THE QUARTERLY NEWSLETTER OF NIT RAIPUR









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ISSUE II













QUARTERLY GLIMPSES



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NIT RAIPUR IN MEDIA

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NIT Raipur holds voter awareness campaign

महानदी बेसिन पर तीन वर्ष अध्ययन करेंगी रायपर-राउरकेला एनआइटी

NIT Raipur conducts ROBOFEST'24

competition and gave solutions to problem statements like pick and drop, visually blind helper

won the first place and Team Megatron was second. In Roboquiz, questions were



World's first POSIT based GPGPU Centre coming-up at NIT Raipur



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NIT organises interactive sessions to improve mental health

NIT Raipur hosts Student Conference on World Water Day









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NIT's workshop on 'Mechanics and Materials for Biomedical Applications' concludes

NITRRFIE inks MoU with PITEF

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NIT Raipur holds interactive session under late Manghandas, late Sundari Devi Hablani Memorial Scholarship Initiative

One day Sensitization Workshop on Standardization' at NIT Raipur

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NIT Raipur organises Cricket Premier League NIT organises speech competition on 'The Greatness of Dr B R Ambedkar'

अब एनआईटी कैंपस में घूमती नजर आएगी गोल्फ कार्ट

यूरिन से हो सकेगी शुगर लेवल की जांच

खोज: एनआईटी रायपुर के केमिस्ट्री डिपार्टमेंट के प्रोफेसर और शोधार्थी ने तैयार की शुगर लेवल टेस्ट स्ट्रिप

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NIT Raipur holds interactive session under late Manghandas, late Sundari Devi Hablani Memorial Scholarship Initiative

NIT Raipur's students procure offers from MathWorks and GE healthcare

NIT Raipur, Excalibur Management Solutions Private Limited ink MoU

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Alumni Assn donates Golf Cart, Garden Benches to NIT Raipur

NITs of Raipur, Rourkela to take up 3-year study of Mahanadi River Basin

NTT, UNICEF and Corporates Join Hands for Advancing Social Change

NIT Raipur hosts insightful talk on India's Foreign Policy





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Alumni Assn donates Golf Cart, Garden Benches to NIT Raipur

सिन पर तीन वर्ष अध्ययन

Institute News

Commemorated Dr. B.R. Ambedkar's 133rd Birth Anniversary



NIT Raipur commemorated the 133rd Birth Anniversary of Bharat Ratna Babasaheb Dr. B.R. Ambedkar on 14th Apr. 2024. Dr. (Mrs.) A. B. Soni, Director (I/C), NIT Raipur presided over the glorious celebration. The celebration was organized by Dr. S.K. Mukti, Associate Professor, ME, Dr. B. Bag, Assistant Professor, EE, Dr. N. Netam, Assistant Professor, ME, Dr. H. Bikrol, Associate Professor, MCA, Dr. D.C. Jhariya, Associate Professor, DAG, Mr. T.L. Thakur, and Mr. A.K. Dongre. The chief guest of the event was Shri Ratan Lal Dangi, Inspector General of Police, Raipur.

The program commenced with an inaugural address by **Dr. Bikrol**. Dignitaries present lit candles as a mark of respect to **Bharat Ratna Babasaheb Dr. B. R. Ambedkar**. A documentary portraying the remarkable life and achievements of **Dr. Ambedkar** was screened. **Dr. Soni** highlighted her commitment to women's empowerment and gender equality, inspiring all present to continue her work in this regard. **Shri Dangi** recalled Baba Saheb's greatness and emphasized that he served as a beacon of motivation for everyone. The event ended with a vote of thanks by **Dr. Mukti**.

Talk on India's Foreign Policy under the SAMEEP Scheme



NIT Raipur conducted a talk session under the Student and Ministry of External Affairs Engagement Programme (SAMEEP) scheme. The session featured Mr. G. V. Srinivas, Additional Secretary (Latin America and Caribbean), Ministry of External Affairs, New Delhi, and an Alumnus (1989), who addressed the students and faculty on the key features of India's foreign policy in relation to students and

academics. **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur*, **Dr. Shrish Verma**, *Dean (Academics)*, faculty members, research scholars and students were also present during the session. The event was coordinated by **Dr. T. Meenpal**, *HoD*, *ECE*.

Dr. Verma addressed Mr. Srinivas and emphasized the importance of understanding the nation's foreign policy. **Dr.** Rao spoke about the institute's involvement in initiatives like the Gyan, Spark, and Vajra Programs and extended his gratitude to Mr. Srinivas for his presence and valuable insights. Mr. Srinivas motivated the students to bridge existing gaps, elevate the institute to new heights and emphasized India's significant role in global affairs. Followingly, a lively Q&A session was conducted where Mr. Srinivas answered all the participants' queries. **Dr.** Meenpal concluded the session with a vote of thanks.

Workshop and Meeting on Condition Assessment & Management (CAMP) of Mahanadi River Basin



NIT Raipur and NIT Rourkela will jointly take up a 3-year study on Mahanadi River Basin for the Union Ministry of Jal Shakti. The study is a part of the Ministries initiative to conduct similar studies for preparing River Basin Management Plans for major Indian Rivers such as Mahanadi, Cauvery, Narmada, Godavari, Krishna, and Periyar. An official inauguration of Centre for Mahanadi River Basin Management & Studies (cMahanadi) & Orientation Workshop on Condition Assessment and Management Plan for Mahanadi River Basin was done at NIT Raipur, which was inaugurated jointly by **Dr. Vinod Tare**, Founding Head, cGanga & Professor, IIT Kanpur, Dr. N. V. Ramana Rao, Director, NIT Raipur and Dr. K. Umamaheshwar Rao, Director, NIT Rourkela in online mode. Prof. Samir Bajpai, Centre head, NIT Raipur and Prof. Kishanjeet Kumar Kathua, Center head (cMahanadi), NIT Rourkela along with team members from NIT Rourkela and cMahanadi NIT Raipur team members, Dr. Ajay Vikram Ahirwar, Dr. Ishtiyaq Ahmad, Dr. Manikant Verma, Dr. Vikas Kumar Vidyarthi and Dr. Chandan Kumar Singh were present in the inaugural of the centre. Prof. Tare announced that NIT Rourkela and NIT Raipur would conduct the extensive study

on the Mahanadi-river basin in **Odisha** and **Chhattisgarh**. Their study would assess the present conditions of the river and collect data on several parameters and recommend future directions to Mahanadi River Basin Management.



The First Joint Review Committee (JRC) meeting for the Condition Assessment and Management Plan (CAMP) of the Mahanadi River Basin was held at NIT Raipur on 17th May, 2024. The distinguished guests included Prof. Dr. Vinod Tare, Chairman Emeritus Professor, CGanga, IIT Kanpur, Mr. Pradeep Agarwal (IAS), Joint Secretary, National River Conservation Directorate, Mr. N. Ashok Babu (IRS), Director, National River Conservation Directorate, Dr. S.K. Shrivastava, Scientific F, National River Conservation Directorate and Mr. Rajeev Kumar Mittal (IAS), Director General, National Mission for Clean Ganga. Dr. Ishtiyaq Ahmad, Assistant Professor, NIT Raipur, officially received Dr. Vinod Tare, Mr. Pawan Kataria, Assistant Registrar. NIT Raipur, received Mr. Pradeep Agarwal, Mr. N. Ashok Babu and Mr. Rajeev Kumar Mittal, and Mr. Shubham Bareth, Stenographer, NIT Raipur, received Dr. S.K. Shrivastava. The meeting was also attended by Dr. N. V. Ramana Rao, Director, NIT Raipur along with the heads of centres and representatives from both NIT Rourkela and NIT Raipur.

Key discussions at the meeting revolved around the regulatory framework for environmental protection. The National Water Quality Monitoring Program was highlighted, emphasizing its role in assessing water quality. River conservation initiatives, including the Ganga Action Plan and Namami Gange, were reviewed. Additionally, the development of Condition Assessment and Management Plans (CAMP) for major river basins was discussed. Other initiatives mentioned included the ecological assessment of rivers by the Wildlife Institute of India and an M. Tech. program at IIT Roorkee.

Technical cooperation with Japan in sewage sludge management was also noted. Overall, the meeting underscored the commitment to river conservation and pollution control through collaborative efforts, regulatory frameworks, and innovative programs and initiatives.

NIT Raipur celebrated International Yoga Day

NIT Raipur celebrated the 10th International Yoga Day with an event at Science College Ground on 21st Jun. 2024. The occasion was graced by the presence of Shri Vishnu Deo Sai, Honourable Chief Minister, Government of Chhattisgarh who attended as the Chief Guest. Dr. N.V. Ramana Rao, Director, NIT Raipur, led the Yoga Protocol which was followed by students as well as faculty members. Dr. P.Y. Dhekne, Registrar, Dr. Nitin Jain, Dean (SW), along with faculty members, research scholars, and students, actively participated in the State-Level Yoga Mahotsav. Following this, an event was organized at the institute to commemorate the 10th International Yoga Day. Dr. Rao, Dr. Shrish Verma, Dean (Academics), Dr. Dhekne, and Dr. Jain were present during the event. During this event, Faculty members, their family members, scholars and students were also in attendance. The event was coordinated by Dr. Jain, Dr. Manju Shukla, Yoga Faculty, DHSS, and Dr. Suraj Nishad, Yoga Faculty, DHSS. Dr. Shukla highlighted the significance of Yoga Day, stating that yoga foster's health, discipline, and balance.



