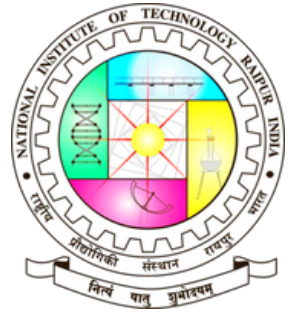


THE QUARTERLY NEWSLETTER OF NIT RAIPUR



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QUARTERLY GLIMPSES

SIGNING FOR STRATEGIC ALLIANCE



HIRA AUDITORIUM AND HIRA LOUNGE INAUGURATION



INDEPENDENCE DAY 2025



HAR GHAR TIRANGA 2025



NIT RAIPUR IN MEDIA

Billionaire Agrawal pledges ₹172cr to IIM & NIT in home-state CG

एनआईटी के इंडक्शन प्रोग्राम में चीफ गेस्ट ने कहा

‘क्यों’ पूछने की आदत सिखाती है इंजीनियरिंग

NIT Raipur & SMK University partner for Bastar Startups

NIT Raipur's NSS Club holds 'Har Ghar Tiranga' rally

छात्रों का नवाचार

जेएसएस और एनआईटी की साझेदारी से साकार हो रहा ग्रामीण स्वास्थ्य का डिजिटल सपना

अब पांच सेकंड में स्मार्ट मशीन से ग्रामीण बच्चों की ऊंचाई का लग जाएगा अंदाजा

महिला इंजीनियरों को मिलेगा बढ़ावा
एनआईटी और रुनाया ग्रीन टेक के बीच एमओयू

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मेडिकल डिवाइस की डिजाइन और इसकी बारीकियों से रूबरू होंगे एनआईटी के छात्र

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कृत्रिम प्रकाश व्यवस्था पारिस्थितिकी तंत्र को करती है बाधित, पर्यावरण की सुरक्षा के लिए डिजाइन मानक जरूरी

एनआईटी के एविएशन क्लब ने मनाया राष्ट्रीय अंतरिक्ष दिवस

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NIT Raipur organises 'Sunday on Cycle-2025'

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फ्रंटियर्स इन एप्लाइड मैथमेटिक्स पर पांच दिवसीय ट्रेनिंग प्रोग्राम की शुरुआत

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Motilal Oswal Foundation Committed ₹172 Crore to NIT Raipur and IIM Raipur



The Motilal Oswal Foundation (MOF), on 8th Aug. 2025, committed ₹172 crore towards two of Chhattisgarh's premier Educational Institutions, the **National Institute of Technology (NIT) Raipur** (₹71 crore) and the **Indian Institute of Management (IIM) Raipur** (₹101 crore). The formal signing of the Memoranda of Understanding (MoUs) was held in the august presence of **Shri Vishnu Deo Sai**, *Hon'ble Chief Minister, CG*, **Dr. Suresh Haware**, *Chairman, Board of Governors (BoG), NIT Raipur & IIT Bhilai*, **Shri Puneet Dalmia**, *Chairman, Board of Governors (BoG), IIM Raipur*, **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, **Dr. Sanjeev Prashar**, *Director (I/c), IIM Raipur*, **IAS Dr. S. Bharthidasan**, *Secretary, Department of Skill Development*, along with **Mr. Raamdeo Agrawal**, *Chairman and Co-founder, Motilal Oswal Financial Services*, and *Trustee, Motilal Oswal Foundation* and senior officials from NIT Raipur, IIM Raipur, and the Government of Chhattisgarh.

At NIT Raipur, the Foundation will help to establish **Smt. Mithilesh Agrawal Centre of Excellence for Innovation and Entrepreneurship in Engineering and Technology (MACIEET)**. NIT Raipur would carry out this initiative in collaboration with the Motilal Oswal Foundation, NIT Raipur, and the Government of Chhattisgarh. The centre would feature advanced laboratories focusing on AI, IoT, and Clean Energy, along with facilities for prototyping, start-up incubation, and skill development. Its goal is to train over 10,000 young people, incubate more than 250 start-ups, and create 5,000 skilled jobs by 2030. This philanthropic commitment of Motilal Oswal Foundation supports the National vision of *Viksit Bharat @2047*. The support for IIM Raipur will facilitate the construction of the Agrawal Oswal Student Residence, a hostel, and the Dau Ram Gopal Agrawal Knowledge Centre, an academic block. These additions would

help increase the institute's capacity from 500 to 1,200 students by 2030. The funding would also facilitate the launch of six International Two-Year Dual-degree MBA programs.

Mr. Agrawal said that Chhattisgarh's soil and spirit shaped his values and journey. He emphasized how education opens doors and can alter the course of life. He encouraged young people to dream big and work hard toward their goals. **Mr. Oswal**, *Chairman, Motilal Oswal Foundation*, recalled how he and Mr. Agrawal had been lifelong friends and business partners for over 40 years. He expressed hope that the institutions would instil confidence and give students a sense of purpose. **Shri Dalmia** mentioned that support from the Motilal Oswal Foundation would empower a new generation of inclusive, impact-driven business leaders. **Dr. Haware** said that the Smt. Mithilesh Agrawal Centre of Excellence would lay the foundation for a new era of innovation in Central India. **Dr. Rao** emphasized that the Smt. Mithilesh Agrawal Centre of Excellence would serve as the nexus of innovation for NIT Raipur and the entire region, directly serving Chhattisgarh's core industries. He hoped that it would inspire students to work towards a sustainable, technology-driven future.

79th Independence Day Celebration



NIT Raipur celebrated the 79th Independence Day on 15th August 2025. The celebration commenced with **Dr. N.V. Ramana Rao**, *Director of NIT Raipur*, hoisting the national flag, followed by the singing of the National Anthem and a parade by the National Cadet Corps (NCC).

Dr. Rao reflected on India's journey of freedom and highlighted the institute's remarkable achievements over the past year. These included NIT Raipur's ranking of 301–305 in the *Times Higher Education Asia University Rankings*, as well as visits from distinguished dignitaries such as **Smt. Draupadi Murmu**, *Hon'ble President of India*, and **Shri Jagdeep Dhankhar**, *Hon'ble former Vice President of India*. He also spoke about the inauguration of new infrastructure, including

smart classrooms and advanced laboratories, as well as the laying of the foundation stone for the 500-bed SECL Girls' Hostel. He further announced that the *Smt. Mithilesh Agrawal Centre of Excellence for Innovation and Entrepreneurship*, in collaboration with the *Motilal Oswal Foundation* and the *Government of Chhattisgarh*, is a ₹88.76 crore project aimed at becoming a hub for deep-tech research, startup incubation, and skill development. He also emphasized collaborations with *Washington State University*, *SECL*, and other partners. He highlighted initiatives like the Centre of Space and Interplanetary Exploration (COSINE) and the institute's role as a Nodal Centre for the NASA Space Apps Challenge. Following this, a plantation drive was organized under the '*Ek Ped Maa Ke Naam*' initiative. The celebrations concluded with a series of vibrant cultural performances that reflected the spirit of patriotism and India's rich cultural heritage.

Induction Program for First-Year students and Inauguration of Hira Auditorium and the Hira VIP Lounge



NIT Raipur organized an insightful **Induction Program** for the upcoming batch of 2025-26 undergraduate students on 23rd August 2025. The program included the inauguration of the newly developed Smart Classrooms aimed at enhancing digital learning, followed by the inauguration of the **HIRA Auditorium** and **HIRA VIP Lounge** at NIT Raipur, designed to support student activities and academic events. The Inauguration ceremony of 2 Smart Classrooms, auditorium & lounge was graced by the presence of Chief Guest **Shri Bajrang Lal Agrawal**, CMD, Godavari Power and ISPAT Limited, **Dr. Suresh Haware**, Chairman, Board of Governors (BoG), NIT Raipur & IIT Bhilai, **Shri S.K. Agrawal**, Alumni, NIT Raipur, **Shri Umesh Chitlangiya**, President, Alumni Association GEC-NIT Raipur, and **Dr. N. V. Ramana Rao**, Director, NIT Raipur. All Deans, HoDs, Faculty Members, Staff members, and Students were present at this event. The induction program was graced by the presence of esteemed Guests, including **Prof. Rajeev Prakash**, Director, IIT Bhilai.

Dr. Rao addressed the gathering at the HIRA Auditorium, expressing gratitude to **Shri Bajrang Lal Agrawal** and **Shri S.K. Agrawal** for their generous contributions, particularly for the Auditorium, Lounge & Smart Classrooms. **Dr. Haware** called the day a historic occasion, praising the rare unity of alumni in shaping the institute's future and commending **Dr. Rao's** efforts in strengthening alumni relations. **Shri Agrawal** fondly recalled his student days and expressed gratitude for the opportunity to give back to his alma mater. At the same time, **Shri Chitlangiya** lauded this initiative and highlighted the strong, transparent foundation of the alumni association. **Shri Bajrang Lal Agrawal** shared some nostalgic memories, spoke of his family's bond with engineering, and proudly recounted his journey of innovation, from building a cement and steel plant to establishing Asia's first solar thermal power plant.



The Induction program began at the DDU auditorium with a warm welcome address by **Dr. Rao**. He acknowledged the presence of distinguished leaders from industry and academia. He conveyed to the freshers that this day marks not only the beginning of their engineering journey but also their role as responsible citizens. **Prof. Prakash** told the students that their entry to NIT Raipur is like reaching a base camp after a long and challenging climb. He commended them for their hard work and sacrifices, and urged them to set clear goals, always prioritize the nation, and never forget the sacrifices made by their families in their success. **Dr. Haware** then welcomed the dignitaries and highlighted the achievements of NIT Raipur's alumni and professors across industry and academia. He encouraged students to build connections with peers from different states, improve their presentation skills, and gain confidence. He asked them to take pride in being NITians, reminding them that dedication, along with the institute's guidance, would help them achieve great success. He also introduced the concept of Frustration Tolerance Quotient (FTQ), emphasizing that the ability to cope with challenges and pressure defines one's efficiency.

Shri Bajrang Lal Agrawal noted that although the name and facilities have changed, the spirit, principles, and wisdom of

the Institute remain the same. Speaking directly to the new students, he recalled his own experience. He shared how engineering had taught him not only about circuits and wires but also about the power of hard work and dedication to change the world. He called upon everyone to come together in fulfilling the collective responsibility of building the nation. In the second half, students were introduced to the academic system, curriculum, and ordinances by **Dr. S. Bhowmick**, Professor, ME, & **Dr. S. Ghosh**, Professor, EE. This was followed by an address by **Dr. V. Gaba**, Faculty in Charge, T.P.O., who enlightened students about the placement procedures, internship opportunities, Start-Up India, Digital India, and the numerous innovation platforms available in the institute.



Dr. M. K. Chopkar, Dean (SW), provided an overview of the cultural and club facilities, sports infrastructure, and other amenities offered by the institute. Interactions were also done by **Dr. A. Khare**, Warden (Boys' Hostel), and **Dr. P. Gupta**, Warden (Girls' Hostel), which focused on hostel rules, safety, and student well-being. The event concluded with a Hindi historical play, “**Chanakya**,” by the famous actor **Manoj Joshi**, along with his team, which NIT Raipur organised in collaboration with IIT Bhilai. This marked the official beginning of the students' academic journey at NIT Raipur.

Har Ghar Tiranga

NIT Raipur organised Har Ghar Tiranga Rally



NIT Raipur, through its NSS wing, successfully organized a rally on 12th Aug. 2025 under the *Har Ghar Tiranga 2025*

campaign to celebrate the spirit of patriotism and unity. Launched under the aegis of *Azadi ka Amrit Mahotsav*, it encouraged the entire institute community to hoist the National flag.

Dr. N.V. Ramana Rao, Director, NIT Raipur, graced the occasion as the *Chief Guest* and formally flagged off the rally. The event was organized under the guidance of **Dr. M. Chopkar**, Dean (SW), **Dr. T. P. Sahu**, Faculty (I/c) of NSS, NIT Raipur, and **Dr. N. Bhardwaj**, Faculty (I/c) of NSS, NIT Raipur. Participants, including students, faculty members, and staff, enthusiastically marched across the campus, carrying the National flag and echoing patriotic slogans. The rally symbolized the collective commitment of the NIT Raipur family to the ideals of unity, integrity, and respect for the National flag.

NIT Raipur Organized Cleanliness Drive under Har Ghar Tiranga Har Ghar Swachhata



A Cleanliness Drive was organized by NIT Raipur on 13th Aug. 2025 through its NSS, as part of the *Har Ghar Tiranga Har Ghar Swachhata 2025 campaign*. The initiative aimed to promote hygiene, environmental responsibility, and community participation among students, staff, and faculty.

