



Volume 8- Issue II

Mirror

Reflecting the True Spirit of NIT Raipur



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QUARTERLY GLIMPSES

WORLD ENVIRONMENT DAY



SMART CLASSROOM INAUGURATION



DR. B R AMBEDKAR JAYANTI



AVINYA



E SUMMIT



NIT RAIPUR IN MEDIA

NIT Raipur unveils State-of-the-Art Smart Classrooms

एनआईटी में दो दिवसीय द्वितीय इंटरनेशनल कॉन्फ्रेंस ऑन कंप्यूटेशनल इंटेलेजेंस एंड नेटवर्क सिम्योरिटी का हुआ शुभारंभ

साइबर सुरक्षा व फोरेंसिक रिसर्च के लिए एनआईटी व एसएफएसएल में एमओयू

एनआईटी और राज्य फोरेंसिक विज्ञान प्रयोगशाला के बीच एमओयू

नवभारत
Rajdhani - 18 Mar 2025 - 18raj2
epaper.navabharat.news

एनआईटी में नवाचार और उद्यमिता पर फैकल्टी विकास कार्यक्रम

ऑसवाल फाउंडेशन की पहल सेंटर में अनुसंधान, नवाचार और उद्यमिता को दिया जाएगा बढ़ावा, युवा होंगे सशक्त
एनआईटी में सेंटर आफ एक्सीलेंस स्थापित करने देगा 71 करोड़

एनआईटी पूर्व छात्र मिलन टेक्सास में बिछा यादों का कारवां, उमड़ा भारत का जोश

'प्लास्टिक प्रदूषण को वैश्विक स्तर पर करें खत्म'

नवभारत
राजधानी रायपुर : राष्ट्रीय प्रदूषण नियंत्रण (एनआईटी) में विश्व पर्यावरण दिवस पर विभिन्न आयोजन, प्रतिभागियों को किया पुरस्कृत

कैपस चयन एनआईटी के 4 छात्रों को मिला प्री-प्लेसमेंट और पूर्णकालिक ऑफर

सचिन, अर्पित को 58.30 और विभोर व सजल को 52 लाख का पैकेज

रवदेश समाचार ॥ रायपुर प्रकाश का आयोजन किया गया था। फंडमेंटल और वेब डेवलपमेंट

नरदहा गांव में स्वास्थ्य शिविर का आयोजन
एनआईटी में स्वास्थ्य शिविर, ब्लड प्रेशर, शुगर और वजन की जांच

ENVIRONMENT DAY

NIT -R celebrates Environ Day aiming Green Champion

रोबोटिक्स और ऑटोमेशन के लिए बनेगा सेंटर ऑफ एक्सीलेंस

एनआईटी रायपुर में नासा के यूरोपा क्लिपर मिशन पर वर्चुअल टॉक का आयोजन

एनआईटी रायपुर में आयोजित हुआ 11वां अंतर्राष्ट्रीय योग महोत्सव, सभी ने मिलकर जाना योग का महत्व

सारांश-पीयूष को 35.97 और दिव्यांश-आयूष को मिला 24.69 लाख का पैकेज
एनआईटी के 4 छात्रों को अमेरिका की कंपनी में मिला लाखों का ऑफर

राजधानी रायपुर : एनआईटी के छात्रों को अमेरिका की कंपनी में मिला लाखों का ऑफर

एनआईटी में आर्टिफिशियल इंटेलिजेंस हार्डवेयर एक्सेलेरेटेड चिप विषय पर व्याख्यान

एनआईटी में ई-समिट

बायोमैडिकल इंजीनियरिंग में आईसीएस्ट 2025 सम्मेलन का आयोजन
एनआईटी के छात्रों ने सीखे इंजीनियरिंग क्षेत्र में नवाचार व तकनीकी शोध का गुण

राजधानी रायपुर : बायोमैडिकल इंजीनियरिंग में आईसीएस्ट 2025 सम्मेलन का आयोजन

रवदेश
शिक्षार्थियों ने प्रदर्शित किए अपने नवाचार और सिद्धिनिर्वाह के आइडिया
अविन्या 25 में एनआईटी के छात्रों ने सीखे इनोवेशन-उद्यमिता के गुण

राजधानी रायपुर : अविन्या 25 में एनआईटी के छात्रों ने सीखे इनोवेशन-उद्यमिता के गुण

सिक्स-जी नेटवर्किंग पर शैक्षणिक संवाद का केंद्र बना एनआईटी रायपुर

एनआईटी में एंटीना तकनीकों में नवाचारों पर एफडीपी

NIT Raipur starts 5-day FDP on Emerging Technologies with a practical approach

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NIT Raipur celebrated World Environment Day



NIT Raipur celebrated **World Environment Day** on 5th Jun. 2025. A pledge and prize distribution ceremony was organized. It was graced by the esteemed presence of **Dr. Alok Kumar Sahu**, *Director, CIPET Raipur*, as *Chief Guest* and **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, as *Special Guest*. In this program, **Dr. Narendra D. Londhe**, *Registrar, NIT Raipur*, and **Dr. Manoj Kumar Chopkar**, *Dean (SW)*, Faculty members, staff, and students were also present.



A series of outreach activities, including a Walkathon, Poster Making, Best Out of Waste, Awareness Rally, Plastic Collection Drive, Pledge Ceremony, and an Industrial Visit to a Plastic Processing Unit, were organized during the months of May and June 2025. These initiatives were organized under the Ministry of Education's directives, under the theme *End Plastic Pollution Globally*. All activities were organized under the guidance of **Dr. D.C. Jhariya**, *Chief Faculty (I/C), Go Green Club*, **Dr. Govind P. Gupta**, *Faculty (I/C), Go Green Club*, and **Dr. Kabita Biswas Sharma**, *Faculty (I/C), Go Green Club*. The day started with the Green Champion event, where all those who arrived using sustainable modes of transport received a "Green Champion Badge" and had the opportunity to click a photo at the special "Eco-Themed Selfie Stand."

In his address, **Dr. Sahu** said that plastic pollution is a significant challenge and is a more visible form of pollution compared to others. He mentioned that the per capita plastic

consumption in India is around 50 kg, which is much lower than that of the US and China. **Dr. Rao** also shared his thoughts on the occasion. He emphasized the principle of the 3 R's - Reduce, Reuse, and Recycle. He stated that the event aimed to encourage sustainable activities such as planting trees and promoting these practices among others. The event then proceeded with recognizing the talented participants and felicitating them with the awards for the Poster Making competition and the Hackathon. The event concluded with **Dr. Rao** taking a pledge along with the attendees, promising to conserve the environment, take care of it, and encourage others to do the same.

NIT Raipur inaugurated newly built Smart Classrooms and Data Science & Analytics Lab



NIT Raipur inaugurated three State-of-the-art smart classrooms and a Data Science & Analytics Laboratory. This initiative marks a significant step toward strengthening the institute's academic infrastructure. The event was graced by **Dr. Suresh Haware**, *Chairman, Board of Governors, NIT Raipur and IIT Bhilai*, who inaugurated the new facilities. The other dignitaries present were **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Mr. Umesh Chitlangia**, *President, Alumni Association, GEC-NIT Raipur and Chairman, Polybond Insulation Pvt. Ltd.*, **Mr. Hemant Verma**, *Chairman, Chhattisgarh State Electricity Regulatory Commission*, **Dr. N.D. Londhe**, *Registrar, NIT Raipur*, along with all Deans, HoDs, faculty members, section heads, distinguished alumni, and students.

The first smart classroom, F-40, *CSE*, was inaugurated by **Dr. Haware**. The second, F-38, *ME*, was inaugurated by **Mr. Chitlangia**, and the third, F-13, *DME*, and the Data Science & Analytics Lab were inaugurated by **Dr. Haware**. The inauguration ceremony began with a welcome address by **Dr. Pradeep Singh**, *HoD, CSE*. In his address, **Dr. Rao** emphasized that students have the right to access world-class academic infrastructure, and the administration is committed to providing such facilities. **Mr. Chitlangia** stated that these facilities would empower students. **Dr. Haware** reiterated his commitment to transforming NIT Raipur into a world-class campus and making its mark in the world. The event concluded with a vote of thanks delivered by **Dr. S. Sanyal**, *Dean (Corporate Relations and Resource Generation)*.