Dr. Verma discussed the true meaning of yoga, explained that it signifies **union** and also highlighted the importance of harmonizing our body, mind, and soul. **Dr. Dhekne** reminisced about his past experiences with yoga, sharing the practice brings him a sense of calm and emphasized that it improves overall health. **Dr. Rao** congratulated the organizing team for the event, emphasizing that yoga is not merely an exercise but a holistic approach to achieving a healthy mind and body. During the event, the scholars and the faculties children performed yoga on the spiritual songs *Namo-Namo Ji Shankara* and *Adiyogi*. With this, the yoga camp which was going on for a month in NIT Raipur also concluded. The event concluded with a vote of thanks by **Dr. Sandip Sarkar**, *HoD(I/C)*, *DHSS*.

NIT Raipur, UNICEF, and Corporates Join Hands for Advancing Social Change in Nudge Summit 2.0 NIT Raipur in collaboration with UNICEF jointly hosted The Chhattisgarh Nudge Summit 2.0, organized on 10th May 2024 where major corporations in Chhattisgarh will work to bring about social change in the state. The Corporate Social Responsibility (CSR) funds from these companies will be utilized to support the government in reducing malnutrition, anemia, child mortality, and promoting critical behaviors among families and communities. An innovative platform, *Think-So*, the first of its kind in India, was launched in this event as a joint initiative of Corporates, UNICEF, and NIT Raipur and aims to foster positive social impact by facilitating knowledge sharing, and encouraging collaboration among CSR bodies.



Dr. Govardhan Bhatt, Assistant Professor, CE underscored the institution's enduring partnership since 2015 with UNICEF, reflecting on the genesis of the summit and BIU. Chief Guest Mr. Anand Shekhar, Additional Director, NITI Aayog talked about the presence of high level of will in India for citizen-centric initiatives. He stressed the need for alignment among civil societies, the government, and academia to deliver what people aspire to. Mr. Job Zachariah, Chief, UNICEF Chhattisgarh, said that corporates can play a critical role in changing key behaviors in families and the community and further added funds in Chhattisgarh can be utilized for behavioral change and community engagement. Dr. N. V. Ramana Rao, Director, NIT Raipur invited participants to share areas and needs where technology could act as a catalyst for social change.

The summit was attended by 150 participants from various corporates, NGOs, civil society, academia, and development professionals. The day was filled with plenary sessions, experience-sharing from corporations like the **Vedanta Group**, **Hira Group**, **UltraTech**, **IB Group**, **Jindal** and **leading NGOs** focused on behavior change.

Faculty Induction Program

NIT Raipur in collaboration with National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal organized a One Week Faculty Induction Program for the newly joined faculty members from 3rd Jun. to 8th Jun. 2024. The program was organized under the guidance of Dr. D. Sanyal, Dean (FW) and coordinated by Dr. Mridu Sahu & Dr. Lata S. B. Upadhyay, Associate Deans (FW).

Throughout the program, expert speakers featuring Dr. Subrat Roy, Professor & Head, Dr. A.S. Walkey, Professor & Head, and Dr. Parag Dubey, Professor & Head, from NITTTR Bhopal graced us with their presence. In the valedictory session, the esteemed Chief Guest Dr. N.V. Ramana Rao, Director, NIT Raipur encouraged participants to leverage the resources and opportunities available at NIT Raipur to further their academic and research pursuits. Dr. Sanyal shared insights on various topics covered including the National Education Policy (NEP) 2020, Technology Integration in Teaching methodologies, Outcome-based Education and Question Paper Formulation. Various speaker sessions were also organized featuring expert speakers from NITTTR Bhopal. Dr. Roy underscored the importance of adapting to formal government structures and emphasized the relevance of the induction program in aligning with NEP 2020 objectives, equipping participants with the necessary skills to excel in their roles. Dr. Dubey highlighted the significance of formal training for government employees. Dr. Walkey shared his wealth of experience and emphasized the noble essence of the teaching profession.



Upon completion of the program, the participants excelled in assessing the NEP-2020's impact on different aspects of modern education. The Faculty Induction emphasized the importance of lifelong learning and collaboration between **NIT Raipur** and **NITTTR Bhopal** for advancing technical education. As the event drew to a close, certificates were distributed to all attendees.

Inaugural Function of the New Computational Lab in Department of Mathematics



NIT Raipur's first Computational lab of the Department of Mathematics was inaugurated on 13th May 2024 by **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur* in the presence of **Prof.**

S. Verma, Dean (Academics), Dr. D. Mishra, HoD, DoM, Prof. S. Gupta, (Retired), Prof. R. P. Pathak, (Retired), Prof. B. K. Sharma, Heads of a few other Departments, several officials and staff of E-State, Stores, and Accounts office, and all the dept. students present on that day and faculty members. Chief guest Dr. Rao inaugurated the new lab which was followed by the opening of a painting of Indian mathematician Srinivasa Ramanujan. In conjunction with the opening of the new lab, Dr. Rao inaugurated the new HoD cabin of the Department of Mathematics and on the auspicious occasion, he gifted an Apple MacBook Pro that was procured from a research project (completed as on date) of a Math Dept faculty to Mr. Ranit Banerjee, an MSc Student who demonstrated exceptional performance in the first-year exams.

Guest Lecture on Generating Sensitisation towards the Sexual Harassment of Women



Internal Complaints Committee (ICC), NIT Raipur organized a Guest lecture titled Generating Sensitisation towards the Sexual Harassment of Women at Workplace Act 2013 on 19th Apr. 2024. Dr. Rajput Shraddha Bhanusingh, Assistant Professor, Hidayatullah National Law University Raipur graced the session. The program aimed to raise awareness of gender-sensitive issues and welfare legislation for women's well-being in the workplace. It promoted gender equality and provided knowledge on preventive/protective measures for addressing challenges faced by women and girls in the workplace.

Session under the Late Shri. Manghandas & Late Smt. Sundari Devi Hablani Memorial Scholarship Initiative

Student Welfare Section, NIT Raipur hosted an interactive session with the esteemed **Hablani family**, patrons of the institute, on 26th Apr. 2024. Their generous contribution facilitated \$10,000 in scholarships for 94 deserving students, part of the **Late Sh. Manghandas & Late Smt. Sundari Devi Hablani Memorial Scholarship initiative**. The esteemed guests included **Dr. Nitin Jain**, *Dean* (SW), along with the members of the **Hablani family**. **Dr. Jain** welcomed guests

and commended their generosity in covering educational expenses for underprivileged students.



The Hablani family expressed gratitude to attendees, sharing the scholarship's inspiration. They highlighted **Dr. Hari Hablani's** journey as an alumnus who initiated the scholarship to honor his father's belief in education's power to overcome poverty and his mother's compassionate strength. **Mr. Mohan Hablani** passionately recounted **Dr. Hari's** academic journey from **NIT Raipur** to prestigious institutions like **IISc** and **NASA**, emphasizing the supportive faculty's role in shaping his success. He echoed his brother's message, urging students to pursue passions relentlessly and highlighting education's importance for the nation. Finally, an active Q&A session was held followed by a vote of thanks by **Dr. M. K. Prasad**, *Associate Dean (SW)*.

Sensitization Workshop on Standardization



NIT Raipur in association with Bureau of Indian Standards (BIS) jointly organized a session on One Day Sensitization Workshop on Standardization on 13th May 2024. The ceremony was graced by esteemed dignitaries, including Chief Guest Shri Tapas Dasgupta, Chief General Manager, Bhilai Steel Plant, and Chief Patron Dr. N. V. Ramana Rao, Director, NIT Raipur, and Guest of Honour Shri Sumit Kumar, Head, BIS Raipur Branch Office, alongside Dr. Prabhat Diwan, Dean, (R&C), Dr. M. K. Tripathi, Associate Dean (R&C), Dr. R. K. Sahu, Coordinator, BIS and other faculty members and scholars from NIT Raipur. The workshop aimed to augment awareness and understanding of BIS standards and their significance in academic and research pursuits. Various topics were covered during the workshop, including an overview of BIS and its role in standardization, the importance of adhering to BIS standards in research and development, and strategies for accessing and implementing BIS standards in projects and initiatives.

Mr. Tapas emphasized that BIS's scope extends beyond standardization, urging participants to maximize their learning from the workshop to gain industry-level experience. Mr. Sumit provided insights into the reach and impact of BIS, highlighting its role as the largest certification body for standards. Dr. Rao underscored the pivotal role of standards in daily life and commended BIS for its contributions in this regard, emphasizing the importance of collaboration between NIT Raipur and BIS to achieve collective goals. The ceremony marked the beginning of a collaborative effort between NIT Raipur and BIS to foster awareness and utilization of standards, a MoU was signed and a demo on digital initiatives of BIS was presented.