The event was inaugurated by **Dr. N.V. Ramana Rao**, Director, NIT Raipur, who graced the occasion. The drive witnessed enthusiastic participation from NSS volunteers, faculty members, and non-teaching staff. Volunteers engaged in cleaning the surroundings, removing litter, and spreading awareness about waste segregation and sustainable practices. The event was organized under the guidance of **Dr. M. Chopkar**, Dean (SW), **Dr. T. P. Sahu**, Faculty (I/c), NSS, NIT Raipur, and **Dr. N. Bhardwaj**, Faculty (I/c), NSS, NIT Raipur. The event inspired participants to contribute towards a cleaner, greener, and healthier environment.

Literati-the Literary Committee, NIT Raipur, and **Sanskriti-the cultural committee**, NIT Raipur, organized a

Painting & Rangoli Competition on the theme *Har Ghar Tiranga, Har Ghar Swachhta* on 14th Aug. 2025 under the government of India's Har Ghar Tiranga initiative. Literati organized the painting competition, while Sanskriti organized the rangoli competition. The event witnessed participation from students across various departments, who expressed their creativity and patriotism through vivid colors and artistic expressions.

15 Faculties from NIT Raipur Featured in the Top 2% World Scientists Ranking of Stanford University

NIT Raipur's fifteen faculty members have been featured in the prestigious list of **World Ranking of Top 2% Scientists/Researchers** released by the renowned Stanford University, USA, for the year 2025. The list is prepared annually based on multiple parameters and indicators, using Scopus data provided by Elsevier through the ICSR lab, in various fields of Science and Technology.

Under the category *Career-long Impact (up to 2024)*, which honours sustained contributions and long-term scholarly impact, the following faculty members have been recognised, **Dr. A. Kumar**, Associate Professor, DBT; **Dr. G. P. Gupta**, Associate Professor, IT; **Dr. M. K. Pradhan**, Associate Professor, ME; **Dr. S. Jain**, HoD, EE, and **Dr. S. Ghosh**, Professor, EE.

Under the category *Single-Year Impact (2024)*, which highlights current, active influence and the recent visibility of research work, the following faculty members have been recognised this year, **Dr. A. Kumar**, **Dr. Gupta**, **Dr. P. K. Singh**, Associate Professor, CSE; **Dr. D. S. Sisodia**, HoD, CSE; **Dr. R. Tripathi**, Associate Professor, IT; **Dr. P. Gupta**, HoD, DBT; **Dr. B. K. Singh**, Associate Professor, BME; **Dr. A. Khare**, Professor, DoP; **Dr. S. K. Sinha**, Associate Professor, MME; **Dr. Lata S. B. Upadhyay**, Professor, DBT; **Dr. D. C. Jhariya**, Associate Professor, DAG; **Dr. Jain**, and **Dr. R. Kumar**, Assistant Professor, EE. Their recognition stands as a testament to their outstanding contributions across diverse fields of expertise. In this year's list, **Dr. A. Kumar** has made significant contributions in the field of Pharmacology and Pharmacy. **Dr. G. P. Gupta**, **Dr. R. Tripathi**, **Dr. B. K. Singh**, **Dr. P. K. Singh**, and **Dr. D. S. Sisodia** are doing notable work in the areas of Artificial Intelligence and Image Processing. **Dr. P. Gupta** is making significant contributions to the field of Microbiology. **Dr. A.**

Khare has carried out advanced research in the field of Applied Physics. **Dr. S. K. Sinha** has gained expertise in the field of Materials. **Dr. L. S. B. Upadhyay** has made significant contributions to Biotechnology. **Dr. D. C. Jhariya** is undertaking substantial work in the field of Geology. **Dr. S. Jain**, **Dr. S. Ghosh**, and **Dr. R. Kumar** have established expertise in the energy sector through their work in Electrical and Electronic Engineering. **Dr. M. K. Pradhan** has made an exceptional contribution to Materials in the field of Mechanical Engineering.

The Institute is increasingly excelling in cultivating a vibrant research environment that fosters collaboration, experimentation, and the exploration of novel ideas. Further adding to this distinction, **Dr. A. Kumar**, **Dr. G. P. Gupta**, and **Dr. S. Jain** have secured their place in both lists, bringing pride to the institute. NIT Raipur extends its heartfelt appreciation to all the professors for this remarkable achievement and encourages them to continue nurturing their zeal and passion for science in the service of society and the betterment of the world.

NITRRFIE was presented with the Bharat Incubator Award at 4th Bharat Entrepreneurship Summit



NIT Raipur Foundation for Innovation & Entrepreneurship (NITRRFIE) won the **Bharat Incubator Award** at the 4th Bharat Entrepreneurship Summit, held on 13th Sept. 2025 in New Delhi. The award was presented by **Shri Maninder Singh Sirsa**, Cabinet Minister, Government of Delhi, to **Dr. Anuj K. Shukla**, Faculty (I/c), NITRRFIE. Ras Luxury Oils and Atmik Bharat, incubated at NITRRFIE, were also awarded under the Startup category during the Award ceremony.

The organization serves as a Technology Business Incubator of NIT Raipur. The organization has supported more than 30 startups under the **National Initiative for Developing and Harnessing Innovations (NIDHI) – Technology Business Incubator (TBI)** program of the Department of Science and

Technology (DST), with a particular focus on Cleantech, Information and Communication Technology (ICT), and Multidisciplinary Technology Integration. It operates under the leadership of **Dr. Suresh Haware**, *Chairman of the Board of Governors (BoG) at NIT Raipur & IIT Bhilai*, **Dr. N. V. Ramana Rao**, *Director of NIT Raipur*, and **Dr. Samir Bajpai**, *Head of the CDC at NIT Raipur*. The operational team is led by **Dr. A. K. Shukla**, *Faculty (I/c)*, **Mr. P. Kataria**, *Officer (I/c)*, and **Mrs. M. Singh**, *CEO, NITRRFIE*. NITRRFIE has established itself as a key player in India's startup ecosystem by providing comprehensive support to technology-based startups.

NIT Raipur hosted an insightful interaction on “Needs-Driven Innovation in Global Health: CG Biodesign Working Session”

NIT Raipur recently hosted a **Biodesign Interaction Session** on 28th Aug. 2025. The keynote speaker of the session was **Prof. Anurag Mairal**, *an Alumnus of NIT Raipur, Adjunct Professor at Stanford University, and Director of Global Outreach for the Stanford Mussallem Center for Biodesign*. In this event, **Dr. Megha Agrawal**, *an Alumna of NIT Raipur and Adjunct Professor at the Luxembourg School of Business*, **Dr. Saurabh Gupta**, *Associate Professor at BME*, Faculty members, and students were present. The event introduced students to a framework for impactful healthcare innovation and provided a comprehensive overview of the Biodesign concept.

Prof. Mairal began by explaining the core principle of Biodesign, i.e., Identify, Innovate, and Implement. Using some examples, he demonstrated how simple solutions can have a phenomenal, life-saving impact on society. He highlighted India's role in making the Biodesign concept a global success. The session also showcased the robust ecosystem supporting this initiative, which includes a network of government-supported Biodesign centers at prestigious institutions across the country, including various IITs and AIIMSs. A key focus of the discussion was the CG Biodesign initiative, a program tailored to address the unique healthcare challenges faced by the state of Chhattisgarh. The speaker detailed the unmet needs in the region, showcasing how the Biodesign process can be applied to create localized and sustainable solutions. The session concluded with a lively Q&A segment, during which

students actively engaged with the speaker, clarifying their doubts and expressing a keen interest in the field.

International Day Against Drug Abuse

The **National Institute of Technology (NIT) Raipur** organised an Anti-drug rally under the **NIT's NCC Club** on 23rd June 2025, followed by a special awareness session on 25th June 2025, on the occasion of the International Day Against Drug Abuse. It was organized under the nationwide anti-drug campaign being run by the **Government of India** from June 12th to June 26th, 2025. The event aimed to raise awareness about the harmful effects of drug abuse and the collective responsibility of society in tackling this growing concern.

It was organised under the guidance of **Dr. J. K. Raut**, *Faculty-(I/c), NCC*, and **Mr. K. S. Mann**, *Sports Officer*. **Dr. M. Chopkar**, *Dean (SW)*, also played a crucial role in program organization. Slogans were raised to create awareness against drug abuse, such as *Hum Sabka Ek Hi Naara*, *Nasha Mukht Ho Desh Humara*, and *Nasha Ki Lat Hai Aisi Jo Karde Zindagi Narak Jaisi*. Many faculty members and students participated in the Rally.



The awareness session featured an insightful talk by **Dr. N. K. Sahu**, *Assistant Professor of Psychiatry from Shri Balaji Institute of Medical Sciences, Raipur*. **Dr. M. Murmu**, *Associate Dean (SW)*, **Dr. S. Agrawal**, *Medical Officer*, faculty members, staff, and students were present at this event. **Dr. Sahu** addressed the psychological and social causes that lead individuals toward drug abuse, such as peer pressure, media influence, stress, and anxiety. He explained how substances like alcohol, marijuana, cocaine, and heroin affect both body and mind. He also emphasized the preventive aspects of drug abuse by encouraging the audience to stay informed, engage in constructive activities, be confident to say no, and develop a positive mindset. The session concluded with an interactive Q&A round, where participants actively asked questions related to drug abuse and mental health. The

event successfully contributed to promoting awareness and inspiring the NIT Raipur community to work toward building a drug-free environment.

Free Women's Health Awareness and Checkup Camp Organised



National Institute of Technology (NIT) Raipur and Vikas Tarangini, Chhattisgarh, jointly organised a special free health awareness and screening camp for women on 26th Jul. 2025. The program was inaugurated in the esteemed presence of Chief Guest **Shri Shyam Bihari Jaiswal**, *Health Minister, Government of Chhattisgarh*, and **Pujya Sant Dr. Yudhishtir Lal Ji Maharaj**, *Peethadheeshwar, Shadani Darbar Tirth, Raipur*, who presided over the event. Other distinguished guests included **Shri G. Swamy Ji**, *Chairman, Andhra Association*, **Dr. G.D. Ramtekkar**, *Dean (P&D), NIT Raipur*, and **Dr. N.D. Londhe**, *Registrar, NIT Raipur*. The event began with the national song and the lighting of the lamp, followed by welcoming remarks from **Dr. Shubha Kosle**.

Pujya Sant Dr. Yudhishtir Lal Ji praised the organizers, urging a return to traditional healthcare practices and emphasizing collective responsibility for women's health. Chief Guest **Shri Shyam Bihari Jaiswal Ji** expressed gratitude to the organizers and urged lifestyle improvements to prevent such diseases. He noted that practices like artificial menstrual control and lack of breastfeeding contributed to health risks.

Dr. A. Shukla, *Assistant Professor, ME*, conveyed a message from **Shri Shri Tridandi Shrimannarayan Ji**, highlighting that women are the driving force of families. He shared Vikas Tarangini's efforts in providing free healthcare to lakhs of women since 2007. **Shri G. Swamy Ji** called the initiative a blessing for Chhattisgarh. **Dr. Ramtekkar** stressed that health is vital and urged collective efforts to protect women. **Shrimati Kanchan Singh** highlighted that a healthy woman reflects a healthy society and called healthcare a key tool for empowerment. As a gesture of appreciation, all esteemed

guests were presented with mementos. **Dr. D. S. Sisodiya**, *HOD, CSE*, concluded the event by delivering the vote of thanks. Following the ceremony, a health camp was organized where numerous women actively participated. The camp aimed to raise awareness and provide essential health screenings, reinforcing the event's objective of promoting women's well-being.

NIT Raipur celebrated National Librarians' Day

NIT Raipur celebrated **National Librarians' Day** at the *Central Library, NIT Raipur*, on 12th Aug. 2025 to mark the 133rd birth anniversary of **Padma Shri Dr. S. R. Ranganathan**, *the Father of Library Science in India*. The event was attended by **Prof. N. V. Ramana Rao**, *Director, NIT Raipur*, **Prof. N. D. Londhe**, *Registrar, NIT Raipur*, **Prof. S. Sanyal**, *Dean (CR & RM)*, **Prof. G. D. Ramtekkar**, *Dean (P & D)*, **Prof. P. Diwan**, *C.V.O, NIT Raipur*, **Prof. A. K. Sinha**, *Chairman, Library Committee*, **Dr. I. Ahmad**, *Assistant Professor, CE*, **Mr. A. Sharma**, *Joint Registrar, Establishment Section*, and **Mr. Astik Kumar**, *AE (Civil), NIT Raipur*.

