant Professor, ME**. The function was organized under the guidance of **Dr. Suresh Kumar Rajana, Assistant Professor, ME** and **Dr. Meena Murmu, Assistant Professor, CE**. **Dr. Rao** highlighted the large-scale loss of life due to partition and appealed to the audience to strive for a strong and peaceful India. **Dr. Saxena** elaborated on the side effects of the partition and poignantly illustrated the pain through references to the movie *Vaqt*.

The event also featured a **Speech competition** and a **Poster presentation**, providing a platform for students to express their thoughts on the subject. **Sameer Srivastava** emerged as the **Winner** of the speech competition, with **Anushk Singh**, securing the **Runner-up position**.

Stakeholder Conference on Water, Energy & Climate



NIT Raipur in collaboration with UNICEF Chhattisgarh organized a **One-Day Stakeholder's Conference on Water, Energy & Climate: Vision for Chhattisgarh** on 4th Jul. 2024. The event was graced by **Mr. Prasanna R, Secretary, Higher Education, Govt. of C.G.** as the *Chief Guest* and **Mr. Mohammad Qaiser Abdul Haq, Secretary, PHED, Govt. of C.G** and **Mr. William Hanlon Jr, Chief, UNICEF Odisha & Chhattisgarh** as the *Guests of Honor*. *Special Guests* were **Dr. M.K. Verma, Vice Chancellor, CSVTU Bhilai & Prof. Piyush Kant Pandey, Chief Vice Chancellor, Amity University, C.G.** and **Dr. N.V. Ramana Rao, Director, NIT Raipur**. The *Organizing secretaries* for the event were **Dr. Ishtiyahq Ahmad, Assistant Professor, CE** and **Dr. Govardhan Bhatt, Assistant Professor, CE** from NIT Raipur, along with **Ms. Sweta Patnaik** and **Mr. Abhishek Singh** from UNICEF Chhattisgarh.

Dr. Rao emphasized sustainable water management, equitable access, and renewable energy, urging collaboration for a

sustainable vision. **Dr. Verma** highlighted the need for sustainable technology in water resources and renewable energy. **Dr. Pandey** discussed Chhattisgarh's role in CO₂ absorption and advocated for carbon capture policies. **Dr. Qaiser** noted the shift from hand pumps to over 40,000 tube wells and borewells to ensure water quality, expressing hope that the workshop would provide solutions for the state government and community. **Dr. William** emphasized the need for water quality and climate-focused planning. **Dr. Prasanna** discussed climate change's daily impact, stressing the importance of a vision plan for sustainable development. In the first panel, **Ms. Asha Lata Gupta**, *Assistant Engineer, PHED* highlighted Chhattisgarh's generally good water quality, with exceptions in areas like Bastar. **Er. Jayant Kumar Bisen**, *Assistant Engineer, Department of Water Resources, Chhattisgarh* emphasized clean water and sanitation as top priorities, discussing plans for a water vision document for Amrit Kaal. In the second Energy session, **Prof. Shantanu Bhadra**, *Assistant Professor, Strategic Management, IIM Raipur* stressed the careful use of limited energy resources like coal and oil, noting Chhattisgarh's lower energy production compared to neighbouring states. **Er. Kapil Chandoik**, *Vice President, Hira Group*, highlighted the challenges of power generation in Chhattisgarh and urged a shift in attitudes toward energy conservation. In the last session, **Dr. Bhumika Das**, *Associate Professor, LCIT Bilaspur* highlighted ongoing climate change in Chhattisgarh, attributing a significant role to deforestation. **Mr. Biraja Satapathy**, *WASH Officer, UNICEF* noted India's rank as the third most polluted country globally, causing rising respiratory problems. The aim of the event was to strategize and promote sustainable development in water, energy, and climate sectors in Chhattisgarh.

Naya Bharat Utsav



NIT Raipur hosted the event **Yuva Samvad** as part of the **Naya Bharat Utsav**, a nationwide celebration marking 10 years of the Modi government on 22nd Aug. 2024, which was graced by several personalities, including **Chief Guest Shri. Brijmohan Agrawal**, *Member of Parliament, Raipur Constituency* and **Special Guests** including **Dr. Sachidanand Shukla**, *Vice Chancellor, Pt. Ravishankar Shukla University, Raipur*, **Dr. Rajiv Prakash**, *Director, IIT Bhilai*, **Dr.**

Shailendra Shukla, *Retired Chairman, Chhattisgarh State Electricity Board (CSEB)*, **Mr. Deepak Mahskey**, *Independent Director, Ministry of Petroleum, Government of India (GoI)* and was hosted by **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Anuj Shukla**, *Assistant Professor, ME*, **Mr. Daansingh Dewangan**, **Ms. Pallavi Pandey** and **Mr. Sanjay Joshi**, *Members, Organising Committee*. **Dr. Rao** highlighted the institute's role as a hub for technological innovation and exploration, quoting **Prime Minister Narendra Modi** on the vision of a new and better India, growing stronger through robust educational institutions and emphasised India's significant strides in development from villages to cities. **Dr. Rajiv** spoke about the institute's commitment to **Viksit Bharat@2047** stressing the importance of student efforts in boosting the economy and noted IIT Bhilai's investments in **Fintech**, **Agritech** and **Medtech** sectors and the promotion of a startup culture within the college as contribution to the society. **Mr. Mahskey** reflected on India's exponential growth over the past decade, particularly its resilience during the COVID-19 pandemic and encouraged students to continue contributing to the nation's progress. **Dr. Shailendra** discussed the remarkable advancements in the energy sector, with electricity generation quadrupling over the last decade and praised the **One Nation, One Grid** policy for reducing power cuts and accelerating infrastructure growth.

Dr. Shukla shared his observations on India's economic and infrastructural development, particularly post-demonetization and lauded the government's efforts to revive ancient culture to bolster national growth. In the Q&A session, **Shri. Agrawal** engaged with students from the institute where he attributed Prime Minister's influential foreign policies, emphasising the mutual respect and collaboration between India and other nations. The event also featured the inauguration of a photo exhibition, and various stalls set up by government and private institutions. Winners of competitions organized by the government to generate ideas for state development were honoured with awards and certificate. The day concluded with performances by **Raaga – the Music Club** and **Nrityam – the Dance Club** followed by a vote of thanks delivered by **Dr. Shukla**.

Awareness Seminar and Quiz Competition on Bharatiya Nyaya Sanhita

NIT Raipur organised an **Awareness seminar and Quiz Competition on Three Criminal Laws (BNS 2023)** on 1st Jul. 2024. The event was graced by **Dr. R.K. Tripathi**, *Director(I/C), NIT Raipur*. In this event **Dr. Samir Bajpai**,

Head (CDC), NIT Raipur, **Dr. Shrish Verma**, Dean (Academics), NIT Raipur and **Dr. Nitin Jain**, Dean (SW), NIT Raipur were present. This event was coordinated by **Dr. Y. Vijaya Babu**, Assistant Professor, DHSS and Nodal Officer, BNS, NIT Raipur.



Dr. Parvesh Kumar Rajput, Assistant Professor of Law, HNLU Raipur served as the *Chief Speaker*. The program was attended by faculty Members, staff members, PhD scholars, and students. The Seminar was organized to spread awareness of the 3 new criminal laws, **The Bhartiya Nyaya Sahita (BNS-2023)**, **Bhartiya Nagrik Suraksha Sanhita (BNSS-2023)** and **Bharatiya Sakshya Adhiniyam (BSA-2023)**, which would be enacted from 1st Jul. 2024. **Dr. R.K. Tripathi** stressed the need to update British-era laws to ensure proper punishment under the new legal framework. **Dr. Parvesh Kumar Rajput** highlighted the role of laws in shaping society, tracing the history of India's Law Commission and key legislations like the IPC and CrPC. He explained the replacement of the IPC with the **Bharatiya Nyaya Sanhita (BNS) 2023**, including new provisions like eFIRs, and emphasized enhanced rights for witnesses and women. **Dr. Rajput** also discussed the **BNSS and BSS Acts**. A quiz on the new **BNS** laws included topics such as Zero FIR and bailable offences. After the competition, certificates were awarded to all participants. **Dr. Babu** emphasized the importance of understanding the new laws and highlighted their benefits for both individuals and society.

Seminar on Mental Health Awareness



NIT Raipur organized a **3-day Seminar on Mental Health Awareness** from 20th to 23rd Jul. 2024. The program was organized for mental and emotional health support for the employees, warden, staff members, security guards and workers of the institute. On the final day of the program, the concluding awareness session was held, in the presence of the *Chief Guest* **Dr. N.V. Ramana Rao**, Director, NIT Raipur. The session was also attended by, **Dr. Samir Bajpai**, Head (CDC), **Dr. S. Sanyal**, Professor, ME, along with employees,

staff members, students, and senior citizens from senior citizen welfare forum of Raipur city.

Dr. Rao emphasized the importance of mental well-being, noting its role in fostering happiness and strong relationships. **Dr. Sanyal** praised **Dr. Heena Chawda**, Faculty, DHSS for successfully organizing the session. **Dr. Chawda** highlighted the importance of understanding emotions for mental well-being. **Dr. Bajpai** stressed the need to take time for self-improvement to enhance life quality. The programme ended with a feedback session where participants expressed their views on how they would like to attend more such sessions and concluded with a vote of thanks by **Dr. Bajpai**.

Swachhata Pakhwada



NIT Raipur organized the **Swachhata Pakhwada** campaign with an objective to create awareness among students about cleanliness and its benefits. Under this program, a cleanliness oath was administered by **Dr. Samir Bajpai**, Head (CDC), with faculty, employees, and students. **Dr. P. Y. Dhekne**, Registrar, **Dr. D. Sanyal**, Dean (FW), **Dr. M. K. Prasad**, Associate Dean (SW), **Dr. T. P. Sahu**, Nodal Officer, **Swachhata Pakhwada**, and other faculty members, employees, and students actively participated. Following the oath, a slogan competition and an essay competition were organized. **Dr. Sadhana Agarwal**, Professor, DoP, **Dr. Prasad**, **Dr. Sahu**, and **Dr. Y. Vijay Babu**, Assistant Professor, DHSS, along with employees, PhD scholars, and students were present and participated. **Dr. Babu** informed participants about the competitions, allotting 30 minutes for the essay on **India – then, now, and how it should be in terms of cleanliness** and 5 minutes for the slogan competition on **Clean campus to study with serenity**. **Dr. Prasad** encouraged the participants, and **Dr. Sahu** motivated attendees for upcoming events. In the **Essay Competition** (English medium), **Vicky Prasad**, PhD Scholar, DHSS, secured **first** place, followed by **Rubina Roy**, DME, 3rd Sem, and **Tanumala Thaurani** with **Abhijeet A Kumar** from the *Establishment Section*. In Hindi, **Himanshu Rajput**, ME, 3rd Sem, took **first** place, followed by **Priya Kashyap**, PhD Scholar, DHSS, and **Birendra Kumar**, IT, 1st Sem. In the slogan competition, **Dr. Sadhna Agarwal** secured **first** place, while **Adarsh Kumar**, DME, 5th Sem, and **Kriti Soni**, EE, 5th Sem, took **second** place. **Himanshu Rajput**, ME, 3rd Sem, and **Avish Kumar Srivastava** placed **third**.

Following the competitions, a **Shramdaan** program was organized to clean the institute's football ground. faculty, staff, and students, including **Dr. Sanjay Kumar**, *HoD, IT*, actively participated.

E-waste collection boxes were also placed across the campus to encourage responsible e-waste disposal. As part of the **Swachhata Hi Seva and Swachhata and Minimizing Pendency** campaigns, future activities such as tree plantation drives, and street plays are planned.

Awareness Session on Cervical Cancer



Dean (FW) Office, Department of Information Technology (IT) and Department of Chemistry (DoC) in collaboration with **ICICI Bank** organized an awareness session on **Cervical Cancer** on 28th Aug. 2024. The *Chief Guest* of this program was **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* and other attendees include **Dr. A. B. Soni**, *Professor, DCE*, **Dr. S. Sanyal**, *Professor, ME* and **Dr. Sanjay Kumar**, *HoD, IT*. The *Coordinators* of this program were **Dr. Mridu Sahu**, *Assistant Professor, IT* and **Dr. Tungabidya Maharana**, *HoD, DoC*. **Mr. Sushant Sahu**, *Regional Head* and **Mr. Deepesh Dev**, *Regional Head Sales* and **Mr. Raj Kshirsagar**, *Relationship Manager* from ICICI Bank were also present.

The keynote speaker of the program was **Ms. Sudeshna Ruhhaan**, *Director, Niramaya Foundation* and an *Alumnus*. **Dr. Rao** said that with such programs, women become aware of their health, and they get to know about the disease on time, so that they can get it treated quickly. **Ms. Ruhhaan** named some of the major causes of cervical cancer as **HPV (human papilloma virus)**, **Bed Hygiene**, **Unsafe Sex** and **Weak Immunity** and talked about some of its major symptoms like **Heavier Periods**, **Urine Infection**, **Vaginal Bleeding** etc. and said that in case of urine infection, drink a lot of water with *mishri*, eating *ghee* rice gives relief.

Giving more information about this, she said that one can avoid this disease by adopting some easy methods including good **Genital Hygiene**, **HPV vaccination**, **Balanced Diet**, **Yoga and Meditation**, **Good Sleep** etc. She gave the mantra of **Go for hygiene, accept vaccine** and advised the women present to do butterfly asana and eat raisins during periods. In the end, **Dr. Maharana** gave a vote of thanks.

IIT Bhilai, NIT Raipur and CSVTU Bhilai organised Implementation of Multiple Entry & Multiple Exit System and Academic Bank of Credit



IIT Bhilai, NIT Raipur and CSVTU Bhilai organised **Implementation of Multiple Entry & Multiple Exit System and Academic Bank of Credit (ABC)** under the aegis of **AICTE** and **Shiksha Sanskriti Utthan Nyas, New Delhi** on 13th and 14th Sept. 2024. This event was conducted under the guidance of **Prof. Sanjay Agrawal**, *Pro - VC, CSVTU Bhilai*, **Dr. Dhruv Pratap Singh**, *Dean (Academic Affairs), IIT Bhilai*, **Dr. Anuj Kumar Shukla**, *Assistant Professor, ME, NIT Raipur*, **Mr. Ravi Prakash Tiwari** and **Dr. Ranjit Prasad**, *Professor (Retired), NIT Jamshedpur*.