NIT Raipur Honoured for Water Conservation Initiatives



A Team from **NIT Raipur** conducted scientific studies on pond conservation and waterlogging resolution, contributing to water conservation in the **Dhamtari District**. They were honoured by the **Dhamtari District Administration** on the occasion of **World Environment Day** on 5th Jun. 2024 for their work in water conservation.

Tree Plantation drive at NIT Raipur



NIT Raipur's Estate Office organized a Tree Plantation drive in the Souvenir Garden on 16th Apr. 2024. Prof. Dr. Laxmidhar Behera, *Director*, *IIT Mandi* and Prof. Dr. Anupam Shukla, *Director*, *SVNIT Surat* participated in the event by planting trees. The event was graced by the presence of Dr. (Mrs.) A. B. Soni, *Director* (I/C), NIT Raipur.

Bird Bowls Installed Across Campus

NIT Raipur's Faculty members and Staff have installed bird bowls across the entire campus to provide water and grains during the scorching heat.



Over 100 bowls have been set up, demonstrating a compassionate gesture towards our feathered friends and upholding the spirit of humanity.

Handing over Ceremony of Golf Cart and Benches



Alumni Association, NIT Raipur organized a handing over ceremony for Golf Cart and Garden Benches on 1st May 2024. Keys of 1 Golf-Cart and 10 Garden Benches were handed over to the Institute by the 1988 batch of GEC-NIT Alumni Association. Mr. Mahesh Chandak, Vice President, Alumni Association highlighted the achievements of the 1988 batch, including the construction of the Indian Coffee House, Golden Tower, and Incubation Center with alumni support. The event concluded with Dr. N. V. Ramana Rao, Director, NIT Raipur addressing the session and taking a ride on the gokart.

Handing over Ceremony of Golf Cart



Alumni Association, NIT Raipur organised a handing over ceremony of Golf Cart and the felicitation ceremony of Mr. G. V. Srinivas, IFS and Additional Secretary (Latin America and Caribbean), Ministry of External Affairs, New Delhi on 31st May 2024 in the presence of Mr. Suresh Haware, Chairperson, BoG, NIT Raipur. The event was graced by the

presence of **Dr. R. K. Tripathi**, *Director(I/C)*, *NIT Raipur*, Dr. Shrish Verma, Dean (Academics), Dr. Nitin Jain, Dean (SW), Dr. Manoj Pradhan, Professor, DME, Dr. G. D. Ramtekkar, Professor, CE, Dr. Shubhrata Gupta, Chief Warden, Girls Hostel, Mr. Indra Kumar Hinduja, President (acting), Alumni Association and Mr. Anant Singh Parihar, Secretary, Alumni Association who talked about the Alumni Association. Mr. Umesh Chitlangia, Senior Member, Alumni Association explained how alumni are the strength of the institution. Mr. Srinivas elaborated that Hon'ble Prime Minister Narendra Modi gives them targets for foreign service regarding trade, technology, tourism, talent and tradition. He quoted Mini Bharat as an example and described how their presence in different countries contributes for development of our nation. Dr. Haware said that alumni are the ambassadors of the institute and mentioned the institute's achievements and future goals. Thereafter, the 1976 batch alumni presented the keys of Golf Cart to Dr. Haware. Following this, the dignitaries enjoyed the ride of the Golf Cart and marked the end of the event.

MoU

NITRRFIE and PITEF for Co-Incubation



NIT Raipur has established a 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). Pt. Ravishankar Shukla University (PRSU), Raipur has also established a Not-for-profit Company governed by Section-8 of Companies Act, 2013 in the name of PRSU **Innovation Technology and Entrepreneurship Foundation** (PITEF) promote Innovation, Entrepreneurship Development, Startup Incubation, Training and Skill Development, Intellectual Property Management, Industry Collaboration and Networking. NITRRFIE signed a Memorandum of Understanding (MoU) with PITEF on 2nd Apr.2024 with the objective to identify and support incubation related activities and technology driven startups by providing co-incubation, infrastructure, and mentorship. Under the

Terms & Conditions of the executed MoU, both the Incubation centres have agreed to foster cooperation in the areas of research, innovation, entrepreneurship, and incubation activities. The MoU was signed by Dr. N. V. Ramana Rao, Director, NIT Raipur and Prof. Sachchidanand Shukla, Vice Chancellor, PRSU Raipur in the presence of Dr. Samir Bajpai, Head, CDC, Dr. Anuj K. Shukla, Faculty In-Charge, Incubation Cell & CEO (Interim), NITRRFIE and Mr. Pawan Kataria, Assistant Registrar, NIT Raipur & Manager (Interim), NITRRFIE, along with Dr. Kavita Thakur, Professor, PRSU & Director, PITEF, Dr. Amber Vyas, Associate Professor, PRSU & Member, PITEF and Dr. Deependra Singh, Associate Professor, PRSU & Member, PITEF.

NIT Raipur and Vivid Sparks



NIT Raipur and VividSparks signed a Memorandum of Understanding (MoU) on 20th Mar. 2024 towards building General Purpose (GP) Graphics Processing Unit (GPU) for consumer electronics. The signing took place in the presence of Dr. N. V. Ramana Rao, Director, NIT Raipur, Dr. Vijay Holimath, CEO, VividSparks, Dr. D. Sanyal, Dean (FW), Dr. Nitin Jain, Dean (SW), Dr. Prabhat Diwan, Dean (R&C), Dr. Shrish Verma, Dean (Academics), Dr. Naresh Kumar Nagwani, Associate Dean -Academics (NEP & SAMARTH), Dr. P. Y. Dhekne, Registrar, Dr. Samir Bajpai, Head, CDC, Dr. Pradeep Singh, HoD, CSE, Dr. Sonal Yadav, Assistant Professor, CSE. Dr. Vijay, Dr. Ramana Rao and Dr. Yadav, briefed how they will build the world's first GP GPU based on POSIT number system with RISC-V based architecture for electronics and national computational consumer infrastructure. Dr. Holimath and Dr. Yadav added that we will not only address India's computational needs, but will also export our research works, products to other countries, creating job opportunities in north India. The signing of MoU reflects the commitment of both the entities to develop products, promote excellence in technical education and research and development. The preceding day a Podcast was organized in the presence of Dr. Holimath as a chief guest, Dr. N.V. Ramana Rao, Dr. Samir Bajpai, Dr. Shrish Verma, along with respected faculty members and students. Dr. Rao emphasized the role of semiconductor manufacturing in India's economic growth. Dr. Holimath expatiated the disparity between foreign education systems. Later, a Speaker session was organized to enlighten attendees on various facets of Graphics Processing Units (GPUs) and the innovative endeavours of VividSparks. Dr. Holimath, the Esteemed Speaker, delved into the intricacies of GPUs, elucidating their fundamental concepts, applications, and theoretical underpinnings. Through this session, the attendees gained invaluable insights into GPU technology.

NIT Raipur and Excalibur Management Solutions



NIT Raipur and Excalibur Management Solutions Pvt. Ltd. Raipur signed a Memorandum of Understanding (MoU) on 20th May 2024, in the presence of Dr. N. V. Ramana Rao, Director, NIT Raipur, and Mr. Rituraj Deshmukh, Director & Founder, Excalibur Management Solutions Pvt. Ltd. The MoU has been signed in a move towards Developing Sustainable Workplace (in research and in practice) across industrial establishments. This collaboration depicts professional commitment of signing institutions in encouraging joint academic and research endeavors, based on investigative, standardized, and confirmative procedures through audits, consultation, and compliance-based activities.

NIT Raipur and Information Data Systems (IDS)

Academic Activities

STTP/Conference/Workshop Conducted

2nd National Student Conference on the Socio-Economic Perspectives on Sustainable Management of Water

Indian Water Resources Society (IWRS) Student Chapter, CE, NIT Raipur, and OP Jindal University (OPJU) Raigarh jointly organized the 2nd National Student Conference on Socio-Economic Perspectives on



NIT Raipur and Information Data Systems (IDS) signed a Memorandum of Understanding (MoU) on 17th Apr. 2024 to onboard the Bharat Blockchain Network supported by AICTE. They also agreed to establish an Applied Blockchain Centre as part of Bharat Blockchain University Industry Cluster aligned with UGC UI Linkages guidelines. Dr. N. V. Ramana Rao, Director, NIT Raipur, signed the document with the vision to make the Applied Blockchain Centre (ABC), a hub of Blockchain Research & Innovation, Student Upskilling, Intellectual Property Development, Commercialising IP developed for the benefit of Chhattisgarh. Mr. Aravind Voruganti, Global Vice President, Blockchain & Emerging Technologies, and Mr. Sunil Yadavalli, Global Business Head, IDS, were present along with Deans and Professors.

NIT Raipur and State Planning Commission Chhattisgarh

NIT Raipur and The State Planning Commission Chhattisgarh signed a Memorandum of Understanding (MoU) on 16th Mar. 2024. The MoU aims at transformational and transnational activities for knowledge sharing to enrich and develop the state. The collaboration will study the impact of skill development and certification in Raipur and Durg-Bhilai City. It will assess skill development centers, training programs, and the impact of certifications on employability and entrepreneurship. The study will identify skill gaps among various workforce levels and evaluate government policies' alignment with workforce needs. This cooperation aims to enhance policy implementation and improve livelihood opportunities in the region.

