Institute News

NIT Raipur among Top 25 Innovative Institutes

NIT Raipur has been ranked as the **top 25** innovative institutes among all Higher Education Institutions (**HEIs)** that come under the **Institutions Innovation Councils (IICs)** comprising **952** selected HEIs in India**.** It has also been adjudged as 2nd **best**

performing Institute from Central Zone (CRO) by the **MHRD Innovation Cell** (MIC) on 11th Sep., 2019, New Delhi. The main objective of MIC is to **encourage, inspire and nurture young students** by supporting them to work with new ideas and transforming their innovative ideas into **marketable prototypes**.

Inauguration of Girls Common Room

Girls' Common Room of the Institute was inaugurated by **Dr. A. M. Rawani**, Director, NIT Raipur on 15th Jul., 2019 with the motto to provide healthy and sanitary space to the girl students of the Institute. The facility includes sanitary napkin vending machine, sanitary napkin disposal machine, bed and basic first aid kit along with dressing area and attached washroom. This room will enable girls to sit, interact and discuss various academic and educational points with each other.

NIT Raipur Sets up 32nd Fastest Supercomputer in India

NIT Raipur has set up **32nd Fastest Supercomputer** as per the latest Top Supercomputers List released by **CDAC** in July 2019. It is an **HPC cluster supercomputer** having a Linpack benchmark performance of 39.5 TFLOPS at the setup in the Advanced Computing Facility under the Systems & Networks

Division of its Central Computer Center. NIT Raipur is the only NIT which has made entry into the prestigious CDAC List. The establishment of the supercomputer would provide impetus to computational research by enabling large scale high-resolution simulations in science and engineering disciplines.

73rd Independence Day

The **73rd Independence Day** of the nation on 15th Aug., 2019 was celebrated in NIT Raipur. The national flag was hoisted by **Dr. A. M. Rawani**, Director, NIT Raipur. He thereby addressed the gathering. He mentioned the importance of the growth of educational institutions. He proudly mentioned, **Sri Soumitra Tamaskar** (1996 batch: Electronics and Telecommunication) who received the prestigious **Vayu Sena** medal for the year 2019. He announced a session named **Fire** (free informal right to express) wherein students can express their ideas with freedom. Formation of a **Quality Circle** consisting of faculty from each department was also announced. This would provide a platform to discuss various issues for the development of the Institute. He also stated that ethical and moral values are very important to be inculcated in the students. With this idea, he announced the formation of **Ethics Club** in the Institute. After this, a cultural program

was organized in which students along with the faculty members took part. Team NSS, NIT Raipur conducted a plantation drive on the account of Independence Day.

Induction Program for 1st Year Students

NIT Raipur organized a nine-day **Induction Program** for B.Tech and B.Arch 1st year students from 25th Jul., to 3rd Aug., 2019 at NIT Raipur. **Dr A. M. Rawani**, Director NIT Raipur briefed the students about the Institute and highlighted the features of the new Scheme of curriculum that has been adapted in the Institute. **Dr P. Diwan**, Dean Student Welfare, elaborated various academic and infrastructure facilities that are available for the students. The program, helped the students to familiarize themselves with the various clubs and committees of the Institute. **Dr. S. Varma**, Dean Academics, interacted with all the students and explained them the current academic program offered by the Institute. The sports and medical officers briefed about the sports and medical facilities available in the Institute. Basic skills and activities like *Yoga, Value Education, Personality Development and Stress Management, Law and Human Rights, Communication, Health and Hygiene* were discussed by experts from respective fields. The Students of higher semesters elaborated the role and functions of various clubs and committees of the Institute. City tour was also conducted for the students to acquaint them with the various Infrastructure facilities available in the city.

Pension Adalat Organised

Under the initiative of Nationwide-Adalat, Govt. of India, **Pension Adalat** was organised in the Institute on 23rd Aug., 2019 with an objective of quick and prompt redressal of pensioners, grievances within the framework of extant policy guidelines. The Adalat was headed by **Dr. Mithilesh Atulkar**, Registrar, NIT Raipur, along with constituted members from the Department of Establishment, Finance and Accounts of NIT Raipur.