The inaugural ceremony commenced on 13th Sept. 2024 where **Prof. Rajiv Prakash**, *Director, IIT Bhilai* emphasized the need to integrate local languages, traditions, and culture into academic curricula and highlighted the role of inclusive education in promoting wider participation. **Prof. N.V. Ramana Rao**, *Director, NIT Raipur* shared his institution's experiences with implementing MEME and emphasized the successes and challenges faced in supporting working professionals in their continued education. **Dr. Atul Kothari**, *National Secretary, Shiksha Sanskriti Utthan Nyas, New Delhi* emphasised on breaking the barriers and creating multidisciplinary education, vocationalization and skill development. **Mr. Prafull Pradeep Ketkar**, *Organizer* highlighted the need to integrate interdisciplinary institutions for the effective implementation of NEP. During the panel discussion, several challenges in implementing MEME and ABC were identified, and suggestions were provided for establishing a robust **Management Information System (MIS)**, standardizing degree names, and encouraging modular course structures.

The concluding panel discussion, moderated by **Prof. Rajiv** included esteemed panelists such as **Prof. Dr. Laxmidhar Behera**, *Director, IIT Mandi* and **Prof. G.S. Murthy**, *Professor, IIT Indore*. The discussion revolved around designing course structures aligned with IKS, initiating teacher training, and incorporating hands-on practical

sessions. The event concluded with a vote of thanks from **Prof. Dhruv Pratap Singh**, *Dean (Academic Affairs), IIT Bhilai*.

NIT Raipur and Semicon India 2024



NIT Raipur hosted a webcast for **Semicon India'24** on 11th Sep. 2024. The video conferencing event, initiated by the **Honorable Prime Minister Narendra Modi**, aimed at engaging students and faculty nationwide. The event at NIT Raipur was attended by **Prof. N. V. Ramana Rao**, *Director, NIT Raipur*, **Prof. Nitin Jain**, *Dean (SW)*, **Dr. Toshan Meenpal**, *HoD, ECE*, **Dr. M. Krishna Prasad**, *Associate Dean (SW)* along with other faculty and students. **Prime Minister Narendra Modi** discussed the imminent revolution in India's semiconductor sector and the country's goal to become a global semiconductor hub, outlining government steps to boost domestic chip production.

Expert Talk on Peace, Life and Career Development



NIT Raipur hosted an expert talk on **Career and Character Development** on 14th Aug. 2024. The *Chief Speaker* for this event was **Swami Nikhileswarananda**, *Head, Shri Ramakrishna Ashram, Rajkot & an Alumnus*. The event was attended by *Chief Guest* **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, *Guest of Honor* **Dr. Samr Bajpai**, *Head (CDC)*, **Dr. Nitin Jain**, *Dean (SW)*, other faculty members, students, and parents. The program was conducted by **Dr. Moksha Singh**, *Assistant Professor, DHSS*. **Dr. Rao** emphasized the importance of value education in our lives, particularly highlighting the concept of peaceful coexistence in a diverse country like India and praised the Indian government's New Education Policy 2020 for prominently including human ethics and value education in the curriculum. **Swami Nikhileswarananda** urged everyone to draw

inspiration from the life ideals of **Swami Vivekananda**, discussing Vivekananda's famous speech in Colombo in 1893, he encouraged everyone to embrace the mantra **Uttishthata, Jagrata, Prapya Varannibodhata** (Arise, awake, and stop not till the goal is reached) and emphasized the necessity of character building for nation-building, citing examples of great personalities like Mahatma Gandhi, Subhash Chandra Bose, and Pandit Nehru, who were inspired by Swami Vivekananda. **Swami Nikhileswarananda** also shared his vision for making India a developed country by 2047 and urged parents and teachers to play a crucial role in the character development of their children and students.

One Day Master Trainer Program

NIT Raipur organised **Master Trainer program** on **My Bharat Portal** on 23rd Aug. 2024. The event exuded a spirit of unity and collaboration among the attendees from the **Higher Education Department, Chhattisgarh Govt** and was organized and sponsored by **Ministry of Youth Affairs and Sports, Government of India (GoI)**. **Dr. Manu Vardhan**, *Nodal Officer, MyBharat, NIT Raipur* welcomed the distinguished guests and participants. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* as *Chief Guest*, **Shri. Rajkumar Verma**, *Yuva Officer, Regional Directorate, NSS Bhopal, MoYAA, GoI* as *Guest of Honor* and **Smt. Neeta Bajpai**, *State NSS Officer, C.G. Govt.*, Master trainer **Dr. Anoop Tiwari**, *Associate Professor, DHSS* and **Dr. Himanshu Govil**, *Assistant Professor, DAG* and participants were present. **Shri. Verma** emphasized on My Bharat Portal and focused on the role of NSS program officers in making the mission possible. **Smt. Neeta** emphasized on adding Knowledge Institution on My Bharat Portal. **Dr. Tiwari** delivered the talk on My Bharat Portal features and helped the participants in understanding the portal in a much better way. **Dr. Govil's** presentation and hands-on session on My Bharat portal on adding Knowledge Institutions using dummy email, helps the participants in understanding the portal. The day featured three technical sessions on My Bharat portal, with a total of 55 participants from the **Department of Higher Education, C. G. Govt.**, from all over Chhattisgarh. The sessions were chaired by **Shri. Verma**, providing a platform for in-depth discussions and knowledge exchange.

Plantation Drive - Ek Ped Maa Ke Naam

NIT Raipur marked a day of environmental importance on 9th Sep. 2024 by organising Plantation drive themed **Ek Ped Maa Ke Naam** under the **Unnat Bharat Abhiyan (UBA)** initiative. **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Nitin Jain**,

Dean (SW), and other distinguished faculty members graced the occasion.



The plantation drive was conducted under the guidance of **Dr. Sudhakar Pandey**, *Regional Coordinator, UBA* to promote environmental sustainability. **Dr. Rao**, planted a mango tree alongside students and faculty, highlighting the importance of conserving green spaces. The initiative reaffirmed NIT Raipur's commitment to societal responsibility and environmental preservation.

Industry Institute Collaborations by IICC, NIT Raipur

Expert Talk on Emerging Trends in the Cyber Security Industry



Department of Computer Science & Engineering (CSE), NIT Raipur, organized an Industry Expert Talk on the topic **Emerging Trends in the Industry** on 23rd Aug. 2024 under the Industry Institute Collaboration Cell (IICC), NIT Raipur. The session was graced by **Dr. Suyash Kandeale**, *Alumnus (2015/CSE) & Cyber Security Specialist, Bosch Global Software Technology (BGSW)*. **Dr. Kandeale** shared insights into the growing importance of cybersecurity, emphasizing the role of higher education in career advancement and encouraging students to focus on research. The event saw participation from 103 students and several faculty members. **Dr. Pradeep Singh**, *HoD, CSE* guided the Q&A session, and the event concluded with **Dr. Kandeale's** felicitation.

Lecture titled use of Robotics and other Technologies in Treatment of Cancer and other Illnesses

Nukkad Natak



NIT Raipur's students undertook a commendable initiative by performing a **Railway Accidents** at Kota Market near Saraswati Nagar Railway Station, Raipur on 26th Jul. 2024. The skit-play aimed to raise awareness about the increasing train accidents and demonstrated the innovative social responsibility of NIT Raipur's students. The performance was led by **Shwet Raj** and featured **Amar Ram Madhu**, **Priyanshu Kumar**, **Kanhaiya Kumar**, **Murlimanohar Verma**, **Swarnava Dey**, **Rishabh Jain**, **Satyam Kumar**, **Anmol Jaiswal**, **Himanshu Rajpoot**, and **Hinesh Singh**, showcasing their dedication to addressing critical safety issues in a creative manner.

Department of Computer Applications (MCA) conducted an Expert Talk by **Dr. Yousuf Memon**, *Director and Cancer Surgeon, Sanjeevani, CBCC USA Cancer Hospital, Raipur* under IICC on the topic **Use of Robotics and Advance Technology in Cancer and other Illnesses** on 11th Sept. 2024. **Dr. Memon** discussed the role of robotic technologies in surgery and explained how these advanced techniques are enhancing precisions and improving treatment. **Dr. Avinash Tiwari**, *Palliative and Pain specialist, Sanjeevani* was also present in the event.



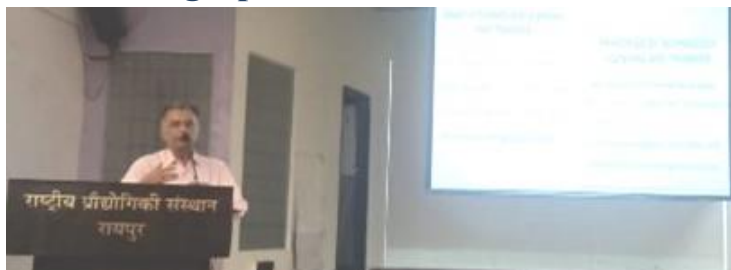
The event was aimed at providing students and faculty members with insights into the latest advancements in the fields of AI and robotics, as well as their real-world applications.

Workshop on Stress Management



NIT Raipur organized **Stress Management Workshop with Integrated Amrita Meditation (IAM) Technique** for the Faculty Members and Students on 31st Jul. 2024. The Workshop was conducted by Professors from the *School of Spiritual Studies, Amrita University* aiming at enhancing overall well-being. This program was organized in collaboration with the **Department of Humanities and Social Sciences (DHSS), NIT Raipur**. The event was graced by the presence of **Dr. Samir Bajpai, HoD, DHSS**, **Mrs. Jyoti Rao, Dr. Manju Shukla, Faculty, DHSS** and **Mr. Suraj Nishad, Yoga Faculty, DHSS** other faculty members and students were present. Integrated Amrita Meditation Technique is a simple and powerful meditation technique with a combination of Yoga, breathing exercises, Visualization, and Pranayama. **Brahmcharini Amritatmika Chaitanya** and **Brahmcharini Niseema, IAM instructors** and *Professors from School of Spiritual Studies*, led the workshop through a series of stretching exercises, breathing techniques and visualization that is designed to reduce stress and improve concentration. The professors remarked that the daily practice will help them manage stress better, stay focused during lectures, and connect with their students on a deeper level.

Lecture titled Bioprocessing based Bio-entrepreneurship: Untapped potential for R-Urban Geographies



Department of Biotechnology (DBT) organized a lecture by **Dr. Abhijit G Banerjee, Chief Mentor and Executive Director, Genomic Bio-Medicine Research & Incubation, Chhattisgarh, India** under **IICC** on the topic **Bioprocessing based Bio-entrepreneurship: Untapped potential for R-Urban Geographies - A special focus on Chhattisgarh-based opportunities**. The scope of Bio-entrepreneurship in Chhattisgarh was discussed in detail based on the critical points, including the feasibility of a product with a global

market, industriousness to overcome scientific and managerial challenges, the opportunity for agro-waste-based bio-refineries in the context of Chhattisgarh, products ranging from aeromedicine's to biopolymers, biofilms and biofuels, serving three closely linked biotech sectors (Agriculture, Healthcare and Industrial Biotechnology), potential for metabolic engineering in the development of novel and enhanced productivity of bio-products thereof and finally, future research and incubation in NIT Raipur.

Industrial Visit to M/S Jayaswal Neco Industries



Department of Metallurgical and Materials Engineering (MME), NIT Raipur, organized an **Industrial Visit to M/S Jayaswal Neco Industries Ltd.** in the **Siltara Industrial region, Raipur**, from 21st to 23rd Aug. 2024, as part of the **IICC**. The 3rd Semester students participated in this visit, which was aimed at enhancing practical learning and understanding of the steel industry. During the visit, students attended a one-hour session on the **Steel Industry in India** and the contribution of **M/S Jayaswal Neco Industries Ltd.** in producing high-quality grades of alloy steels for the automotive and railway sectors. Following the presentation, students toured the **Blast Furnace Division, Steel Melt Shop (SMS-1), and Refractory Division**. The visit allowed students to explore the operations of an integrated steel factory and witness cutting-edge equipment in action, offering them invaluable insights into real-world industrial processes.

Expert Lecture on Smart Microelectrode Patch for Accelerated Wound Healing



Department of Biomedical Engineering (BME), NIT Raipur organized an expert lecture on **Smart Microelectrode Patch for Accelerated Wound Healing** delivered by **Dr. Debasish Maji, Associate Professor, VIT University** on 12th Sept. 2024. **Dr. Maji** is also affiliated with

TIFAC Core (VIT Chapter) and INFAB Semiconductor Pvt. Ltd. The session focused on the advancements in wound care management, particularly the development of smart bandages using novel wound healing techniques. **Dr. Maji** emphasized the role of Electrical Stimulation (ES) in promoting faster wound closure which mimics the body's natural electric field at the wound site, enhancing the healing process.

Expert Lecture on Power BI and its Use Cases

Department of Information Technology (IT), NIT Raipur organized an **Industry Expert Lecture on Power BI and its Use Cases** on 21st Aug. 2024, under the **IICC**. **Ms. Nikhitha Bhandari**, *Software Engineer, Schlumberger India Technology Centre Private Limited, Pune*, was the guest speaker for the session, which was held online. The event was coordinated by **Dr. G. P. Gupta**, *Faculty(I/C), IICC Cell, IT*. During the lecture, **Ms. Bhandari** explained the **fundamental concepts of Power BI and its practical applications** across various industries

Expert Talk on Geotourism in the Uttarakhand Himalaya



NIT Raipur organized an expert lecture on the topic **Geotourism in the Uttarakhand Himalaya** on 8th Jul. 2024. The session was delivered by **Dr. Sandeep Singh**, *Professor, Department of Earth Science, IIT Roorkee*. The event was conducted by the **Department of Applied Geology (DAG)**. **Dr. Singh** focused on the scope and development of geotourism in the Uttarakhand Himalaya. The lecture was attended by students, research scholars, and faculty members from **DAG** and **CE**, contributing to an insightful discussion on the potential and challenges of geotourism in the region.