NIT Raipur Celebrated International Yoga Day



NIT Raipur marked the 11th International Day of Yoga on 21st Jun. 2025 with a vibrant event at the institute's Sports Complex. The celebration saw enthusiastic participation from faculty members, staff, their families, and students, fostering a spirit of wellness and unity. The event began with a live telecast of **Hon'ble Prime Minister Shri Narendra Modi's** address, followed by the Common Yoga Protocol session, where participants engaged in various asanas and pranayama practices. The occasion was graced by **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Manoj Chopkar**, *Dean (SW)*, **Dr. Samir Bajpai**, *HoD, DHSS*, **Dr. Manju Shukla**, *Yoga Faculty*, **Mr. Suraj Nishad**, *Yoga Faculty*, other Faculty members, and students. In the post-yoga session, **Dr. Shukla** delivered an introductory speech, emphasizing this year's theme **Yoga for One Earth, One Health**, and highlighted the profound connection between human well-being and planetary health. A captivating yoga performance by students who excelled in the **Inter-NIT Yoga Competition** showcased the discipline and balance that yoga cultivates. **Dr. Chopkar** expressed

gratitude towards the **Director** and participants while commending the organizing team for their efforts. **Dr. Rao** lauded the overwhelming participation and underscored India's global legacy in yoga, encouraging everyone, especially students, to adopt yoga and meditation for mental harmony and inner strength. The event also featured the felicitation of outstanding students from the Inter-NIT Yoga Competition. The celebration concluded with a vote of thanks by **Dr. Bajpai**, who acknowledged the collective efforts behind the event's success and the dignitaries' unwavering support. The occasion reinforced NIT Raipur's commitment to promoting holistic health and sustainable living through yoga.

NIT Raipur set to establish Centre of Excellence



NIT Raipur is set to establish **Centre of Excellence for Innovation and Entrepreneurship in Engineering & Technology (CoE-IEET)** with a generous pledge of ₹71 crores from **Shri Raamdeo Agrawal**, *Chairman, Motilal Oswal Foundation*, and a renowned industrialist. This visionary initiative, set to transform NIT Raipur into a **National Hub for Innovation**, will drive economic growth and cultivate future-ready talent across India.

The proposal for **CoE-IEET** was formally presented on 4th Apr. 2025, in Mumbai by **Dr. Samir Bajpai**, *Head, CDC*, **Dr. Anuj K. Shukla**, *Faculty In-charge, NITRRFIE*, and **Mr. Pawan Kataria**, *Assistant Registrar, Dean (P&D) and CDC*. The project received enthusiastic approval from **Shri Agrawal**, along with **Vedika Agrawal**, *Director, Motilal Oswal Foundation*, and **Mr. Maharshi Vaishnav**, *CEO, Motilal Oswal Foundation*. The tripartite collaboration between the **NIT Raipur**, **Motilal Oswal Foundation**, and the **Government of Chhattisgarh** marks a significant milestone in advancing innovation-led development, represented by **Dr. Gaurav Kumar Singh**, *IAS, Collector, Raipur*, and **Mr. Abinash Mishra**, *IAS, Collector, Dhamtari*, respectively.

Shri Agrawal, a proud native of **Chhattisgarh**, has consistently championed the state's progress despite his global achievements. His **71-crore commitment** reflects both his strategic vision for nation-building and his deep-rooted connection to his homeland. The **CoE-IEET** will focus on key sectors such as Mining, Iron & Steel, Power, and Process Industries, fostering Cutting-Edge Research, Entrepreneurship, and Industrial transformation. **Dr. Suresh Haware**, *Chairman, Board of Governors, NIT Raipur and IIT Bhilai*, and **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, expressed profound gratitude by stating that **Shri Raamdeo Agrawal's** generosity had empowered a new generation of innovators and leaders, shaping not just Chhattisgarh's future, but India's as well. **Mr. Mishra** emphasized the initiative's alignment with Chhattisgarh's vision for self-reliant and sustainable growth.

NIT Raipur in Asia University Rankings 2025

NIT Raipur has made a notable debut in the **Asia University Rankings 2025**, securing a position in the **301-350** range. The Institute performed particularly well in research quality, reflecting its strong research influence and citation impact. This recognition highlights NIT Raipur's commitment to producing high-quality research, fostering international collaborations, and improving its teaching environment and industry connections.

NIT Raipur celebrated 134th Birth Anniversary of Bharat Ratna Babasaheb Dr. B.R. Ambedkar



NIT Raipur celebrated the **134th Birth Anniversary of Bharat Ratna Babasaheb Dr. B. R. Ambedkar**. The commemorative event, held on 14th Apr. 2025, was a testament to the enduring legacy of the visionary leader and the values he espoused. The event was graced by the presence of distinguished dignitaries, including the *Chief Guest*, **Mr. Mahadev Kavre**, *IAS, Divisional Commissioner, Raipur (C.G.)*, **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. N.D. Londhe**, *Registrar, NIT Raipur*, **Dr. Manoj Kumar Chopkar**, *Dean (SW)*, **Dr. Shrish Verma**, *Dean (Academics)*,

Dr. G. D. Ramtekkar, *Dean (P&D)*, **Dr. M. Atulkar**, *Professor, MCA*, and other esteemed Faculty members and students. The organizing committee including, **Dr. Suraj Kumar Mukti**, *Associate Professor, ME*, **Dr. Baidyanath Bag**, *Assistant Professor, EE*, **Dr. D.C. Jhariya**, *Associate Professor, DAG*, **Dr. Sanjay Kumar**, *Associate Professor, IT*, **Dr. Nisha Netam**, *Associate Professor, ME*, **Dr. C. Jatoth**, *Assistant Professor, IT*, **Dr. Shruti Nagdeve**, *Assistant Professor, DAP*, **Dr. Sukeshni Tirkey**, *Assistant Professor, ECE*, **Shri. Teman Thakur**, *Technical Assistant, ME*, and others received accolades for their planning and execution, ensuring a memorable event.

The program commenced with the National Song, *Vande Mataram*, followed by the dignitary's paying homage to *Babasaheb* by lighting candles and offering garlands on his photograph. **Dr. Atulkar**, in his inaugural speech, highlighted the power of education in uplifting the deprived, echoing *Babasaheb's* words that he measured the progress of a community by the degree of progress which women of the community have achieved. **Dr. Londhe**, emphasized that education is not just a medium but the ultimate goal, stating that it leads individuals from ignorance to knowledge and has inspired millions to empower themselves. In his presidential address, **Dr. Rao** described **Bharat Ratna Babasaheb Dr. B. R. Ambedkar** as a visionary Jurist, Economist, and the *Chief Architect* of the Indian Constitution, whose academic brilliance continues to inspire millions.

The event also witnessed an address by the *Chief Guest*, **Mr. Kavre**, who exemplifies the transformative power of education and determination. Originating from the remote village of Bijapur in Bastar, he overcame numerous challenges to pursue higher education, starting from Bastar High School to pursuing *B.Tech, ME*, and *MTech, IIT Delhi* through GATE. Deeply influenced by **Dr. B.R. Ambedkar's** vision, Mr. Kavre believes that *Cultivation of mind should be the ultimate aim of human existence*. **Dr. Mukti** expressed gratitude through a heartfelt vote of thanks, acknowledging the contributions of all those involved in organizing the event. The program culminated with a rendition of the national anthem, *Jana Gana Mana*, stirring emotions of patriotism and pride.

NIT Raipur organised Energy Summit 2025



IWRS Student Chapter, NIT Raipur, in collaboration with **Chhattisgarh State Renewable Energy Development Agency (CREDA)**, successfully hosted the **Energy Summit 2025** on 28th Mar. 2025 under the theme *Solar Energy Today's Solution for Tomorrow's Problems*. The event was graced by dignitaries, including **Dr. Manoj Kumar Chopkar**, *Dean (SW)*, and **Dr. Priyanka Pachauri**, *Project Coordinator, CREDA*. Marking a significant milestone, **The Energy Club** - a student-led initiative was launched to drive energy conservation through workshops, hands-on projects, and awareness campaigns.

During the summit, **Dr. Pachauri** underscored the alignment of the club's goals with **UN Sustainable Development Goals 7 (Affordable and Clean Energy)** and **13 (Climate Action)**. She highlighted the alarming environmental impact of energy misuse, citing *black body radiation's role in endangering crow populations*, and urged students to engage in energy audits and adopt conservation practices. The club's initiatives, such as Poster Display and Slogan Campaigns, aimed to embed sustainability into campus culture under the motto *Together, let's make energy conservation a habit, not an option*. **Dr. Pachauri** also introduced the **Energy Championship Programme** to incentivize innovative solutions for energy efficiency. The summit concluded with the announcement of the **Poster Making Competition Winners**. The event reinforced NIT Raipur's commitment to fostering sustainable practices and equipping students to address global energy challenges through innovation and collaboration.

Interactive Session on Water Conservation



NIT Raipur organized an **Interactive Session On Water Conservation And Climate Change** on 20th May 2025. The program was organized under the guidance of **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*. **Dr. Rajendra Singh**, known as *The Waterman of India*, was invited as the expert speaker for the session. The session was graced by **Dr. M. K. Verma**, *Professor, CE*, **Dr. Samir Bajpai**, *Professor, CE*, and **Dr. Shirish V. Deo**, *Professor & Head, CE*. **Dr. Singh** highlighted that around 72% of India is facing water stress,

with 17 states being severely affected. He stressed the urgency of environmental action. He offered community-centric solutions like the revival of check dams and rivers.