Sustainable Management of Water on the occasion of World Water Day on 22nd Mar. 2024.



The event was graced by the presence of the Chief Guest **Mr. Dhirendra Tiwary**, *Ex-CWC Chief Engineer*, along with the

guests of honour, Dr. R.K. Tripathi, Director (I/C), NIT Raipur, Dr. Samir Bajpai, Head, CDC, Dr. Shirish V. Deo, HoD, CE, Dr. Amit Kumar Shukla, Secretary, Organizing Committee (IWRS Student Chapter), Mr. Siddhant Panigrahi, Joint Secretary, Dr. Ishtiyaq Ahmad, Faculty Coordinator, Dr. Sandeep Soni, Organizing Committee member along with respected faculty members and students. Dr. Soni, Former Secretary, IWRS Student Chapter highlighted successful events orchestrated under IWRS' flagship while Dr. Shukla further elaborated on the Institute's growing prominence. This year, the institute garnered a total of 42 registrations, with 27 papers from prestigious institutions like IIT Roorkee, NCIT, and international universities including Alabama University, USA. Additionally, the Institute secured sponsorship from esteemed organizations such as ESRI India, NIVV Consultancy Ghaziabad, and Finite Technologies Ambala. The lecture sessions conducted by luminaries like Dr. Sanjay Kumar Jain, IIT Roorkee and experts from ESRI India added further scholarly depth to the proceedings. Dr. Tripathi exposited the scattered geographical distribution of water bodies across the country, emphasizing the role engineers in rectifying the nonuniformity to mitigate the water crisis. Dr. Bajpai emphasized the strategic utilization of technology in addressing waterrelated challenges, urging IWRS to conduct workshops aimed at tackling diverse issues across various water resources. Mr. Tiwary delved into the inevitable global water crisis spurred by rapid development and globalization. The evening valedictory session was chaired by Mr. Tiwary, Dr. Bajpai, and **Dr. Nitin Jain**, *Dean (SW)*. The best paper award was won by Mrs. Rishika Rathore and her team, followed by Ms. Manisha Kumari and her team at the 2nd position, and Khushi Mishra at 3rd. The event concluded with a vote of thanks delivered by Mr. Siddhant Panigrahi.

FDP titled Empowering Educators



Dean Student Welfare (DSW), Department of Health Services & Committee for Student Mental Health and Well-being, NIT Raipur hosted a two-day Faculty Development Program (FDP) titled Empowering Educators on 4th Apr. 2024 and an exam season survival guide-called *Thrive through Tests* to mark World Health Day on 5th Apr. 2024. Ms. Shivli Shrivastava, Founder,

BetterSpace & Counselling Psychologist, served as the Chief Speaker. The seminar focused on healthy communication, social-emotional learning, and strategies for addressing student mental health both inside and outside the classroom. Dr. N. V. Ramana Rao, Director, NIT Raipur, Dr. R. K. Tripathi, Dean (P&D) and Dr. Nitin Jain, Dean (SW), graced the occasion with their presence. Dr. M. K. Prasad, Associate Dean (SW), Dr. B. K. Singh, HoD, BME, Dr. Shubha B. Koshley, Medical Officer and Dr. Deepak Singh, Assistant *Professor*, *CSE* were a part of the event on the second day. The event was expertly coordinated by Dr. M. K. Prasad, Dr. Soumya Agrawal, Medical Officer, NIT Raipur and Dr. Deepak Singh. Dr. Rao emphasised stress-free environments and educators' role in student well-being. Ms. Shrivastava introduced BetterSpace, which discusses mental and sexual health in 35 languages. Dr. Agrawal focused on physical health tips. The FDP emphasised student well-being and equipped educators for fostering academic excellence.

Induction Program on Advancing Climate Resilience and Energy Efficiency in Rural Chhattisgarh



Department of Civil Engineering (CE), NIT Raipur organized one day Induction Program for a UNICEF sponsored project on Developing a Sustainable Strategy for Program Monitoring, Institutional Strengthening, and Capacity Building for Climate Resilient and Energy Efficient Initiatives in Rural Areas of Chhattisgarh State on 24th Apr. 2024. The program was inaugurated under the presence of Shri S. N. Pandey, Additional Mission Director, Jal Jeevan Mission. The role of consistent monitoring of Water quality and Nal Jal Mitra along with various components of the project was deeply discussed in the session.

SERB sponsored Workshop (Karyashala) on Mechanics and Materials for Biomedical Applications

Department of Biomedical Engineering (BME), NIT Raipur organised a SERB sponsored One Week High-End Workshop (Karyashala) on Mechanics and Materials for Biomedical Applications from 30th Apr. 2024 to 6th May 2024 which invited 25 students for training in research techniques. Inaugurated by **Dr. N. V. Ramana Rao**, *Director*, *NIT Raipur*,

the event featured lectures from eminent speakers from BARC, IITs, AIIMS Raipur, University of Sydney and others. Attendees from diverse disciplines learned about FDM 3D printing, Filament Extrusion, Tensile Testing and Anatomical model development. Dr. N. K. Singh, Assistant Professor, BME and Dr. M. Marieswaran, Assistant Professor, BME were the coordinators of the event.



The valedictory ceremony was held on 6th May 2024 which was attended by Dr. Prabhat Diwan, Dean (R&C), Dr. Shubhojit Ghosh, Chairman, CEC, NIT Raipur, Dr. B. K. Singh, HoD, BME, Dr. Nishant, Dr. M. Marieswaran, and other key faculty members. The workshop included a range of theoretical and hands-on training sessions, offering participants a comprehensive understanding of the subject. **Dr.** Diwan expressed appreciation for the contributions of SERB in supporting the event and emphasised the department's commitment to innovative research. Dr. Nishant provided a brief about the past 7 days of the workshop while Dr. Bikesh encouraged participants to carry forward the knowledge gained from the workshop. During the feedback session, participants shared their experiences. Topics ranged from Cellular Mechanics in Bioreactor presented by Dr. Arindam Bit, Associate Professor, BME to Robotics in Material Processing by Dr. Kech Sagar, Professor, Osmania University and Characterization Tools for Biomaterials by Dr. M. Marieswaran. The session wrapped up with a certificate distribution ceremony, and a vote of thanks delivered by Dr. Marieswaran.

Cricket Premier League NIT Raipur



Sports Department, **NIT Raipur** organized a **Cricket Summer League** for the Faculty members & Staff of the Institute in accordance with the FIT India initiative. Three teams, namely **NIT Lions**, **NIT Strikers** and **NIT Royals**

were part of the tournament. Matches were held on the weekends, starting from 25th May 2024 at the ICH Cricket Ground. Everyone was invited to cheer, participate, and hit a six for health and happiness under the **FIT India Movement**.

Certificate course on Applied Data Analysis

Continuing Education Cell (CEC), NIT Raipur offered a certificate course on Applied Data Analysis: A Practical Approach from 12th Jun. to 26th Jun. 2024. The course coordinators were Dr. Govind Gupta, Assistant Professor, IT and Dr. Mridu Sahu, Assistant Professor, IT. The main objective of the course was to help the participants in developing a solid understanding of the Data Science and Analytics techniques like Data Pre-processing, Predictive analysis, Fundamental of Data statistics, Machine Learning techniques and Data visualization with help of emerging data analytics tools. The course included a detailed explanation of fundamental concepts of data Science and analytics along with hands-on sessions and live demos. Each group of students were assigned a project, and a mentor supervised and monitored the assigned project.

Five-Day Bootcamp on Ethical Hacking & Digital Forensics



Department of Computer Science & Engineering (CSE), NIT Raipur organized a Five-Day Bootcamp on Ethical Hacking & Digital Forensics from 10th to 14th Jun. 2024. Dr. N. V. Ramana Rao, Director, NIT Raipur, served as the Chief Patron of this bootcamp while **Dr. Prabhat Diwan**, Dean (R&C), acted as the *Patron*. The event was attended by several distinguished individuals, including Dr. R. K. Tripathi, Director (I/C), NIT Raipur, Dr. Shrish Verma, Dean (Academics) and Dr. Dilip Singh Sisodia, HoD (I/C), CSE. Additionally, Dr. Pradeep Singh, HoD, CSE, Dr. Nitesh K. Bhardwaj and Dr. Shailendra Tripathi, Assistant Professors, CSE were the Program Coordinators. Twentynine people from all over India including working professionals from state Forensic lab, Bihar Police, Police Task Force members and students were also present in the event. The aim of the bootcamp was to equip cybersecurity enthusiasts with the skills for a professional career in Cyber Security and Digital Forensics.