Expert Lecture on Your Future in Power Electronics

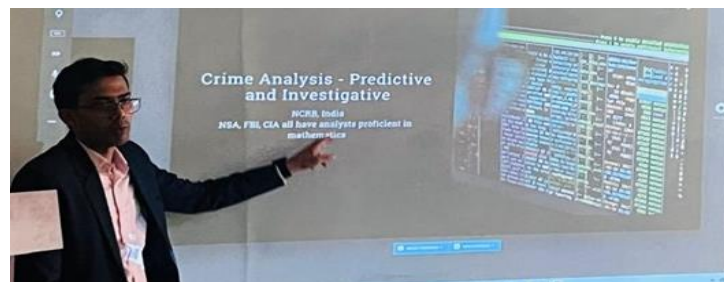
Department of Electrical Engineering, NIT Raipur, organized an **Industrial Lecture Session** on 8th Aug. 2024, on the topic **Your Future in Power Electronics: Shaping the World through EV, Aerospace, and Renewables**. **Dr.**

Sandeep Madishetti, *Lead Engineer, EATON, Singapore*, was the *Guest speaker* for the session.

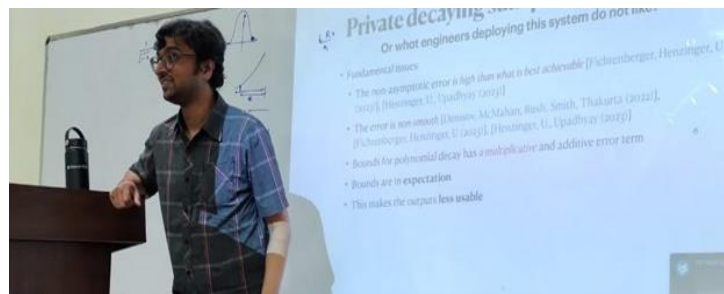


During the lecture, **Dr. Madishetti** discussed new challenges in electric vehicle technology, such as decentralization, renewable energy integration, and vehicle-to-grid interface. He also delved into high-power density converters and smart energy storage functionality, including smart inverters, for improving grid reliability and reducing outages. The event was highly interactive, and both the speaker and participants engaged throughout the session.

Industrial-Expert Lectures to Bridge Academia and Industry



Department of Mathematics, NIT Raipur hosted **Industrial-Expert lectures** on campus on 8th & 9th Aug. 2024. The event aimed to promote critical thinking among students and bridge the gap between academic learning and industrial applications. The first lecture, titled **Mathematics in the Industry**, was delivered by **Mr. Archit Ojha**, *Product Manager, NucleusTeq Inc., Phoenix, Arizona*, on 8th Aug. 2024. **Mr. Ojha's** talk offered an insightful overview of the critical role mathematical principles play in real-world industrial applications. He highlighted the use of mathematical models in solving industry challenges, optimizing processes, and discussed emerging fields like AI and advanced manufacturing, encouraging students to explore diverse career paths.



The second day of the event featured **Dr. Jalaj Kumar Upadhaya**, *Assistant Professor, Rutgers University, USA*, and *Former Senior Researcher, Apple's Privacy Team*. She delivered an insightful lecture on **Recent Advances in Differentially Private Continual Observation**. He concluded by highlighting research and collaboration opportunities.

Industry-Expert Lecture on Advanced Aluminium Alloys



Department of Metallurgical and Materials Engineering (MME), NIT Raipur organised an **Industry-Expert Lecture on Advanced Aluminium Alloys** delivered by **Mr. Anirban Giri**, *Lead Metallurgist, Vedanta Industries Ltd., Jharsuguda, Odisha* on 12th Aug. 2024. The purpose of this Industry-Expert Lecture is to prepare MME undergraduate students with scope and opportunities in metallurgical field, particularly in Aluminium Industry. **Mr. Giri** shared insights with attendees to help them better grasp of latest Aluminium production technologies and their challenges. In addition, he has also discussed career opportunities in Aluminium industries for fresh graduate students in top brass industries like Vedanta Ltd.

Industrial Visit to IAST Software Solution



Department of Information Technology (IT), NIT Raipur organized an industrial visit on **9th Aug. 2024** for BTech (IT) 3rd Semester students to visit **IAST Software Solutions Pvt. Ltd, Durg (C.G.)**. This industrial visit has been organized as per the instructions of the **IICC Cell**. 30 students of B.Tech.(IT) 3rd Semester along with the **Dr. G. P. Gupta**, *Faculty(I/C), IICC Cell, IT* and three Ph.D. Research Scholars, named as **Mr. Arun Kr. Dey**, **Mr. Upendra Chaurasiya** and **Ms. Vishakha Shukla**, visited the **IAST Software Solution Pvt. Ltd, Kadam Plaza, Durg (C.G.)**.

Industrial Visit at CIPET



Department of Mechanical Engineering (ME), NIT Raipur organized an industrial visit, under **IICC** for the 5th Semester students at the **Central Institute of Plastics Engineering & Technology (CIPET)**. This visit provided students with practical experience and insights into the workings of the plastics engineering and technology industries.

Infrastructural Development

Foundation Stone for a new G+6 Building



The foundation stone for a **New G+6 building**, named **Academic Annex-I**, was ceremoniously laid on 7th Aug. 2024 at NIT Raipur by **Dr. Suresh Haware**, *Chairperson, BoG, NIT Raipur*, in the presence of **Dr. N.V. Ramana Rao**, *Director, NIT Raipur* and **Dr. R. K. Tripathi**, *Dean (P&D), NIT Raipur*.

The building will be constructed on the NIT Raipur campus in place of the **Unit Operation Lab** and will be situated adjacent to the existing Academic Building. This seven-storey building will be constructed by the **Central Public Works Department (CPWD) Raipur** with new facilities spanning over a total floor area of 6,387 square meters, significantly enhancing the infrastructure to support academic activities for students. The foundation stone laying ceremony was attended by all the Deans, **Dr. N. D. Londhe**, *In-charge Registrar*, **Dr. L. K. Yadu & Dr. A. V. Ahirwar**, *Associate Deans (P&D)*, **Mr. Pawan Kataria**, *Assistant Registrar (P&D)*, faculty and

staff of the Institute. **Shri. Ritesh Kumar Agrawal**, *Executive Engineer (Civil), CPWD Raipur*, **Ar. Pushpraj Kashyap**, *Architect, CPWD Raipur* and other Officials from CPWD Raipur also registered their presence during the foundation stone laying ceremony.

MOUs

NIT Raipur and NITTTR



NIT Raipur and the National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal, Madhya Pradesh, signed a Memorandum of Understanding (MoU) on 5th Sept. 2024. The MoU was signed by **Dr. (Prof.) N. V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. C. C. Tripathy**, *Director, NITTTR Bhopal*, in the presence of **Dr. Parag Dubey**, *Professor, NITTTR Bhopal*, **Dr. S. Verma**, *Dean (Academics)*, **Dr. P. Diwan**, *Dean (R&C)*, **Dr. D. Sanyal**, *Dean (Faculty Welfare)*, and **Dr. T. Meenpal**, *HoD, ECE*, along with **Dr. C. Sahu**, *Nodal Officer* and **Dr. A. Kumar**, *Nodal Officer* and faculty members from both institutions. The primary objective of the MoU is to establish cooperation and collaboration between NIT Raipur and NITTTR Bhopal for advanced research in the areas of semiconductor packaging and OSAT.

NITRRFIE



NIT Raipur has established not-for-profit Technology Business Incubator Company named 'NIT Raipur Foundation for Innovation and Entrepreneurship' (NITRRFIE) to support and mentor the startups under the National Initiative for Developing and Harnessing Innovations (NIDHI) - Technology Business Incubator (TBI) Program of Department of Science and Technology (DST), Govt. of India. NIT Raipur's Foundation for Innovation & Entrepreneurship (NITRRFIE) and Chhattisgarh Biotechnology Promotion Society (CBPS) has signed an MoU to boost co-incubation initiatives for startups in Chhattisgarh.

The MoU was signed by **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. Girish Chandel**, *Vice-Chancellor, Indira Gandhi Agricultural University, Raipur*. NITRRFIE signed a Memorandum of Understanding (MoU) with IIHMF on 9th Aug. 2024 with the primary objective to support incubation. The MoU was signed by **Dr. Samir Bajpai**, *Board Director, NITRRFIE* and **Dr. Anubhav Rawat**, *Board Director, IIHMF*, in the presence of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. Animesh Kumar Ojha**, *Professor, MNNIT Allahabad*, along with **Dr. R.K. Tripathi**, *Dean (P&D), NIT Raipur*, **Dr. Anuj K. Shukla**, *Faculty In-Charge, Incubation Cell, NIT Raipur* and *Interim CEO, NITRRFIE* and **Mr. Pawan Kataria**, *Assistant Registrar, NIT Raipur* and *Interim Manager, NITRRFIE*.

In the second quarter of FY 2024-25, NITRRFIE signed Memoranda of Understanding (MoUs) with the Incubation Centers: IIM Calcutta Innovation Park (IIMCIP), represented by **Dr. Subhranshu Sanyal**, *CEO, IIMCIP* on 12th Jul. 2024; KIIT-Technology Business Incubator (KIIT-TBI), represented by **Dr. Mrutyunjay Suar**, *CEO, KIIT-TBI* on 16th Jul. 2024; and Innovation & Incubation Hub MNNIT Foundation (IIHMF), represented by **Dr. Anubhav Rawat**, *Board Director, IIHMF* on 09th Aug. 2024. Under the scope of the MoUs, the incubation centers have committed to fostering cooperation in innovation, entrepreneurship, and incubation activities. The MoUs were signed by **Dr. Samir Bajpai**, *Board Director, NITRRFIE*, in the presence of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Anuj K. Shukla**, *Faculty In-Charge, Incubation Cell, NIT Raipur* & *CEO (Interim), NITRRFIE* and **Mr. Pawan Kataria**, *Assistant Registrar, NIT Raipur* & *Manager (Interim), NITRRFIE*.

NIT Raipur and CSIR-NGRI



NIT Raipur and CSIR-NGRI, Hyderabad signed an MoU in the fields of geophysics, geology, and energy extraction from

natural resources on 27th Jun. 2024, in the presence of **Prof. N. V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. Prakash Kumar**, *Director, CSIR-NGRI*. This MoU focuses on collaborative research and both institutions will pursue joint research programs, provide consultancy services, and establish guidelines for intellectual property sharing **Dr. D.C. Jhariya**, *HoD, DAG* and **Dr. Sachin Jain**, *Professor, EE* will coordinate the collaborative efforts from **NIT Raipur**.

Academic Activities

FDP on Data Science and its Application



Department of Computer Science & Engineering (CSE), NIT Raipur conducted an online **Faculty Development Program on Data Science and its Application** in collaboration with **E&ICT Academy, NIT Warangal** from 15th to 26th Jun. 2024. The coordinators of this program were **Dr. Akanksha Sharaff**, *Assistant Professor, CSE, NIT Raipur* and **Dr. Sanjaya Kumar Panda**, *Professor, NIT Warangal*.

This FDP provided participants with a comprehensive understanding of **Data science**, covering topics such as **Python in data science**, **Statistical Foundations**, **Machine learning techniques**, **Data visualization**, and **Ethical issues** which featured eminent experts and alumni from IITs and NITs.

5-Day Workshop on Finite Element Analysis

Department of Civil Engineering (CE), NIT Raipur in association with **ISHRAE (The Indian Society of Heating, Refrigerating and Air Conditioning Engineers) Raipur Sub Chapter** and **IGS Raipur Chapter** inaugurated a **5-Day workshop on Finite Element Analysis**. The workshop was held from 18th to 22nd Jun. 2024. **Dr. N. K. Samadhiya**, *Professor, IIT Roorkee* graced the occasion as the *Chief Guest*. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* assumed the role of *Chief Patron*. The *Chairman* of the workshop was **Dr. Shirish V. Deo**, *HoD, CE*. The *Convenor* of the workshop was

Dr. G. D. Ramtekkar, *Professor, CE*. The workshop was being coordinated under the guidance of **Dr. Alfia Bano**, *Assistant Professor, CE* and **Dr. Sukanta Das**, *Faculty, CE*. During this, **Dr. Samir Bajpai**, *Professor, CE*, faculty members, scholars and participants were present. **Dr. Rao** kicked off with an insightful overview of **Finite Element Analysis (FEA)**, discussing its merits, potential pitfalls, and its crucial role in engineering. **Dr. Samadhiya** shared nostalgic memories of his GEC-NIT Raipur days and connected past experiences to current FEA advancements. **Dr. Ramtekkar** outlined the workshop's scope and emphasized FEA's transformative impact with the quote that **Finite element analysis has made good engineers better but at the same time has made bad engineers dangerous**. **Dr. R.K. Tripathi** added a comprehensive explanation of FEA, and **Dr. Alfia Bano** concluded with a vote of thanks. **Dr. Sandhya Birla**, *Associate Scientific Editor, Elsevier India*, conducted a session on research writing, covering effective techniques, common pitfalls, selecting the right journal, and handling reviewers' comments.



Dr. S. Sanyal, *Professor, ME* was the *Chief Guest* of the valedictory Session, **Dr. Samir Bajpai**, **Dr. Ramtekkar**, **Dr. Deo** and **Mr. Ravi Jaggi**, *President, ISHARE* were present. **Dr. Ramtekkar** discoursed the softwares used and topics covered across various sessions. **Dr. S. Sanyal** presented the certificates to the attendees, which saw over 50 attendees from across the country. **Dr. Deo** stressed hands-on experience and encouraged participants to continue validating and building sustainable solutions. **Mr. Jaggi** thanked the organizers and urged practical learning. **Dr. S. Sanyal** praised the

participants' dedication, noted that the workshop only scratched the surface, and advised breaking complex problems into manageable parts. The workshop ended successfully with a vote of thanks by **Dr. Alfia Bano**.

STTP on Quantum Computing and its Application



Department of Information Technology (IT), NIT Raipur inaugurated a 5-days online Short-Term Training Program (STTP) on Quantum Computing and its Applications: Modern Approaches and Practices on 24th Jun. 2024.

Dr. Sanjay Kumar, *HoD, IT* consented to be the *Co-Patron* of the event. The program coordinators were **Dr. Rakesh Tripathi**, *Associate Professor, IT* and **Dr. Chandrasekhar Jatoth**, *Assistant Professor, IT*. The inaugural program featured *Chief Guest Prof. Lalit Kumar Awasthi*, *Vice Chancellor, Sardar Patel University, Mandi (H.P.)*, who highlighted quantum computing's revolutionary impact on cryptography, drug discovery, optimization, and AI. **Prof. Awasthi** discussed progress driven by tech giants and Indian startups such as QNu Labs and BosonQ Psi. The workshop explored quantum computing principles and its transformative potential over the next five days.