NIT Raipur organized a Stakeholders Consultation Program



NIT Raipur organized a **Stakeholders Consultation Program** titled **Flowing with Purpose Strengthening Capacity for Aviral Dhara of Mahanadi** on 21st Mar. 2025, commemorating **World Water Day**. The event conducted by the **Center for Mahanadi River Basin Management & Studies (cMahanadi)** under the **Department of Civil Engineering**, brought together key stakeholders, including **Dr. A.B. Soni**, *Director (I/C), NIT Raipur*, **Dr. Tej Ram Nayak**, *Scientist-G [Retd.], NIH Roorkee*, **Ms. Bijimol Jose**, *Scientist-D, CGWB*, **Shri D.S. Goyal**, *Deputy Director, CWC*, **Dr. Shirish V. Deo**, *Professor & Head, CE*, **Dr. Samir Bajpai**, *Professor, CE and Center Head*, **Dr. Chandan Kumar Singh**, *Assistant Professor, CE*, and researchers, to discuss sustainable strategies for maintaining uninterrupted flow (*Aviral Dhara*) in the Mahanadi River Basin.

The program commenced with a welcome address by **Dr. Sahajpreet Kaur**, *Senior Project Scientist, cMahanadi, NIT Raipur*, and **PGY-3 Internal Medicine, AdventHealth Sebring**. It was followed by an overview of **cMahanadi's** mission and initiatives by **Dr. Soni**, who emphasized the ecological and socio-economic importance of river conservation. **Dr. Bajpai**, *Center Head*, highlighted stakeholder collaboration for project sustainability, noting its implementation across six major river basins in India. The *Chief Guest*, **Dr. Nayak**, addressed Chhattisgarh's water scarcity despite abundant resources, advocating for Rainwater Harvesting, Watershed Management, and Community Participation to ensure year-round river flow. **Ms. Jose** elaborated on Groundwater-Surface Water Interaction, stressing Aquifer Recharge for river sustainability. **Shri Goyal** underscored the need for accurate Hydrological Data to guide basin management.

A key highlight was the launch of the **cMahanadi website** and **mobile app**, developed by **Dr. Singh**, designed for real-time

data sharing and community engagement. An open discussion with stakeholders from **CWC, CGWB, and WRD** identified challenges in maintaining *Aviral Dhara*, fostering collaborative solutions. The event concluded with a vote of thanks by **Dr. Kaur**, reinforcing the commitment to integrated river basin management. In a parallel initiative, the **IWRS Student Chapter** conducted an E-quiz on *Glacier Conservation* on 22nd Mar. 2025. With 70+ participants from **IIT Delhi, IIT Roorkee, CSVTU, and NIT Raipur**, the quiz highlighted glaciers' role in freshwater supply and the urgent need to combat climate-induced melting.

NITRRFIE

NITRRFIE organizes FDP on Innovation and Entrepreneurship



NIT Raipur Foundation for Innovation and Entrepreneurship (NITRRFIE), in collaboration with the **Ministry of Education's Innovation Cell** and **AICTE**, hosted a **five-day Faculty Development Program (FDP) on Innovation and Entrepreneurship** from 17th Mar. 2025 to 21st Mar. 2025. The program aimed to cultivate entrepreneurial mindsets among 50 educators, incubation managers, and startup founders from Chhattisgarh, equipping them with skills to mentor student ventures and drive institutional innovation.

The inauguration on 17th Mar. 2025 was graced by **Dr. Piyush Lotia**, Head, ETC, Government Girls Polytechnic Raipur & Program Head, iHub Chhattisgarh, **Dr. N.V. Ramana Rao**, Director, NIT Raipur, **Dr. Samir Bajpai**, Board Director, NITRRFIE, and **Dr. G.D. Ramtekkar**, Dean (P&D), NIT Raipur. **Dr. Rao** emphasized the FDP's role in fostering research-driven entrepreneurship, while sessions by **Mr. Divya Pritwani**, Incubation and Innovation Leader, Startup Community Volunteer, Headstart on Falling in Love with Problems, **Dr. Anuj Kumar Shukla**, Faculty In-charge, NITRRFIE, emphasized *Evangelizing Entrepreneurship among Students*, and **Mr. Pawan Kataria**, Officer In-charge, NITRRFIE, on *Creativity and Idea Generation*, highlighting

the key points on problem-solving, student mentorship, and academic innovation. Topics spanned AI-driven solutions, business models, IP management, and financial planning, with hands-on activities reinforcing practical skills.

The valedictory ceremony on 21st Mar. 2025 featured **Prof. Hulas Pathak**, CEO, Agri-Business Incubation Centre, IGKV Raipur, as Chief Guest, **Dr. A.B. Soni**, Director In-charge, NIT Raipur, and **Dr. P.Y. Dhekne**, Registrar, NIT Raipur. **Prof. Pathak** urged leveraging incubation hubs for agricultural tech and sustainable startups, while participants shared insights on integrating entrepreneurship into curricula. Certificates were awarded to attendees, acknowledging their commitment to nurturing innovation. Coordinators **Dr. Anuj Kumar Shukla**, **Dr. D.S. Sisodia**, Associate Professor, CSE, and **Mr. Pawan Kataria** were commended for their efforts, with **Mr. Kataria** delivering the vote of thanks.

The FDP successfully bridged academia and industry, empowering educators to build **Startup Ecosystems** in higher education institutions. By fostering collaboration between **NITRRFIE, MoE, and AICTE**, the program strengthened regional innovation frameworks, aligning with National goals for self-reliance and economic growth.

NITRRFIE Hosts Expert Session on Innovation and Entrepreneurship by Dr. Suresh Haware



NIT Raipur Foundation for Innovation and Entrepreneurship (NITRRFIE) organized an expert session on **Real Business Insights into Innovation and Entrepreneurship** featuring **Dr. Suresh Haware**, Chairman, Board of Governors, NIT Raipur and IIT Bhilai, as part of its ongoing **Faculty Development Program (FDP)** on 21st Mar. 2025. The event was attended by **Dr. N.V. Ramana Rao**, Director, NIT Raipur, **Dr. Samir Bajpai**, Head, CDC, Deans, Department Heads, Faculty members, and 50 educators, incubation managers, and entrepreneurs from across Chhattisgarh. **Dr. Haware**, a veteran nuclear scientist and current Chairman of Haware Properties, drew on his 27

years at Bhabha Atomic Research Centre to stress that innovation drives business growth. He highlighted the importance of embracing entrepreneurial thinking, focusing on job creation, and integrating technology, research, and sustainability for competitive, impactful businesses. The session saw active engagement from incubated startup founders at NITRRFIE, who sought guidance on innovation-driven enterprises. **Dr. Bajpai** presented a memento to **Dr. Haware** in appreciation of his insights. The FDP, conducted in collaboration with the **Ministry of Education's Innovation Cell** and **AICTE**, aimed to bridge academia and entrepreneurship by fostering an **innovation-driven mindset** among educators and entrepreneurs. The program was organized under the guidance of **Dr. Bajpai**, with **Dr. Anuj Kumar Shukla**, *Faculty In-charge, NITRRFIE* and **Mr. Pawan Kataria**, *Officer In-charge, NITRRFIE*.

Centre of Space and Interplanetary Exploration (COSINE)

NIT Raipur's COSINE to Lead NASA Space Apps Challenge 2025 in Raipur

NIT Raipur's COSINE has been officially selected as the **Local Lead for the prestigious NASA International Space Apps Challenge 2025**, marking a significant milestone for the Institute. The NASA Space Apps Challenge is the world's largest annual global hackathon, which will take place on 4th and 5th Oct. 2025, inviting technologists, scientists, students, engineers, and innovators from across the region to collaborate on solving real-world challenges using open-source NASA data. In the event, Participants will engage in collaborative problem-solving, showcase their technological skills, and contribute to NASA's mission of advancing Earth and space science. The selection of NIT Raipur's COSINE as the Local Lead highlights its commitment to fostering innovation and technological growth.

Virtual Session by NASA Scientist



Center of Space and Interplanetary Exploration (COSINE), NIT Raipur, organized a virtual session on **The Story of the NASA Europa Clipper Mission — Investigating Europa's Habitability** on 4th Apr. 2025. The speaker was **Dr. Murthy Gudipati**, *NASA-JPL Scientist*. The

event was organised under the guidance of **Dr. Saurabh Gupta**, *Faculty In-charge, COSINE*.

He talked about the Europa Clipper Mission and its aim to explore the potential for life on Europa. He emphasised that they hoped to gain insights into the planet's atmosphere and structure. At the end of the program, he inspired the audience by encouraging them to dream big and embrace challenges.

Executive M.Tech. Program in AI & ML

NIT Raipur is proud to announce an **Executive M.Tech. Program** in the area of **AI & ML** in collaboration with **National Skill Development Corporation (NSDC)**. This program is designed to empower working professionals by enhancing their skills in AI and ML, enabling them to apply advanced technologies effectively within their respective fields. The launching event was carried out in the gracious presence of **Prof. (Dr.) N.V. Ramana Rao**, *Director, NIT Raipur*, and **Shri Manish Upadhyay**, *Consultant, NSDC*, alongside **Dr. Shrish Verma**, *Dean (Academics)*, **Dr. Pradeep Singh**, *HoD, CSE*, **Dr. Dilip Singh Sisodia**, *Associate Professor, CSE*, and other faculty members.