Dr. Bhardwaj briefed about the course on cybersecurity, highlighting the rapid rise in cybercrime and the need for skilled professionals to counteract these threats. Moreover, he described topics such as Cybercrime Landscape, Ethical Hacking, Cryptography, and Hashing Techniques that would be covered in the course. Additionally, he discussed the inclusion of practical training on Kali Linux, a key tool for security professionals. Dr. Sisodia emphasized the omnipresence of computer systems and mobile devices in our daily lives, underscoring their significant advantages and stressed the importance of using technology safely, particularly in light of the challenges that law enforcement agencies encounter in solving cases related to cybercrime. Dr. **Diwan** highlighted the necessity of robust cybersecurity measures in today's rapidly evolving digital era, explaining the importance of a comprehensive understanding of data glitches and the intricacies of cyber defence. Dr. Verma reflected on the rapid changes in technology since 1994, mentioning how forensic techniques have evolved from using Sallen-Key circuits and Norton Disk Doctor to advanced digital forensics that can retrieve detailed information. Dr. R. K. Tripathi stressed the importance of understanding how data and mobile devices can be hacked to effectively prevent such breaches. He praised the department for organizing the Bootcamp. On the first day, three sessions were organized focusing on Computer Networks, Operating Systems, and File Systems. Dr. Bhardwaj chaired the sessions and highlighted that viruses often enter computers through networks. Additionally, he discussed operating systems and file systems. Experts in cybersecurity and digital forensics from renowned institutions such as IIT, NIT, C-DAC, and DRDO conducted sessions on critical topics during this five-day bootcamp. These topics included Cryptography, Hashing techniques, Linux **Operating** system, Network Traffic analysis, Steganographic tools and techniques, Password cracking, Metasploit Framework, Digital forensics, Forensic Imaging tools and techniques, Partition analysis, Malware analysis, Sandbox setup, and Windows forensics. The ceremony ended with a vote of thanks by Dr. Shailendra

Tripathi. The event concluded with a valedictory ceremony on 14th Jun. 2024. **Dr. Rao** briefed about the importance of cyber security and forensics while encouraging students to take up practical learning and making projects. **Dr. Sisodia** advised the students to use their skills smartly and carefully and wished them luck. **Dr. Verma** explained the difference between computer forensics and digital forensics. **Dr. Sanyal** highlighted the significance of the course. This was followed by the certificate distribution and a vote of thanks. The bootcamp concluded successfully after **Dr. Bhardwaj** extended thanks to all the attendees.

Inaugural session of FDP on Data Science and its Applications

NIT Raipur organized a joint 3rd online 10 days Faculty **Development Program** on Data Science and its Applications on 15th Jun. 2024. This FDP was jointly organized by Dr. Aakanksha Sharaff, Assistant Professor, CSE, NIT Raipur and Dr. Sanjava Kumar Panda, Assistant Professor, CSE, NIT Warangal in association with Electronics & ICT, NIT Warangal. The inauguration took place in the presence of Dr. S. Sanyal, Professor, ME, Dr. Pradeep Singh, HoD, CSE with Co-ordinators Dr. Sharaff and Dr. Panda. The inaugural opening address was delivered by Dr. Sharaff in which she addressed the need to enhance knowledge about the latest development pertaining to Data Science and its Applications. The inauguration was preceded by **Dr. Pradeep** Singh, who encouraged the participants and congratulated the speakers to conduct the FDP on Data Science and its Applications and its need in today's era. Dr. S. Sanyal in his address pointed out that Data Science is a very demanding research area, and its interdisciplinary nature has inspired many young professionals to make their careers in this field. The coordinators of the program organized the lectures related to the theme which were delivered by leading experts from the institute of international recognition like IITs/NITs/Industry. 56 participants joined this FDP comprising of faculty and research personnel from all over India.

Research Frontier

Expert Lectures delivered by Institute Faculty/Staff

- **Dr. Naeem Ahmad**, Assistant Professor, MCA delivered an invited lecture on Fundamentals of RNN, LSTM and GRU in a Two-Week Online Workshop on Deep Learning organized by **SIAS Research Forum**, Kohinoor Calicut University, Kerala on 13th and 14th Mar. 2024.
- Dr. Naeem Ahmad, Assistant Professor, MCA presented a keynote address on Implementation of CNN Architecture using Python in the National Conference on Recent Advances in Data Science (CRADS-2023) organized by the School of Advanced Sciences (SAS), DoM, VIT-AP University on 17th Mar. 2024.

- Dr. Nitesh K. Bhardwaj, Assistant Professor, CSE delivered an invited lecture on Internet of Things (IoT) Security at SERB Sponsored Karyashala (High End Workshop) on Smart Resource Management for IoT Networks: Enhancing Connectivity and Efficiency, organized at VNIT Nagpur on 17th Mar. 2024.
- **Dr. Bikesh Kumar Singh**, Associate Professor, BME delivered an invited lecture on Digital filter design in an **Expert talk** on digital filter design organized by G. H. Raisoni Institute of Engineering and Technology, Nagpur on 6th Apr. 2024.
- Dr. K. Jairam Naik, Assistant Professor, CSE delivered an invited lecture on Applications of Fog and Edge for IoT computing in a one-week National Level Online FDP on Emerging Research Trends in Computer Science organized by Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana & ACM Hyderabad Deccan Chapter on 24th Apr. 2024.
- Dr. Ayush Khare, *Professor*, *DoP* delivered an expert lecture titled *ETL-free Bifacial Perovskite Solar Cells as Flexible Devices* at 2nd International Conference on Materials for Sustainable Development and Technologies (ICMSDT-2024), *Central University of Jammu*, *J&K* on 2nd May 2024.
- **Dr. Anil Manjhi**, Assistant Professor, DHSS delivered an expert lecture titled The Power of Non-Verbal Communication at a One Day Seminar at **Government Co-Ed Polytechnic Raipur** on 17th May 2024.
- Mr. Suraj Nishad, Yoga Faculty, DHSS delivered an expert lecture titled Yoga for Mental Health during the four-day Induction Training of Inspectors (GST) at the National Academy of Customs, Indirect Taxes & Narcotics, Regional Campus, Raipur from 28th to 31st May 2024.
- Dr. Ayush Khare, Professor, DoP delivered an expert lecture titled Innovation and Sustainability: Complementary to Each Other at 3rd International Conference on Innovation & Research in Science and Technology for Sustainable Development (ICIRSTSD-2024), OP Jindal University, Raigarh on 31st May 2024.
- **Dr. Suraj Kumar Mukti**, Associate Professor, ME delivered an invited lecture on Industry 5.0 with Technology Commercialization to Develop Innovation and Entrepreneurship for Sustainable Development at **ANCON 2024** organized by Anjaneya University, Raipur on 14th Jun. 2024.

Awards, Recognition, and Fellowship

- Dr. N. V. Ramana Rao, *Director*, *NIT Raipur*, has recently shared his views on Quality issues and concerns in technical education through an article published in a renowned newspaper in the state. He highlighted the structural issues in higher technical education and called for new strategies to address problems.
- **Dr. Kafeel Ahmad Siddiqui**, Associate Professor, DoC, and **Vibhav Shukla**, PhD Student, DoC, have developed a test strip that can detect sugar levels in the human body through urine. This innovation promises to transform glucose monitoring for individuals fearful of blood tests, making glucose monitoring accessible and less intimidating.
- Dr. (Mrs.) A. B. Soni, *Professor*, *DCE* has shared her views on Recent advancements and innovations in Chemical Engineering: A comprehensive overview in a renowned newspaper where she highlighted that the most notable developments are the progress in green chemistry & engineering which aim to minimize environmental impact and also opined that Integration of AI and machine learning in Chemical Engineering processes has reformed process optimization.
- Dr. Samir Bajpai, *Professor*, CE & Head, CDC got his meticulously researched article on Sustainable Sand Mining featured on the Campus Calling column of the prestigious English Daily of Chattisgarh, Central Chronicle. The article outlines potential solutions and highlights ongoing research at the institute, to address the issue.
- Dr. Debashis Sanyal, *Professor*, *DAP* recently shared his views on Incorporating Smart Tech for Energy Sufficiency in Built Environment in the Campus Calling column of the prestigious English Daily of Chattisgarh, Central Chronicle. The article delves into the ways of integrating modern sophisticated technology into the built environments for attaining the prospective of energy sufficiency & sustainability with the ever expanding & enhancing housing landscape.
- Dr. Bikesh Kumar Singh, Associate Professor, BME, has been awarded the Best Paper Award for his paper titled 1D-Convolution Neural Network (CNN) based EEG signal classification model for Schizophrenia detection in the 2nd International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024) on 22nd and 23rd Mar. 2024.
- Dr. Bikesh Kumar Singh, Associate Professor, BME has been awarded the Best Paper Award for his research article titled Time Series EEG Image classification using pre-trained Residue Network for Detection of Schizophrenia in the IEEE International Conference on Automation and Computing 2024 held at Graphics Era Hill University, Dehradun on 14th and 15th Mar. 2024.

• Dr. D. C. Jhariya, Associate Professor, DAG has been conferred with the Best Paper Award for his research article titled Limestone Weathering, Climate Change, and Groundwater Occurrence: Interconnections and Implications at the International Conference on Environment and Natural Resources (ICENR-24) held at Nagoya, Japan on 15th and 16th Mar. 2024.