The *coordinators* extended their heartfelt gratitude to **Prof. Shirish Verma**, *Dean (Academics)*, and **Prof. Prabhat Diwan**, *Dean (R&C)*, for their support and approval for the STTP. The STTP featured 24 lectures by 11 renowned speakers, experts in their fields. These speakers, from various backgrounds, shared valuable insights, enhancing the program's educational value.

Workshop on Electric Vehicle Technology and Charging Infrastructure



Department of Electrical Engineering (EE), NIT Raipur, inaugurated a SERB sponsored High-End Workshop (Karyashala) on Emerging Trends on Electrical Vehicle Technology and Charging Station Infrastructure. The workshop, held from 1st to 6th Jul. 2024 focused on electric vehicles, charging infrastructure, and related technologies. **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* was the Patron, with **Dr. Anamika Yadav**, *HoD, EE* and **Dr. Lalit Kumar Sahu**, *Assistant Professor, EE* as Coordinators. The inaugural session featured **Dr. Prabhat Diwan**, *Dean (R&C)* as *Chief Guest* and **Dr. Shubhrata Gupta**, *Professor, EE* as *Guest of Honor*. **Dr. Gupta** highlighted electric vehicles' potential for sustainable transport, while **Dr. Diwan** discussed trends like Vehicle to Grid (V2G) and Vehicle to Home (V2H). The first day included sessions on battery health management by **Dr. Saurabh Saxena**, Multi-Spot EV Charging Stations by **Dr. Shailendra Kumar**, EV trends in India by **Dr. Allemshetty Hemchander**, and real-time EV control mechanisms by **Dr. Manish Barwar**. Day two featured **Dr. Shailendra Jain** discussing Hydrogen Fuel Cell propulsion and advanced EV technologies, followed by **Mr. Yugal Kishore's** hands-on session on DC/DC converters. The workshop offered valuable insights and practical experience, enhancing participants' understanding of electric vehicles.

Cricket Premier League NIT Raipur

Sports Department, NIT Raipur organised the Cricket Premier League (CPL)'24 at Institute under the Fit India Campaign. The league ran from 1st Jun. to 6th Jul. 2024 featuring 10 matches. The final, held on 6th Jul. 2024 saw NIT Strikers defeat NIT Royals by 14 runs, with scores of 162 and 148, respectively. The Chief Guest was **Dr. Manoj Pradhan**, *Professor, DME* with **Dr. Nitin Jain**, *Professor, ME* and **Dr. Narendra D. Londhe**, *Professor, EE* were also in attendance. **Dr. Rajesh Doria**, *Assistant Professor, IT* was named Man of the Match for scoring 62 runs. **Dr. Rajesh Chaudhary**, won Best Batsman, **Dr. Ashish Aswal** received Best Bowler, and **Dr. S. Varma Siruvuri**, *Assistant Professor, ME* was named Man of the Series.

Bootcamp on Coding and Robotics



Department of Computer Science & Engineering (CSE), in collaboration with the Continuing Education Cell (CEC),

NIT Raipur conducted a **Bootcamp on Coding and Robotics** from 6th to 9th Jul., 2024. The **four-day** event was coordinated by **Dr. Pradeep Singh**, *HoD, CSE* and **Dr. Deepak Singh**, *Assistant Professor, CSE*. Students were provided with kits to conduct various experiments during the event. Day 1 of the bootcamp covered **Introduction to Arduino and Robotics**, including robotics applications, Arduino features, and basic electronics.

Day 2 focused on **Introduction to Programming with Arduino**, teaching variables, loops, conditionals, and functions. Day 3 involved building obstacle avoidance, Bluetooth-controlled, and line-following robots, including assembly and coding.

On Day 4, participants continued with robot building, troubleshooting, and showcasing projects. The bootcamp aimed to enhance practical skills in coding and robotics, with 15 participants receiving certificates on the final day.

SERB Sponsored Workshop on Semiconductor Devices



Department of Electronics & Communication Engineering (ECE), NIT Raipur organized a **One-Week High-end workshop sponsored by SERB on Exploring Semiconductor Devices: A Practical Approach to VLSI** from 10th to 16th Jul. 2024. **Dr. N.V. Ramana Rao**, *Director, NIT Raipur* served as the *Chief Patron* while **Dr. Shrish Verma**, *Dean (Academics)*, **Dr. Prabhat Diwan**, *Dean (R&C)* and **Dr. Shubhojit Ghosh**, *Chairman, CEC* were the other patrons. *Chairman* for the workshop was **Dr. Toshanal Meenpal**, *HoD, ECE*. The *Workshop coordinators* were **Dr. G.P.S.C. Mishra**, *Professor, ECE* and **Dr. Ashish Kumar**, *Assistant Professor, ECE*.

The inaugural ceremony for the workshop was held on 10th Jul., featuring *Chief Guest* **Dr. Rao** and *Guest of Honor* **Dr. Samrat L. Sabat**, *University of Hyderabad*. **Dr. Shrish Verma**, **Dr. D. Sanyal**, *Dean (FW)*, **Dr. Samir Bajpai**, *Head, CDC*, **Dr. B. Acharya**, *HoD (I/C), ECE*, faculty members, scholars, participants were present in this event. **Dr. Verma** reflected on the department's evolution from GEC to NIT in 2005 and the ECE Department's achievements despite limited

resources and outlined the workshop's objectives and learning opportunities. **Dr. Rao** discussed semiconductor applications in solar and battery panels, emphasizing the field's bright future in India. **Dr. Samrat** highlighted the need for skilled designers, linking devices, circuits, and systems, and praised the Indian government's investment in semiconductors. **Dr. Acharya** concluded with a vote of thanks.

The week-long workshop introduced participants to semiconductor devices, VLSI design, and their practical applications through hands-on experience and discussions. **Dr. T. Meenpal's** valedictory speech encouraged participants to apply their new knowledge to research and professional projects. **Dr. Shubhojit Ghosh** highlighted the workshop's significance, noting the competitive SERB sponsorship process where only 52 out of 500 nationwide applications were selected. Remarkably, 4 of these were from NIT Raipur, reflecting the institute's exceptional capability in semiconductor and VLSI technologies. **Dr. P. Diwan** emphasized its role in advancing semiconductor expertise and encouraging continued innovation. The event concluded with a felicitation ceremony for 25 participants, with speakers from **DRDO**, **IIT Jodhpur**, **IIT Roorkee**, and **CSIR CEERI Pilani** sharing their expertise. **Dr. Ashish Kumar** concluded the session with a heartfelt vote of thanks.

Expert Lecture on Artificial Intelligence and Data Science



Department of Computer Application (MCA), NIT Raipur organized an **Expert Lecture** titled **Artificial Intelligence and Data Science** on 13th Jul. 2024. The event was honored by the presence of *Chief Guest* **Dr. Prabhat Diwan**, *Dean (R&C)*, *Special Guest* and *Speaker* **Dr. T.V. Vijay Kumar**, *Professor & Dean, School of Engineering, JNU, Delhi*. The organizers of the event were **Dr. Priyanka Tripathi**, *HoD, MCA* & **Dr. H. Bikrol**, *Professor, MCA*. The aim of the event was to provide insights into the latest developments in Artificial Intelligence and Data Science.

Dr. Prabhat Diwan discussed the significant impact that AI is expected to have in the 2030s, highlighting increased

automation and productivity, personalized experiences, advancements in healthcare, and workforce transformation. **Dr. T.V. Vijay Kumar** said that our current era as the fourth industrial revolution with AI and IoT and differentiated between strong and weak AI, discussed initial expectations of AI replicating human behavior, and warned that AI might reduce humans' capability to perform simple tasks. **Dr. Kumar** discussed NITI Aayog's AI policies for healthcare, agriculture, and education, while explaining the stages of data science and highlighted that the ultimate goal is to achieve wisdom from knowledge, with a focus on high ROI. The event concluded with a vote of thanks by **Dr. Dibakar Saha**, *Assistant Professor, MCA*.

5-day STTP on Holistic Approach to Design Hospitals



Department of Architecture and Planning (DAP), NIT Raipur inaugurated a **5-day Online Short-Term Training Program (STTP) on Holistic Approach to Design Hospitals 2024** on 22nd Jul. 2024. The event was graced by the presence of **Chief Guest Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Guest of Honor was Dr. Prabhat Diwan**, *Dean (R&C)*. Faculty members, participants, and students were also present. **Dr. Abir Bandopadhyay**, *HoD, DAP* served as the convener of this 5-day program, while **Dr. Himanshu Poptani**, *Assistant Professor, DAP* and **Dr. Shruti S. Nagdeve**, *Assistant Professor, DAP* acted as *Coordinators*. **Dr. Himanshu** highlighted the challenges faced by patients and how role of architects and planners can become pivotal in designing the hospitals. **Dr. Abir** described hospitals not only as places to keep patients but as centres of hope and healing emphasizing that hospitals act as catalysts for innovative environments for better healthcare. **Dr. Prabhat** stated that once a hospital gains name and fame, the number of patients increases, ensuring smooth patient flow and reducing waiting times, considering the high population density. **Dr. Rao** underscored the importance of a holistic environment.

The valedictory ceremony was organised on 26th Jul. 2024. The **Chief guest** for this event was **Dr. Debashis Sanyal**, *Dean (FW), NIT Raipur*. **Dr. Nagdeve** highlighted about the

interactive sessions, detailed presentations, and practical insights that participants gained regarding the design and planning of hospitals. Keynote speakers for this STTP included **Dr. Anil Diwan**, *Dean (Research) & Professor at SPA, New Delhi*, **Dr. Poonam Diwan**, *Rtd. Additional Commissioner (Landscape), DDA*, **Mr. Sandal Kapoor**, *Architect & Faculty member, SPA, New Delhi*, and **Mr. Jayant Samal**, *MEP Consultant Engineer*. These experts shared their extensive knowledge on classification, norms & disaster management, planning & designing of hospitals, specialty hospitals & facilities management, engineering services in hospitals, and the future of trauma care & hospital design. **Dr. Sanyal** emphasized the importance of such training programs in enhancing the skill sets of professionals and students alike. **Dr. Anil Diwan** proposed the idea of NIT Raipur engaging in interdisciplinary research and introducing specialized courses that integrate architecture, healthcare, and engineering disciplines. **Dr. Diwan's** suggestion highlighted the need for collaborative efforts to foster innovation and excellence in hospital design and healthcare solutions. The ceremony concluded with a vote of thanks presented by **Dr. Himanshu Poptani**. Participants from various regions and different sections of the country participated in this five-day long online program and were provided e-certificates.

SERB Sponsored Workshop on Reinventing Wireless Communication



Department of Electronics and Communication Engineering (ECE), NIT Raipur organised a high-end workshop, **Karyashala** sponsored by the **Science and Engineering Research Board (SERB)**. The event, titled **Reinventing Wireless Communication: Data-Driven Signal Processing for 6G Networks**, spanned from 24th Jul. 2024 to 30th Jul. 2024. The workshop was graced by distinguished patrons, including **Prof. N.V. Ramana Rao**, *Director, NIT Raipur*, **Prof. Sibi Raj B Pillai**, *Faculty, EE, IIT Bombay*, **Prof. Shrish Verma**, *Dean (Academics)*, **Dr. D. Sanyal**, *Dean (FW)*, and **Dr. Toshan Meenpal**, *HoD, ECE*. The workshop coordinators, **Dr. Siddharth Deshmukh**, *Associate Professor, ECE*, and **Dr. Saikat Majumder**,

Assistant Professor, ECE, have meticulously organized this event.

The inaugural ceremony took place on 24th Jul. 2024. **Dr. Meenpal** welcomed all the guests, faculty members, and participants. **Prof. Verma** provided an insightful overview of the workshop's significance. **Prof. Rao** expressed his gratitude towards the participants, coordinators, and guests for their contributions to the event. The ceremony concluded with **Dr. Majumder** delivering a vote of thanks. Throughout this workshop, academicians from premier institutes such as IITs, NITs, and foreign universities, along with experts from the telecom industry, including **C-DOT** and **Nokia Bell Labs**, delivered lectures in the more than 20 sessions. The participants engaged in insightful talks, discussions, and hands-on sessions focusing on recent AI-applied signal processing trends in 6G networks and their potential use-cases.

The valedictory session was organised on 30th Jul. 2024. **Dr. Meenpal**, said that the government is planning for 6G and India wants to be a leader in this field and stated that the event was very informative and provided knowledge about this field. **Dr. Acharya** explained how everything was done manually earlier as the transistors were huge but nowadays technology is advanced as we are entering into the 6G era and advised the students to apply this knowledge for further research work. **Dr. Ghosh** shared insights on the workshop and efforts behind it. The event concluded with certificate distribution and vote of thanks by **Dr. Deshmukh**.

Awareness Session on Organ Donation and Basic Life Support



Department of Electrical Engineering (EE), Department of Computer Applications (MCA), Department of Information Technology (IT) & Dean Faculty Welfare (FW) along with SAHYOG - The Mentorship club, NIT Raipur organized an awareness session regarding **Organ Donation and Basic Life Support** on 2nd Aug. 2024. The event was graced by the presence of *Chief Guest* **Dr. R.K. Tripathi**, *Director (I/C)*, NIT Raipur and *Guest of Honor* **Dr. D. Sanyal**, *Dean (FW)*. **Dr. S.L. Sinha**, *HoD, ME*, **Dr. Anamika Yadav**, *HoD, EE*, **Dr. Priyanka Tripathi**, *HoD, MCA*, **Mrs. Jyoti Rao**, **Mrs. Jayshree Dekhne**, *Core*

Members, Aashirwad Social Group along with faculty members and students attended the event. **Ms. Hemlata Mishra**, *Principal*, and **Ms. Vandana**, *Faculty, N.A.B. Drishtibadhit Balika Purv Madhymik Vidyalaya* were also present, along with keynote speakers **Dr. Ajit Kumar Mishra** and **Dr. Santosh Kumar Mishra** from *Ramkrishna Care Hospital* and **Mr. Ravindra Singh Shastri** from *Sumit Foundation*. The event was coordinated by **Dr Ashish Kumar Dash**, *Assistant Professor, DME* and **Dr. Mridu Sahu**, *Assistant Professor, IT*.