M.Tech. Program in Biomedical Engineering

NIT Raipur is set to launch a new **M.Tech program in Medical Devices funded by the Ministry of Pharmaceuticals and Chemical Fertilizers** in the **Department of Biomedical Engineering** starting from Jul. 2025, with an intake of 30 students. The initiative is backed by a ₹13 crore grant from the central government. The program will focus on the design, manufacturing, and quality testing of medical devices. Students will receive hands-on training in advanced labs and gain exposure to clinical instrumentation, prosthetic development, and diagnostic tools such as ECG, EEG, and CT scanners.

MOUs

NIT Raipur and Janyu Technologies Pvt. Ltd.



NIT Raipur and Janyu Technologies Pvt Ltd. signed a Memorandum of Understanding (MoU) on 2nd May 2025. In presence of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Shri Abhimanyu Raja**, *Managing Director, Janyu Technologies Pvt Ltd.*, **Dr. S. Verma**, *Professor, ECE*, **Dr. Samir Bajpai**, *Head (CDC), Professor, CE*, **Dr. G. D. Ramtekkar**, *Dean (P&D)*, **Dr. S. Gupta**, *Dean (Academics)*, **Dr. N. D. Londhe**, *Registrar, NIT Raipur*, **Mr. Rajesh P Modgekar**, *Head of Operations, Janyu Technologies Pvt. Ltd.*, **Mr. Sudhir Jha**, *VP Business, Janyu Technologies Pvt Ltd.* The agreement focuses on establishing a Centre of Excellence (CoE) for Robotics & Automation, marking a strategic partnership to foster innovation, research, and skill development in the fields of Robotics, Industrial Automation, and Artificial Intelligence. The CoE will serve as a collaborative hub for Advanced Robotics and AI, offering hands-on training, research, and project work for students and professionals. It will launch undergraduate, postgraduate, and certified training programs in Robotics & Automation, building a skilled workforce in Chhattisgarh. This partnership between NIT Raipur and Janyu Technologies underscores their commitment to industry-integrated education, boosts employability, and supports India's leadership in automation.

NIT Raipur bids Farwell to Esteemed Faculty and Staff Members

NIT Raipur extended its heartfelt gratitude to its esteemed faculty and staff members who retired after years of dedicated service. Farewell ceremonies were organized to honor retiring staff members: **Dr. Ashok Kumar Shrivastav**, *Professor, DoP*, who retired on 30th March 2025 and was felicitated on 30th April 2025; **Shri Gulab Singh Thakur**, *Senior Lab Attendant, DCE*, who retired on 30th April 2025; and **Shri Shatruhan Lal Sahu**, *Senior Superintendent, Finance & Accounts*, who retired on 31st May 2025 and was honoured on 30th May 2025. The institute sincerely appreciates their valuable contributions and extends best wishes for their future endeavours.

NIT Raipur Pays Tribute to Dr. Harendra Bikrol

NIT Raipur mourns the sad demise of **Dr. Harendra Bikrol**, *Associate Professor, MCA*. A dedicated educator and mentor, **Dr. Bikrol's** contributions to academic excellence and student welfare have left an indelible mark. He will be deeply missed. We offer our heartfelt condolences to his family and friend

Academic Activities

2nd International Conference on Computational Intelligence and Network Security (ICCINS)



Department of Computer Science and Engineering (CSE), NIT Raipur organized the 2nd International Conference on Computational Intelligence and Network Security (ICCINS) on 3rd Apr. 2025. The inaugural ceremony was

graced by **Dr. Dhruv Gupta**, *IPS IG, Chhattisgarh Police*, as the *Chief Guest*, and **Dr. N.V. Ramana Rao**, *Director, NIT Raipur* as the *Guest of Honor*. **Dr. Sumantra Dutta Roy**, *Professor, IIT Delhi*, **Dr. Shrish Verma**, *Dean (Academics), NIT Raipur*, and **Dr. Pradeep Singh**, *HoD, CSE*, served as the

Special Guests. The Organising Secretaries included **Dr. Preeti Chandrakar**, *Assistant Professor, CSE*, **Dr. K Jairam Naik**, *Assistant Professor, CSE*, and **Dr. Karnati Mohan**, *Assistant Professor, CSE*.

Dr. Gupta spoke about global digital trends and the rise of cybercrimes. **Dr. Chandrakar** highlighted the aim of the conference to focus on innovation in fields such as Artificial Intelligence and Machine Learning. **Dr. Rao** discussed how computational intelligence could aid in enhancing network

security. **Dr. Verma** stressed that the audience would learn a lot from the experts. **Dr. Singh** spoke about the increasing application of computational intelligence in network security. **Dr. Naik** concluded the session with a vote of thanks.

The Valedictory Ceremony was held on 4th Apr. 2025. It was graced by **Dr. Satyasiba Das**, *Dean, IIM Raipur* as the *Chief Guest* and **Prof. Anil Kumar Tiwari**, *Dean (FW), NIT Raipur* as the *Guest of Honour*.

Dr. Chandrakar highlighted that there were 520 participants from nine countries and that 30 papers were shortlisted. **Dr.**

Das discussed the importance of understanding causality and shared insights from industry projects. **Prof. Tiwari** described data as the new currency and the opportunities and challenges it presents. **Dr. Singh** stressed the importance of ethical considerations in technological advancements. **Dr. Naik** delivered the vote of thanks.

3rd International Conference on Biomedical Engineering Science and Technology (ICBEST)



Department of Biomedical Engineering (BME), NIT Raipur successfully hosted the 3rd International Conference on Biomedical Engineering Science and Technology (ICBEST-2025) from 10th to 11th Apr. 2025. The inaugural ceremony included **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Arindam Bit**, *HoD, BME*, **Dr. Bikesh Kumar Singh**, *Conference Chairman*, along with coordinators **Dr. Nishant Kumar Singh**, *Assistant Professor, BME*, **Dr. Neelam Shobha Nirala**, *Assistant Professor, BME*, **Dr. Saurabh Gupta**, *Associate Professor, BME*, and **Dr. R. Marieswaran**, *Assistant Professor, BME*. The conference featured an international keynote speaker, **Mr. Mohammad Yaseen Sikander** from *Majmaah University, Saudi Arabia*, who aimed to bridge cutting-edge computational techniques with biomedical applications to revolutionize healthcare solutions.

The inaugural ceremony began with an address emphasizing the conference's role in fostering innovation. **Dr. Bit** highlighted biomedical engineering's significance in healthcare, while **Dr. Marieswaran** detailed ICBEST's evolution as a premier research platform. **Dr. Rao** underscored the interdisciplinary convergence of AI, Machine Learning, and Biomedical Systems, particularly in Advanced Imaging and Disease Modelling. The technical sessions featured 51 selected papers from 120 submissions.

The valedictory ceremony on 11th Apr. 2025 was graced by the presence of **Dr. A.B. Soni**, *Director-in-charge, NIT Raipur*. **Dr. Soni** commended the organizers for creating a global knowledge-sharing platform, while **Dr. Singh** summarized

the conference's academic achievements. Outstanding contributions across seven technical tracks were recognized through the Best Paper Awards. The event concluded with **Dr. Gupta's** vote of thanks.

Session on Artificial Intelligence Hardware Accelerated Chip



Department of Electronics and Communication Engineering (ECE), NIT Raipur, organized a session on Artificial Intelligence Hardware Accelerated Chip on 8th Apr. 2025. The session was delivered by **Prof. Santosh Kumar Vishvakarma**, *Professor, IIT Indore*. The esteemed guests included **Dr. Dilip Singh Sisodiya**, *Associate Professor, CSE*, and **Dr. Toshnall Meenpal**, *HoD, ECE*.

Prof. Vishvakarma shed light on how custom-designed hardware accelerators were transforming Artificial Intelligence applications. He underscored the significance of collaborative research between hardware designers and AI researchers. The event was coordinated by **Dr. Chitrakant Sahu**, *Associate Professor, ECE*, who encouraged interdisciplinary research in the domain of AI hardware.

Industrial Visit to the Dalli Rajhara Mines



Department of Mining Engineering (DME), NIT Raipur, organized an industrial visit to the Dalli Rajhara Mines under the supervision of **Dr. D.C. Jhariya**, *Associate Professor, DAG*. The industrial visit was conducted in collaboration with the **Bhilai Steel Plant**. The students interacted with **Mr. Ajay Chaturvedi**, *Alumnus (DME/2002), Assistant General Manager, Rajhara Mines*. His insights and experiences enriched the students' understanding of industry practices. The visit also included a geological expedition, which deepened

their knowledge of geological formations and mineral identification.