On this occasion, the *Air-Conditioned Circulation Section of the Central Library* was inaugurated by **Dr. Rao**. A documentary on **Dr. S. R. Ranganathan** and a video on the *Central Library*, prepared by the library team, were released by the Director. The event concluded with a message reaffirming the role of libraries in shaping knowledge and innovation.

NIT Raipur celebrated International Olympic Day



NIT Raipur, through its Sports Department, organised badminton and table tennis competitions on 23rd Jun. 2025, on the occasion of International Olympic Day for faculty members and staff of the institute. The event was organized under the guidance of **Dr. M. Chopkar**, *Dean (SW)*, **Dr. H.K. Narang**, *Faculty (I/c), Sports Committee*, and **Mr. K. S.**

Maan, Sports Officer. The event aimed to promote Olympic values such as sportsmanship and teamwork.

In the table tennis competition, the Men's singles category, first place was secured by **Dr. S.V. Deo**, *Professor, CE*, and second place was secured by **Dr. D. Pal**, *Associate Professor, DCE*. In the doubles, first place was secured by **Dr. S.V. Deo** and **Dr. Narang**, and second place was secured by **Mr. Abhijit**, *Superintendent of the Establishment section*, and **Mr. S. Dhok**, *Junior Assistant of the Exam Cell*. In the badminton competition, the Men's singles category was won by **Mr. D. Pandey**, *Technical Assistant, MCA*, and **Dr. R. Doriya**, *Associate Professor, IT*, secured second place. In the doubles, first place was secured by **Dr. R. Doriya** and **Mr. D. Pandey**, and **Dr. S. K. Rajana**, *Associate Professor, ME* and **Dr. H. S. Sachdeva**, *Temporary Faculty, EE*, secured second place. In the Women's singles category, the first place was secured by **Dr. M. Murmu**, *Associate Professor, CE*, and the second place was secured by **Ms. S. Sharma**, *Junior Assistant, CDC*. In the doubles, first place was secured by **Dr. M. Murmu** and **Dr. S. Agarwal**, *Medical Officer, NIT Raipur*, and second place was secured by **Ms. S. Sharma** and **Ms. Neha Tripathi**, *Junior Assistant, Office of the Dean (FW)*.

NIT Raipur bids Farewell to Esteemed Faculty and Staff Members

NIT Raipur extended heartfelt gratitude to its esteemed faculty and staff members who retired after years of remarkable service. A special Retirement Ceremony was organized on 2nd Jul. 2025, to honour **Prof. Vinod Kumar Singh**, *Associate Professor, DCE, NIT Raipur*, whose distinguished career has been a cornerstone of the institute's academic excellence. Prof. Singh's invaluable contributions in teaching, research, and mentorship were fondly remembered, as colleagues and students reflected on his sincerity, wisdom, and lasting impact on generations of engineers. His dedication and simplicity have made him a guiding force and an inspiration within the NIT Raipur community.

Additionally, on 29th Aug. 2025, **Mr. Dashrath Lal Dhruv**, *Senior Technical Assistant, ME, NIT Raipur*, was also honoured in a farewell ceremony, where his commitment and years of dedicated service were warmly acknowledged. Both ceremonies reflected the deep appreciation of the NIT Raipur fraternity, as heartfelt wishes were extended to the retirees for a happy, healthy, and fulfilling life ahead.

MOUs

NIT Raipur and Sunanda Solar Samriddhi Energy Pvt. Ltd., Burhanpur



NIT Raipur and Sunanda Solar Samriddhi Energy Pvt. Ltd., Burhanpur signed a **Memorandum of Understanding (MoU)** on 17th Sept. 2025 to advance renewable energy initiatives on campus. The MoU was signed by **Dr. (Mrs.) A. B. Soni**, *Director (I/c), NIT Raipur*, and **Mr. Virendra Kotway**, *Managing Director, Sunanda Solar Energy Pvt. Ltd.* The ceremony was attended by **Dr. N. D. Londhe**, *Registrar, NIT Raipur*, **Dr. S. Sanyal**, *Dean (CR&RM)*, **Dr. A. K. Tiwari**, *Dean (FW)*, **Dr. G. D. Ramtekker**, *Dean (P&D)*, **Dr. M. Chopkar**, *Dean (SW)*, **Mr. A. Sharma**, *Joint Registrar, Establishment Section*, **Dr. P. Diwan**, *C.V.O.*, and members of **Sunanda Solar Samriddhi Energy Pvt. Ltd.**

Under the project, a **625-kilowatt** solar power unit will be installed on the campus. This addition will augment the existing **490-kilowatt** facility, increasing the total solar power capacity to over **1 megawatt**. The project demonstrates how academic institutions can play a role in promoting clean energy and contribute to sustainable energy practices. The new unit supports national renewable energy targets and promotes sustainable development through solar infrastructure.

NIT Raipur and Jan Swasthya Sahyog

NIT Raipur and Jan Swasthya Sahyog (JSS) signed a **Memorandum of Understanding (MoU)** on 26th Jun. 2025. The MoU was formally signed by **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. Yogesh Jain**, *Co-founder, Jan Swasthya Sahyog (JSS)*, in the presence of **Dr. Saurabh Gupta**, *Associate Professor, BME*, along with other distinguished faculty members, researchers, and students.

The partnership with **Jan Swasthya Sahyog (JSS)**, a reputed voluntary non-profit society of health professionals based in Bilaspur, Chhattisgarh. It underscores NIT Raipur's commitment to addressing *grassroots healthcare challenges*. For over 15 years, JSS has been delivering low-cost,

community-based healthcare in tribal and rural regions through hospitals, health centres, and comprehensive programs. Their multidisciplinary team of specialists in Medicine, Paediatrics, Public Health, Gynaecology, Surgery, ENT, Ayurvedic Medicine, and Microbiology has been pivotal in preventive and curative services. Through this *MoU*, the two institutions aim to strengthen *HealthTech collaborations* in maternal and child health, sickle cell disease management, primary healthcare, and chronic disease care. The Department of Biomedical Engineering has already initiated joint projects, providing students opportunities for rural internships, field immersion, and innovation-driven learning.

On this occasion, **Dr. Jain** highlighted JSS's mission of *Health System Strengthening* to ensure accessible and sustainable healthcare for marginalized communities, expressing confidence that the collaboration would inspire impactful and frugal innovations. **Dr. Rao** reaffirmed the institute's vision of leveraging multidisciplinary research for societal benefit, describing the partnership as a significant step towards *Viksit Bharat 2047*. The event concluded with a call for active participation from faculty, researchers, and students in developing *Affordable Health Technologies* for underserved communities.

NIT Raipur and Runaya Green Tech Pvt. Ltd.

NIT Raipur and Runaya Green Tech Pvt. Ltd. signed a **Memorandum of Understanding (MoU)** on 17th Jul. 2025. The MoU was formally signed by **Dr. N. V. Ramana Rao**, Director, NIT Raipur, and **Mr. Rajendra Nawandhar**, Chief Financial Officer, Runaya in the presence of **Ms. Amita Kar**, Head, HR & CSR, Runaya, **Dr. M. Chopkar**, Dean (SW), **Dr. A. B. Soni**, Professor, Chemical Engineering, **Dr. S. Gupta**, Dean (Academics), **Dr. S. Bajpai**, Head, CDC, **Dr. G. D. Ramtekker**, Dean (P&D), **Dr. N. D. Londhe**, Registrar, **Shri A. Sharma**, Joint Registrar, Establishment Section, and other distinguished guests.



The partnership was driven by *Runaya Reach*, the CSR arm of Runaya and underscores the company's steadfast commitment to advancing gender equity and fostering meaningful careers

for women in Engineering and Technology. Through this initiative, selected women students at NIT Raipur will not only receive financial support but also gain access to industry exposure, hands-on internships at Runaya's cutting-edge facilities, and mentorship from sector leaders. **Dr. Chopkar** expressed heartfelt appreciation to Runaya for their meaningful contribution, emphasizing the significance of initiatives that inspire and enable more women to actively engage in the workforce and pursue careers in Technology and Engineering. **Mr. Jagannath Prasad Routray**, CEO of *Runaya Recycling Business*, said that they believe progress starts with equal access to opportunities. Through the *Runaya Reach Scholarship Program* with NIT Raipur, they support aspiring women engineers by providing financial aid for their education and offering industry exposure. This initiative aims to empower ambition, promote equity, and foster a more inclusive STEM ecosystem.

NIT Raipur and Shaheed Mahendra Karma Vishwavidyalaya, Bastar

NIT Raipur and SMK Vishwavidyalaya signed a **Memorandum of Understanding (MoU)** on 18th Aug. 2025 in the presence of **Dr. N.V. Ramana Rao**, Director, NIT Raipur, and **Prof. Manoj Kumar Srivastava**, Vice Chancellor, Shaheed Mahendra Karma Vishwavidyalaya, Bastar, marking a new era of collaborative innovation between these two premier educational institutions. The signing ceremony was attended by key officials from NIT Raipur FIE, including **Dr. A. Shukla**, Faculty (I/c), NITRRFIE, and **Mr. P. Kataria**, Officer (I/c), NITRRFIE, demonstrating the institutional commitment to this transformative partnership.



The MoU establishes a comprehensive framework for cooperation that will benefit entrepreneurs, students, and the broader startup ecosystem across the state, particularly by bridging the innovation capabilities between Raipur and the Bastar region. **Dr. Rao** said that this collaboration between NITRRFIE and SMKV-ISF demonstrates our shared commitment to supporting startups and driving technological

innovation across Chhattisgarh. **Prof. Srivastava** said that this MoU perfectly aligns with our vision of creating a collaborative workspace that nurtures innovation by tapping into the rich resources of the Bastar region. **Dr. Shukla** highlighted the operational benefits. This partnership will create synergies that enable startups from both institutions to access expanded mentorship networks, shared infrastructure, and collaborative research opportunities that are essential for scaling innovative ventures. Under this strategic partnership, both institutions will collaborate on joint co-incubation programs, sharing resources and expertise to maximize success rates for startups. Companies incubated by either

institution will have access to facilities and infrastructure at both centers, significantly expanding available resources for entrepreneurs. Seminars, workshops, and training will be jointly organized to promote knowledge sharing and networking opportunities for startups and entrepreneurs, while comprehensive support, including mentoring, legal, financial, and technical services, will be provided to incubated companies. The partnership aims to strengthen Chhattisgarh's startup ecosystem, linking Raipur with Bastar's emerging innovation potential, while contributing to India's broader innovation landscape and creating greater opportunities for entrepreneurs and innovators.

Industry Institute Collaborations by IICC, NIT Raipur

Workshop on AI- Driven Drug Discovery Boot Camp



Department of Biotechnology (DBT), NIT Raipur, in collaboration with the **Industry Institute Collaboration Cell (IICC)**, organized a five-day workshop on **AI-Driven Drug Discovery Boot Camp** from 4th Aug. to 8th Aug. 2025. The event aimed to provide students with practical exposure to the applications of Artificial Intelligence in Modern Drug Discovery.

The workshop commenced with an inaugural session. It was conducted under the esteemed patronage of **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, and chaired by **Dr. S. Sanyal**, *Chairman, IICC*. The program was convened by **Dr. A. Kumar**, *Associate Professor, DBT*, and coordinated by **Dr. D. N. Roy**, *Assistant Professor, DBT*. A team of faculty experts, including **Dr. C. Mahapatra**, *Assistant Professor, DBT*; **Dr. S. Bharti**, *Assistant Professor, DBT*; **Dr. P. Gupta**, *HoD, DBT*; **Dr. Lata S. B. Upadhyay**, *Professor, DBT*; and others, contributed significantly to the sessions. Additionally, **Mr. Abhijit Ghorai**, *Senior Project Manager at Cognizant Life Sciences, Kolkata*, brought valuable industrial insights to the discussions. Students were organized into teams of three,

which presented innovative ideas and prototypes. **Dr. Mahapatra** and **Dr. Upadhyay** moderated the teams. The event enriched the students' industrial awareness.

Industrial Visit to MSME Technology Centre, Durg

The Department of Mechanical Engineering (ME), under the Industry Institute Collaboration Cell (IICC), organized an industrial visit for Vth Semester students to the MSME Technology Centre in Durg on September 2, 2025. The visit aimed to provide students with practical experience and valuable insights into real-world industrial operations.