Dr. Tripathi highlighted that in Hindu mythology, *Mahrishi Dadhichi's* selfless act and stressed the importance of having individuals today who can embody such self-sacrifice to drive societal progress. **Dr. D. Sanyal** mentioned that as we have many people at NIT Raipur, it is our duty to raise awareness among as many individuals as possible. **Dr. S. L. Sinha** said after death, we can continue to support others by donating our organs, turning our legacy into one of compassion. **Dr. Ajit** highlighted that organ donation lets people live on through their gifts, as one donor can save up to eight lives and mentioned that excessive alcohol use can lead to organ disease. **Dr. Santosh** explained how non-medical individuals can save lives by outlining safety measures for both responsive and unresponsive people. He demonstrated CPR live, showing the correct technique for chest compressions and rescue breaths. **Mr. Ravindra** addressed how to manage organ transplants despite financial constraints and emphasized that organ donation is essential for saving many lives. The event concluded with active participation of students as well as faculty members.

Awareness Workshop on Energy Conservation

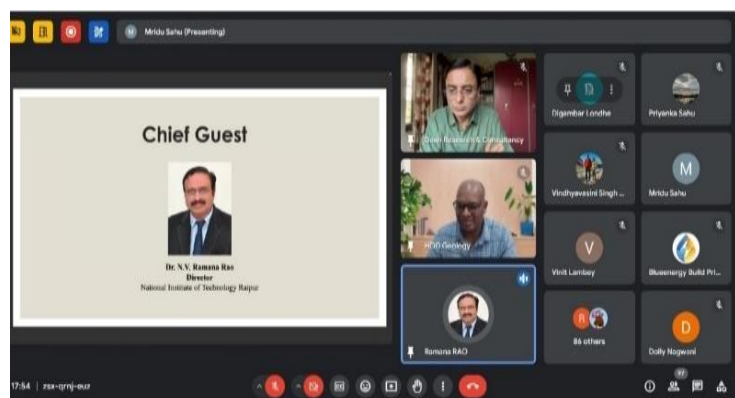


NIT Raipur in collaboration with IWRS Student Chapter, Bureau of Energy Efficiency and Chhattisgarh State Renewable Energy Development Agency (CREDA) hosted an awareness workshop titled **Energy Conservation: Saving the Planet for Future Generation** on 13th Aug. 2024. The event was graced by the presence of **Dr. Ishtiyag Ahmad**, *Faculty Advisor, IWRS Student Chapter*, **Mr. R. S. Bhakuni**, *SE, CREDA*, **Mr. Aditya Baghel** and **Mr. Akash Sharma**, *AE, CREDA* and **Dr. Priyanka Pachauri Mishra**, *Project Coordinator, CREDA*. The workshop aimed to raise

awareness about energy conservation, inspiring participants to adopt sustainable practices and innovate in energy management.

Mr. Bhakuni highlighted CREDA's significant achievements, such as the installation of 1,60,000 solar energy pumps and over 30,000 drinking water sources and emphasised the principle - *Energy saved is Energy produced* and discussed the importance of energy conservation at home. **Mr. Akash** discussed energy-efficient technologies and practices, emphasising the critical need for energy conservation and the adoption of efficient equipment. **Dr. Priyanka** provided an in-depth look at CREDA's significant contributions to energy conservation and sustainability and elaborated on CREDA's work in solar energy, agriculture, and energy efficiency, discussing climate change, global targets, and Mission LIFE. She covered the Sustainable Development Goals, the Energy Conservation Act of 2001, and CREDA's programs like **PAT**, **MuDSM**, and **AgDSM**, emphasizing the role of public education in sustainability. The workshop concluded with an on-the-spot quiz competition, where winners were felicitated for their performance. Following this, the prize distribution for the **Digital Poster-making competition** took place, with **Vandana Singh** receiving 3rd place, **Yash Raj Sahu** securing 2nd place, and **Bhagvati Singh** from **GEC Raipur** securing the 1st place. The event wrapped up with a vote of thanks.

Certificate course on Artificial Intelligence and Machine Learning Innovation in Geology and Water Resources



Department of Applied Geology (DAG), Department of Information Technology (IT) and Department of Civil Engineering (CE), NIT Raipur jointly concluded a certificate course on **Artificial Intelligence and Machine Learning Innovation in Geology and Water Resources: From Theory to Practice**, which ran from 17th to 31st Aug. 2024. The inaugural session was organised on 17th Aug. 2024, which was graced by the presence of *Chief Guest* **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, *Guest of Honor* **Dr.**

Prabhat Diwan, *Dean (R&C)*, **Dr. Subhojit Ghosh**, *Chairman, CEC*. The *Course Coordinators* were **Dr. D.C. Jhariya**, *HoD, DAG*, **Dr. Mridu Sahu**, *Assistant Professor, IT* and **Dr. Chandan Singh**, *Assistant Professor, CE*. **Dr. Jhariya** briefed the participants on how the course would benefit students by exploring the applications of AI and ML in geology and water resource management. **Dr. Ghosh** emphasised the importance of these tools in addressing global challenges and inspiring attendees to harness their potential for sustainable resource management. **Dr. Diwan** emphasised the Government of India's focus on AI/ML in seven key areas: **Groundwater Modeling, Flood Prediction, Soil and Mineral Exploration, Water Quality Monitoring, Natural Disaster Management, Agricultural Water Management, and Climate Change Impact**. **Dr. Rao** elaborated on the use of deep learning in predicting natural resources, water management, mineral exploration, and seismic activity and noted challenges like data quality and the need for integrating AI/ML with traditional geological methods. The event concluded with a vote of thanks from **Dr. Chandan Kumar**. The valedictory ceremony for the course was organized on 31st Aug. 2024. The event was graced by the presence of **Dr. Nibin G. Tom**, *Director, Field Training Center-Raipur, Geological Survey of India (GSI)* as *Chief Guest*, along with other esteemed guests, including **Dr. Ghosh**. **Dr. Ghosh** emphasised that the course significantly benefited students and professionals by enhancing their python programming skills. **Dr. Tom** highlighted GSI's initiative to share geoscientific data through the **National Geoscientific Data Repository** to promote academic research. He emphasized the importance of ethical practices in data science and predicted that the growth of AI and ML would create numerous job opportunities for students in the future. Key topics covered in the course included **Introduction to Python Programming, Lists, Multidimensional Lists, and Dictionary Looping**. Based on the project submission and test results ten best trainees were awarded. The ceremony concluded with a feedback session, followed by a vote of thanks delivered by **Dr. Singh**.

Workshop on Real-Time Hands-On in Bio-signal Acquisition and Processing using Advanced AI and ML Tools

Department of Biomedical Engineering (BME), NIT Raipur inaugurated the **5-day workshop on Real-Time Hands-On in Bio-signal Acquisition and Processing Using Advanced AI and ML Tools** on 25th Aug. 2024. The program, specifically designed for faculty members from

nearby colleges, aimed to provide participants with knowledge and practical skills in the rapidly advancing fields of **Artificial Intelligence (AI) and Machine Learning (ML)** as applied to **Bio-Signal processing**. The programme was sponsored by **Anusandhan National Research Foundation (Formerly SERB) India**.



The *Chief Guest*, **Dr. N. V. Ramana Rao**, *Director, NIT Raipur* graced the inauguration ceremony with a speech on the *Crucial Role AI and ML play in Revolutionising Healthcare technologies and Bio-signal Processing* where he underlined the importance of technological developments in order to stay relevant in the fields of academia and research while taking ethical considerations into account and went into further detail on the significance of AI and ML in various. The event also featured a special address by the *Guest of Honour*, **Dr. D. Sanyal**, *Dean (FW), NIT Raipur*, who highlighted the significance of such training programs in equipping educators with the latest tools and methodologies. The *Program Coordinator*, **Dr. Bikesh Singh**, *Associate Professor, BME* provided an overview of the workshop, outlining the key topics that will be covered over the course of the program. Participants engaged in a series of hands-on sessions focused on **Bio-signal acquisition, Processing Techniques and Application of AI and ML tools**. The ceremony concluded with a vote of thanks by *Program Co-coordinator* **Dr. J. Satya Eswari**, *Assistant Professor, DBT*. The workshop promised to be an enriching experience, equipping faculty members.

STTP on Advance Materials Testing and Characterisation Techniques



Department of Civil Engineering (CE) and Metallurgical and Materials Engineering (MME), NIT Raipur in association with **UltraTech Cement Ltd.**, inaugurated a **Five-**

day Short-Term Training Program (STTP) on Advanced Materials Testing and Characterization Techniques from 9th to 13th Sept. 2024 which aimed to provide participants with a comprehensive understanding of modern materials testing methodologies such as **Scanning Electron Microscopy (SEM), X-Ray Diffraction (XRD), and Spectroscopy**, vital for fields like **Engineering, Physical Sciences and Life Sciences**. The *Chief Patron* and *Chief Guest* of the event was **Prof. (Dr.) N.V. Ramana Rao**, *Director, NIT Raipur* and **Dr. Prabhat Diwan**, *Dean (R&C)*, served as the *Patron*, while the event was chaired by **Dr. Shirish V. Deo**, *HoD, CE* and **Dr. Subhas Ganguly**, *HoD, MME*. **Dr. Alfia Bano**, *Assistant Professor, CE* was the *Convener*, with **Dr. Neha Gupta**, *Assistant Professor, MME* and **Dr. Vikas Kumar Vidyarthi**, *Assistant Professor, CE* as *Coordinators*. Other Dignitaries includes **Dr. Soumya Gangopadhyay**, *Associate Professor, IIT Bhilai* and **Mr. Raman Sharma**, *Regional Head, Technical Services, UltraTech Cement*. **Dr. Ganguly** highlighted the historical importance of materials and how technological innovations have shifted the focus from material-driven technology to technology-driven materials and used the example of mobile battery technology, noting how energy storage times have been drastically reduced. **Dr. Shirish** emphasized the importance of materials testing and characterization in ensuring the quality and durability of concrete structures, which is akin to the quality control processes in manufacturing. **Dr. Gangopadhyay** delivered a lecture on the synthesis, characterization, and application of modern materials, adding valuable insights for both novice and experienced participants. **Prof. Rao** stressed that the rapid introduction of new materials requires precise testing and characterization to ensure their safety, durability, and suitability for various industries. **Mr. Raman** wished the participants success in their journey to mastering advanced materials testing techniques. The event concluded with a vote of thanks by **Dr. Gupta**. The valedictory ceremony of the event was organised on 13th Sept. 2024. The *Chief Guest* for this event was **Dr. Debashis Sanyal**, *Dean (FW)*, **Dr. Ganguly** was the *Guest of Honor* in the event. **Dr. Neha** briefed about the workshop's activities over the five days including **Advanced Materials Testing and Characterization Techniques** such as **X-Ray Diffraction, Bio-Nanocomposites, Correlative TEM-APT, Electron Microscopy, Material Testing for Civil Engineers, Spectroscopy Techniques, SEM and Design of experiments and Training on Data Analysis and Interpretation using Software Tools**. The speakers for this STTP were **Dr. Gangopadhyay**, **Dr. Jose Immanuel R**, *Assistant Professor, IIT Bhilai*, **Dr. Nithin**, and **Dr. Yagnesh Shadangi**, *Professor, IIT Bhilai*, **Dr. Prafull Pandey**, *Professor, IIT Gandhinagar*,

Dr. Vidyarthi, Dr. Sruthi Neelam, *Assistant Professor, MME, NIT Raipur*, **Dr. Neha, Dr. Srinivasu Gangi Setti**, *Assistant Professor, ME, NIT Raipur*, **Dr. Deependra Kumar Singh**, *Associate Professor, MME, NIT Raipur* and **Dr. Dharm Pal**, *Professor, NIT Raipur*. **Dr. Sanyal** emphasized the importance of such training programs in enhancing the skill sets of professionals and students alike, preparing them to tackle the complex challenges in advancement in new materials. The ceremony concluded with a vote of thanks presented by **Dr. Vidyarthi**.

Seminar on Stress Management Through Value Education



Department of Humanities and Social Sciences (DHSS), NIT Raipur organized a **Two-day seminar on Stress Management Through Value Education** on the 10th and 11th Sep. 2024 in observance of **World Suicide Prevention Day**. The session featured **Mr. Surendra Pal** from *Abhyoday Sansthan* as the keynote speaker, with distinguished attendees including **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. Samir Bajpai**, *HoD, DHSS*. **Dr. Heena Chawda**, *Faculty, DHSS* served as the event *Coordinator*.

Dr. Heena emphasized value education as a key tool for managing stress, highlighting the role of understanding, confidence, and relationships in mental well-being. **Dr. Rao** encouraged students to seek counselling and emphasized value education's importance in stress management. **Mr. Pal** discussed the causes of depression, happiness, and education in resolving psychological issues. On Day 2, **Mr. Pal** captivated the audience with insights on human nature, comparing humans to atoms composed of mind, intellect, and soul. **Dr. Bajpai** highlighted the institute's value education course as a journey of self-awareness and personal growth. The seminar concluded with Q&A session, and a vote of thanks by **Dr. Chawda**.

Upcoming Events

Chhattisgarh Green Summit 2024

NIT Raipur and VIBGYOR (N.E. Foundation) announce the first **Chhattisgarh Green Summit**, to be held from 3rd to

5th Oct. 2024, at the **Pt. Deendayal Upadhyay Auditorium, Raipur**. The summit, a precursor to **LokManthan 2024**, aims to celebrate Chhattisgarh's rich heritage while promoting environmental practices rooted in indigenous traditions. The 2024 edition will bring together artists, thinkers, and activists to contribute to the idea of *Rashtra*, fostering unity and appreciation for Bharat's cultural and intellectual heritage. **The Chhattisgarh Green Summit** will highlight Chhattisgarh's natural and cultural heritage through seminars on key topics like forest policy, carbon credits, and ecotourism. In addition to the seminars, the **Chhattisgarh Green Summit** will showcase live loom demonstrations, traditional Chhattisgarhi cuisine, local melodies and dances. Attendees can participate in discussions, presentations, and cultural activities centred on the state's ecological and cultural heritage, promoting sustainability.