Patents

• Dr. Suraj Kumar Mukti, Associate Professor, ME, Dr. Alfia Bano, Assistant Professor, CE, Mr. Swatantra Kumar Jaiswal, Research Scholar, ME and Mr. Roshan Lal Tamrakar have been granted a patent titled A Portable and Autonomously Powered Intelligent Air Pollutant Trapping and Purification by the Patent Office, Government of India on 14th Jun. 2024.

Sponsored Research Projects

- The project titled *Development of Biofilm Inhibitor from metabolites of Andrographis paniculata against a Polymicrobial Environment* by **Dr. Dijendra Nath Roy**, *PI*, has been sanctioned by the **Chhattisgarh Council of Science & Technology**, **Govt. of Chhattisgarh**, **Grant** Rs, 4,35,000/- for a period of 24 months.
- The project titled *Development of Water and Heat-Resistant Biodegradable Material for Advertising and Publicity Materials* by the **Department of Mechanical Engineering, NIT Raipur** has been sanctioned by the **Chhattisgarh Council of Science** & **Technology (CCOST), Grant** Rs. 4,10,000/- for a period of 18 months.
- The project titled *To study and analyze the impact of skill development and certification within the Municipal Corporation regions of Raipur and Durg-Bhilai City in Chhattisgarh* by the **Department of Mechanical Engineering, NIT Raipur** has been sanctioned by the **State Planning Commission Chhattisgarh**, **Grant** Rs. 3,13,100/- for a period of 4 months.

PhD Thesis Defended

- Mr. Narendra Kumar Dewangan defended his Ph.D. thesis entitled Design of Blockchain-based Applications for Group-based Transactions, Certificate Storage, and Healthcare Domain under the supervision of Dr. Preeti Chandrakar, Assistant Professor, CSE.
- Mr. Shankey Garg defended his Ph.D. thesis entitled
 Design of Lightweight Deep Learning Models for
 Disease Classification under the supervision of Dr.
 Pradeep Singh, Associate Professor, CSE.
- Mr. Santosh Kumar Smmarwar defended his Ph.D. thesis entitled Towards Design and Development of Efficient Malware Detection and Identification Frameworks by Leveraging the Machine and Deep Learning Techniques under the supervision of Dr. Sanjay Kumar, Associate Professor, IT and Dr. Govind P. Gupta, Assistant Professor, IT.
- Mr. Abhishek Ray defended his Ph.D. thesis entitled
 Design of Radiation Hardened FinFET for Integrated
 Circuit Applications under the supervision of Dr.
 Guru Prasad Subas Chandra Mishra, Professor,
 ECE and Dr. Alok Naugarhiya, Assistant Professor,
 ECE.
- Ms. Krati Dubey defended her Ph.D. thesis entitled Design a Robust Framework for Cloud-Assisted IoT under the supervision of Dr. Sanjay Kumar, Associate Professor, IT and Dr. Sudhakar Pandey, Professor, IT.

- Mr. Satya Verma defended his Ph.D. thesis entitled Towards the Design of Stock Market Prediction System using Artificial Intelligence based Approaches under the supervision of Dr. Satya Prakash Sahu, Associate Professor, IT and Dr. Tirath Prasad Sahu, Assistant Professor, IT.
- Mr. Arepalli Peda Gopi defended his Ph.D. thesis entitled A Deep Learning Framework for Quality Analysis of Water in IoT-surveillance Aquaculture under the supervision of Dr. K. Jairam Naik, Assistant Professor, CSE.
- Mr. Jitendra Kumar defended his Ph.D. thesis entitled Design and Analysis of Bio-inspired Porous Based Hip Implant Component under the supervision of Dr. Neelam Shobha Nirala, Assistant Professor, BME and Dr. Nishant Kumar Singh, Assistant Professor, BME.
- Mr. Kapu V. Sri Ram Prasad defended his Ph.D. thesis entitled Fault Diagnosis of Electrical Machines for Industrial Applications under the supervision of Dr. Varsha Singh, Assistant Professor, EE.
- Mr. Roopak Kumar defended his Ph.D. thesis entitled Naxal Movement in India: A Critical Discourse Analysis of Media Texts under the supervision of Dr. Shashi Kanta Tarai, Assistant Professor, DHSS.
- Mr. Vimal Kumar Deshmukh defended his Ph.D. thesis entitled *Fabrication and Characterization of*

- Thin Micro Features Using High Speed Jet Electrodeposition under the supervision of Dr. Harendra Ku. Narang, Assistant Professor, ME and Dr. Mridul Singh Rajput, Assistant Professor, ME.
- Mr. Abhishek Sahu defended his Ph.D. thesis entitled Lattice Boltzmann Method for Transient Heat Transfer under the supervision of Dr. S. Bhowmick, Professor, ME.
- Mr. Aditya Lawrence Toppo defended his Ph.D. thesis entitled *Use of Biosynthesized Gold Nanoparticles for Sensing applications* under the supervision of Dr. Satya Eswari, *Assistant Professor*, *DBT*.
- Mr. Manish Kumar Giri defended his Ph.D. thesis entitled Cooperative Spectrum Sensing and Resource allocation using Machine Learning methods for Cognitive Radio Network under the supervision of Dr. Saikat Majumder, Assistant Professor, ECE.
- Mr. Soumik Bose defended his Ph.D. thesis entitled Flow and Phase Change Characteristics of Green Refrigerants under the supervision of Dr. S.D. Patle, Professor, ME and Dr. Sofen Kumar Jena.
- Mr. Meetesh Nevendra defended his Ph.D. thesis entitled Investigation of Homogeneous and Heterogeneous Software Defect Prediction Techniques under the supervision of Dr. Pradeep Singh, Associate Professor, CSE.
- Mr. Prafull Hishikar defended his Ph.D. thesis entitled Flow and Heat Transfer Analysis Across Cylinders under the supervision of Dr. Anil Kumar Tiwari, Professor, ME and Dr. V.K. Gaba, Associate Professor, ME.
- Mr. Yogesh Sharma defended his Ph.D. thesis entitled *Electroencephalography and Speech Signal Analysis in Children with Neurodevelopmental Disorders* under the supervision of Dr. B.K. Singh, *Associate Professor*, *BME*.
- Ms. Smriti Chandra Srivastava defended her Ph.D. thesis entitled *Dynamical Study of Complex Ecoepidemiological System: A Mathematical Modeling Approach* under the supervision of **Dr. N.K. Thakur**, *Associate Professor*, *DoM*.
- Mr. Raghavendra Prasad defended his Ph.D. thesis entitled Emotion and Cognition Interaction: Mapping of Neural Dynamicity Using Computational Modelling under the supervision of Dr. Shashi Kanta Tarai, Assistant Professor, DHSS and Dr. Arindam Bit, Associate Professor, BME.
- Ms. Sampada Tiwari defended her Ph.D. thesis entitled Study and Construction of Cryptographic

- Boolean Functions and their Generalization under the supervision of **Dr. Deepmala Sharma**, Associate Professor, DAP.
- Mr. Vivek Deshmukh defended his Ph.D. thesis entitled Analysis of Particulate flow through Annulus to predict the Bore-hole Cleaning parameters for oil and gas well drilling under the supervision of Dr. Satish Dewangan, Associate Professor, ME.
- Ms. Varsha Chandrakar defended her Ph.D. thesis entitled Green Fabricated Silver and Gold Nanoparticles for the Determination of Biothiol, Thiourea and Pb (II) in Biological, Environmental Samples and Antimicrobial Activity of Silver Nanoparticles under the supervision of Dr. Kavita Tapadia, Associate Professor, DoC.
- Ms. Kokila Bharti Jaiswal defended her Ph.D. thesis entitled Non-invasive Methods of Pulse Rate Estimation using Human Facial Video under the supervision of Dr. Toshanlal Meenpal, Associate Professor, ECE.
- Mr. Nitish Kumar defended his Ph.D. thesis entitled Development of Forensics Detectors for Various Image Tampering Techniques under the supervision of Dr. Toshanlal Meenpal, Associate Professor, ECE.
- Mr. Dhananjay Kumar Sahu defended his Ph.D. thesis entitled *Process-structure-property Relationship in Dielectric Elastomers towards Enhanced Electromechanical Actuation Performance* under the supervision of Dr. Raj Kumar Sahu, *Assistant Professor*, ME.
- Ms. Anjali Chandra defended her Ph.D. thesis entitled Detection of Neurological Diseases using Deep Learning-based techniques on MRI Brain Images under the supervision of Dr. N.K. Bodhey, Dr. Ajay Singh Raghuvanshi, Associate Professor, ECE and Dr. Shrish Verma, Professor, ECE.
- Mr. Riju Bhattacharya defended his Ph.D. thesis entitled Development of Community Detection and Link Prediction Techniques for Analyzing Social Networking Datasets under the supervision of Dr. Naresh Kumar Nagwani, Professor, CSE and Dr. Sarsij Tripathi, Associate Professor, CSE, MNNIT Allahabad.
- Mr. Arjun Kundu defended his Ph.D. thesis entitled Design, Simulation, and Manufacturing of Electromagnetic Forced Convection Equipment for Grain Refinement of Aluminium and its Alloys under the supervision of Dr. Sanjeev Das, Associate Professor, MME.