Inauguration of Gymnasium

The newly refurbished Gymnasium was inaugurated by **Dr. A. M. Rawani**, Director, NIT Raipur on 30th Jul., 2019. In his inaugural speech, he has emphasized the significance of physical training and gymnastics which would promote, enhance and improve the health and fitness of students. The new gymnasium is well equipped with fitted instruments such as Butterfly for shoulders, Calf muscles, Leg press for thigh, Shoulder and forearm, Cycles, Treadmill automated, Dumbles for heavyweights for different weight lifting, Leg pull down for shoulders and Military press for shoulders. The facilities would be operated for female members between 6:30 am to 8:30 am and male members of the Institute between 5:00 pm to 7:00 pm.

Inauguration of Milk Parlour

Dev Bhog Milk Parlour was inaugurated by **Dr. A. M. Rawani,** Director, NIT Raipur on 30th Jul., 2019. *Dev Bhog* Milk Parlour, which is famous for its direct imports of fresh products from the producers would cater the daily eatery and drinks requirements of the students and faculty residing on the campus.

Aditya Birla Group and ITP Media Felicitated the Institute

NIT Raipur has been felicitated in an event **Reinventing the Future** which was jointly organized by **Aditya Birla Group** and **ITP Media (Manufacturing Today),** at Hotel Hyatt, Raipur. Five Teams of students demonstrated their projects to the Industry delegates. The event intended to open prospective interaction with Industrial delegates by bridging the gap between Academia and Industry, which would pave way for the development of cutting-edge technology leading to the progress of the nation.

FIRE

The Institute has started to conduct **Free and Informal Right of Expression (FIRE)** session *every month to provide an opportunity to students for expressing their views, feedback, grievances and ideas* for the improvement of various facilities and functionings. *Dean Student Welfare***,** *NIT Raipur* shall be the *Convener* of FIRE session. Any student can participate in the session by giving his/her name to the Dean in advance. The session would be chaired by the Director, NIT Raipur and

attended by all concerned officials of the Institute. The agenda for FIRE sessions for the academic year 2019-20 is given below

S. No.	Month	Agenda for FIRE session
1	September 2019	Hostel facilities
2	October 2019	Teaching and Learning
3	November 2019	Examination and Evaluation
4	December 2019	Support from Alumni and Alumni relations
5	January 2020	Extra Curricular Activities
6	February 2020	Overall Campus Life including canteen, sports etc.
7	March 2020	Training Placement and Internships
8	April 2020	Scholarships and reimbursement of dues
9	May 2020	Entrepreneurial activities

TEQIP-III Sponsored Training Program for VEC Lakhanpur Students

Striving to achieve the motto of social responsibility, NIT Raipur organized the **Summer Internship** Training program for **VEC Lakhanpur students** from 10th to 14th Jun., 2019. The program, which was conducted under the guidance of **Dr. S. Sanyal,** TEQIP Coordinator and respective HOD's of NIT Raipur, was fully funded by TEQIP-III.

All the lab sessions covering the subject Workshop, Engineering

Mechanics, Basic Electrical Engineering, and Basic Civil Engineering were arranged as per the syllabus of **VEC Lakhanpur**. **Yoga classes** were also conducted daily in the morning. Further, a series of lectures were scheduled by members of the **Click Club** to illustrate the importance of photography that covers the dynamic aspects of Indian culture and society.

Academic Activities

STTP/Conference/Workshop conducted

STTP on Python Programming and its Applications

A one-week Short Term Training Program **(STTP)** on **Python Programming and its Application** was organized by **Dr. A. Sharaff**, Assistant Professor, Department of Computer Science and Engineering (CSE) and **Dr. M. Sahu**, Assistant Professor, Department of Information Technology (IT) from 19th to 23rd Jun., 2019 at CSE, NIT Raipur

STTP on Sequential Decisions and Methods of Exploring Design Options

One-week STTP was organized on **Sequential Design Decisions and Methods of Exploring Design Options** in Department of Architecture (DOA) on 15th -19th Jul., 2019. The STTP was chaired by **Ar. D. Sanyal** and convened by **Dr. S. Sthapak**. The event was coordinated by **Dr. A. Bandyopadhyay**.