2nd International Conference on Artificial Intelligence, Computing Technologies, Internet of Things (IoT) and Data Analytics

Department of Information Technology (IT), NIT Raipur will be organizing the **2nd International Conference on Artificial Intelligence, Computing Technologies, Internet of Things (IoT) and Data Analytics (AICTA 2024)** from 15th to 17th Nov. 2024 with technical collaboration of **MIND International Society**. The coordinators of the event are **Dr. Gyanendra Kumar Verma**, *Assistant Professor, IT*, **Dr. Rajesh Doriya**, *Assistant Professor, IT* and **Dr. Rekhrum Janghel**, *Assistant Professor, IT*. The conference aims to provide a platform for interdisciplinary collaborations and foster a vibrant community of researchers and practitioners in **Artificial Intelligence, Computing and Data Analytics**. It will feature keynote speakers, technical sessions, and panel discussions, covering a broad range of topics. The event will provide an excellent opportunity for participants to learn from each other, network, and collaborate on new research projects.

Certificate course on Cyber Physical System

Department of Computer Science & Engineering (CSE), NIT Raipur is organizing a **45-day Certificate Course on Foundations of Cyber Physical System** from 6th Jan. to 7th Mar. 2025, in hybrid mode (both online and offline). The event will be coordinated by **Dr. Manu Vardhan**, *Assistant Professor, CSE*, **Dr. Nitesh K. Bharadwaj**, *Assistant Professor, CSE* and **Dr. Madhukrishna Priyadarsini**. This course is designed to equip participants with the knowledge required to pursue a career in the field of **cyber-physical**

systems (CPS) and automation through AI. The program offers hands-on experience, covering core concepts such as CPS principles, real-time sensing, communication, attack detection, security frameworks, state estimation, and neural network-based modelling. In addition, the course explores **Industrial IoT (IIoT) implementation and CPS configuration in IIoT environments**. Designed for students and professionals, this course delves into the fusion of data and automation, preparing participants for a technical career in the field of CPS. More details about the course can be found on the official NIT Raipur website.

International Conference on Ambient Intelligence in Health Care (ICAHC-2025)

Department of Computer Applications (MCA) will be organizing the International Conference on **Ambient Intelligence in Health Care (ICAHC-2025)** on 10th and 11th Jan. 2025. The coordinators for the event are **Dr. Priyanka Tripathi, HoD, MCA**, **Dr. Tripti Swarnkar, Professor, MCA**, **Shri Harendra Bikrol, Associate Professor, MCA** and **Dr. Shyam Sundar, Associate Professor, MCA**. The conference aims to explore the integration of machine learning and Intelligent Computing in healthcare. It will serve as a platform to showcase applications of intelligent techniques in healthcare, including e-healthcare, telemedicine, bioinformatics, and life support systems. Through interactive sessions and discussions, participants can forge connections that facilitate the translation of cutting-edge research into real-world applications, driving meaningful progress in healthcare innovation and delivery.

Research Frontier

Expert Lectures delivered by Institute Faculty/Staff

- **Dr. Tripti Swarnkar, Professor, MCA** delivered an expert lecture delivered on *Exploration of Machine Learning Tools* at **National Conference on Artificial Intelligence and IoT for Sustainable Innovation (AIISI)** organized by *Atal Bihari Vajpayee University Bilaspur, CG* on 25th Jun. 2024 (Offline mode).
- **Dr. Tripti Swarnkar, Professor, MCA** delivered an invited lecture in the online mode on *Generative AI and Healthcare* at **FDP on Leveraging AI in Engineering: Innovations, Applications and Future Trends** organised by *Centurian Univeristy of Technology & Management, Bhubaneswar, Odisha* on 26th Jun. 2024.
- **Dr. K. Jairam Naik, Assistant Professor, CSE** delivered an invited lecture on *Role of Deep learning in IoT based Research: Examples & Case studies* in the **Faculty Development Program on Deep Learning and IoT Driven Smart Applications** organised by *MLR Institute of Technology Hyderabad, Telangana* on 27th Jun. 2024.
- **Dr. Nitesh K. Bharadwaj, Assistant Professor, CSE**, delivered an expert lecture on *Cyber Security Standards & Guidelines in Two-day State Level Awareness Workshop on e-Governance Standards & Guidelines (eGSG)* organized by *Centre for Development of Advanced Computing (C-DAC) and the Standardization Testing and Quality Certification (STQC) Directorate*, under the aegis of the *Ministry of Electronics & Information Technology, Government of India*, at **Hotel Babylon Capital, Raipur** on 28th and 29th Jun. 2024.
- **Dr. Nitesh K. Bharadwaj, Assistant Professor, CSE**, delivered an expert lecture on *Vulnerability Analysis & Penetration Testing in Five-day online workshop on CyberSecML: Exploring the Fusion of Security and Machine Learning* under *Indian Institute of Information Technology Kottayam and Rashtriya Raksha University, Gujarat* held from 8th to 12th Jul. 2024.
- **Dr. Akanksha Sharaff, Assistant Professor, CSE** delivered invited lectures on *Union by Rank and Path Compression, Flow Networks Problem, Graph Colouring Problem, N-Queen Problem, Hamiltonian Circuit Problem* at **Swayam Course** organised by *Chhattisgarh Swami Vivekanand Technical University, Raipur* on 4th Aug. 2024.
- **Dr. Nitesh K. Bharadwaj, Assistant Professor, CSE**, delivered an expert lecture on *Database and GUI Programming using Python* certificate course in **Artificial Intelligence & Machine Learning Innovations in Geology and Water Resources: From Theory to Practice (AIMILGWR-2024)** at *National Institute of Technology, Raipur* held from 17th to 31st Aug. 2024.
- **Dr. Akanksha Sharaff, Assistant Professor, CSE** delivered an invited lecture on *Deep Learning and its Real-world Case Studies* at a **Faculty Development Program** from 24th to 29th Jun. 2024 organised by *Symbiosis Institute of Technology, Pune*.

Awards, Recognition, and Fellowship

- **Prof. P. Y. Dhekne, Registrar, NIT Raipur** has been appointed as a **Member, R&D Board, Coal India Limited**.

- **Dr. Awanish Kumar**, HoD, DBT, **Dr. Govind P. Gupta**, Assistant Professor, IT, **Dr. Dilip Singh Sisodia** Associate Professor, CSE, **Dr. Rakesh Tripathi**, Associate Professor, IT, **Dr. Pratima Gupta**, Professor, DBT, **Dr. Pradeep Singh**, HoD, CSE, **Dr. Ayush Khare**, Professor, DoP, **Dr. Anamika Yadav**, HoD, EE, **Dr. Bikesh Kumar Singh**, Associate Professor, BME, **Dr. Prem Kumar Chaurasiya**, Assistant Professor, ME, **Dr. Lata Sheo Bachan Upadhyay**, Professor, DBT, **Dr. Mohan Kumar Pradhan**, Associate Professor, ME, **Dr. Sudip Kumar Sinha**, Assistant Professor, MME, **Dr. Sachin Jain**, Professor, EE and **Dr. Rajan Kumar**, Assistant Professor, EE and have been featured in the prestigious list of World Ranking of **Top 2% Scientists/Researchers** released by the renowned **Stanford University, USA** for the year 2024.
- **Dr. Awanish Kumar**, Associate Professor & HoD, DBT recently shared his views on **Pharmaceutical Biotechnology's Impact on Healthcare Applications** in a renowned regional newspaper. The article highlights Pharmaceutical Biotechnology as a promising field, applying Biotechnology principles to develop drugs and emphasizes the need for an efficient and economical pharmaceutical system in India.
- **Dr. Sanjeev Das**, Associate Professor, MME, recently shared his views on **Eco-Friendly Casting Technologies Revolutionizing the Aluminium Industry** in a renowned newspaper. The article compares the eco-friendly Force Convection Technology with current energy-intensive casting processes, highlighting its potential to replace traditional methods and advancements made at NIT Raipur's laboratories.
- **Dr. Arindam Bit**, Associate Professor, BME recently shared his views on **Sustainable Innovation: Building a Thriving Ecosystem for Medical Devices** in a renowned regional newspaper. The article delves into how a multidisciplinary engineering approach, coupled with effective government policy intervention, can address India's healthcare crisis.
- **Dr. Anoop Kumar Tiwari**, Associate Professor, DHSS recently shared his insights on **Nurturing a Sustainable Nation through Education and NEP 2020** in a renowned regional newspaper. **Dr. Tiwari** discussed NEP 2020's positive impact on higher education, industries, and students but noted the need for improvement in enrollment of disadvantaged groups, community participation, and bridging the digital divide.
- **Dr. Govardhan Bhatt**, Assistant Professor, CE, recently shared his views on **Augmentation of Youth in Nation through Holistic Education** in the **News Chronicles of Chhattisgarh**. The article explores the urgency of revolutionizing education to fully uplift the youth and unlock their talents, ensuring the nation's progressive growth.
- **Dr. (Mrs.) Aakansha Sharaff**, Assistant Professor, CSE, was a **Technical Session Chair** at the **5th International Conference on Electrical and Electronics Engineering (ICEEE 2024)**, organised by Swinburne University of Technology, VIC 3122, Australia on 11th Sept. 2024.
- **Dr. Monalisa Biswal** Assistant Professor, EE was a **Co-ordinator** at the Workshop on **Challenges in Work Life Balance of Women in Engineering (CWLBWIE 2024)**, organized by **Institute of Electrical and Electronics Engineers Power Electronics Society Women in Engineering (IEEE PELS WIE)** and the **Department of Electrical Engineering, MANIT Bhopal** on 21st Jul. 2024.
- **Dr. Monalisa Biswal**, Assistant Professor, EE was a **Coordinator** at the **Ph.D Summer School on Power Electronic Converters Real Time Control and Applications (PECRTCA-2024)**, organized by the **Institute of Electrical and Electronics Engineers Power Electronics Society (IEEE PELS)**, MP Section and **Department of Electrical Engineering, MANIT Bhopal** held from 20th to 24th Jul. 2024.

Patents

- **Dr. Monalisa Biswal**, Assistant Professor, EE, **Mr. Fanidhar Dewangan**, and **Ms. Saniya Siddiqui** have been awarded a patent titled **A Method and System for High Impedance Arcing Faults (HIAFS) Detection** by the Patent Office, Government of India on 8th Aug. 2024.

Sponsored Research Projects

- The project titled *Cyber Threat Intelligence based Advanced Persistent Threats Detection and Attribution System* by **Dr. G. P. Gupta**, PI & Co-PI, has been sanctioned by **C3iHub (IIT, Kanpur)**. The project is funded with an amount of Rs. 25,23,000/- for a period of 36 months.

Ph.D. Thesis Defended

- **Mr. C. H. Kamesh Rao** defended his Ph.D. thesis entitled *Investigation and Development of Multiple Port Power Electronic Interface for Solar*

Photovoltaic Application under the supervision of **Dr. Ramnarayan Patel**, Associate Professor, EE

and **Dr. Lalit Kumar Sahu**, Assistant Professor, EE on 16th May 2024.

- **Mr. Kshitij Upadhyay** defended his Ph.D. thesis entitled *Study on Sources, Characteristics, and Fate of Microplastics in an Indian Urban Environment* under the supervision of **Dr. Samir Bajpai**, Professor, CE on 24th May 2024.
- **Ms. Smitashree Swain** defended her Ph.D. thesis entitled *Assessment of Socio-Cultural Impact of Tourism on Host Community of Heritage Cities of Orissa* under the supervision of **Dr. Swasti Sthapak**, Professor, DoA on 27th May 2024.
- **Ms. Sonal Banchhor** defended her Ph.D. thesis entitled *Parametric Study on Properties of Alkali activated Slag and Fly ash Concrete* under the supervision of **Dr. Meena Murmu**, Assistant Professor, CE and **Dr. S.V. Deo**, HoD, CE on 28th May 2024.
- **Ms. Aruna Shukla** defended her Ph.D. thesis entitled *A Narratological Approach to the Select Novels of Kamala Markandaya* under the supervision of **Dr. Anoop Kumar Tiwari**, Associate Professor, DHSS on 3rd Jun. 2024.
- **Mr. Md. Moshabbir Alam** defended his Ph.D. thesis entitled *Gender, Identity and Religion among the Nat Women: An Epistemological Understanding* under the supervision of **Dr. Moksha Singh**, Assistant Professor, DHSS on 4th Jun. 2024.
- **Ms. Komal Kashyap** defended her Ph.D. thesis entitled *Facile fabrication of plant mediated nanomaterials for remediation of water* under the supervision of **Dr. (Mrs.) F Khan** and **Dr. Dakeshwar Verma**, DoC on 10th Jun. 2024.
- **Ms. Akanksha Vijay Agrawal** defended her Ph.D. thesis entitled *Anaerobic Digestion of Vegetable and Fruit Waste for Biofuel production* under the supervision of **Dr. P.K. Chaudhary**, Professor, DCE and **Dr. Prabir Ghosh**, Associate Professor, DCE on 11th Jun. 2024.
- **Ms. Tanushri Jaiswal** defended her Ph.D. thesis entitled *Modelling the impacts of Urban Land Use Change on Surface Temperature and Water Resource for future water sustainability in Lower Kharun Catchment, Chhattisgarh* under the supervision of **Dr. D. C. Jhariya**, HoD, DAG on 14th Jun. 2024.
- **Ms. Titikshya Mohapatra** defended her Ph.D. thesis entitled *Fluidized bed Fenton process for the remediation of dye-based wastewater* under the supervision of **Dr. Prabir Ghosh**, Associate Professor, DCE on 21st Jun. 2024.