- Mr. Kuruva Venkateswarlu defended his Ph.D. thesis entitled Parametric Study on Effect of Super Absorbent Polymer on Self-Compacting Concrete with Portland Pozzolana Cement and Portland Slag Cement under the supervision of Dr. S.V. Deo, Professor, CE and Dr. Meena Murmu, Assistant Professor, CE.
- **Ms. Sonali Rana** defended her Ph.D. thesis entitled Fabrication of sensing device for Biofilm Detection in

- Environmental and Biological systems under the supervision of **Dr. Lata S.B. Upadhyay**, Professor, DBT.
- Ms. Khushboo Bhatt defended her Ph.D. thesis entitled *Green Synthesis of metal oxide nanoparticles, characterization and their applications* under the supervision of Dr. F. Khan, *Professor*, *DoC* and Dr. Vikas Kumar Jain.

Research Publications

- Dr. Sapan Mohan Saini, *Professor*, *DoP* and Ms. Lokanksha Suktel, *Research Scholar*, *DoP* received the acceptance of a book chapter titled Comprehensive investigation of Li-based novel quaternary Heusler LiTiPdZ (Z = Al, Ga, In) compounds for thermoelectric performance for the upcoming book Physica Scripta to be published by IOP Publication.
- Dr. Khalid Raza, Associate Professor, Jamia Millia Islamia (Central University), Debmalya Barh, Dr. Deepak Singh, Assistant Professor, CSE and Dr. Naeem Ahmed, Assistant Professor, MCA have published a book titled Deep Learning Applications in Translational Bioinformatics. The book was published by Academic Press, Elsevier.
- Dr. Dijendra Nath Roy, Assistant Professor, DBT, Susmita Datta, Ph.D. Scholar, NIT Agartala, Vishal Singh, Dr. Soma Nag, Assistant Professor, Chemical Engineering, NIT Agartala and published a journal titled Marine-Derived Cytosine Arabinoside (Ara-C) Inhibits Biofilm Formation by Inhibiting PEL Operon Proteins (Pel A and Pel B) of Pseudomonas aeruginosa: An In Silico Approach in Molecular Biotechnology by Springer.
- Dr. Gyanendra Verma, Assistant Professor, IT, Roopa Golchha, Research Scholar, published a journal titled Leveraging Quantum computing for synthetic image generation and recognition with Generative Adversarial Networks and Convolutional Neural Networks in International Journal of Information Technology Springer.
- Dr. Naeem Ahmad, Assistant Professor, MCA, Mr. Sunit Ghosh, Dr. Jitendra Kumar Rout, Assistant Professor, CSE, have published a journal titled CNN-based hybrid deep learning framework for human activity classification in International Journal of Sensor Networks, InderScience.
- Dr. Sagarika Bhattacharya, Assistant Professor, DoC, Anurag Mishra, Stanzin Lzaod, Doctoral Candidate, IIT Delhi, Tanmay Dutta, and published a journal titled Selective Bacterial Growth Inactivation by pH-Sensitive Sulfanilamide Functionalized Carbon Dots in ACS Appl. Bio Mater. 2024, 7, 2752–2761.
- Dr. Sanjay Kumar, Associate Professor, IT, Susmita Datta, Ph.D. Scholar, NIT Agartala, Vidyut Dey, and Dr. Dijendra Nath Roy, Assistant Professor, DBT published a journal titled Alteration of stainless-steel surface potential by modifying topography inhibits the development of bacterial biofilm in Journal of Materials Research, Volume 39, pages 1273–1288, (2024) by Springer.
- Dr. Sanjay Kumar, Associate Professor, IT, Susmita Datta, Ph.D. Scholar, NIT Agartala, Vidyut Dey, and Dr. Dijendra Nath Roy, Assistant Professor, DBT published a journal titled Formation of nanocones and generation of negative otential on stainless steel surfaces by electrochemical etching synergistically reduce pseudomonas aeruginosa's biofilm in Surface Review and Letters, 2450109 by World Scientific Europe.
- Dr. Suraj Kumar Mukti, Associate Professor, ME received the acceptance of a book chapter titled Smart Manufacturing and Supply Chain Management System to be published by World Leadership Academy Publisher, ISBN.
- Dr. Bikesh Kumar Singh, Associate Professor jointly with Dr. G.R. Sinha, IIIT Bangalore and Dr. Rishikesh Pandey, University of Connecticut, Farmington, USA received the acceptance of a book chapter titled Biomedical Engineering Science and Technology: Second International Conference: Springer CCIS book Series, 2024 for the upcoming book Springer Nature Switzerland, 2023 (Published in 2024).

Students' Corner

 NIT Raipur's Team Cosmos, comprising of pre-final year students Raj Motwani, 6th Sem., ME, Harsh Agrawal, 6th Sem., ME, and Kartik Dwivedi, 6th Sem., ME, along with **Shivam Gupta**, 6^{th} Sem., MME clinched the 1st runnerup position along with a cash

- prize of Rs. 2 Lakhs in the 30 Hacks Hackathon by Globallogic, sponsored by Hitachi Group.
- NIT Raipur's Team Case Curious, comprising Rajasi 8^{th} Pandey, Sem., ECE, Nikhilesh Agrawal, 8th Sem., ECE and Hridyansh Jain, 8^{th} Sem., DCE emerged as the winners in the Engineering track of the Hero Campus Challenge Season 9. Team Sheroes, represented by Ansh Shrivastava, 6th Sem., MME Somva Kabra, 6th Sem., MME and Smriti Priya, 6th Sem., MME secured the position of runners-up.
- Team Techie Girls, NIT Raipur secured 2nd position in the L&T CreaTech 2024 online competition. **Team** Techie Girls consisted of Akshara Reddy, 6th Sem., IT, Lavanya Nagubilli, 6th Sem., IT and Priyanka Ravirala, 6th Sem., CSE. They chose the topic of Developing an AI model to understand sentiments about the company using social media feeds, including platforms like Twitter, Facebook, LinkedIn, and other digital media input.

- Sem., EE has won a silver medal, representing Chattisgarh in the Yoga category at India Skills 2024. Ayush credits his success to his parents, yoga teachers Mr. Suraj Nishad, Teaching Assistant, DHSS and Ms. Manju Shukla, Faculty, DHSS and the supportive yoga team at NIT Raipur.
- Smita Prajapati, 8th Sem., ECE, Lawanya Baghel, 8th Sem., CSE, Chirag Singhal, 8th Sem., CSE, Milind Agrawal, 8th Sem., CSE, Udisha Singh, 8th Sem., CSE, and Aleem Ahamed Shaik, 8th Sem., CSE bagged on-campus internship offers from Deutsche Bank Pvt. Ltd. (DBOI) for the role of Technology Analyst.
- Aman **Shrivastava** (BME/2019) has achieved top honours by securing AIR-1 nationwide in the Patent Officer exam conducted by All Department India Promotion of Industry and Internal **Trade** (DPIIT), Ministry of Commerce & Over 100,000 Industry. candidates participated in this three-tier examination comprising 2 written rounds and interview, concluding in

- April 2024 with results announced on 15th Jun. 2024.
- Tekeshwar Hirwani, 8th Sem., BME was initially selected for a long-term internship at IISc Bengaluru. Based on his performance and interview, he was subsequently selected for Ph.D. in Electronics and Communication Engineering program at Department of Electrical and Communication Engineering, IISc Bengaluru on 31st May, 2024.
- Shubham Sonkar, 8th Sem., BME was initially selected for a long-term internship at IISc Bengaluru. Based on his performance and interview, he was subsequently selected for Ph.D. admission at Robert Bosch Centre for Cyber Physical System (RBCCPS) department, IISC Bengaluru on 31st May, 2024.
- V. S. Anagha, 7th Sem., DAP, secured 1st position in phase-2 **Bharat** of Ek Sanskrit Sangam social media campaign in the Dancing category organized during 22nd Aug. to 19th Sep. 2023 under Ek Bharat Shreshtha Bharat programme by Ministry of Education, Government of India.

Placements

- Akshat Agrawal, 8th Sem., CSE, Sonali Tiwari, 8th Sem., CSE and Vedansh Tondon, 8th Sem., IT, grabbed P.P.O. for the Software Development Engineer (SDE) roles of 55 LPA at Adobe Inc.
- Vanshika Gupta, 8th Sem., MME, Vishakha Jha, 8th Sem., ME and Anjali Tiwari, 8th Sem., DME have received P.P.O. for the roles of Management Trainees of 11.88 LPA and Surabhi Singh, 8th Sem., MME has received a P.P.O. of 13 LPA from TATA Steels.
- Sawale Devesh Baburao, 8th Sem., IT, Bhagwat Shrikrushna Gajanan, 8th Sem., IT, Ayut Jain, 8th Sem., IT, Sumona Sarkar, 8th Sem., IT, and Subham Shrikant Bawer, 8th Sem., IT, have received P.P.O. of 36.7 LPA from the Texas Instruments
- Animesh Agrawal, 8th Sem., IT, and Pramil Kesarwani, 8th Sem., ECE have received P.P.O. from Mathworks Corp. Subham Sahu, 8th Sem., ECE, and Lakshman Mulchandani, 8th Sem., EE have received P.P.O. from the GEHealthCare.