Expert Lecture on A Roadmap to Data Analytics in Today's World



Department of Mathematics (DoM), NIT Raipur, organized an expert talk titled **A Roadmap to Data Analytics in Today's World** delivered by **Ms. Shanu Agrawal**, *Senior Data Scientist, Cognizant, Raipur* on 3rd May 2025. **Ms. Agrawal** began the session by introducing the concept of data analytics as the process of examining raw data to discover meaningful patterns, trends, and insights. She highlighted how the digital transformation has made Data Analytics indispensable in identifying business opportunities and enhancing customer experience. She presented an overview of tools essential for data analysts: Excel, Power BI and Tableau, SQL, and Python. Practical insights were shared through real-life case studies involving companies like Walmart, Starbucks, and Amul. The session by **Ms. Agrawal** provided a comprehensive view of Data Analytics.

FDP on Advanced Topics in FinTech Security at NIT Raipur



Department of Information Technology (IT), NIT Raipur, in collaboration with IIT Bhilai's CSE Department, inaugurated a five-day **Faculty Development Program (FDP) on Advanced Topics in FinTech Technology** on 17th Mar. 2025, under the **ISEA-III Initiative** sponsored by **MeitY, GOI**. The event aimed to bridge academia and industry in FinTech and Cybersecurity.

The *Chief Guest* for the event **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, emphasized **combating cyber-attacks** through innovation. **Prof. Santosh Biswas**, *IIT Bhilai*, and **Prof. Shrish Verma**, *Dean (Academics), NIT Raipur*, highlighted IoT security and data protection as critical for FinTech. **Dr. Sanjay Kumar**, *HoD, IT* outlined the FDP's focus on Blockchain, Crypto, and Sustainable FinTech, Blending Theory with hands-on learning. The coordinators for the FDP included **Dr. Chandrashekar Jatoth**, *Assistant Professor, IT, NIT Raipur*, **Dr. Rakesh Tripathi**, *Associate Professor, IT, NIT Raipur*, along with **Dr. Souradyuti Paul**, *Associate Professor, IIT Bhilai*.

Over the course of five days, the FDP saw enthusiastic participation. The valedictory ceremony of the FDP on 21st Mar. 2025 featured insights from **Dr. Verma**, who stressed applying **FinTech security** practices in real-world scenarios, and **Dr. Kumar**, who lauded the coordinators for their seamless execution. Experts such as **Prof. R.K. Shyamasundar**, *JC Bose National Fellow and Distinguished Visiting Professor, CSE, IIT Bombay*, spoke on Blockchain Security; **Dr. Souradyuti Paul**, *Associate Professor, CSE, IIT Bhilai*, addressed Blockchain-Based Voting Systems; and **Dr. Reeta Sony**, *Associate Professor, Centre for the Study of Law and Governance, JNU*, discussed the politics of Technology and Disruptive Innovations. Their sessions spanned topics including Biometric Authentication, Cryptocurrency Risks, Cyber Threat Intelligence, and Consensus Algorithms. Hands-on workshops by **Dr. Lavanya Settupalli**, *Assistant Professor, Dept. of Cyber Security, IIIT Kottayam*, on **Fingerprint Recognition** and **Dr. Dhiman Saha**, *Assistant Professor, CSE, IIT Bhilai* on **TrustTokens** equipped participants with practical skills.

FDP on Emerging Technologies with a Practical Approach



Department of Electronics and Communication Engineering (ECE), NIT Raipur, organized the inauguration ceremony for a **5-Day Faculty Development Programme (Hybrid Mode) on Emerging Technologies with a Practical Approach Cybersecurity and AI/ML** sponsored by the

Ministry of Electronics and Information Technology (MeitY), GOI on 26th May 2025. It has been jointly organized by **E&ICT Academy, NIT Warangal**, and **E&ICT Academy, NIT Raipur**.

The program was graced by the presence of the *Chief Guest*, **Dr. A. K. Turuk**, *Professor, CSE, NIT Rourkela*, and the *Guests of Honor*, **Dr. P. Sreehari Rao**, *Professor, ECE, NIT Warangal*, and **Dr. T. Meenpal**, *HoD, ECE, NIT Raipur*. The coordinators for the FDP included **Dr. B. Acharya**, *Associate Professor, ECE, NIT Raipur*, and **Dr. A. S. Raghuvanshi**, *Chief Investigator, E&ICT Academy*. **Dr. Raghuvanshi** highlighted the role and initiatives of the E&ICT Academy. **Dr. Meenpal** provided an overview of the ECE department's vision in research and innovation. **Dr. Rao** addressed the importance of this FDP, and **Dr. Turuk** emphasized the critical role of Cybersecurity.

Certificate Course on Applied Data Analytics: A Practical Approach

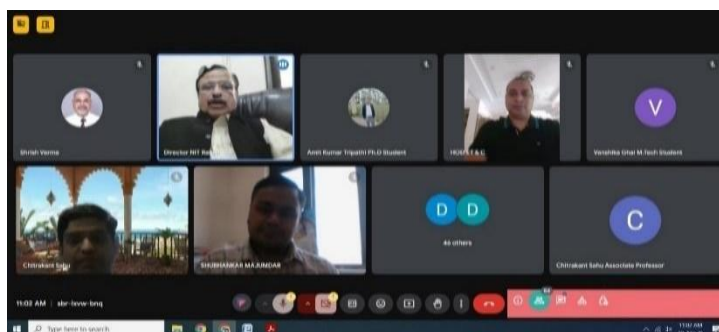


Continuing Education Cell (CEC), NIT Raipur, organized a 15-Days summer course on **Applied Data Analytics: A Practical Approach** from 26th May 2025 to 9th Jun. 2025. This certificate course was organized under the guidance of **Dr. Subhojit Ghosh**, *Chairman, CEC*, and conducted by **Dr. Govind P. Gupta**, *Associate Professor, IT*, and **Dr. Mridu Sahu**, *Assistant Professor, IT*. The main objective of the course was to help participants develop a solid understanding of data science and analytics techniques such as Data Pre-Processing, Predictive Analysis, Fundamentals of Data Statistics, Machine Learning Techniques, and Data Visualization, with the help of emerging tools like Python and R.

The Valedictory event was conducted on 9th Jun. 2025, which was graced by the presence of **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, as the *Chief Guest*. **Dr. S. Ghosh**, *Chairman, CEC*, and **Dr. Sanjay Kumar**, *HoD, IT* were the Guest of Honour. **Dr. Rao** spoke on the importance of data analysis and its applications across various domains. **Dr. Sahu**

had presented the entire event, and **Dr. Gupta** delivered the vote of thanks. The course witnessed the presence of 6 faculties, 46 students from other institutes, and 31 students from NIT Raipur. The 12 best project presentations were awarded by the organizing committee of the event. The event also witnessed valuable feedback from the participants.

FDP on Nanoscale Semiconductor Technologies



Department of Electronics and Communications Engineering (ECE), NIT Raipur, organized an **Online Faculty Development Programme (FDP) on Emerging Nanoscale Semiconductor Technologies: Bridging Innovation to Application** on 10th Apr. 2025. The workshop was supported by the **E&ICT Academy, Ministry of Electronics and Information Technology (MeitY), GOI**. The nine-day program aimed to foster academic excellence and industry-relevant research.

The inaugural ceremony commenced with a welcome address, followed by an insightful speech by **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, who underscored the critical role of Nanoscale Semiconductor Technologies in advancing electronics and computing. Distinguished attendees included **Dr. Shrish Verma**, *Dean (Academics)*, **Mr. A.S. Raghuvanshi**, *Chief Investigator, EICT Academy*, and **Dr. T. Meenpal**, *HoD, ECE*. The inaugural lecture by **Dr. Das** from **Penn State University, USA**, on **2D Materials for the Future of Microelectronics** explored the revolutionary potential of two-dimensional materials in next-generation technology. The FDP featured 20 technical sessions led by renowned experts from academia and industry. Over 46 faculty members, researchers, and academic professionals from across India participated, marking a strong start to this initiative. The program was coordinated by **Dr. Chitrakant Sahu**, *Associate Professor, ECE*, whose dedicated efforts have been pivotal in its successful organization.

FDP on AI Innovations in Computer Vision and Medical Imaging



Department of Electronics and Communication Engineering (ECE), NIT Raipur, in association with the E&ICT Academy, NIT Warangal, organized a 12-day Online Faculty Development Programme (FDP) on **AI Innovations in Computer Vision and Medical Imaging: Emerging Trends and Research Perspectives**. Sponsored by the **Ministry of Electronics and Information Technology (MeitY), GOI**, the FDP was conducted from 15th to 26th May 2025. The programme was inaugurated by **Dr. Toshanal Meenpal, HoD, ECE, NIT Raipur**, and **Dr. Md. Farukh Hashmi, Assistant Professor, NIT Warangal**, in the presence of **Dr. Shree Hari Rao Patri, Co-coordinator, E&ICT Chief**. **Dr. Meenpal** emphasized the role of Artificial Intelligence and Machine Learning in the field of Computer Vision and Image Processing. **Dr. Hashmi** introduced participants to AI & ML-assisted developments in the field of Healthcare and Medical Imaging. It culminated in a valedictory session held on 26th May 2025.