National Conference on Recent Trends in Applied and Computational Mathematics

Department of Mathematics, NIT Raipur organized a two-day National Conference on **Recent Trends in Applied and**

Computational Mathematics during 20th -21st Jul., 2019. **Dr. H. P. Pathak,** Professor, Pt. Ravi Shankar Shukla University (PRSU), Raipur, inaugurated the conference and delivered an invited talk on **Mathematical Modeling and Simulation Techniques - An Overview**. More than **35 research papers** were presented in the area of applied and computational mathematics. The presentation was followed by an invited talk **on Cryptography from Classical to Modern** by **Dr. S. Padhye**, Associate Professor, Department of Mathematics, MNNIT Allahabad.

National Conference on Emerging Materials and Nanotechnology

Department of Metallurgical and Materials Engineering (DMME), NIT Raipur organized a two-day National Conference on **Emerging Materials and Nanotechnology** from 6th to 7th Sep., 2019. The conference was inaugurated by **Dr. M. Tripathi**, HoD, DMME. The event was organized by **Dr. N. Gupta**, Assistant Professor and **Dr. M. K. Chopkar**, Associate Professor, DMME.

Workshop on Programming, Simulation, and Optimization using MATLAB

A one-week workshop on **Programming, Simulation, and Optimization using MATLAB** was organized by **Dr. A. Sharaff**, Assistant Professor, CSE and **Dr. R. N. Patel**, Associate Professor, Department of Electrical Engineering (EE) from 22nd to 26th Aug., 2019 at CSE, NIT Raipur.

National Conference on Health Communication

The Department of Humanities and Social Sciences, NIT Raipur organized a one day National Conference on **Health Communication** on August 11, 2019. **Dr. M. Singh,** Assistant Professor, was the chairperson and the event was organized by **Dr. S. Tarai**, Assistant Professor, NIT Raipur and **Dr.Y. V. Babu**, Assistant Professor, NIT Raipur. The program was graced by **Dr. G. Singh,** Health Officer, UNICEF, India. He delivered the keynote lecture and deliberated upon issues related to inequities in public health.

Workshop on National Education Policy

One-day workshop on **National Education Policy 2019** was organized by **Dr. S. L. Sinha**, Professor, Dept. of Mechanical Engineering (DME) and **Dr. H. Bikrol**, Associate Professor, Department of Computer Application (DCA). The workshop was successfully completed under the chairmanship of **Dr. A.**

M. Rawani, Director, NIT Raipur, and the guidance of **Dr. P.K. Sinha**, Director, IIIT Raipur; **Dr. B. K. Sthapak**, Former Vice-Chancellor, Chhattisgarh Swami Vivekanand Technical

University Bhilai, Chhattisgarh; **Dr. S.K. Pandey**, Former Vice-Chancellor, PRSSU, Raipur and **Mr. S. Sinha**, Deputy General Manager, HR Department, Bhilai Steel Plant.

B-Model Workshop

Entrepreneurship Cell, NIT Raipur organized a workshop on Business Model on 24th Aug., 2019 with an aim to empower teenagers to build a startup, develop polished products, gain persuasive traction, and secure investor funding. The speaker of the workshop was **Mr. A. Bhattacharyya**, Founder, Virtualinfocom. The workshop witnessed an enthusiastic crowd from a variety of colleges

STTP on Communication Skills

One-week STTP on **Career Development and Communication Skills** was organized in the Department of Electrical Engineering, NIT Raipur. The program was

coordinated by **Dr. B. Shaw,** Assistant Professor, EE and **Dr. S. Tarai,** Assistant Professor, Department of Humanities and social sciences**,** during 9th – 13th Sep., 2019.

National Workshop on Advances in Materials, Processing, and Characterisation

A one-week workshop on **Advances in Materials, Processing and Characterization** was organized by **Dr. M. K. Manoj**, Assistant Professor and **Dr. N. Gupta**, Assistant Professor, DMME, NIT Raipur, from 26th to 30th Aug., 2019.