- **Mr. Awagan Goyal Ramesh Rao** defended his Ph.D. thesis entitled *Hybrid Microgrid Protection under Contingency Scenarios and Communication Data Loss* under the supervision of **Dr. Ebha Koley**, Associate Professor, EE and **Dr. Subhojit Ghosh**, Professor, EE on 21st Jun. 2024.
- **Mr. Ashutosh Kumar** successfully defended his PhD thesis entitled *Enhancing Automated Exploration of Biomedical Named Entity Recognition using Deep Learning Techniques* under the guidance of **Dr. Akanksha Sharaff**, Assistant Professor, CSE on 27th Jun. 2024.
- **Mr. Muzaffar Khan** defended his Ph.D. thesis entitled *Application of Soft Computing techniques for Cardiovascular Risk identification using Photoplethysmogram* under the supervision of **Dr. B.K. Singh**, Associate Professor, BME and **Dr. Neelam Shobha Nirala**, Assistant Professor, BME on 28th Jun. 2024.
- **Mr. Shashank Singh** defended his Ph.D. thesis entitled *Design a Framework for Routing Schemes in Wireless Sensor Networks using Metaheuristic Approach* under the supervision of **Dr. Veena Anand**, Assistant Professor, CSE and **Dr. Sonal Yadav**, Assistant Professor, CSE on 28th Jun. 2024.
- **Mr. Madhu Orunganti** defended his Ph.D thesis entitled *Age Invariant Kinship Verification: Analysis and Solutions* under the supervision of **Dr. Toshan Meenpal**, HoD, ECE and **Dr. Saikat Majumder**, Assistant Professor, ECE on 2nd Jul. 2024.
- **Mr. Abinash Sahu** defended his Ph.D. thesis entitled *Mineralogical and geochemical studies of ultramafic rocks along Babina-Prithvipur transect, Bundelkhand craton, Central India* under the supervision of **Dr. N. Vishwakarma**, Associate Professor, DAG on 8th Jul. 2024.
- **Mr. Neeraj Sunheriya** defended his Ph.D. thesis entitled *Experimental and Numerical Investigation of Performance of Modified Simple Solar Water Heating Systems* under the supervision of **Dr. Satish Dewangan**, Associate Professor, ME and **Dr. Sanjay R. Thool**, ME on 8th Jul. 2024.
- **Ms. Bhawna Patel** defended her Ph.D. thesis entitled *Development of a Novel Model for Structural System Identification using the Roving and Distributed Computing Techniques* under the supervision of **Dr. U. K. Dewangan**, Professor, CE on 10th Jul. 2024.
- **Ms. Monalisa Satapathy** defended her Ph.D. thesis entitled *Bioremediation of Petroleum Refinery Effluent in Sequential MBBR System Inoculated with Mixed Microbial Consortia* under the supervision of

Dr. J. Anand Kumar, Associate Professor, CE on 11th Jul. 2024.

- **Mr. Anuj Rohatgi** defended his Ph.D. thesis entitled *Study of broad-spectrum anti-biofilm agents against Enterobacteriaceae family: An alternative to antimicrobial therapy* under the supervision of **Dr. Pratima Gupta**, Professor, DBT on 12th Jul. 2024.
- **Mr. Manikant Panthi** defended his Ph.D. thesis entitled *Design of security schemes to protect power network from cyber-attack* under the supervision of **Dr. Tanmoy Kanti Das**, Assistant Professor, MCA on 15th Jul. 2024.
- **Mr. Pankaj Jain** defended his Ph.D. thesis entitled *Advance Machine Learning Techniques for Flow Prediction in Multi-exposure Laser Speckle Contrast Imaging* under the supervision of **Dr. Saurabh Gupta**, Assistant Professor, BME on 18th Jul. 2024.
- **Mr. Anoop Kant Shukla** defended his Ph.D. thesis entitled *Heavy metal load on adjoining sediments due to surface dumping of waste rock by open pit mines* under the supervision of **Dr. Manoj Pradhan**, Professor, DME on 18th Jul. 2024.
- **Ms. Neelam Agrawal** defended her Ph.D. thesis entitled *Development of Classification Techniques for Remote Sensing and GIS Data using Machine Learning* under the supervision of **Dr. Himanshu Govil**, Assistant Professor, MCA on 19th Jul. 2024.
- **Mr. Neeraj Kumar** defended his Ph.D. thesis entitled *Wear and Corrosion Behaviour of Aluminium Metal Matrix Composite Reinforced by B4C and MOS2 Particles* under the supervision of **Dr. Manoranjan Kumar Manoj**, Assistant Professor, MME on 18th Jul. 2024.
- **Mr. Appala Naidu K** defended his Ph.D. thesis entitled *Automatic Generation Control in Multi-Area Power System Incorporating Renewable Energy Sources Using Soft Computing Techniques* under the supervision of **Dr. Binod Shaw**, Assistant Professor, EE on 24th Jul. 2024.
- **Ms. Pratik Gopalrao Angaitkar** defended her Ph.D. thesis entitled *Towards the Design and Analysis of an Effective Framework for Protein Sequence Analysis using AI-Based Approaches* under the supervision of **Dr. Rekh Ram Janghel**, Assistant Professor, IT and **Dr. Tirath Ram Sahu**, Assistant Professor, IT on 30th Jul. 2024.
- **Mr. Jagdish Kumar Satyam** defended his Ph.D. thesis entitled the *Electronic-structure and thermoelectric properties of rare earth based half Heusler compounds* under the supervision of **Dr.**

Sapan Mohan Saini, Professor, DoP on 5th Aug. 2024.

- **Mr. Jagdish Kumar Satyam** defended his Ph.D. thesis entitled *Electronic Structure and Thermoelectric Properties of Rare-Earth based Half Heusler compounds* under the supervision of **Dr. Sapan Mohan Saini**, Professor, DoP on 5th Aug. 2024.
- **Ms. Maanvi Bhatnagar** defended her Ph.D. thesis entitled *Artificial Intelligence based Protection Schemes for Power Transmission and Distribution System with Penetration of Renewable Energy Sources* under the supervision of **Dr. Anamika Yadav**, HoD, EE and **Dr. Aleena Swetapadma**, EE on 7th Aug. 2024.
- **Ms. Chinta Durga Prasad** defended her Ph.D. thesis entitled *Optimization Based Solutions for Event Identification in Modern Power Network* under the supervision of **Dr. Monalisa Biswal**, Assistant Professor, EE on 7th Aug. 2024.
- **Mr. Saikat Majumdar** defended his Ph.D. thesis entitled *Representation of Nation in Indian Diasporic Writings: A Critical Study of Selected Novels of Kamala Markandaya, Bharati Mukherjee and Jhumpa Lahiri* under the supervision of **Dr. Sandip Sarkar**, Assistant Professor, DHSS on 20th Aug. 2024.
- **Mr. Numeshwa R Kumar Sinha** defended his Ph.D. thesis entitled *Highly Efficient Low-Cost Lead-Free Perovskite Solar Cells* under the supervision of **Dr. Ayush Khare**, Professor, DoP and **Dr. Dhriti Sundar Ghosh**, DoP on 23rd Aug. 2024.
- **Mr. Sevak Ram Sahu** defended his Ph.D. thesis entitled *Effect of Time Delay in Dynamics and Stability of Ecological Systems: A Mathematical Modeling Study* under the supervision of **Dr. Sharada Nandan Raw**, Associate Professor, DoM on 28th Aug. 2024.
- **Ms. Ghogare Abhijeet Ganesh** defended her Ph.D. thesis entitled *Numerical investigation of indoor comfort and contamination control* under the supervision of **Dr. Shobha Lata Sinha**, HoD, ME and **Dr. Tikendra Nath Verma**, Professor, ME on 28th Aug. 2024.
- **Mr. Abhishek Sharma** defended his Ph.D. thesis entitled *Synthesis and Characterization of Metal Oxide reinforced Silicone Elastomer Nanocomposite* under the supervision of **Dr. S. P. Mahapatra**, Associate Professor, DoC on 30th Aug. 2024.

Research Publications

- **Dr. Akanksha Sharaff**, *Assistant Professor, CSE* and **Mr. Gyananjaya Tripathy**, *PhD Scholar* received acceptance of a book chapter titled **Hyperparameter elegance: fine-tuning text analysis with enhanced genetic algorithm hyperparameter landscape** to be published in **Knowledge and Information Systems**.
- **Mr. Naveen Chauhan**, *NIT Hamirpur*, **Mr. Divakar Yadav**, *Indira Gandhi National Open University, New Delhi*, **Dr. Gyanendra K. Verma**, *Assistant Professor, IT, NIT Raipur*, **Mr. Badal Soni**, *Professor, NIT Silchar*, **Mr. Jorge Morato Lara**, *Carlos III University, Madrid, Spain* published a book titled **Machine Learning, Image Processing, Network Security and Data Sciences in Communications in Computer and Information Science (CCIS, volume 2128)** Springer. This book features the refereed proceedings of the **5th International Conference on Machine Learning, Image Processing, Network Security, and Data Sciences (MIND 2023)**, held in Hamirpur, India, from 21st to 22nd Dec. 2023.
- **Dr. Tripti Swarnkar**, *Professor, MCA* published a journal titled **Genomic characterization and distribution of XDR Klebsiella pneumoniae ST15 carrying blaOXA-181 on ColKP3 plasmid from an ICH patient in eastern India: A global comparative analysis (1 Sep)** in *Gene Reports* 36 (2024): 01978Elsevier.
- **Dr. Arepalli Peda Gopi**, *Associate Professor, VNITSW*, **Dr. K. Jairam Naik**, *Assistant Professor, CSE* and **Dr. Jagan Amgoth**, *Professor, CSE, BVRIT* have published a journal titled **An IoT Based Water Quality Classification Framework for Aqua-Ponds Through Water and Environmental Variables Using CGTFN Model**. The journal was published in the *International Journal of Environmental Research*, Springer Nature, 2024.
- **Dr. Krishna Prasad Madasu**, *Associate Professor, DoM* and **Mr. Amit Kumar**, *Research Scholar, DoM* received the acceptance of a book chapter titled **Non-Newtonian fluid flow between Parallel Plates filled with an Anisotropic Porous Medium** to be published in *Archive of Mechanical Engineering*.
- **Dr. Krishna Prasad Madasu**, *Associate Professor, DoM* and **Mr. Amit Kumar**, *Research Scholar, DoM* received the acceptance of a book chapter titled **Annular generalized Couette flow of Immiscible Viscous fluids in an Anisotropic Morous medium** to be published in *Journal of the Brazilian Society of Mechanical Sciences and Engineering*.

Students' Corner

- **Ritwik Halder**, *Alumnus (DoA/2024)* was awarded the **Best Thesis Award 2024** by **Mumbai-based Fold Design Studio**. Ritwik's dissertation on **Designing Portable Housing Modules for Labourer Community**, was supervised by **Dr. Vivek Agnihotri**, *Assistant Professor, DoA* focused on designing cost-effective, safe, and climate-

responsive portable housing for labourers. The prototype aimed to improve living conditions and productivity.

- **Ayush Mishra**, *3rd Sem., EE* secured **1st** position in the **For the motion** category and **Ishita Tewari**, *3rd Sem., MME* secured **2nd** position in the **Against the motion** category in the prestigious **Hindi Debate Competition**

organized by **Paryavaran Urja Times** in collaboration with the **Press Club of Raipur** and **Rotary Club of Raipur East** on 11th Jul. 2024, in observance of World Population Day. The debate focused on the theme **India's Increasing Population- Disaster or Opportunity**.

Club/Committee Activities

Aura: The Photography Exhibition by Click Club



Click Club- The Photography Club, NIT Raipur organized a special **three-day** exhibition titled **Aura** from 19th to 21st Aug. 2024 on occasion of **World Photography Day** which

showcased the creative talents of the club's members, offering a vibrant exploration of visual art and storytelling through photography. The inauguration ceremony took place in the presence of **Dr. A. B. Soni**, *Director (I/C), NIT Raipur*, as the *Chief Guest*. **Dr. P. Y. Dhekne**, *Registrar*, **Dr. Manoj Pradhan**, *Professor, DME*, **Dr. Nitin Jain**, *Dean (SW)*, faculty members, and students were also present during the event. The event was organized under the guidance of **Dr. S. Sanyal**, *Faculty In-charge, Click Club*. The dignitaries, along with **Dr. Soni** inspected the exhibition. **Dr. Sanyal**, along with the members of the **Click Club** provided detailed insights into the various categories of

photographs on display. **Dr. Soni** commended the club members for their dedication and hard work in organizing such a visually captivating exhibition and lauded their efforts in bringing together such a diverse array of photographic art. The exhibition was not just a display of photographs, it was a platform for dialogue, inspiration, and creative exchange, leaving a lasting impression on all who attended.

Annual Photography Workshop by Click Club



Click Club, NIT Raipur organized a **Two-Day Annual Photography Workshop** on 14th and 15th Sep. 2024. The event aimed to impart theoretical and practical knowledge of photography to aspiring photographers. It was inaugurated by **Dr. S. Sanyal, Faculty In-charge, Click Club**. **Dr. Sanyal**, during the inauguration, reflected on the journey of Click Club. On first day of the workshop began with the screening of a video that showcased Click Club's work. The workshop's sponsor, **Ayush Agrawal** from **Tulsi Enterprises**, spoke about the significance of photography in today's social media-centric world. Technicals about camera handling, colour theory, editing, lighting session, and videography session was organised. Day 2 of the workshop featured a special guest speaker, **Dr. Dharmendra Singh Saini, Alumnus, NIT Raipur** specializing in astro photography and long exposure. He discussed photography techniques and captivated the audience with his collection of landscape and microphotographs. A highlight was a star trail shot from Sirpur, which he explained in detail. The event concluded with a hands-on session and a photo walk, giving participants practical insights into photography.

Speaker Session on Startup Ecosystem by E-Cell

E-Cell, NIT Raipur, in collaboration with **Startup Grind Raipur** organised a speaker session focused on strengthening the startup ecosystem in the Institute which aimed to encourage and guide the students in contributing to the development of a robust startup environment. The keynote speaker at the event was **Mr. Yash Agrawal, Founder, GimBooks**. The speaker session was successfully conducted

under the guidance of **Dr. Chandrakant Thakur, Faculty In-Charge, E-cell**. **Mr. Yash** expressed his views that entrepreneurs must always be prepared for changing market conditions and technological advancements and suggested that flexibility and adaptability are essential for business success. He emphasized a customer-first approach, continuous learning and improvement, teamwork, and leadership as key factors in starting a successful startup.



Mr. Yash has streamlined GimBooks' business model and utilized digital marketing—social media, SEO, and email marketing—to attract customers. This event marked a significant step towards strengthening the startup ecosystem at NIT Raipur, providing students with new opportunities and guidance in the field of entrepreneurship.

Debate Competition by Go Green



Go Green-The Eco Social Committee, NIT Raipur hosted **Hindi Debate Competition** on 6th Jul.2024 on the theme **Bharat ki Badhti Jansankhya- Aapada ya Avasar**. The event aimed to foster critical thinking and dialogue among students. Several participants showcased their analytical and oratory skills, debating whether India's growing population is a crisis or an opportunity.