The students were exposed to various advanced manufacturing processes and technologies, focusing on key areas such as Tool Design, CAD/CAM/CAE, CNC Programming and Machining, and Hydraulics and Pneumatics.

Guest Lecture on Current Trends and Opportunities in the IT Industry

The Department of Computer Applications (MCA), NIT Raipur, hosted an expert talk event on 1st Sep. 2025, on the **Current Trends and Opportunities in the IT Industry**.



The event featured industry professional **Mr. Manish Kumar Pandey**, *Head of Cyber Security Delivery for Europe, ANZ, and APAC at Infosys*. **Mr. Pandey**, an alumnus of the Master's in Computer Applications (MCA) program at NIT Raipur, emphasized the role of AI/ML technologies in the IT industry,

showcasing their potential to automate repetitive tasks and predict system failures. The event ended with a vote of thanks.



Academic Activities

Seminar on Artificial Lighting and Environment

Department of Architecture and Planning (DAP), NIT Raipur hosted a **Seminar on Artificial Lighting Environmental Impact**. The event brought together experts and students, showcasing innovative solutions for sustainable design and underscoring the department's commitment to bridging academia and industry. **Mr. Amarendra Goswami**, *Regional Director of ISHRAE* and a distinguished engineer and energy expert, delivered the keynote address "Bright Ideas, Brighter Futures," where he shed light on the environmental consequences of artificial illumination and its implications for architecture and urban design. The seminar was chaired by **Prof. Debasish Sanyal**, *Head of Department*, and **Mrs. K. B. Sharma**, *Assistant Professor*, both from the Department of Agriculture. The session drew active participation from students across all semesters, as well as faculty members. **Mr. Goswami** highlighted the pressing issue of light pollution, explaining how excessive or poorly designed artificial lighting disrupts ecosystems.

He emphasized the need for codes and regulations to ensure responsible lighting design that balances human needs with environmental safety. The seminar not only deepened awareness about the environmental implications of artificial lighting but also inspired students to approach design with greater ecological sensitivity.

By bridging academic learning with real-world expertise, the session emphasized the importance of responsible architectural practice and laid the groundwork for young professionals to make meaningful contributions to a more sustainable built environment.

Industrial Training Workshop on Knowledge Enhancement of Loco Shed Employees

The Department of Electrical Engineering, NIT Raipur, in collaboration with the **Industry Institute Collaboration Cell** and the **Continuing Education Cell (CEC)**, organized an Industrial Training Workshop on **Knowledge Enhancement of Loco Shed Employees** from 23rd Jun. to 4th Jul. 2025. The inaugural ceremony for the workshop was held on 23rd Jun. 2025. The event was graced by the Chief Guest, **Mr. Uday Kumar Bharti**, *Divisional Railway Manager (P), Nagpur Division, Indian Railways*, and the Guest of Honour, **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*. Other distinguished attendees included **Dr. Sachin Jain**, *HoD, EE*, and **Dr. S. Ghosh**, *Chairman (CEC)*. The seamless execution of the workshop was overseen by coordinators **Dr. (Smt) Anamika Yadav**, *Professor, EE*, **Dr. E Koley**, *Associate Professor, EE*,



and **Dr. Baidyanath Bag**, *Assistant Professor, EE*. Faculty members, participants, and students were also present.



The event commenced with a welcome address by **Dr. B. Bag**, who highlighted the significance of the Indian Railway System. **Dr. Yadav** provided a brief overview of the workshop, emphasizing the perennial relationship between Indian Railways and NIT Raipur. **Dr. S. Jain** spoke about the achievements of the Department of Electrical Engineering, while **Dr. S. Ghosh** shared the core idea behind conducting the workshop and encouraged active participation. **Dr. Rao** congratulated the organising team and emphasised that such initiatives were crucial for adopting modern technologies to enhance railway mechanisms. He also accentuated the need to reduce carbon footprints and adopt energy-efficient practices, expressing hope that the workshop would help make NIT Raipur a future-ready and sustainable workforce hub.

In his address, **Mr. Bharti** reflected on the indispensable role of the Indian Railways and its continuous efforts toward cost-efficient operations and national connectivity. He appreciated the workshop's impact on enhancing the technical efficiency of participants and motivated students to work hard, stating that dedication and planned efforts are the keys to success. The event concluded with a heartfelt vote of thanks delivered by **Dr. E. Koley**, who expressed appreciation to all the dignitaries, organisers, and participants for their contributions. Following the inauguration, the two-week workshop proceeded with various technical sessions and training modules.

The closing ceremony was held on 4th Jul. 2025, graced by Chief Guest **Mr. Saurabh Davaagar**, *Senior DME, Diesel Loco shed, SECL - Raipur division*, and Special Guest **Dr. S. Sanyal**, *Dean (CR&RM), NIT Raipur*. Notable dignitaries, including **Dr. S. Ghosh**, *Chairman (CEC)*, **Dr. S. Jain**, and **Dr. A. Raghuvanshi**, *Associate Professor, ECE*, attended the event. During the ceremony, **Dr. S. Ghosh** emphasised the importance of the course and expressed his intent to improve its structure in future editions. **Dr. S. Sanyal** congratulated the

organisers and participants, assuring them of full support for their professional growth. **Mr. Davaagar** expressed his gratitude to NIT Raipur and conveyed his hope for continued collaboration. He stated that the core objective was to provide meaningful learning and shared plans to nominate more staff in the future. The event concluded with a feedback session and the distribution of certificates. The Vote of Thanks was delivered by **Dr. Koley**, who expressed gratitude to all attendees for making the workshop a grand success.

NIT Raipur organized an Expert Talk on Quantum Machine Learning



National Institute of Technology Raipur's Center of Space and Interplanetary Exploration (COSINE) organized an expert talk on **Quantum Machine Learning for Remote Sensing Data Analysis**. **Dr. Shyam Lal**, *Associate Professor, NIT Karnataka*, delivered this expert talk. The session was attended by **Prof. S. Sanyal**, *Mentor, COSINE*, **Dr. Saurabh Gupta**, *Prof. (I/c), COSINE*, and **Dr. Kapil Kumar Soni**, *Member, COSINE*, faculty members, and research scholars. During the session, various COSINE initiatives were highlighted, and it was also announced that COSINE has been designated as a Nodal Center for the NASA Space App Challenge, scheduled for October 2025.

Dr. Lal discussed AI-integrated quantum methods for analyzing satellite data. He explained that quantum computing technology may be applied during machine learning tasks for efficient data processing.

NIT Raipur organised a 3-Day Seminar on Stress Management

Department of Humanities and Social Sciences (DHSS), NIT Raipur, organized a three-day seminar on **Mann Ki Baat** from 27th Jun. 2025 to 30th Jun. 2025. The inauguration ceremony was held on 27th Jun. 2025. It was graced by the presence of **Dr. Samir Bajpai**, *Director (I/c), NIT Raipur*, as

the Chief Guest, and **Dr. N. D. Londhe**, Registrar, NIT Raipur, as the Guest of Honor.



The event began with an address delivered by **Dr. Hina Chawda**, Psychological Counsellor, NIT Raipur. **Dr. Chawda** emphasized that stress can be managed by maintaining a positive outlook, having a clear understanding, and engaging in mutual communication. She provided numerous tips to alleviate stress by incorporating real-life situations and examples. **Dr. Londhe** shared his personal insights on stress, acknowledging that it is a common issue faced by all. He urged that such seminars were necessary to spread awareness about stress management. **Dr. Bajpai** highlighted the often-overlooked nature of mental disturbances and emphasized the importance of recognizing and addressing them.

The event concluded on 30th Jun. 2025. It saw enthusiastic participation from faculty members, staff members, and students. It concluded with a feedback session during which the participants presented their views.

NIT Raipur conducts One-Week Training Program on Testing of Geo-materials

The Department of Civil Engineering, NIT Raipur, in collaboration with the **Indian Geotechnical Society (IGS) Raipur Chapter**, successfully organized a one-week hands-on training program titled **Testing of Geo-materials for Geotechnical and Transportation Engineering Applications** from 14th to 18th Jul. 2025. The event was designed to provide practical exposure and skill development opportunities for professionals, academics, researchers, and students.

The inaugural ceremony was organised on 14th Jul. 2025. It was graced by **Dr. A. P. Singh**, Honorary Secretary of IGS National Body, as the Chief Guest. **Dr. S. Sanyal**, Dean (CR&RM), NIT Raipur, was the Guest of Honor. **Dr. R.K. Tripathi**, Professor, CE, NIT Raipur; **Dr. G.D. Ramtekkar**,

Dean (P&D), NIT Raipur; **Dr. R.N. Khare**, Principal, VEC Ambikapur; and **Dr. S.K. Samadhiya**, HoD, CE, IIT Roorkee, were also present in both offline/online modes. **Dr. L. K Yadu**, HoD, CE, IGS Raipur, was the convener of the programme and greeted everyone with a welcome speech. During the function, **Prof. D.G. Tamaskar**, Founder and Chairman of the IGS Raipur Chapter, was felicitated for his dedicated service in the field of geotechnical engineering. **Dr. Yadu** also announced the new office bearers for the IGS Raipur Chapter for the 2025-2027 term. The training program was coordinated by **Dr. S. Deol G**, Associate Professor, CE, and **Dr. A. Bano**, Associate Professor, CE.



The valedictory ceremony was held on 18th Jul. 2025 in the presence of eminent dignitaries, including **Dr. M.K. Verma**, Professor, CE, NIT Raipur. Other notable guests included **Dr. R.K. Tripathi**, Immediate Past Chairman, IGS Raipur Chapter, **Dr. Ramtekkar**, **Prof. Tamaskar**, **Dr. Khare**, and **Prof. L. K Yadu**. The program's primary objective was to provide participants, including field engineers, consultants, and research scholars from across India, with broad exposure to state-of-the-art testing equipment and hands-on training. Throughout the week, sessions covered a diverse range of applications, offering insight into cutting-edge practices and real-time testing methodologies.

The event was hailed as a great success, fostering academic-industry collaboration and enhancing the technical capabilities of all attendees, who expressed immense appreciation for the hands-on experience that bridged the gap between theoretical learning and practical application.

NIT Raipur organizes Stress Management Workshop

Department of Humanities and Social Sciences (DHSS), NIT Raipur organized a two-day seminar on **Work-Life Balance and Mental Health** from 16th Jul. 2025 to 17th Jul.

2025. The workshop focused on raising awareness about mental health and techniques for coping with stress. The inauguration ceremony took place on 16th Jul. 2025. It was graced by the esteemed presence of **Dr. N. V. Ramana Rao**, Director, NIT Raipur, **Dr. Samir Bajpai**, HoD, DHSS, and **Dr. Sudhakar Pandey**, HoD, IT, along with faculty members and staff.



Dr. Bajpai emphasized the importance of mental health and extended his gratitude to **Dr. Heena Chawda**, Psychological Counsellor at NIT Raipur, for her dedicated efforts. **Dr. Pandey** noted it was essential to keep the stress confined to professional settings. **Dr. Rao** shared several practical strategies to promote a better work-life balance and enhance mental well-being. **Dr. Chawda** emphasized that the right perspective is the solution to dealing with mental health problems. She also stated that achieving a work-life balance meant maintaining a balance between personal and professional life.

The closing ceremony on 17th Jul. 2025 was graced by the esteemed presence of **Dr. A. K. Poonia**, Professor, DCE. **Dr. Poonia**, in his address, gave tips for living a simple and balanced life. The event concluded with a vote of thanks by **Dr. Chawda**.

NIT Raipur conducts a 5-Day STTP on Advanced Surveying and their Engineering Applications

Department of Civil Engineering (CE), NIT Raipur, successfully concluded a five-day Short-Term Training Program (STTP) on **Advanced Surveying and their Engineering Applications** from 25th to 29th Aug. 2025. The inaugural session of the STTP was graced by **Shri Vijay Kumar Bhatpahri**, Engineer-in-Chief, Public Works Department, as the Chief Guest, and **Dr. M.K. Verma**, Professor, CE, NIT Raipur, as the Guest of Honor. **Dr. L.K. Yadu**, HoD, CE, NIT Raipur, was the Chairman of the program. The Closing ceremony was graced by **Shri Prabhat**

Pradhan, Officer Surveyor, Survey of India, as the Chief Guest of the Event. **Dr. N. V. Ramana Rao**, Director, NIT Raipur, and **Dr. Yadu** attended as the Guest of Honor. The program was coordinated by **Dr. A.D. Prasad**, Assistant Professor, CE, and **Dr. A. V. Ahirwar**, Associate Professor, CE, and **Dr. N.V. Swamy Naidu**, HoD, ME. The primary objective of the training program was to bridge the gap between theoretical understanding and practical field applications of surveying.