Photography Workshop

Click, the Photography Club of NIT Raipur organized annual photography workshop on 10th Aug., 2019, under the guidance of **Dr. S. Sanyal**, Professor In-Charge, Click Club. The 3-day workshop aimed to provide basic knowledge of photography. The Workshop started with the lectures of **Vitthal Shukla**, **Rijul Jain**, **Kishore Singh** and **Surya Prakash Sahu**. Further **Nitish Agrawal** and **Himanshu Kosariya**, Alumnus NIT Raipur elaborated on Bird Photography and the working of Adobe Software.

Machine Learning Workshop

Technocracy-The Technical Committee of NIT Raipur in collaboration with **Aavriti**, IIT Bombay organized a two-day workshop on Machine Learning from 24th to 25th Aug., 2019. The workshop was conducted by **Mr. S. Bharadwaj** from TechieNest, IIT Bombay who emphasised on various aspects of Machine Learning.

Robotix Workshop cum Exhibition

Robotix Club, NIT Raipur organized a workshop cum exhibition on Life on Mars on 9th Aug., 2019. It was aimed to explain the process of designing and building of autonomous bots and necessary devices which would be key to illustrate the first civilization on Mars. The exhibition showcased various Robotics projects completed by the current members of Robotix Club, providing insight into the architectural schema of projects, the major problems and challenges that they faced while working on their projects.

UBA Workshop

Unnat Bharat Abhiyan (RCI-UBA) 2.0, **NIT Raipur** organized a one-day regional orientation workshop on 7th Sep., 2019 with an objective of building awareness about various schemes of the Government of India like Ayushman Bharat and Mudra Yojana to eradicate poverty in India. The program was inaugurated by **Dr. A. .M Rawani**, Director, NIT Raipur. Representatives from **25 Institutes** of the state of Chhattisgarh participated in this workshop. **Prof. P. Kaushal**, NCI, IIT Delhi

and **Dr. A. Jangid**, Dayalbagh Educational Institute (Deemed University), Agra marked their presence in the workshop. **Dr. Jagdish,** DME, **Dr. M. Kant Verma,** DCE and **Dr. V. Agrawal,** DOA delivered the talk on Rural Entrepreneur, Water Conservation and Contamination and Rural Development Design respectively.

Python Workshop

A **two-day workshop** on Python and web development was organized by **Tedx NIT Raipur** during 10th - 11th Aug., 2019 under the guidance of Dr. S. Das Professor In-Charge Tedx. A special training team from the firm **Exact Techfleeters**, Jaipur conducted the workshop. The workshop began with basic programming followed by a session on the basics of python.

Career Counselling Session

An interactive Career Counselling Session was organized by **Career Development Cell** (CDC), NIT Raipur on 5th Sep., 2019 to provide information to students about career opportunities. The speakers of the session were **Ms. I. Chaudhary**, University of Nottingham, UK and **Mr. D. Malkhandi**, Anglia Ruskin University, UK.

Faculty Development Program

Career Development Cell, NIT Raipur organized a Faculty Development Program on **Shifting the Teaching-Learning Paradigm to Address the Future Needs of Engineering**

during 7th - 11th Sep., 2019. The Program was sponsored by **TEQIP-III**, NIT Raipur and organized in association with **IEEE Bombay Section**. The objective was to re-design the Engineering curriculum and pedagogy to meet the future needs of industry and societal changes. Special Focus was placed on Curriculum fostering that could innovate and drive entrepreneurship across the states. The keynote speakers of the program were: **Mr. V. Arya**, Founder SRIJAN and SIDS; **Mr. R. Singh**, IEEE Client Services; **Mr. S. Gaur**, Director Operations, Innovation Curis Private Ltd.; **Dr. S. S. Patel** , IRMA Anand; **Dr. S. N. Mehta**, VIT Mumbai; **Dr. V. Wali**, VIT Mumbai; **Mr. A. Singh**, Wadhwani Foundation and **Ms. S. Jha**, an Incubatee of IIM Bangalore. The Program was organized under the guidance of **Dr. S. Bajpai**, Head, CDC and coordinated by **Dr. R. N. Patel**, Associate Professor, EE and **Dr. Chandrakant Thakur,** Assistant professor, Department of Chemical Engineering**.**

Expert Lecture on Social Entrepreneurship

Entrepreneurship Cell, in collaboration with Innovation Cell, NIT Raipur organised an expert lecture on **Development of Social Entrepreneurship among Students** by **Mr. V. Arya**, founder, SRIJAN, SIDS and Buddha Foundation at DDU AUDITORIUM on 11th Sep., 2019. He motivated the students to take up Entrepreneurship and addressed the questions and queries rasied by the students and faculty members. He also praised NIT Raipur for its efforts towards developing Innovation and Entrepreneurship.