Essential session on Climate Change and Solar Energy by Go-Green Committee



Go-Green - The Eco Social Committee, NIT Raipur organized a session on **Climate Change and Solar Energy**

with **Solar Man of India Prof. Chetan Singh Solanki, IIT Bombay** on 21st Aug. 2024. The event was graced by the presence of **Dr. Nitin Jain, Dean (SW)**, **Dr. S. Sanyal, Professor, ME**, faculty members, and students. The program was organized under the guidance of **Dr. D. C. Jhariya, HoD, DAG**, **Dr. Govind P. Gupta, Assistant Professor, IT** and **Dr. Kabita Biswas Sharma, Assistant Professor, DoA**. **Dr. Solanki** outlined the critical challenges posed by climate change, including increased floods, rising forest fires, and emphasized the urgency of limiting global warming to 1.5°C, highlighting that energy misuse is at the heart of these issues. **Dr. Solanki** introduced the **AMG approach–Avoid, Minimize, Generate** as a practical framework to address the energy crisis and urged reducing energy use by one-third, even from renewable sources, minimizing consumption through efficient appliances, and generating only a third of energy locally. The session concluded with a call to action, focusing on energy literacy, Wrinkle Day, and efforts to reduce electricity consumption. The programme ended with a vote of thanks by **Dr. Gupta**.

Green Ganesha: The Idol making Competition



Go Green-The Eco Social Committee, NIT Raipur organized a **Green Ganesha: An Eco-Friendly Idol-making competition** on 8th Sep. 2024, to commemorate Ganesh Chaturthi. The event was held under the supervision of **Dr. D. C. Jhariya, HoD, DAG**, **Dr. Govind P. Gupta, Assistant Professor, IT**, **Dr. Kabita Biswas Sharma, Assistant Professor, DoA**. The primary objective of the competition was to raise awareness about the environmental and health hazards caused by chemicals used in conventional Ganesha idols and to promote the use of natural earthen idols over those made from Plaster of Paris. Participants were provided with earthen soil, tools, and natural colours like turmeric and vermilion to create their eco-friendly idols.

I-Talk by I-Cell

I-Cell, NIT Raipur organised an **I-Talk** session titled **Startup ecosystem in silicon and career trajectories post**

NIT on 6th Aug. 2024. The guest speaker was **Mr. Archit Ojha, Product Manager, NucleusTeq and an Alumnus**.



The event was graced by the presence of **Dr. Saurabh Gupta, Faculty In-Charge, I-Cell**. **Mr. Ojha** explained that he did things differently and shared his journey, highlighting his experiences and experiments that could offer valuable lessons. He encouraged students to explore options, build connections, and leverage market gaps for innovative ideas. Following, a small question and answer session.

Engineers' Day Quiz Contest by Interact and Sahyog



Interact Club in collaboration with **Sahyog, the Mentorship Club, NIT Raipur** organized a quiz contest on 15th Sep. 2024 on Engineers' Day. In the first round of the quiz, participants answered 15 questions, with the top 6 teams progressing to the final buzzer round. **Anirudh Dubey** and **Oje Verma** emerged as the winners, while **Naman Bhatnagar** and **Aayush Agarwal** secured the 2nd position. **Rishabh Bhawnani** and **Sarthak Sharma** bagged the 3rd spot.

Rally and Seminar by NCC



National Cadet Corps (NCC), NIT Raipur organised a **Drug-Free India Rally** followed by a seminar on **Drug-Free India** on 26th Jun. 2024 in honour of the **International-day against Drug Abuse and illicit trafficking**. The rally as well as the seminar was organised in collaboration with **Dean (SW) office**. The event was graced by the presence of **Dr. N.V. Ramana Rao, Director, NIT Raipur**, **Dr. Nitin Jain, Dean**

(SW), NIT Raipur, **Dr. Neeraj Manhas**, Faculty In-charge, NCC, **Dr. Shrish Verma**, Dean (Academics) and **Dr. Samir Bajpai**, Head, CDC, NIT Raipur. The Speaker for the event was **Dr. Nishant Sahu**, MD, Psychiatry. The seminar was hosted by **Dr. Soumya Agrawal**, Medical Officer. Scholars, students and faculty members were also present. **Dr. Agrawal** discussed Drug Abuse Day and its consequences. **Dr. Rao** emphasized raising awareness about drug addiction among youth and its societal impacts. **Dr. Sahu** highlighted the government's goal of a Drug-free India and covered reasons for drug use, such as peer pressure and depression and for prevention, he recommended rejecting drugs, seeking help, and spreading awareness.

Partition Horrors Remembrance Day



National Service Scheme (NSS) and Abhinay – The Dramatics Club, NIT Raipur celebrated Partition Horrors Remembrance Day on 14th Aug. 2024. On this occasion, a Poster making competition was organized by NSS Club and street play was performed by Abhinay Club. **Dr. N.V. Ramana Rao**, Director, NIT Raipur, **Dr. Shrish Verma**, Dean (Academics), **Dr. Samir Bajpai**, Head, CDC, **Dr. Nitin Jain**, Dean (SW), faculty members and students were present in the program. This program was organized under the guidance of **Dr. Govardhan Bhatt**, Faculty In-Charge, NSS and Abhinay Club. **Dr. Rao** inaugurated the poster exhibition. A street play titled **Zahar Ka Ghada** was performed by Abhinay. The pain of partition was expressed through this play by the members of Abhinay.

Celebration of Birth Anniversary of Munshi Premchand ji by Rajbhasha



Rajbhasha Samiti, NIT Raipur celebrated the birth anniversary of Munshi Premchand ji on 31st Jul. 2024. **Dr. N. V. Ramana Rao**, Director, NIT Raipur, was the Chief

guest at the event. **Dr. B. K. Sahoo**, HoD, DoP, **Dr. Sadhana Agrawal**, Professor, DoP, **Dr. K. S. Ojha**, Assistant Professor, DoP along with other faculty members and students were present during the event. The program was organized under the guidance of **Dr. S.M. Saini**, Faculty In-Charge, Rajbhasha Samiti, NIT Raipur. The program started by garlanding the picture of **Munshi ji**. After this the program started with a detailed introduction of the life of **Premchand ji**. **Dr. Rao** said that the Literature of Premchand ji like *Godaan*, *Idgaah* and *Namak ka Daroga* etc. are relevant even in the present times. He said that Munshi Premchand ji's literature is connected to the people and we should take inspiration from his life. After this the members of the Rajbhasha Samiti expressed their views on some special creations of **Munshi Premchand's** literature like *Poos ki Raat*, *Thakur ka Kuan* etc.

Aahwan'24



Rajbhasha Samiti, NIT Raipur commemorated Hindi Diwas by organizing Hindi Pakhwada Aahwaan, from 9th to 23rd Sept. 2024. The inauguration, held on 9th Sept. 2024, was graced by the presence of Chief Guest **Dr. N.V. Ramana Rao**, Director, NIT Raipur, along with **Dr. Nitin Jain**, Dean (SW), and other distinguished faculty members. The event was organized under the guidance of **Dr. S.M. Saini**, Faculty In-Charge, Rajbhasha Samiti. **Dr. Rao** emphasized the importance of embracing Hindi with pride and encouraged youth to actively promote the language. Throughout the fortnight, several events and competitions were organized. For faculty members, competitions like **Quiz**, **Shabd Rachna** (Word Formation), **Kahani Poori Karo** (Story Completion), and **Kavita Vachan** (Poetry Recitation) were held. In these competitions, **Dr. Suraj Kumar Mukti**, Associate Professor, ME secured 1st position in both the **Kavita Vachan** and **Shabd Rachna** competitions, while **Dr. Ayush Khare**, Professor, DoP and **Dr. Rajan Kumar**, Assistant Professor, EE also performed remarkably, securing 2nd and 3rd places respectively in **Kavita Vachan** and **Kahani Poori Karo**. **Dr. Vivek Agnihotri**, Assistant Professor, DoA secured 2nd place in **Shabd Rachna**. Also, in the **Quiz** competition, **Team C**, consisting of **Dr. Nitin Jain**, **Dr. Govardhan Bhatt**, Assistant Professor, CE, **Dr. S. K. Mukti**, Associate Professor, ME and

Dr. Ajay Vikram Ahirwar, Associate Professor, CE emerged victorious. Students participated in exciting activities such as **Nukkad Natak** (Street Play), **Chitra Katha Lekhan** (Picture-based storytelling), **Treasure hunt**, **Dodgeball**, **Sack race**, and **Poetry recitation**. In **Dodgeball**, the top three winners were **Jagmohan Jaiswal**, **Raj Vikram Tiwari**, and **Krishna**. In **Kavita Vachan**, the winners were **Sarthak Pandey**, who took 1st position, **Harsh Tripathi** stood 2nd, and **Tanay Rathi** on 3rd. The **Chitra Lekhan** competition saw **Harshit Jhariya** take 1st place, followed by **Deepika Sinha** and **Muskan Sarkar** in 2nd and 3rd place. In the **Sack race** for boys, **Abhishek Kumar**, **K Soham**, and **Lakshman Ram** secured the top three positions, while in the girls' category, **Shikha Tiwari**, **Pawni Agrawal**, and **Sakshi Gangwani** took 1st, 2nd, and 3rd place respectively. The event culminated on 23rd Sept. 2024 with a **Prize distribution** ceremony. **Dr. Mohit Jaiswal**, Assistant Professor, CE concluded the event by proposing the vote of thanks.

Drone Technology Workshop by ROBOTiX Club and Robobox



Robotix Club, NIT Raipur in collaboration with **The Robobox** conducted a workshop introducing students to the fundamentals of drone technology. With over 200 participants, the event covered drone assembly, working mechanisms, and practical applications, sparking innovation and hands-on learning.

National Sports Week'24



Department of Sports, NIT Raipur and **Shaurya - The Sports Committee** organized the closing and prize distribution ceremony of the **National Sports Week'24**, which ran from 26th to 31st Aug. 2024. The event was graced by the presence of **Dr. N. V. Ramana Rao**, Director, NIT Raipur, **Dr. D. Sanyal**, Dean (FW), **Dr. Nitin Jain**, Dean (SW), **Dr. H. K. Narang**, Chief Faculty In-Charge,

Department of Sports, **Dr. Alfia Bano** and **Dr. S.D.V.S.S. Varma Siruvuri**, Professor In-Charges, **Department of Sports**, **Mr. Kamal Singh Maan**, Sports Officer, and other faculty members, staff and students. During this, various sports competitions were held for the faculty, staff and students, including **Badminton (Singles and Doubles)**, **Table Tennis (Singles and Doubles)**, **Volleyball** and **Chess**. Additionally, fun events like a **Cycling Rally**, **Tug of War** and **Dodge Ball** were also organized for the faculty and students. **Dr. Rao** emphasized the importance of sports in our lives and explained how sports are essential for the overall development of an individual. Medals were awarded to the winners of various sports. In the sports organized for the faculty, **Mr. Suresh Dua**, Technical Assistant, MME stood 1st in the **Cycling competition**, **Mr. Abhijeet Kumar** stood 2nd and **Dr. Suraj Kumar Mukti**, Associate Professor, ME stood 3rd. In **Badminton (Singles)**, **Dr. Rajesh Doria**, Assistant Professor, IT stood 1st, **Mr. Heera Singh**, Temporary Faculty, EE stood 2nd and **Mr. Dharmendra Pandey**, Technical Assistant, CSE and **Mr. Abhijeet Kumar** stood 3rd. In **Badminton (Doubles)**, **Dr. Doria & Mr. Pandey** stood 1st, **Dr. Lalit Sahu**, Assistant Professor, EE & **Mr. Heera Singh** stood 2nd and **Dr. D.C. Jhariya**, HoD, DAG, **Mr. Devendra Soni**, Technical Assistant, ECE and **Mr. Rakesh Chaudhary**, Assistant Registrar, **Mr. Abhishek Indwar**, Assistant Registrar stood 3rd. In **Chess**, **Mr. Vikas Kumar Vidyarthi**, Assistant Professor, CE stood 1st, **Mr. Kapil** stood 2nd and **Mr. Bhanu Pratap Singh**, Stenographer and **Dr. Amit Raj Singh**, Associate Professor, ME stood 3rd. In **Table Tennis (Singles)**, **Dr. Sayon Pramanik**, Assistant Professor, DoA stood 1st, **Dr. Harendra Narang**, Assistant Professor, ME stood 2nd and **Dr. Amit** stood 3rd. In **Table Tennis (Doubles)**, **Dr. Dharampal**, Assistant Professor, DCE and **Dr. Sandeep Chouksey**, Assistant Professor, CE were the **Winners**, **Dr. Amit** and **Dr. Mukti** stood 2nd and **Dr. Pramanik** and **Mr. Sarthak** stood 3rd. In **Table Tennis (Women's Category)**, **Dr. Alfia Bano**, Assistant Professor, CE got 1st place and **Ms. Nisha Netam**, Assistant Professor, ME got 2nd place. In the competitions organized for the students, **Team Dry Day Hoopers** secured 1st place in **Basketball** and **Team Aura** secured 2nd place. Whereas in **Volleyball**, **Team Chemical** secured 1st place, **Team Animesh** secured 2nd place and **Team Navdeep** secured 3rd place.

Engineers' Day by Shaurya



Shaurya-The Sports Committee, NIT Raipur successfully hosted an engaging Engineers' Day event on 15th Sep. 2024, celebrating the engineering profession through a series of interactive games. The event featured activities such as a

Treasure Hunt, Beg Borrow & Steal, and Arm Wrestling. Faculty members also participated in events like Stack Attack and Musical Chairs. The event concluded with the distribution of mementos and vouchers to the winners.

Alumni Achievements

- **Mr. Achyut Ghatak, (1989/Mining)** was selected as **Director (Technical)** in **Coal India Ltd. Alumni Association, GEC-NIT Raipur** wishes him a happy, healthy, prosperous life full of such great achievements.
- **Mr. Devendra Kumar Tuli, (1984/Civil)** was promoted as **Executive Director (Civil)** in **CSPTCL. Alumni Association, GEC-NIT Raipur** wishes him a happy, healthy, prosperous life full of such great achievements.

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.

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.**

How to Contribute:

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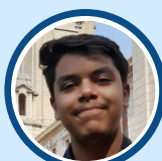
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