In the inaugural ceremony, **Dr. Yadu** highlighted the rich history of surveying, from the pyramids to modern GIS, satellites, and UAVs. **Dr. Prasad** outlined the training's focus on advanced tools, such as drones and laser scanners, and appreciated the diverse participation. **Dr. Verma** inspired students by stressing the role of surveying in engineering and technology, citing GPS and Google Maps as examples. **Shri Bhatpahri** emphasized precision, urging students to master instruments and specialize in their field. The inaugural ceremony concluded with a Q&A session with **Shri Bhatpahri**, followed by intensive hands-on sessions on modern instruments, including UAVs, DGPS, Laser Scanners, and Total Stations.

The august presence of the Chief Guest, **Dr. N. V. Ramana Rao**, and **Shri P. Pradhan** graced the closing ceremony. It featured talks on modern surveying technologies and their applications. **Shri Pradhan** explained India's growing CORS network, GNSS fundamentals, and uses from weather forecasting to drone navigation. **Dr. Rao** spoke on the broad applications of modern surveying. He discussed advanced technologies, such as 3D Laser Scanners and LiDAR, for documenting civil infrastructure, as well as the use of UAVs equipped with high-resolution cameras to create precise digital maps. He concluded that advanced surveying provides the critical data needed to design solutions for complex environmental issues. **Dr. Yadu** stressed their practical role in projects like the Chenab Bridge.

The ceremony concluded with an interactive feedback session with the participants and a final vote of thanks. Certificates were distributed to the participants, marking the end of a week of intensive learning and knowledge exchange.

NIT Raipur hosts seminar on Stress Management through Value Education



Department of Humanities and Social Sciences (DHSS), NIT Raipur organized a seminar on **Stress Management Through Value Education** on the 10th Sept. 2025 in observance of World Suicide Prevention Day. The session was graced by the presence of **Dr. (Mrs.) A.B. Soni**, *Director (I/c), NIT Raipur*, as the *Chief Guest*. **Dr. S. Sanyal**, *Dean (CR&RM)*, and **Dr. M. Chopkar**, *Dean (SW)*, were also present as distinguished guests. On this occasion, **Dr. Heena Chawda**, faculty member in *Value Education* and *Psychological Counsellor*, along with faculty members, staff, and students, were also present.

The event aimed to raise awareness about mental health, break the stigma surrounding suicide, and encourage students to adopt healthy coping mechanisms through value-based living. Students actively participated by sharing their thoughts on mental health and presenting a video prepared by first-year students.

Dr. Soni emphasized the root causes of suicide, which include unemployment, poverty, and excessive materialism. She emphasized the need for a paradigm shift in the education system, where value education is given its due importance. **Dr. Chawda** suggested practical measures such as living in the present, letting go of the past, and developing self-confidence to overcome mental health issues. She further emphasized that value education classes helped students deal with such problems, balance life, and understand themselves. In an interactive session with students, **Dr. Sanyal** addressed academic and lifestyle concerns. He explained the credit system, relative grading, and the importance of time management. He encouraged students to maintain good attendance, engage in clubs or committees, and pursue

hobbies. The event concluded with a vote of thanks by **Dr. Chawda**.

NIT Raipur inaugurates online certification course on AI & Machine Learning Innovations in Geology and Water Resources



National Institute of Technology Raipur's Continuing Education Cell (CEC) organized A 15-day online certification course on **Artificial Intelligence and Machine Learning Innovations in Geology and Water Resources: From Theory to Practice (AIMILGWR-2025)** from 11th to 25th Jun. 2025. **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, served as the Chief Patron, with **Dr. G. P. Mishra**, *Dean (R&C)*, as Patron. **Dr. S. Ghosh**, *Chairman (CEC)*, along with coordinators **Dr. D. C. Jhariya**, *Associate Professor, DAG*, **Dr. M. Sahu**, *Assistant Professor, IT*, and **Dr. C. K. Singh**, *Assistant Professor, CE*, spearheaded this initiative. **Dr. M. K. Verma**, *Professor, CE*, was the Chief Guest of the Inaugural ceremony, while **Dr. S. Ghosh** and **Dr. P. Tripathi**, *HoD, MCA*, were the Guests of Honor.

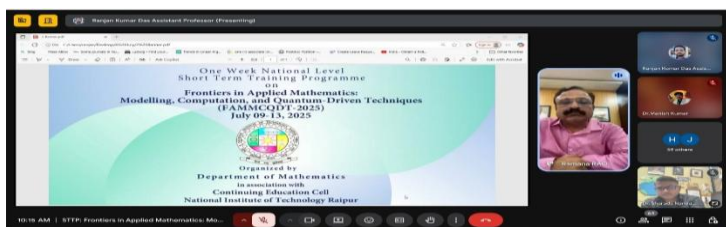
Dr. Sahu welcomed all the distinguished guests and provided a brief overview of the entire program. **Dr. Jhariya** highlighted this program's success in past years and encouraged everyone to participate. **Dr. Verma** congratulated the organizing committee and mentioned that AI and ML are the need of the hour. This course will help students to identify and solve problems related to geology and water resources. **Dr. Tripathi** gave the example of the Chenab Bridge, citing it as a great example of Engineering. **Dr. Ghosh** urged all participants to take full advantage of this course. **Dr. Singh** concluded with a vote of thanks.

The closing ceremony took place on 25th Jun. 2025 and was graced by **Dr. A. K. Tiwari**, *Dean (FW)*, as the Chief Guest. It was attended by **Dr. N. Vishwakarma**, *HoD, DAG*, **Dr. S. Ghosh**, and other participants. **Dr. Sahu** welcomed all guests. **Dr. Tiwari** emphasized the complexity of geological science and how AI and ML have brought a change. The session also announced the best achievers based on their performance in

the test and project submissions. The session concluded with a vote of thanks by **Dr. Jhariya**.

STTP on Frontiers in Applied Mathematics: Modelling, Computation and Quantum-Driven Techniques (FAMMCQDT-2025)

Department of Mathematics (DoM), NIT Raipur, in collaboration with **Continuing Education Cell (CEC), NIT Raipur**, organized a **National Level online Short-Term Training Programme (STTP) on Frontiers in Applied Mathematics: Modelling, Computation and Quantum-driven Techniques (FAMMCQDT-2025)** from 9th to 13th Jul. 2025. The program aimed to delve into Applied Mathematics in Science and Technology, emphasizing Modelling, Computation, and Quantum Techniques using tools such as Machine Learning and Quantum methods. The Inaugural event was graced by the presence of **Dr. N. V. Ramana Rao**, *Director, NIT Raipur*, as the *Chief Patron*, **Prof. Maheswara Rao Valluri**, *Chief Scientist, Quinfosys Pvt. Ltd., Hyderabad*, as the *Chief Guest*, **Dr. Narendra D. Londhe**, *Registrar, NIT Raipur* and **Dr. Subhojit Ghosh**, *Chairman, (CEC)* as the *Guest of Honors*. The event was attended by **Dr. Debashish Mishra**, *Chairman, STTP*, **Dr. Sujit Kumar Samanta**, *HoD, DoM*, alongside professors and participants. **Dr. Sharada Nandan Raw**, *Convener, STTP*, **Dr. L. Bhaskar**, *Coordinator, STTP*, and **Dr. Rajana Kumar Das**, *Coordinator, STTP*, led the program to success through their dedicated efforts.



Dr. Raw extended a cordial welcome to all the dignitaries, speakers from premier institutions and industries, and enthusiastic participants from across the nation. He expressed hope for strong academic connections through this initiative.

Dr. Rao congratulated the Department of Mathematics for organizing such a relevant programme, while thanking all the attendees. He emphasized the importance of tackling modern-day challenges such as computational complexity, quantum systems, and mathematical modelling. He stated that what was once considered unsolvable can now be addressed through the

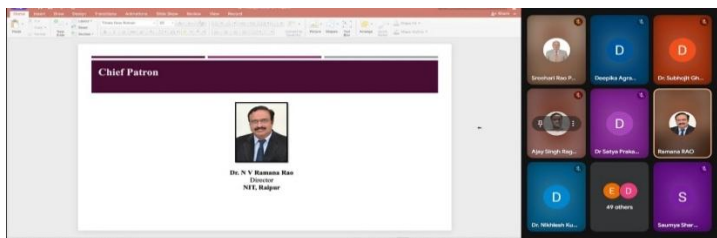
integration of AI and ML, marking a transformative phase for applied mathematics. **Dr. Mishra** outlined the objectives of the STTP and encouraged participants to fully engage with the platform, benefiting from the exchange of ideas. **Dr. Samanta** highlighted the department's ongoing contributions to cutting-edge research and academic developments, cultivating analytical thinking. **Dr. Ghosh** emphasized the primary areas of training: mathematical modeling and Quantum-driven techniques. He appreciated the participants for their enthusiastic involvement. **Dr. Londhe** lauded the department's progress and termed the STTP as a step toward academic transformation in applied mathematics. **Prof. Valluri** emphasized the deep interconnection of mathematics with all fundamental sciences and mentioned how quantum technologies, though niche, are bringing revolutionary changes. He applauded NIT Raipur for taking a bold step in promoting lesser-known yet significant areas, such as optimization, computation, and quantum methods, which are increasingly shaping emerging domains, including AI, finance, and fintech.

The Valedictory ceremony of the programme on 13th Jul. 2025, was graced by **Dr. Samir Bajpai**, *Director (I/c), NIT Raipur*, present as *Chief Patron*, **Dr. Shubhrita Gupta**, *Dean (Academics), NIT Raipur*, present as *Chief Guest*, and **Dr. Londhe** and **Dr. Ghosh** as the *Guests of Honor*. The event was attended by **Dr. Mishra**, **Dr. Samanta** alongside professors, and other participants. **Dr. Raw** shared that the program was enriching, with participation from institutes like IIT Guwahati, IIIT Nagpur, IIIT Raipur, Amarkantak University, and NIT Raipur, along with 57 delegates from across India, whose involvement made the STTP a success. **Dr. Das** summarized the course of events over the days, highlighting the daily agenda, which included topics such as modeling cryptography. **Dr. Mishra** remarked that the programme was truly insightful and inspiring, adding that it provided an excellent platform for learning, discussion, and collaboration. **Dr. Samantha** stated that the STTP explored key areas in applied mathematics and modelling. He affirmed the department's commitment to future programs and thanked all contributors.

Dr. Ghosh congratulated the coordinators, noting that the high participation reflected the course's success. He encouraged participants, saying this was just the beginning, and hoped the course would benefit their future academic endeavors. **Dr. Londhe** noted that the department is flourishing, enriched by a distinguished group of faculty members from across the

country. He added that the presence of eminent speakers from academia and industry, both from India and abroad, reflects the thoughtful structuring and dedication behind the event. **Dr. Gupta** expressed that it was heartening to see participants benefit from the STTP and hoped they would carry the learnings forward. He also congratulated the coordinators for their efforts. **Dr. Bajpai** emphasized that the rapid advances in fields like big data, machine learning, and AI are deeply rooted in mathematics. He appreciated the inclusion of financial mathematics, highlighting the challenges of high dimensionality, incomplete data, and the need for real-time, dynamic models in areas such as weather and traffic forecasting. **Dr. Bhaskar** concluded the ceremony by delivering the vote of thanks.

FDP on Machine Intelligence and Advancements in Internet of Things (MIIoT – 2025)



Department of Information Technology (IT), NIT Raipur has commenced a 10-day Faculty Development Program (FDP) on **Machine Intelligence and Advancements in Internet of Things (MIIoT – 2025)** on 17th Jun. 2025. The program was being organized with the support of the **Electronics & ICT Academy, MeitY, Government of India (GoI)**.

The inaugural session was attended by esteemed dignitaries, including **Dr. N. V. Ramana Rao**, *Director of NIT Raipur*, who served as both the *Chief Patron* and *Chief Guest* of the event. He highlighted the importance of upskilling and faculty development in cutting-edge domains. He also addressed the growing intersection between Artificial Intelligence, Machine Learning, and the Internet of Things technologies that are driving the next generation of innovations across different sectors. The *Special Guest* for the occasion was **Prof. Sreehari Rao Patri**, *Chief Investigator at the E&ICT Academy, NIT Warangal*, who addressed the gathering with insightful remarks on the future of intelligent systems and connected technologies. **Prof. S. Ghosh**, *Chairman, (CEC)*,

NIT Raipur, **Dr. A.S. Raghuvanshi**, *Principal Investigator, E&ICT Academy, NIT Raipur*, and **Dr. S. P. Sahu**, *Associate Professor, IT*, also attended the event as special guests. **Dr. S. Rup**, *Associate Professor, IT*; **Dr. D. Agrawal**, *Assistant Professor, IT*; and **Dr. K. K. Soni**, *Assistant Professor, IT*, were the Coordinators of the FDP.