FDP on Cutting-Edge RF/mm-Wave and THz Antenna Technologies



Department of Electronics and Communication Engineering (ECE), NIT Raipur, organized 10-Day Online Faculty Development Programme (FDP) on **Cutting-Edge RF/mm-Wave and THz Antenna Technologies for Modern Defence, Space, and 5G/6G Wireless Applications** starting from 15th May 2025. The programme was supported by the **Electronics & ICT Academy** under the **Ministry of Electronics and Information Technology (MeitY), GOI**.

The FDP was coordinated by **Dr. Anshul Gupta, Assistant Professor, ECE, NIT Raipur**, and **Dr. Amarjeet Kumar, Assistant Professor, ECE, NIT Warangal**. The ceremony held on 15th May 2025 marked the beginning of a 10-day academic initiative. It was graced by **Dr. S. Verma, Professor, ECE, Dr.**

S. Ghosh, Chairman, CEC, Dr. A.S. Raghuvanshi, Chief Investigator, E&ICT Academy, and Dr. Toshanal Meenpal, HoD, ECE.

Dr. Verma highlighted the importance of RF, mm-Wave, and THz antennas in Strategic Defence and Space Communication. **Dr. Ghosh** emphasized the role of continuing education in academic growth, while **Dr. Raghuvanshi** discussed the EICT Academy's efforts in faculty development, and **Dr. Meenpal** outlined the ECE department's research focus.

FDP on Nanoelectronics and Energy Conversion and Storage Technology



Department of Electronics and Communication Engineering (ECE), NIT Raipur, organized 10-Day Online Faculty Development Programme (FDP) on **Advancement in Nanoelectronics, Energy Conversion and Storage Technology: Design, Fabrication Methodologies and Applications**, supported by the **Ministry of Electronics and Information Technology (MeitY), GOI** which was inaugurated on 14th May 2025 via Google Meet. The 10-day program aimed to enhance expertise in Emerging Nanoelectronics, Renewable Energy, and Microelectronics among faculty, researchers, and industry professionals.

The event commenced with a welcome address, followed by an inaugural speech by **Dr. S. Ghosh, Chairman, CEC, NIT Raipur**, who emphasized the critical role of nanoelectronics and sustainable energy solutions in technological advancement. Distinguished attendees included **Dr. Toshanal Meenpal, HoD, ECE, Dr. A.S. Raghuvanshi, Chief Investigator, E&ICT Academy, and Dr. Nitin S. Kale, Co-founder & CTO, NanoSniff Technologies Pvt. Ltd.** The FDP features **40 hours of expert-led sessions** by renowned academicians and industry leaders from **IITs, NITs, and CSIR**, focusing on cutting-edge research and practical applications in VLSI, Sensor Technology, and Solar Cell Innovation. With 35+ participants from across India, the program seeks to bridge the gap between theoretical research and industrial implementation.

Coordinated by **Dr. Debora Muchahary**, *Assistant Professor, ECE*, and **Dr. Sukeshni Tirkey**, *Assistant Professor, ECE*, the FDP promises to be a transformative academic initiative, fostering knowledge exchange and skill development in Next-Generation Electronics and Energy Technologies.

FDP on 6G Wireless Communication Networks

NIT Raipur organized its **Online Faculty Development Programme (FDP) on Advances in 6G Wireless Communication Networks** on 28th Apr. 2025, supported by the **E&ICT Academy, Ministry of Electronics and IT (MeitY), GOI**. The 10-day program aims to empower faculty, researchers, and industry professionals with cutting-edge knowledge on next-generation wireless technologies.

The ceremony commenced with a welcome address, followed by an inaugural speech by **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, who highlighted the transformative potential

of **6G networks** in advancing Communication Engineering. Distinguished guests included **Dr. S. Verma**, *Professor, ECE*, **Dr. S. Ghosh**, *Chairman, CEC, NIT Raipur*, **Dr. A.S. Raghuvanshi**, *Chief Investigator, E&ICT Academy*, **Dr. Toshnall Meenpal**, *Associate Professor, ECE*, along with **Sri G. Ravinder Reddy**, *Chairman, GCET Hyderabad*, **Dr. K. Sagar**, *Principal, GCET*, and **Dr. G. Sreelakshmi**, *HoD, ECE, GCET*.

Featuring 40+ hours of expert lectures by renowned speakers from **IITs, NITs, and industry**, the FDP focused on bridging theoretical research with practical applications in 6G Infrastructure, AI-Integrated Networks, and Ultra-Low Latency Systems. With 46+ participants nationwide, the program promises to foster innovation in Wireless Communication. Coordinated by **Dr. Bijayananda Patnaik**, *Associate Professor, ECE*, and **Dr. M. Jagan Mohan Rao**, *Associate Professor, GCET Hyderabad*, this initiative underscored NIT Raipur's commitment to pioneering advancements in Telecom Technologies.

Research Frontier

Expert Lectures delivered by Institute Faculty/Staff

- **Dr. Anil Manjhi**, *Assistant Professor, DHSS* delivered an expert lecture on the *Importance of Letter Writing & Report Writing for Technical Students* at the *Government Co-Ed Polytechnic College, Raipur* on 9th May 2025.
- **Dr. Nitesh K Bharadwaj**, *Assistant Professor, CSE*, delivered an expert lecture on *Network Forensics* at **5 Days FDP on Generative AI & The Future of Network Security: Emerging Trends** organised by *Guru Nanak Institutions Technical Campus, R. R. District, Hyderabad, Telangana*, on 28th Mar. 2025.
- **Dr. Nitesh K Bharadwaj**, *Assistant Professor, CSE*, delivered an expert lecture on *Network Forensics* at **HackTheBreach: A 15-Day Bootcamp on Cybersecurity** organised by *Indian Institute of Information Technology Sri City, Chittoor* on 10th Apr. 2025.
- **Dr. Nitesh K Bharadwaj**, *Assistant Professor, CSE* delivered an expert lecture on *Network Forensics* at **A Five-Day Online FDP on Blockchain-Powered Machine Learning: Future of AI Security and Transparency**, organised by *O. P. Jindal University, Raigarh, Chhattisgarh* on 20th May 2025.

Ph.D. Thesis Defended

- **Mr. Kummari Venkatesh** defended his Ph.D. thesis entitled *A Framework for Crop Yield Prediction and Nutrient Deficiency Identification in Precision Agriculture using Deep learning Approaches* under the supervision of **Dr. K. Jairam Naik**, *Assistant Professor, CSE*, on 7th Feb. 2025.
- **Mr. Resham Raj Shivwanshi** defended his Ph.D. thesis entitled *High Performed Nodule Detection System for the Assessment of Lung Cancer Risk* under the supervision of **Dr. Neelam Shobha Nirala**, *Assistant Professor, BME*, on 16th Apr. 2025.

- **Ms. Shraddha Gupta** defended her Ph.D. thesis entitled *Design, Fabrication, and Evaluation of Biopolymeric Microneedle Patch for Transdermal Delivery of Biological Drug* under the supervision of **Dr. Awanish Kumar**, Associate Professor, DBT on 26th Apr. 2025.
- **Mr. Debabrata Debnath** defended his Ph.D. thesis entitled *Stabilization of Soft Soil Using Copper Slag Based Geopolymer* under the supervision of **Dr. Sandeep Kumar Chouksey**, Assistant Professor, CE, 8th May 2025.
- **Mr. Rikhi Ram Jagat** defended his Ph.D. thesis entitled *On Development of Automated Models for Detection of Malicious and Non-Malicious Activities Using Weblog* under the supervision of **Dr. Dilip Singh Sisodia**, Associate Professor, CSE, and **Dr. Pradeep Singh**, Associate Professor, CSE on 14th May 2025.
- **Mr. Om Prakash Prabhakar** defended his Ph.D. thesis entitled *Development and Modelling of Soft filler-based Hybrid Dielectric Elastomer Energy Harvester* under the supervision of **Dr. Raj Kumar Sahu**, Associate Professor, ME on 24th Apr. 2025.
- **Mr. Swatantra Kumar Jaiswal** defended his Ph.D. thesis entitled *Circular Economy for Effective E-Waste Management in Indian Context* under the supervision of **Dr. S. K. Mukti**, Associate Professor, ME on 15th May 2025.
- **Mr. Lachure Jaykumar Suraj** defended his Ph.D. thesis entitled *Design of Secure AI-based Techniques for Water Distribution, Weed and Plant Leaf Health Detection Towards Better Farming* under the supervision of **Dr. Rajesh Doriya**, Associate Professor, IT, and **Dr. Tirath Prasad Sahu**, Assistant Professor, IT, on 26th May 2025.