- Ketak Sahu, 7th Sem., ME and Sourabh Pratap Singh, 7th Sem., ME have received P.P.O. as Design Engineers from the Indian multinational motorcycle manufacturer TVS Motors Company Ltd.
- Maynak Kumar Sahu, EE, and Ranveer Diptesh Atul, ME, have received P.P.O. as Graduate Trainees at Reliance Industries Ltd.

Club/Committee Activities

Accessories Distribution Event by Aashirwad Club



Aashirwad Club-The Women's Club, NIT Raipur organized a **Summer Accessories Distribution Event** on 24th Apr. 2024. The event recognized the efforts of the guards, horticulture and cleaning staff of NIT Raipur in maintaining the safety, cleanliness, and aesthetics of the college campus.

Collaboration with Chief Electoral Office of Chhattisgarh by Abhinay

Abhinay-The Dramatics Club, NIT Raipur has successfully collaborated with the Chief Electoral Office of Chhattisgarh to create a video aimed at making people vigilant about voting and its importance as a citizen. The video conveys the spirit of social responsibility by conveying the urgent message of actively partaking in Election Voting & being responsible in electing the nation's leaders.

Workshop on Aeromodelling & Simulation by Aviation Club

Aviation Club, NIT Raipur organized a workshop on Aeromodelling and Simulation on 15th and 16th Mar. 2024. The keynote speaker, **Dr. Yagya Dutta Dwivedi**, Associate Professor and Deputy Head, Institute of Aeronautical Engineering (IARE) Hyderabad, was welcomed by **Dr. N. V. Swamy Naidu**, Faculty In-Charge, Aviation Club. This workshop was organized by **Dr. S. L. Sinha**, Professor, ME. The workshop began with aerodynamics basics, covering aerofoil design and simulation tools. The second day focused on aircraft static stability, discussing corrective actions for instability. Hands-on training included designing air foils and simulating lift, drag, and stability. The workshop aimed to enhance understanding of flight and explore new technologies,

particularly in aeromodelling and simulation. **Dr. Dutta** emphasized India's promising future in this field, urging students to join and start startups with new ideas. The event concluded with a memento presented to the chief guest speaker and certificates distributed to students.

Induction Program by Motosports Club



Motosports Club, NIT Raipur hosted its induction program on 18th Mar. 2024. The event was organised under the guidance of **Dr. Shailesh Vaidya**, Faculty In-charge, Motosports and **Dr. N. V. Swamy Naidu**, Faculty In-charge, Aviation Club. The induction program began with an introduction to the club. Founded in 2010, it is a platform for engineers to innovate in automotive design, focusing on areas like powertrain, brakes, frames, and steering. The club has achieved success in national-level competitions like **Formula Bharat** and **SAE eBAJA**. **Dr. Naidu** highlighted the club's role in translating classroom knowledge into practical skills through race car development, using software like SolidWorks, Ansys, and Lotus.

Seminar on Bharatiya Nyaya Sanhita and Speech Competition on Ambedkar Jayanti by NSS



National Service Scheme (NSS), NIT Raipur, organized an awareness seminar on Dissemination of New Criminal Laws (BNS) on the 134th birth anniversary of Dr. B. R. Ambedkar on 12th Apr. 2024. Dr. N. V. Ramana Rao, *Director, NIT*

Raipur assumed the role of the Chief Patron for the seminar while Dr. Shrish Verma, Dean (Academics), and Dr. Samir Bajpai, Head, CDC assumed the role of Patron. Dr. Nitin K. **Jain**, Dean (SW) was the Co-Patron. The seminar was coordinated under the guidance of Dr. Govardhan Bhatt, Faculty In-Charge, NSS, and Dr. Y. Vijaya Babu, Assistant Professor, DHSS and Nodal Officer, BNS, NIT Raipur. The Guest Speaker for the seminar was Dr. Bhoopendra Karwande, Assistant Professor, Law, Government J. Yoganandam Chhattisgarh College, Raipur. Dr P. Y. **Dhekne**, Registrar, NIT Raipur, faculty members and students were also present. Dr. Rao discussed modernizing criminal legislation and praised government efforts. Dr. Karwande highlighted Bharatiya Nyaya Sanhita (BNS) impact on criminal laws. Dr. Bhatt emphasized Dr. B. R. Ambedkar educational legacy and lessons on inclusivity. Ayush Mishra claimed the 1st position, followed by Ansh Shrivastava in 2nd place, and Manthan Ajit Ghodeswar in 3rd place in the speech competition. Dr. Bhatt wrapped up the event with a vote of thanks.

Robofest'24 by ROBOTiX Club



ROBOTiX Club, NIT Raipur conducted its two-day annual robotics tech fest Robofest'24 on 16th and 17th Mar. 2024 under the guidance of **Dr. Rajesh Doriva**, Faculty In-Charge, ROBOTiX Club. The festival, with its primary goal of promoting interest in Robotics and IoT among the students, commenced with the opening ceremony on 16th Mar. 2024. **Dr.** Shrish Verma, Dean (Academics), and Dr. Samir Bajpai, Head, CDC were invited as chief guests. During his speech, Dr. Doriya highlighted that the club represented the institute among the top institutions nationwide. Dr. Bajpai commended the club for maintaining the tradition of organizing the fest and highlighted its role in guiding members to solve real-life problems. **Dr. Verma** emphasized the use of robotic arms to create picture tube bulbs and PLC in automation, including adding programmable logic control to suppress glass liquid tubes. Robofest'24 was an electrifying showcase of student innovation in robotics, featuring seven dynamic events: Robothon, Roboexpo, Roborace, Ideathon, Roboquiz, and Assemblers. Students faced a 24-hour challenge to construct robots using basic components provided by the Club. 12 teams showcased their

creativity, solving problems like pick-and-drop, visually impaired assistance and mine-detection. **Team dp/dt**, *NIT Raipur* secured **1**st place, followed by **Team Voltage**, *SSIPMT Raipur* and **Team Divine Robot**, *NIT Raipur* in **2**nd place, with **Team Tops**, *BIT Durg* sharing **3**rd place.

In **Roborace**, teams competed to finish the track in the shortest time. Team Megatron 2 secured 1st place, followed by Megatron 1 in 2nd and Electron 1 in 3rd. Robofight tested robot combat skills, with **Team Electron** coming at 1st place and Team Megatron coming 2nd. Ansh Srivastava, 6th Sem., MME, NIT Raipur won the Roboquiz, tackling questions on robotics topics like sensitive robots, functionality, and innovation. Ideathon was a pitching competition where students proposed innovative solutions to robotics-related problem statements. Micro Flying Robots with Spinning Fly Like Wings Prototype won 1st place, followed by Smart Air Purifying System and Smart Dustbin in 2nd. In Assemblers, students were asked to create a project using components provided, Team Prime, Team Dreamers and Team Khanan stood first, second and third respectively. RoboExpo showcased student-presented technological models and their real-life applications. Team 101, SSIPMT Raipur won 1st place, with Fire Team and Team Titan, NIT Raipur coming 2nd and 3rd respectively. The closing ceremony of the fest on 17th Mar. had Dr. (Mrs.) A. B. Soni, Director (I/C), NIT Raipur and Dr. Samir Bajpai as chief guests. Dr. Soni congratulated everyone and stressed the importance of creativity and innovation in addressing future challenges. Dr. Bajpai expressed joy at the fest's success and advised the organizing team to prepare for Robofest'25. Dr. Doriya concluded the event with a vote of thanks.

Sahyog-the Mentorship Club honoured at AIIMS Raipur



Sahyog – The Mentorship Club, NIT Raipur was felicitated with a Token of Honour on 14th Jun. 2024 at AIIMS Raipur for successfully organizing their annual Blood Donation Camp on 26th Jan. 2024. The Sahyog team was honored by Dr. Alok Chandra Agrawal, *Dean (Academics), AIIMS Raipur*, for organizing the blood donation camp. With major contributions from Sahyog and the support of Mr. Jiten Chhatri, this year's successful blood donation camp saw the

collection of approximately 380+ units of blood. Along with the camp, free Homeopathic and eye check-up facilities were also provided for the general public at NIT Raipur. **Dr. Agrawal** congratulated the Sahyog team and addressed the audience about the current necessity of blood while highlighting the importance of blood donation. The theme for this year's 20th anniversary celebration was *Thank You, Blood Donors*. The Sahyog team organizes a blood donation camp every year. This year, the event was held in collaboration with **AHMS Raipur**. All the members of the Sahyog team coordinated excellently, ensuring the smooth conduct of the camp.

Celebrated the Bhartiya Nav-Varsh Saptah by Think India

Think India, NIT Raipur organised a celebration of the Bhartiya Nav-Varsh Saptah on 10th Apr. 2024. The event

was followed by the official inauguration of the **Bhaskaracharya Study Circle. Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, graced the event as the Chief Guest, and **Dr. Ashutosh Mandavi**, *Head*, *Department of Advertising & Public Relations Studies*, *Kushabhau Thakre University of Journalism and Mass Communication*, served as the Guest of Honor.



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.

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