The program was concluded on 27th Jun. 2025, and the valedictory ceremony was graced by **Dr. A. K. Turuk**, *Professor, CSE, NIT Rourkela*, as *Chief Guest*, and **Dr. A. S. Raghuvanshi** as the *Guest of Honor*, along with special guest **Dr. Sanjay Kumar**, *HoD, IT, NIT Raipur*. This FDP was conceptualized to empower faculty members, researchers, and professionals with a deep understanding of the convergence between IoT systems and Machine Intelligence. This combination lies at the heart of next-generation digital technologies.

FDP hosted 20 sessions, delivered by renowned resource persons from reputed institutions such as IITs, IIITs, and NITs, who shared their insights on both academic and applied research challenges. 56 Faculty members from diverse departments and institutions participated, promoting cross-disciplinary interaction and supporting the adoption of modern, innovative approaches to teaching and learning.

10-Day Online FDP on Recent Advancement in Deep Learning & Computer Vision (RADLCV-2025)

Department of Information Technology (IT), NIT Raipur has commenced a 10-day Faculty Development Program (FDP) on **Recent Advancement in Deep Learning & Computer Vision (RADLCV-2025)** on 30th Jun. 2025. The program was being organized with the support of the **Electronics & ICT Academy, MeitY, Government of India (GoI)**.



The inaugural session was attended by esteemed dignitaries, including **Dr. N. V. Ramana Rao**, *Director of NIT Raipur*, who served as the *Chief Guest* of the event. He highlighted the importance of upskilling and faculty development in cutting-edge domains. He also addresses the growing intersection between Artificial Intelligence, Deep Learning, and Computer Vision technologies that are driving the next generation of innovations across different sectors. The *Special Guest* for the occasion was **Prof. Sreehari Rao Patri**, *Chief Investigator at the E&ICT Academy, NIT Warangal*, who addressed the gathering with insightful remarks on the future of intelligent systems and connected technologies. **Prof. S. Ghosh**, *Chairman, Continuing Education Cell (CEC), NIT Raipur*, **Dr. A.S. Raghuvanshi**, *Principal Investigator, E & ICT Academy, NIT Raipur*, and **Dr. Sanjay Kumar**, *HoD, IT, NIT Raipur*, also attended the event as special guests. **Dr. S. P. Sahu**, *Associate Professor*, **Dr. S. Rup**, *Associate Professor, IT* and **Dr. G. P. Gupta**, *Associate Professor, IT* were the Coordinators of the FDP.

The program was concluded on 10th Jul. 2025. **Dr. G. P. S. C. Mishra**, *Dean, (R&C)* graced the event as *Chief Guest*, **Dr. Ajay Singh Raghuvanshi**, *Chief Investigator, E&ICT Academy, NIT Raipur*, and **Dr. Ram Prasad Padhy**, *School of Computer Sciences, IIT Bhubaneswar* served as *Guests of Honor*, **Dr. S. Pandey**, *HoD, IT*, served as *Special Guest*.

Dr. Sahu addressed the session by welcoming all dignitaries and participants. In his address, he highlighted the broad learning outcomes of the FDP, which included vital concepts in Artificial Intelligence, Machine Learning, Deep Learning,

and Computer Vision. **Dr. Rup** noted that the FDP was immensely beneficial for participants pursuing research in the domains of deep learning and computer visualization. **Dr. Pandey** congratulated the organizing team and acknowledged the success of the FDP. He expressed that the workshop not only taught concepts but also inspired participants. **Dr. Raghuvanshi** encouraged participants to apply the knowledge gained in their classrooms and research work for the benefit of society.

Dr. Padhy emphasized the rapid advancements in fields such as image processing and robotics. He also invited interested participants to contact him for potential research collaborations. **Dr. Mishra** appreciated the extensive knowledge dissemination during the FDP, mentioning that nearly 40 hours of lectures were conducted by speakers from IITs, IIITs, and NITs.

This FDP hosted 20 sessions with 40 lectures, delivered by renowned resource persons from reputed institutions such as IITs, IIITs, and NITs, who shared their insights on both academic and applied research challenges. 51 participants from different institutions took part, promoting cross-disciplinary interaction and supporting the adoption of modern, innovative approaches to teaching and learning. The session concluded with **Dr. Gupta** delivering the formal vote of thanks. The workshop also featured interactive Q&A sessions, hands-on project work, and the collection of detailed feedback, making it a holistic and enriching learning experience.

Research Frontier

Expert Lectures delivered by Institute Faculty/ Staff

- **Dr. Tripti Swarnkar**, *Professor, MCA*, delivered an invited expert lecture on *Generative AI and Healthcare* on 8th Aug. 2025 during **One Week Professional Development Program on Soft Computing Techniques for Intelligent Systems and Applications** at *Vardhaman College of Engineering (VCE), Hyderabad*.
- **Dr. Tripti Swarnkar**, *Professor, MCA*, delivered an invited expert lecture on *AI-Generated Content: Ethical and Integrity Challenges* on 26th Aug. 2025 at the **12-day Refresher Programme on Applications of AI in Higher Education (Interdisciplinary)** at *UGC-MMTTC, Hansraj College, and Apeejay Stya University, Gurugram, Haryana*.
- **Dr. Tripti Swarnkar**, *Professor, MCA*, delivered an invited expert lecture on *Data Driven Agriculture: AI and Big Data for Sustainable Growth* on 15th Sept. 2025 at **ATAL Faculty Development Program (FDP) on Smart and Sustainable Agriculture: Leveraging AI, IoT, and Big Data** held at *Ballari Institute of Technology and Management (BITM), Ballari, Karnataka*.

- **Dr. Govardhan Bhatt**, Associate Professor, CE, delivered an expert lecture as **Reviewer of ICASEMS-2025**, organised by *GH Rasoni College of Engineering, Nagpur*, on 20th Jun. 2025.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, delivered an expert lecture as **Session Chair of the International Conference-SHAASTRARTH-2025**, organised by *Rungta College of Engineering & Technology, Bhilai, C.G.*, on 28th Jun. 2025.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, delivered an expert lecture as the **Session Chair of the International Conference-ICCMS-2025**, organized by *IIT Tirupati* on 3rd July 2025.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, delivered an expert lecture at the **Day Online FDP Program**, organized by *the Amity Institute of Biotechnology*, on 16th Jul. 2025.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, delivered an expert lecture as the **Session Chair of the International Conference-ICCEAS-2025**, organized by *the Gandhi Institute for Education and Technology* on 18th Jul. 2025.
- **Dr. Nitesh K Bharadwaj**, Assistant Professor, CSE, delivered an invited expert lecture on *Hands on Session: Forensics Techniques for Storage Drive* on 12th Jul. 2025 at **Online Refresher Course on Network Security and Network Science: Mathematical Foundations, Practice, Research Trends** held at *Malaviya Mission Teacher Training Center, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai* in Online Mode.
- **Dr. Nitesh K Bharadwaj**, Assistant Professor, CSE, delivered an invited expert lecture on *Non-Volatile Memory Forensics* on 5th Aug. 2025 at **Five Day Online Faculty Development Programme (FDP) on Cyber Forensics Tools & Techniques** organized under the *MeitY-funded project Cyber Forensic Framework for User Centric Human Threat Intelligence, Ram Lal Anand College, University of Delhi, New Delhi, India* in Online Mode.
- **Dr. Nitesh K Bharadwaj**, Assistant Professor, CSE, delivered an invited expert lecture on *Cyber Hygiene for Prevention of Cyber Incidents in Daily Life* on 22nd Aug. 2025 at a **Special training course on Cyber Security for the Indian Army** held at the *Army Educational Corps Training College & Centre* in Online Mode.
- **Dr. Nitesh K Bharadwaj**, Assistant Professor, CSE, delivered an invited expert lecture on *Malware Analysis* on 31st Aug. 2025 at the **Faculty Development Program on Malware Analysis (Hybrid Mode)** organized by *Electronics & ICT Academy under the aegis of MeitY, Malaviya National Institute of Technology, Jaipur*, in Online Mode.
- **Dr. Nitesh K Bharadwaj**, Assistant Professor, CSE, delivered an invited expert lecture on *Social Media Forensics: Extraction and Analysis of Potential Evidence* on 12th Sept. 2025 at a **Special training course on Cyber Security for the Officers of the Indian Army** held at the *Army Educational Corps Training College & Centre* in Online Mode.
- **Mr. Pawan Kataria**, Assistant Registrar, CDC, delivered an invited expert talk on *Innovation and Startup Ecosystem Enablers* on 13th Aug. 2025, hosted by the *Institute Innovation Council (IIC)* at *Pt. Ravishankar Shukla University, Raipur, Chhattisgarh*.

Sponsored Research Projects

- A project titled **Next Generation Data Carving and Preservation Techniques for Storage Drive Forensics** by **Dr. Nitesh K Bharadwaj**, Chief Investigator, **Dr. Aakanksha Sharaff**, Co-CI, and **Dr. Pradeep Singh**, Co-CI, sponsored by *Cyber Security Division, Ministry of Electronics and Information Technology (MeitY), New Delhi, India*, has been sanctioned for a period of two years with a total funding of Rs. 420.276 Lakh (Rupees Four Crore Twenty Lakh Twenty-Seven Thousand Six Hundred Only). The project, sanctioned on 20th Aug. 2025, will be jointly implemented by **NIT Raipur** (Overall coordination) and **Indian Institute of Information Technology Pune** at a total estimated cost of Rs. 420.276 Lakh (**NIT Raipur**: Rs. 227.186 Lakh, **IIIT Pune**: Rs. 193.09 Lakh) for the period of 24 months.
- A project titled *Strengthening Planning and Monitoring Capacities on Skilling, Renewable Energy and Operation and Maintenance of WASH systems (PRD and PHED, Technical Assistance to Government of Chhattisgarh)* by **Dr. Govardhan Bhatt**, PI and Associate Professor, CE, **Dr. Chandan Kumar Singh**, CO-PI and Assistant Professor, CE, sponsored by UNICEF for the period of 10 months.