Faculty Achievements

- **Dr. N. Gupta**, Assistant Professor, DMME was awarded the prestigious **Bharat Gaurav Award** with Certificate of Excellence on 29th Aug., 2019 by **India International Friendship Society** (IIFS) during the conference on **Economic Growth and National Integration**, New Delhi.

- **Dr. S. N. Raw**, Assistant Professor, Department of Mathematics inaugurated the two-day national workshop as a Chief Guest and delivered an invited talk in the workshop titled Recent trends of applied Mathematics in Engineering, Management and Scientific computing at **VIT Bhopal University** during 6th to 7th Sep., 2019.

Expert Lectures Delivered by Institute Faculty/Staff

- **Dr. A. Khare**, Associate Professor, Department of Physics delivered an expert lecture on *Magnetic Effects of Current in Content Enrichment and Pedagogical Training (CEPT)* for Post Graduate Teachers (PGTs) organized by **Kendriya Vidyalaya**, BMY, Charoda, Bhilai on 15th Jun., 2019.

- **Dr. S. Jain**, Associate Professor, Department of Electrical Engineering delivered an expert lecture on *Standards and Regulation for Grid Integration on Powers Systems & Control: A Modern Perspective* at **VNIT Nagpur** from 1st to 6th Jul., 2019.

- **Dr. L. K. Sahu**, Assistant Professor, Department of Electrical Engineering delivered an expert lecture on *Introduction to Simulink in Electrical Engineering* during STTP on MATLAB Applications in Electrical and Electronics Engineering at **VEC Lakhanpur** on 10th Jul., 2019.

- **Dr. S. Ghosh**, Associate Professor, Department of Electrical Engineering delivered an expert lecture on *Control System Applications in MATLAB* during an STTP on MATLAB Applications in Electrical and Electronics Engineering at **VEC Lakhanpur** on 11th Jul., 2019.

- **Dr. S. Jain**, Associate Professor, Department of Electrical Engineering delivered an expert lecture on *MATLAB Simulation for Power Electronics* during STTP on MATLAB Applications in Electrical and Electronics Engineering at **VEC Lakhanpur** on 11th Jul., 2019.

- **Dr. N. Gupta**, Assistant Professor, Department of Metallurgical and Materials Engineering delivered an invited talk on *Processing of Metal Foams* at 3rd International Conference on Science and Engineering of Materials (ICSEM 2019) from 19th to 21st Jul., 2019 at Sharada University, Noida.

- **Ar. D. Sanyal**, Head of Department, Architecture delivered a guest lecture on *Smart Cities* in India at Ramtek, Nagpur on 24th Jul., 2019

- **Dr. S. L. Sinha**, Professor, Department of Mechanical Engineering delivered

expert lectures on *Air Pollution Monitoring, Energy Conservation: A New Frontiers and Alternative Fuels in I C Engines* during a 5-day workshop on Advances in Mechanical Engineering Research at **NIT Raipur** from 5th to 9th Aug., 2019.

- **Dr. S. K. Satpathy**, Dy. Librarian delivered a talk on *New Dimensions of Libraries and Library Automation* during the training program for the teachers of Government Polytechnic college on 6th Aug., 2019, **Chhattisgarh Academy of administration.**

- **Dr. S. K. Satpathy**, Dy. Librarian delivered a lecture on *E-resources, Tools and Services for Research as a Resource person* at Short Term Course on ICT resources by **Human Resource Development Centre**, PRSU Raipur on 6th Aug., 2019, Chhattisgarh Academy of administration.

- **Dr. S. L. Sinha**, Professor, Department of Mechanical Engineering delivered an expert lecture on *AICTE Norms for Diploma Teachers* at **Chhattisgarh Academy of Administration**, Raipur on 16th Aug., 2019.