- **Mr. Kranthi Kumar Guduru** defended his Ph.D. thesis entitled *Design and Development of Carbon Fiber Composite Material for Industrial Applications by Additive Manufacturing* under the supervision of **Dr. G. Srinivasu**, Associate Professor, ME, on 21st Feb. 2025.
- **Mr. Tarun Jaiswal** defended his Ph.D. thesis entitled *Image Captioning Through Cognitive IoT and Machine Learning Approaches* under the supervision of **Dr. Manju Pandey**, Associate Professor, MCA, on 7th Mar. 2025.
- **Mr. Prateek Pratyasha** defended his Ph.D. thesis entitled *Multi-modal Analysis and Assortment of Sleep Apnea: A Study Entrenched on Artificial Intelligence* under the supervision of **Dr. Saurabh Gupta**, Associate Professor, BME, on 12th Mar. 2025.
- **Mr. Kapil Rambhau Aglawe** defended his Ph.D. thesis entitled *Experimental and Numerical Investigation of Performance of Microchannel Heat Sink for Computing Processor Cooling* under the supervision of **Dr. R. K. Yadav**, Professor, ME, and **Dr. S. B. Thool**, Assistant Professor, D. J. Sanghvi College of Engineering, on 13th Mar. 2025.
- **Mr. Mayasar Ahmad Dar** defended his Ph.D. thesis entitled *Study of Transparency Order and Generalized Hadamard Transform of Boolean Functions and their Generalizations* under the supervision of **Dr. Deepmala Sharma**, Associate Professor, DoM, on 11th Apr. 2025.
- **Ms. Anbu Savekar** defended her Ph.D. thesis entitled *Structural and Functional Aspects of Language Signify the Symptoms of Depression: A Study in Bi-Multilingual Context* under the supervision of **Dr. Shashikanta Tarai**, Associate Professor, DHSS, and **Dr. Moksha Singh**, Associate Professor, DHSS, on 28th Mar. 2025.

Awards, Recognition, and Fellowship

- **Dr. Bhargavi Rani Anne**, Assistant Professor, MME, received the **Top 10% Most Viewed Article Award** by the prestigious **Advanced Functional Materials** journal on 16th Apr. 2025. Her article titled *A Review on MXene as Promising Support Materials for Oxygen Evolution Reaction Catalysts* was recognized for exceptional visibility, ranking among the top 10% most viewed articles in 2023. She has also published a research publication in **Nano-Micro Letters**, dated 13th Mar. 2025. Her article titled **Rapid Outgassing of Hydrophilic TiO₂ Electrodes Achieves Long-Term Stability of Anion Exchange Membrane Water Electrolyzers** marks one of the highest impact factor publications in NIT Raipur's history.

- **Dr. D.C. Jhariya**, Associate Professor, DAG, NIT Raipur has been recognized among the **top 0.5% scholars worldwide**, according to **2024 ScholarGPS rankings**. He was also honored with the **Best Faculty Award 2024** by NIT Raipur. His consultancy for a *GIS-based Water Conservation Plan* in Dhamtari district secured the **Prime Minister's Excellence Award 2023** in the **Innovation category**.

Research Publications

- **Dr. K. Jairam Naik**, Assistant Professor, CSE, **Abhinav Khanna**, Gandikota Anjali, and **Nilesh Kumar Verma**, have published a journal titled *A GRL-Aided Federated Graph Reinforcement Learning Approach for Enhanced File Caching in Mobile Edge Computing*, in **Computing 107, 40 (2025)**, A SPRINGER NATURE Journal (IF-3.3).
- **Dr. K. Jairam Naik**, Assistant Professor, CSE, **Akshat Agrawal**, **Aayush Agrawal**, **Nilesh Kumar Verma**, and **Arepalli Peda Gopi**, have published a journal titled *A Graph Reinforcement Learning Powered Online-Computational Task Offloading and Latency Minimization Framework for Wireless Mobile Edge Computing Networks*, in **Cognitive Systems Research, ELSEVIER Journal (IF-2.1)**.
- **Dr. D. Sanyal**, Professor, DAP, NIT Raipur, **A. Kodym**, Department for Forest Biodiversity and Nature Conservation at the Austrian Research Centre for Forests, Vienna, and **Dr. K. Lapin**, Head Department for Forest Biodiversity and Nature Conservation at the Austrian Research Centre for Forests, Vienna have published a book chapter titled *Ecological Connectivity in Urban and Semi urban Forests*. The chapter was published in the book **Ecological Connectivity of Forest Ecosystems by Springer**.
- **Dr. Bhargavi Rani Anne**, Assistant Professor, MME, has published a research paper titled *Activation Enthalpy for Yielding in Fully-Lamellar Ti-6Al-4V*. The paper was published in **Materials Transactions**. This work, co-authored with T. Morikawa, S. Yamasaki, and M. Tanaka, explores the mechanical behaviour of titanium alloys and provides insights into the activation enthalpy associated with plastic deformation. She has also published research titled *Rapid Outgassing of Hydrophilic TiO₂ Electrodes Achieves Long-Term Stability of Anion Exchange Membrane Water Electrolyzers*. The article was published in **Nano-Micro Letters**. This study presents a novel strategy to enhance the long-term performance of electrolyzers for green hydrogen production through rapid gas removal from hydrophilic electrodes.
- **Dr. S. Bhattacharya**, Assistant Professor, DoC, and **Mr. U. Sarkar**, have published a research paper titled *White Light Emission from Luminescent Lanthanide Molecular Complex/Terbium doped Graphene Quantum dots/PMMA Composites*, in **Small, 2025, 2503419. Wiley (Q1, IF 13.0)**.

Student Achievements

- **Ansh Shrivastava**, 8th Sem., MME, secured 2nd place, **Raj Motwani**, 8th Sem., ME, secured 7th place, and **Shivam Gupta**, 8th Sem., MME, secured 8th place at the **Unstop Talent Awards** and made it to the **top 10 Unstoppable E-School Leaders 2025**.
- **Nrityam-The Dance Club**, NIT Raipur emerged as 1st Runner Up at **Group Dance Competition** during **Technovate 6.0** held at **IIT Naya Raipur**. They secured 2nd Runner Up position at **Spring Fest'25** at **IIT Kharagpur**.
- **Ayush Kumar Mishra**, 4th Sem., EE, **Ashish Kumar Jangid**, 4th Sem., EE, and **Divyansh Sharma**, 4th Sem., IT, bagged 1st place at the **National level Case Study Competition** during **ConsultX-Fluxus'25** held at **IIT Indore**.
- **Ms. Simran Shaikh**, 10th sem, B.Arch. student, and **Ms. Sristi Tokdar**, 10th sem, B.Arch. student, under the mentorship of **Dr. Debashis Sanyal**, Professor, DAP, presented research papers at the **Indian Building Congress Mid-Term Session & National Seminar on Innovations in Built Environment** in Hyderabad on 12th Apr. 2025.

Club /Committee Activities

Avinya'25



Innovation Cell, NIT Raipur, unveiled its annual flagship event, **Avinya'25**, on 29th Mar. 2025. The event was graced by **Mr. Bheem Singh Kanwar**, *Managing Director (MD), CSPDCL* as the *Chief Guest*, along with **Dr. Narendra D. Londhe**, *Registrar, NIT Raipur*, **Dr. S. Sanyal**, *Professor, ME*, **Dr. Manoj Chopkar**, *Dean (SW)*, and **Dr. Saurabh Gupta**, *Faculty In-charge, I-CELL*.

Dr. Gupta welcomed the dignitaries and participants, urging students to align with emerging industry trends. **Dr. Sanyal** highlighted NIT Raipur's innovation-driven initiatives, emphasizing how advancements in Digital Payments, AI-based Healthcare, Agriculture, ISRO's Space Technology, and Defense Systems are shaping India's future. **Dr. Londhe** reinforced the importance of Out-of-the-box thinking, encouraging students to embrace curiosity and courage as catalysts for success. **Mr. Kanwar** discussed CSPDCL's efforts in sustainable energy, addressing challenges in power generation, and innovative solutions to meet Chhattisgarh's rising demand. The ceremony's pre-events set the stage for the main event. **Mad Over Marketing** tackled EV charging with innovative solutions, while **Team Electrotitans** promoted workplace mental health. Other events tested negotiation, teamwork, and wrapped up with a flashmob and stargazing.

A panel discussion, moderated by **Mr. Pawan Kataria**, *Assistant Registrar, NIT Raipur*, featured **Mr. Rishabh Suri**, *Co-founder & CEO, Qudrat*, and **Ms. Isha Jhavar**, *Founder & CEO, Repeat Gud*. The entrepreneurs shared their journeys, stressing problem-solving, team-building, and perseverance. **Ms. Jhavar** reflected on her **Shark Tank India** experience, highlighting how tier-2 city entrepreneurs can overcome scepticism. **Mr. Suri** emphasized AI/ML's role in scaling businesses, while both speakers underscored the execution of ideas as the key to success. In an inspiring session, **Mr. Raj Vikramaditya (Striver)**, a renowned YouTuber and coding educator, shared

his *word-of-mouth* marketing strategy and the importance of learning from failures. He advocated for profit-sharing and a family-like work culture to drive innovation. An interactive Q&A session further motivated attendees to seize opportunities with dedication.