PhD Thesis Defended

- **Mr. Anjaneer Kumar** defended his Ph.D. thesis entitled *Design of Data-Driven Algorithms for Securing Cyber-Physical Systems* under the supervision of **Dr. T. K. Das**, Associate Professor, MCA, on 9th Sept. 2025.
- **Ms. Divya Kosale** defended her Ph.D. thesis entitled *Production of Biochar from Biomass and its Application in Dye Removal* under the supervision of **Dr. V.K. Singh**, Professor, CE, and **Dr. C. Thakur**, Assistant Professor, CE, on 19th Jun. 2025.
- **Ms. Gouri Shankar Sharma** defended her Ph.D. thesis entitled *Investigations on Multiple Input Multiple Output Dielectric Resonator Antenna for Microwave Applications* under the supervision of **Dr. A. Gupta**, Assistant Professor, ECE, on 1st Jul. 2025.
- **Ms. Ritu Gupta** defended her Ph.D. thesis entitled *Dielectric Properties and Luminescent Behaviour of Some Oxyapatite Compounds* under the supervision of **Dr. S. Agrawal**, Professor, DoP and **Dr. A. K. Shrivastava**, Professor, DoP on 7th Jul. 2025.
- **Mr. Bhanu Pratap Singh** defended his Ph.D. thesis entitled *Synthesis and Characterizations of Surface Modified Nono-graphite from Graphite Powder and its Applications* under the supervision of **Dr. S.P. Mahapatra**, Professor, DCE and **Dr. S. Penta**, Assistant Professor, DCE on 8th Jul. 2025.
- **Mr. Dasari Anantha Reddy** defended his Ph.D. thesis entitled *Towards Designing of Effective Detection Engine for Skin Disease Diagnosis* under the supervision of **Dr. S. Kumar**, Associate Professor, IT, and **Dr. R. Tripathi**, Associate Professor, IT, on 12th Jul. 2025.
- **Ms. Anita Tirkey** defended her Ph.D. thesis entitled *Isolation, Characterization and Remediation of Microplastics from Environmental Samples and Fabrication of a Sensing Tool for its Detection* under the supervision of **Dr. Lata S. B. Upadhyay**, Professor, DBT, on 14th Jul. 2025.
- **Mr. Anat Ram Sidar** defended his Ph.D. thesis entitled *Design, Synthesis and Physio-chemical Analysis of Coordination Architectures Based on Multidentate ligands with M(II) Ions for Photocatalytic Degradation and Luminescent Sensing Applications* under the supervision of **Dr. K. A. Siddiqui**, Associate Professor, DoC, **Dr. M. Ahmad**, Faculty, DoC, Aligarh Muslim University on 21st Jul. 2025.
- **Mr. Vinay Verma** defended his Ph.D. thesis entitled *Parametric Study on Cross Flow Turbines* under the supervision of **Dr. S. Bhowmick**, Professor, ME, **Dr. V. K. Gaba**, Associate Professor, ME on 30th Jul. 2025.
- **Mr. Karaka Hemanth Kumar** defended his Ph.D. thesis entitled *Damage Assessment of Infilled High Strength Reinforced Concrete Frame Structures Using Applied Element Method* under the supervision of **Dr. R. K. Tripathi**, Professor, CE, on 14th Aug. 2025.
- **Mr. Kranthi Kumar Dewangan** defended his Ph.D. thesis entitled *A Deep Learning and Heuristic-based approach for Detecting the Breast Cancer in Earlier Stages* under the supervision of **Dr. S. P. Sahu**, Associate Professor, IT, and **Dr. R. R. Janghel**, Associate Professor, IT, on 26th Aug. 2025.
- **Mr. Shashi Chichkhede** defended his Ph.D. thesis entitled *A Parametric Study of the Static and Dynamic Behaviour of Rotating Functionally* under the supervision of **Dr. S. Sanyal**, Professor, ME, and **Dr. S. Bhowmick**, Professor, ME, on 26th Aug. 2025.
- **Ms. Abi Sarkar** defended her Ph.D. thesis entitled *Gender and Memory in Post-Partition Women's Narratives: A Study of Select Novels* under the supervision of **Dr. S. Sarkar**, Associate Professor, DHSS, on 2nd Sep. 2025.
- **Mr. Raj Kishore Singh** defended his Ph.D. Thesis titled *Biological treatment of Rice Mill Wastewater* under the supervision of **Dr. Samir Bajpai**, Professor, CE, on 15th April. 2025.
- **Mr. Dheeraj Lal Soni** defended his Ph.D. Thesis titled *Simulation and Experimental Performance of Nature-Inspired Texture Patterned Cutting Tool* under the supervision of **Dr. N.V. Swamy Naidu**, Professor, ME and **Dr. Jagadish**, Assistant Professor, ME on 25th May 2025.
- **Ms. Saumya Shrivastava** defended her Ph.D. Thesis titled *Construing the Geometrics of the Plan Form of Stellate Temples of Dakshina Kosala Region from 6th-12th CE* under the supervision of **Dr. A.**

Bandyopadhyay, Professor, DoA, and **Dr. V. Agrawal**, Assistant Professor, DoA, on 29th May 2025.

- **Mr. Sukhdev Singh Neti** defended his Ph.D. Thesis titled *Design and Analysis of Single-Phase Transformerless Multilevel Inverters with Minimization of Leakage Current for Photovoltaic Applications* under the supervision of **Dr. V. Singh**, Assistant Professor, EE, on 2nd Jun. 2025.
- **Mr. Shubham Sharma** defended his Ph.D. Thesis titled *Building an Effective Disease Detection and*

Species Classification Model for Plant Images using Deep Learning under the supervision of **Dr. M. Vardhan**, Associate Professor, CSE, on 12th Jun. 2025.

- **Ms. Varsha Ravindra Harne** defended her Ph.D. Thesis entitled *Development of Comprehensive Survival Mechanism for Predicting Flexible Pavement Performance* under the supervision of **Dr. R. K. Tripathi**, Professor, CE, on 14th Jul. 2025.

Awards, Recognition, and Fellowship

- **Dr. (Mrs.) Anamika Yadav**, Professor, EE, has been recognized by *IET Generation, Transmission & Distribution (Wiley)* for her research article *Gaussian Process Regression-Based Load Forecasting Model*, which ranked among the **Top 10% Most-Read Papers** published by the journal in 2023. This achievement highlights the recognition and impact of her work within the global research community.
- **Dr. Dilip Singh Sisodia**, Project PI and Associate Professor, CSE, and **Dr. Deepak Singh**, Assistant Professor, CSE, have been leading a project, "*Automated Elephant Tracking and Early Alert System for Minimizing Human-Animal Conflicts in Chhattisgarh*," with the support of the Chhattisgarh Council of Science and Technology. The project would include mobile-based Alerts, sensor-based detection, and AI-Powered Predictions.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, was elected as **Treasurer of ICI Raipur Chapter** for the year **2025-26**.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, was selected as a **member of the Board of Studies (BoS)** for *ASET, Amity University, Haryana*.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, was selected as a **member of the Board of Studies (BoS)** in the discipline of **Civil Engineering** for *Rungta International Skills University, Bhilai*.
- **Dr. Govardhan Bhatt**, Associate Professor, CE, was selected as **Subject Expert** by **CGVYAPAM** for evaluation and resolution of claims/objections on model answers of **Sub Engineer (Civil Engg) Recruitment Examination (PWSE25)** on 14th Aug. 2025 and of **Sub Engineer (Civil Engg) Recruitment Examination (WRSE25)** on 21st Aug. 2025.
- **Dr. D.C. Jharia**, Associate Professor, DAG, and **Dr. Chandan Kumar**, Assistant Professor, CE, presented the findings of a comprehensive geohydrological study conducted in four villages of Leh-Ladakh to the **UT Administration and LAHDC officials** in a high-level meeting chaired by **Shri Tashi Gyaltsan**, Hon'ble Chairman-cum-Chief Executive Councillor, LAHDC.
- **Mr. Suresh Dua**, Senior Technical Assistant, achieved a remarkable feat of endurance by successfully cycling from Leh to Umling La Pass, the World's Highest Motorable Pass, situated at a height of 19024 feet above sea level. The journey began from 17th Jul. 2025 and ended on 28th Jul. 2025.

Research Publications

- **Dr. Bijaya Kumar Sahoo**, Professor, DoP, and **Krishna Kumar**, have published a research article titled **Quantifying Joule Heating in InxGal-xN Structure via Polarization and Compositional Grading under External Bias** in *Physica Status Solidi B: Basic Solid State Physics (Phys. Status Solidi B 2025, 2500239)* and another research article titled **Polarization-Driven Thermal Enhancement in Ingan Semiconductors: Diffusivity Modifications and Implications for High-Power Device Applications** in *Thermochimica Acta*, Volume 752, October 2025, 180103.
- **Dr. Mohan Kumar Pradhan**, Associate Professor, ME has authored a book titled **Manufacturing in the Digital Age** published by **Routledge (Taylor & Francis Group)**, which is scheduled for release in November 2025.

- **Dr. Anil Manjhi**, *Assistant Professor, DHSS*, has published a book chapter titled **Postcolonial Identity of Transgenders in Mahesh Dattani's *Seven Steps Around the Fire*** in a book titled "**Postcolonial Literatures Across the Globe: Texts and Contexts**" published by **Authors Press**.
- **Dr. Ashish Kumar Vishwakarma**, *Assistant Professor at DME*, has published a research article titled "**Investigation on Bulk Emulsion Explosive Performance Under Critical Conditions: Its Detonation Behaviour and Air Overpressure Analysis in Propellants, Explosives, Pyrotechnics**" in **Propellants, Explosives, Pyrotechnics**.
- **Dr. K. Jairam Naik**, *Assistant Professor, CSE*, and **Dr. Nilesh Kumar Verma** have published a research article titled **Graph Reinforcement and Asynchronous Federated Learning based Task Offloading in Fog Computing in Physical Communication Volume 72, 102776. SCI Indexed. (Elsevier Journal) (IF-2.2)**
- **Dr. K. Jairam Naik**, *Assistant Professor, CSE*, and **Dr. Bhawna Kol** have published a research article titled "**Explainable Deep Reinforcement Learning with BIGRU-A3C for Early Mycobacteriosis Prediction in Smart Aquaculture**" in **Aquaculture International, Vol. 33, 541 (2025), a Springer Nature Journal (IF 2.4).**

Students' Achievements

- **Sumit Kumar**, *Ph.D. Scholar*, **Rishab Ranjan Jha**, *5th Sem, BME*, **Shubham Jangir**, *5th Sem, BME*, and **Achyutanand**, *Innovator, AIIMS, Raipur*, participated in the **Asia-Pacific Biodesign Innovation Summit** held in Hyderabad from 22nd to 25th Aug. 2025, under the guidance of **Dr. S. Gupta**, *Faculty-(I/c), Innovation Cell (I-Cell)*. The summit was a major international event featuring delegates from Israel, Japan, Australia, Taiwan, the United States, and other nations. A key highlight of the summit was the showcase of the Chhattisgarh Biodesign concept.
- **Mr. Vivek Gaharwal**, *M.Tech Scholar*, **Surabhi Mahana**, *PhD Scholar*, and **Priyash Yadav**, *BTech Scholar* under the guidance of **Dr. M. K. Pradhan**, *Associate Professor, ME*, have been awarded **Best Paper** for their research titled *Performance Optimization and Predictive Modeling of EDM Process using Machine Learning and Deep Learning Techniques* at the **Second International Conference on Advancements in Materials, Manufacturing and Automation (AMMA-2025)** held from 2nd to 3rd Apr. 2025, in *Chennai*.
- **Mr. Pavan Kumar Thippa** has been awarded the **Best Technical Paper** (Manuscript ID 366) at the **3rd International Conference on Construction Materials and Structures (ICCMS 2025)**, organised by the *Indian Institute of Technology Tirupati, India*, from 3rd to 5th Jul. 2025.
- **Mr. Satya Eswara Sanyasi Rao Kolli** has been awarded the **Best Technical Paper** (Manuscript ID 4816) at the **3rd International Conference on Construction Materials and Structures (ICCMS 2025)**, organised by the *Indian Institute of Technology Tirupati, India*, from 3rd to 5th Jul. 2025.

Club/Committee Activities

NIT Raipur's E-Cell Celebrated Entrepreneurship Day

NIT Raipur's Entrepreneurship Cell (E-Cell) celebrated Entrepreneurship Day with great enthusiasm on 21st Aug. 2025. The event witnessed the active participation of students

and young innovators eager to explore new ideas. It was organized under the guidance of **Dr. Chandrakant Thakur**, *Faculty-in-Charge of the E-Cell*. The event experienced inspiring talks by **Dr. Domendra Ganjir**, *Co-founder of Businessgarh*, and **Mr. Arijit Bhattacharya**, *Public Speaker and Angel Investor*. A quiz competition was also organized to

encourage the spirit of entrepreneurship among the youth, in which **Ms. Harshita Joshi** emerged as the winner.



Dr. Ganjir emphasized that a clear purpose is essential for building a successful startup. He stressed that a good startup idea is often found not elsewhere but within one's surroundings, solving the problems around us itself becomes the foundation of a startup. He further highlighted that the startup culture is also being actively promoted in Chhattisgarh, where immense opportunities lie ahead. Sharing his own journey, **Mr. Bhattacharya** encouraged students always to express their ideas openly and share them with their teammates, as this practice plays a crucial role in the growth of any startup. This celebration not only served as a source of inspiration for students but also further strengthened their spirit of innovation and entrepreneurship.

NIT Raipur's organised I-Talk on How to Unleash Your Best Creative Self

NIT Raipur's Innovation Cell (I-Cell), along with **MedX**, organized an I-Talk on the topic How to Unleash Your Best Creative Self on 18th Aug. 2025. The keynote speaker for the event was **Dr. Megha Agrawal**, *an alumna of NIT Raipur and an Adjunct Professor at the Luxembourg School of Business, holding a Ph.D. Engineering, University of Cambridge*. The event was organized under the guidance of **Dr. Saurabh Gupta**, *Faculty-(I/c), I-Cell*. More than 70 people attended in person, and over 50 joined online. A recording of the session was also published on official channels.