The event also featured **Captain Ajit Krishnan**, *Indian Air Force Astronaut for Gaganyaan Mission*, who explained VR simulators for Astronaut training and Spacecraft Navigation Systems, comparing manual and automated control methods. The day concluded with **Rebuild Brands**, a segment on reviving struggling businesses, leaving participants with actionable insights into entrepreneurship and innovation. Avinya'25 served as a dynamic platform, inspiring students to think boldly, innovate relentlessly, and contribute to India.

E-Summit' 25



The **Entrepreneurship Cell (E-Cell), NIT Raipur**, hosted **E-Summit 2025** on 22nd–23rd Mar. 2025, a dynamic two-day event fostering innovation and entrepreneurial spirit. The summit commenced with an inaugural ceremony led by **Dr. Samir Bajpai**, *Head, CDC*, and **Dr. Chandrakant Thakur**, *Faculty In-charge, E-Cell*, who emphasized **Skills Beyond Academics** and the role of technology in solving real-world challenges. Day 1 featured a **Startup Expo** showcasing ventures like **Roadlyne Fleet Management** (GPS solutions), **Antariksh Gyan Abhiyaan** (science awareness), and **Naturelite Foods** (sustainable agriculture). Competitions such as **B-Model Round 2** and **B-Case Study Round 2** tested participants' strategic thinking, while **Cricnometrica** blended cricket analytics with business strategy. **Dr. Gajendra Purohit**, founder of **Mathscare**, inspired attendees with insights on resilience and leveraging **EdTech** to address India's grassroots challenges.

Day 2 opened with the **Entrepreneurial Model UN (E-MUN)**, where delegates debated topics like rebuilding

Ukraine's infrastructure and reforming global trade policies. The **Shark Tank Panel Discussion**, moderated by **Mr. Pawan Kataria**, *Assistant Registrar*, featured entrepreneurs **Ms. Niti Singhal** (*Twee-in-One*), **Mr. Parminder Sahni** (*VsnapU*), and **Ms. Isha Jhavar** (*REPEAT GUD*), who shared journeys of innovation and sustainability. **Mr. Debojit Sen**, founder of *Crack-ed*, delivered a keynote on building lasting relationships and mission-driven entrepreneurship, while **Mr. Anubhav Dubey**, *co-founder* of a renowned *Kulhad Chai* brand, moved the audience with his story of resilience and transforming a small tea stall into a national success. The summit concluded with **Prof. Samir Bajpai** and **Dr. Chandrakant Thakur** highlighting its impact in bridging students with industry experts and investors. Events like the **Business Quiz (B-Quiz)** and interactive sessions solidified practical learning, leaving participants equipped to drive future innovations. E-Summit 2025 not only celebrated entrepreneurial zeal but also strengthened NIT Raipur's commitment to nurturing sustainable, solution-driven ventures and fostering a culture of collaboration and leadership.

MotoSports organized an Induction Program

Motosports Club, NIT Raipur organized an induction program on 21st Mar. 2025, providing participants with practical insights into vehicle subsystems and motorsports engineering. The event was graced by the presence of **Dr. Ankur Gupta**, *Assistant Professor, ME*, and **Dr. Sanjeev Kumar**, *Assistant Professor, ME*, who shared their valuable experiences and motivated the students. The program covered essential topics, including Powertrain, Suspension, Braking, and Electronics, while addressing Real-World Challenges in Vehicle Design and Performance Optimization. The event concluded with an interactive quiz session, enhancing participants' understanding through engaging discussions and hands-on learning.

Hindi magazine “Aasmita” unveiled and a Goshthi Program organized by Rajbhasha Samiti



The **Rajbhasha Samiti**, NIT Raipur, organized a Goshthi program and unveiled the Hindi annual magazine “Aasmita” on 2nd April 2025. The event was graced by *Chief Guest* **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, along with **Dr. A.K. Tiwari**, *Dean (FW)*, **Dr. G.D. Ramtekkar**, *Dean (P&D)*, and **Dr. Manoj Chopkar**, *Dean (SW)* as *Guests of Honour*. Famous literary figures and keynote speakers, **Mr. Kailash Banvashi** and **Mr. Anjan Kumar**, also marked their presence, adding significance to the occasion. Under the guidance of **Dr. Sapan Mohan Saini**, *Chief Faculty In-Charge Rajbhasha Samiti*, and **Dr. Mohit Jaiswal**, **Dr. Shailendra Kumar Tripathi**, *Faculty In-Charges Rajbhasha Samiti*, the event successfully highlighted the importance of linguistic and cultural heritage.

Dr. Rao highlighted that the first edition of “Aasmita” was published in 2015, and after a decade, the second edition is being launched in 2025. **Mr. Banvashi** appreciated the efforts of NIT Raipur in promoting and propagating Hindi. He shared insights about his story-writing process and discussed the realities of a writer's life, shedding light on the practical challenges faced by literary figures. In his address, **Mr. Kumar** emphasized the importance of language in shaping human identity. Quoting Mathew Arnold, he remarked that as technology advances, humanity tends to diminish. He highlighted the crucial role of language, literature, art, and culture in preserving humanity during such times. He also informed that around 200 universities worldwide offer Hindi studies and research, emphasizing that people learn and grasp concepts faster in their native language. The event concluded with felicitation of **Mr. Banvashi**, and **Mr. Kumar** and vote of thanks delivered by **Dr. Jaiswal**.

Health Camp in Nardaha Village Organized by Unnat Bharat Abhiyan Club



Unnat Bharat Abhiyan (UBA), NIT Raipur organized a health camp on 22nd Mar. 2025, in Nardaha village under the guidance of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*. The event witnessed the presence of **Dr. Sameer Sonkar**, *Medical Officer, NIT Raipur*, and **Dr. Ashwini Devangan**, *District Medical Officer*, as expert physicians. The program was conducted under the guidance of **Dr. Sudhakar Pandey**,

Regional Coordinator, UBA, NIT Raipur. The event was conducted smoothly by the collective efforts of **Dr. Harendra Bikrol**, **Dr. Suvendu Rup**, **Dr. Jitendra Kumar Rout**, and **Mr. Vijay Verma**. Village representatives, including **Mrs. Neelima Verma**, *Sarpanch, Nardaha Village* and Panch members **Manki Verma**, **Rukmani Sahu**, **Neelkanth Sahu**, and **Usha Dhruv**, were also present.

Aashirwad Ladies Social Group organized a Bag Distribution Program



Aashirwad Ladies Social Group organized a **Bag Distribution Program** on 19th Mar. 2025 to honor the women employees of NIT Raipur. **Mrs. Nalini Haware**, *National Vice President of Vishwa Manglya Sabha*, graced the occasion as the *Chief Guest*, while **Mrs. Jyoti Ramana Rao**, *President of Aashirwad Social Group*, was present as the *Guest of Honor*. The program was conducted by **Mrs.**

Jayshree Dhekne, *Member of the Aashirwad Social Group*, while **Dr. Mridu Sahu**, *Assistant Professor, IT* played an important role in making this event a success. **Dr. Sadhana Agarwal**, *Professor, DoP*, and **Dr. Swasti Sthapak**, *Professor, DAP*, were also present on this occasion, who supported this social initiative.

During the program, **Dr. Sahu** presented a detailed report of the social work of the institution from Apr. 2024 to Mar. 2025, highlighting the achievements of the group and their impact. Major social activities carried out by the organization included distributing educational material and essential items to the blind students of Perna Group. A Diwali exhibition was organized, where the products made by divyang children were displayed and sold. Garlic peeling machines were donated to promote the livelihood of Divyang children. A clothing distribution camp was organized in the NIT campus, in which clothes were distributed to the needy people. Bags were presented to the female employees of NIT while honoring them.

The group has been honored by **UNICEF** and **Shri Brijmohan Agarwal**, *Member of Parliament, Raipur*, for its social work. During this program, other members of the club were also present and played their part in making the program successful.

Alumni Achievements

- NIT Raipur congratulates **Mr. Manish Gupta (1986/EE)** on being promoted as *Executive Director (CP & BD)*, *CSPGCL, Raipur*.



- NIT Raipur congratulates **Mr. Deepak Sharma (1987/CE)** on being promoted as *ADG, MoRTH (Ministry of Road Transport and Highways)*.



- NIT Raipur congratulates **Mr. Sanjay Kumar Shukla (1986/EE)** on being promoted as *Executive Director (S&P)*, *CSPGCL, Raipur*.



- NIT Raipur congratulates **Shashank Sharma (1992/DCE)** on being appointed as *Chairman, Chhattisgarh Sanskriti Parishad*.



- NIT Raipur congratulates the **Alumni Association, GEC-NIT Raipur**, on celebrating its **2nd North America Alumni Meet** on 3rd May 2025, at the **Hilton Garden Inn, Lewisville, Texas**, uniting graduates from across the continent.



- NIT Raipur congratulates **Alumni Association of GEC-NIT Chapter UK** for the alumni meet on Saturday, 7th June 2025.



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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