Dr. Agrawal began by welcoming the students and highlighting the importance of creativity and strategic thinking. She mentioned the Asia-Pacific Biodesign Innovation Summit 2025, scheduled in Hyderabad from 22nd to 25th Aug. 2025, with 24th August being open to all. The summit was graced by Shri Revanth Reddy, *Hon'ble Chief Minister, Telangana*, along with other leaders from across the Asia-Pacific region. It was a global gathering of MedTech and

biomedical innovators from India, the USA, Japan, Singapore, Taiwan, Ireland, Australia, and Israel, providing a significant opportunity for researchers and inventors to discuss future projects. She explained strategic thinking as a cyclical process and shed light on the different types and levels of strategic thinking, emphasizing the importance of Action, Acumen, and Allocation. She stated that creative ideas can strike at any time and that we should adopt different perspectives to foster thinking. She introduced the innovation framework, a core part of the Stanford Biodesign program, comprising three phases: Identify, Invent, and Implement. She later shared her experience at Stanford India Biodesign and the concepts of Chhattisgarh Biodesign, an initiative started a few years ago to advance and improve healthcare innovation within the state. The Stanford Mussallem Center for Biodesign has facilitated this effort under the guidance of **Prof. Anurag Mairal**, *Adjunct Professor at Stanford University, Director of Global Outreach Programs, and Co-Chair of the EPPIC Global Advisory Board, as well as an alumnus of NIT Raipur*. Dr. Megha Agrawal co-facilitated this effort.



Dr. Agrawal discussed a Solution-agnostic approach, advising against immediately jumping to a solution when considering a problem. She discussed two types of motivation, i.e., intrinsic and extrinsic, and explained that a combination of Autonomy, Mastery, and Purpose is essential for proper motivation. She emphasized the importance of simplifying the complex, a concise and impactful communication style, and the art of storytelling. Additionally, she advised students to observe and absorb with a child-like curiosity. The discussion also covered topics such as multi-tasking, evaluating cost versus value, and methods for effective decision-making. The program concluded with a Q&A session. This I-Talk proved to be highly inspiring and guiding for the students, encouraging them to advance in the direction of strategic thinking, innovation, and personal development.

Rajbhasha Samiti

Rajbhasha Samiti Inaugurated Hindi Pakhwada Aavahan 2025

Rajbhasha Samiti, NIT Raipur, inaugurated Hindi fest **Aavahan 2025** on 22nd Sep. 2025. The fest was conducted from 22nd Sep. 2025 to 6th Oct. 2025. The inaugural ceremony was graced by the presence of **Dr. A.B. Soni**, *Director (I/c), NIT Raipur*, and **Dr M. K. Chopkar**, *Dean (SW)*. The program was conducted under the guidance of **Dr S. Kumar**, *Professor (I/c), Rajbhasha Samiti*, **Dr. V. K. Vidhyarthi**, *Faculty (I/c), Rajbhasha Samiti*, and **Dr. S. N. Raw**, *Faculty (I/c), Rajbhasha Samiti*.



Dr. Soni emphasized the utility of Hindi in various domains of our lives. She highlighted that Hindi is not only a language but a symbol of unity. She traced the evolution of the Hindi language from the post-independence period to the present day. **Dr. Chopkar** threw light on the significance of Hindi Pakhwada, stating that it reflects the essence of India's cultures and traditions. He also extended his warmest wishes for the event's success. **Dr. Kumar** appreciated the efforts of the organising team and praised the nukkad natak organized by the students. He informed about the events in Aahvahan named *Shabdangan*, *Chakravyuh* and *Abhivyakti*. **Dr. Raw** outlined the relationship between language and development, concluding with the hope to strengthen the roots of the Hindi language and recognize its cultural significance.

The event concluded with a vote of thanks delivered by **Dr. Vidhyarthi**. Activities like *Chitra katha*, *Kavita Vaachan*, *Prashnotarri* and games like *Andha Mod*, *Khazane ki khoj* and *Gatispardha* were held. The events saw enthusiastic participation from the students. The fest promoted and celebrated the rich legacy of the Hindi language.

Further, **Abhivyakti** was organized on 29th Sep. 2025 as part of **Aahvahan**, the annual Hindi fest. The programme featured

various competitions such as **Smriti Spardha**, **Patra Lekhan**, **Kavita Vaachan**, and a **cleanliness-themed slogan writing contest** for faculty and research scholars. The fest also saw student participation in multiple literary and outdoor events, significantly contributing to the promotion of Hindi.

The event concluded with encouraging remarks and a vote of thanks, marking the successful completion of the week-long celebrations.

Rajbhasha Samiti Celebrated Munshi Premchand Jayanti

Rajbhasha Samiti, NIT Raipur, organized a grand celebration on 31st Jul. 2025 on the birth anniversary of the legendary Hindi novelist Munshi Premchand ji. The ceremony was graced by the presence of **Dr. N.V. Ramana Rao**, *Director, NIT Raipur*, and **Dr. M. K. Chopkar**, *Dean (SW)*. The event was held under the supervision of **Dr. S. Kumar**, *Professor (I/c), Rajbhasha Samiti*, **Dr. S. N. Raw**, *Faculty (I/c), Rajbhasha Samiti*, and **Dr. V. K. Vidhyarthi**, *Faculty (I/c), Rajbhasha Samiti*. The event witnessed enthusiastic participation from faculty members and students.

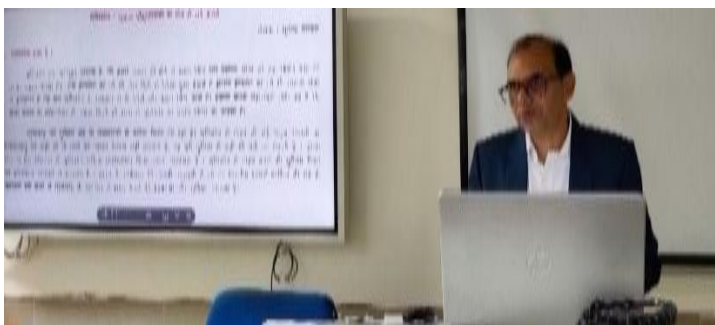


In his address, **Dr. Rao** highlighted Premchand's remarkable literary contributions, emphasizing his powerful portrayal of social issues, including caste discrimination, poverty, and feudalism. **Dr. Chopkar** spoke about the challenges of speaking pure Hindi in contemporary times and recalled his own experience of studying in a Hindi-medium school. A unique competition titled *Letter to Premchand* was held. **Dr. Kumar** described it as a challenging and meaningful activity. It was not only a tribute to the great writer but also an honor to his enduring legacy.

The cultural segment featured several performances by students. The event concluded with a vote of thanks by **Dr. Vidhyarthi**.

Rajbhasha Samiti Organised Hindi Workshop

Rajbhasha Samiti, NIT Raipur, organized a Hindi Workshop on 28th Aug. 2025. The keynote speaker of the workshop was **Mr. Bhupendra Pandey**, *Senior Translator Officer at the Office of the Principal Commissioner, Central Goods & Services Tax, Raipur*. The event was attended by the gracious presence of **Dr. M. K. Chopkar**, *Dean (SW)*. The objective of the workshop was to spread awareness about the importance of the Hindi language and to provide insights into working with Unicode. The workshop was organized under the guidance of **Dr. S. Kumar**, *Professor (I/c), Rajbhasha Samiti*, and **Dr. S. N. Raw**, *Faculty (I/c), Rajbhasha Samiti*.



Mr. Pandey explained various methods of typing in Hindi and other Indian languages. He introduced the participants to Unicode and shared details about the website he had designed. **Dr. Kumar** encouraged everyone to contribute to the promotion of the Hindi language. The winners of the Munshi Premchand Jayanti– Letter to Premchand competition were also felicitated. The event saw the enthusiastic participation of the faculty members, staff, and students.

NIT Raipur inaugurated National Sports Day Celebrations 2025



Department of Sports, NIT Raipur, in collaboration with **Shaurya- The Sports Committee**, inaugurated a three-day

celebration of National Sports Day 2025. The inauguration took place on 29th Aug. 2025. **Dr. N. D. Londhe**, *Registrar, NIT Raipur*, was present as the *Chief Guest*. The event was also graced by **Dr. M. K. Chopkar**, *Dean (SW)*, **Dr. V. K. Gaba**, *Faculty (I/c), Training and Placement Cell*, **Dr. Rajana S. Kumar**, *Professor (I/c), Sports*, **Dr. A. Bano**, *Faculty (I/c), Sports*, **Mr. K. S. Mann**, *Sports Officer, NIT Raipur*, along with other faculty and staff members. The program featured a pledge-taking ceremony and the beginning of a Kabaddi tournament. **Dr. Londhe** delivered the inaugural speech and spoke about sports as a source of energy, motivation, and happiness. The objective of the event was to promote fitness, foster team spirit, and instill Olympic values.

A cycling rally titled *Sunday on Cycle* was held on 31st Aug. 2025 on the occasion of National Sports Day. The event was graced by **Dr. Chopkar**, **Dr. Rajana S. Kumar**, and **Mr. K. S. Mann**, along with other faculty and staff members. The event aimed to promote fitness and sustainability. Cyclists rode around the campus and their surroundings, spreading the message of a healthy lifestyle and eco-friendly practices.

NIT Raipur Observed 5th Anniversary of Nasha Mukh Bharat Abhiyan

National Cadet Corps (NCC), NIT Raipur successfully organized an awareness session on the 5th Anniversary of the *Nasha Mukh Bharat Abhiyan (NMBA) 2025*. The program aimed to sensitize students, faculty, and staff about the harmful effects of drug abuse and to encourage a healthy, addiction-free lifestyle.



The Event was organized under the guidance of **Dr. M. K. Chopkar**, *Dean (SW)*, **Dr. N. Manhas**, *Faculty (I/c), NCC, NIT Raipur*, and **Dr. Jitendra Kumar Rout**, *Faculty (I/c), NCC, NIT Raipur*. The event was graced by **Dr. D.C. Jharia**, *Associate Professor, DAG*, and **Dr. M. Murmu**, *Associate*

Dean (SW). It saw enthusiastic participation from staff and students. In this program, **BK Saumya Ji** and **BK Nisha Ji**, from *Brahma Kumari, Raipur*, led the oath-taking ceremony and motivated the participants with their informative lecture on the importance of discipline and positive living.

The pledge reaffirmed the collective commitment to build a drug-free India. The session featured motivational messages, interactive discussions, and practical guidance on resisting peer pressure and choosing a healthy lifestyle.

Orientation program on Rural Empowerment by UBA Club

Unnat Bharat Abhiyan (UBA), NIT Raipur, organized an orientation program for UBA Participatory Institutions of Chhattisgarh on 29th Aug. 2025. The program began with the traditional lighting of the lamp, followed by a formal welcome to the guests. **Dr. N. V. Ramana Rao**, Director of NIT Raipur, was the Chief Guest. Attendees included **Dr. Sudhakar Pandey**, Regional Coordinator of UBA; **Dr. V. K. Gaba**, Faculty (In charge) of the Training & Placement Cell at NIT Raipur; **Dr. Govardhan Bhatt**, PI Coordinator of UBA at NIT Raipur; **Dr. D. Agrawal**, Assistant Professor of IT; **Mr. V. Verma**, UBA staff at NIT Raipur; faculty members; representatives from various UBA Participatory institutions in Chhattisgarh; and students of NIT Raipur.



Dr. Rao emphasized that supporting National initiatives is our responsibility, and we must particularly focus on areas such as organic Farming, Health and Sanitation, and Water Management. In his address, **Dr. Pandey** highlighted that UBA identifies real issues in villages, such as water, sanitation, and health, through surveys and provides support for their solutions through various projects. **Dr. Bhatt** shared that under UBA, villages have been supported in multiple ways, and the club responsibly fulfilled its duties even during the COVID period. **Dr. Gaba** mentioned that several commendable initiatives have been undertaken under UBA in the fields of health, sanitation, and rural education.

At the end of the inaugural ceremony, Dr. Bhatt delivered a vote of thanks. The day-long event, comprising four sessions, concluded successfully. It resonated with the vision of Gram Swaraj, emphasizing the vital role of higher educational institutions in fostering self-reliant and sustainably developed villages.

Alumni Achievements

- NIT Raipur congratulates **Mr. Divya Kant Chandrakar (1995/Civil)** on being promoted as *Divisional Railway Manager (DRM)*, Thiruvananthapuram, Southern Railway.



- NIT Raipur congratulates **Mr. M Nagesh Rao (1988/ECE)** on being promoted as *Director General, DoT, AP and Telangana*.



- NIT Raipur congratulates **Mr. Rajneesh Kumar Tomar (1994/ME)** on being appointed as *Combined CVO in Military Engineering Services (MES)* and *Border Road Organisation (BRO)*, Delhi.



- NIT Raipur congratulates **Mr. Onkesh Chandrawanshi (1985/Civil)** on being promoted as *Engineer in Chief Dept. Of PHE, Chhattisgarh*.



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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