- **Ar. D. Sanyal**, Head of Department, Architecture delivered a guest lecture on *Green Building and Sustainable Architecture* at **GITAM University**, Vishakhapatnam on 17th Aug., 2019

- **Dr. S. Ghosh**, Associate Professor, Department of Electrical Engineering delivered an expert lecture on *System Modelling, Controller Design and Ultracapacitor Characterization Using Fractional Calculus* during Fractional Order Systems and Their Applications (FOSTA – 2019) at **NIT Silchar** from 17th to 18th Aug., 2019.

- **Dr. N. Gupta**, Assistant Professor, Department of Metallurgical and Materials Engineering delivered an invited expert lecture on *Cellular Metals: Processing and Applications* in the National Workshop on Advances in Materials, Processing, and Characterization that was held from 26th to 30th Aug., 2019 at NIT Raipur.

- **Dr. L. K. Sahu**, Assistant Professor, Department of Electrical Engineering delivered an expert lecture on *Recent Trends and Advancement in Vehicular Electrification* on 31st Aug., 2019 at Columbia Institute of Engineering and Technology, Raipur.

- **Ar. M. Tenguriya**, Assistant Professor, Department of Architecture delivered a guest lecture on *Sustainability-A Need of Building Sector* in the National Seminar titled Recent trends in Structure and Structural Material at **Axis Institute of Engineering and Management** in association with **Axis Institute of Architecture**, Kanpur on 14th Sep., 2019.

Research Frontier

Awards, Recognition, and Fellowships

RANKuser: A folksonomy and user profile based algorithm to identify experts in Community Question Answering sites by **Mr. A. K. Singh**, PhD, Computer Science and Engineering, **Dr. N. K. Nagwani**, Associate Professor, CSE, **Dr. S. Pandey**, Associate Professor, IT published in Data Technologies and Applications has been selected by the editorial team as an **Outstanding Paper in the 2019 Emerald Literati Awards**.

Funded Projects

Project Titled *Detection of Data Attacks and Design of a Resistance Mechanism in Smart Grids* by **Dr. S.Ghosh**, Associate Professor, EE and **Dr. T. K. Das**, Assistant Professor, Department of Computer Applications and **Dr. E. Koley**, Assistant Professor, EE has been sponsored by **ICPS** (Interdisciplinary Cyber-Physical Systems), ₹ 66.47 Lakh funded by DST, Govt.of India.

Project Titled *Blast Bnduced Ground Vibration Monitoring at Blaghat Mines* by **Dr. M. Pradhan,** Professor, Mining Engineering and **Dr. P. Dewangan** Associate Professor, Mining Engineering has been sponsored by **MOIL** ₹ 1.88 Lakh.

PhD Thesis Defended

Mr. M. H. Soni defended his PhD thesis entitled *Design Optimization of Counter Flow Tubular and Plate-Fin Heat Exchanger* on 16th Jun., 2019 under the supervision of **Dr. S. L. Sinha, Professor, DME** and **Dr. M. Mishra, IIT Roorkee.**

Students' Corner

Students' Achievement

NIT Raipur Secured 38th Position in the SAE Supra

NIT Raipur secured **38th position** among 120 participants in the **SAE Supra** i.e. formula vehicle manufacturing competition held at Buddha International Circuit, Greater Noida during 15th to 20th July 2019, which marked an improvement of 13 ranks in comparison to the 51 ranks in the year 2018. **Ms. K. Singh**, 5th Sem, Department of Mechanical Engineering received the best girl participant award and prize money of ₹10,000. The **Team United Racing** was guided by **Dr. S. P. S. Matharu**, Professor, Mechanical Engineering. The team of 25 members was headed by Captain **Mr. A. Mundhada**, 7th Sem, Mechanical Engineering and Vice-Captain **Mr. A. Tiwari**, 5th Sem, Department of Mechanical Engineering.

- **Ms. S. Agrawal**, 3rd Sem, Department of Mechanical Engineering, NIT Raipur has secured a place in the internationally renowned newsletter - **Assembly** published by **Malala Fund**, an NGO run by the Youngest Nobel Prize Laureate Malala Yousafazai. She is one of the five female photographers, who have achieved this feat and has been honored with the title of **Next Generation of Female Photographers**.
- **Mr. H. Agrawal**, 5th Sem, Department of Mining Engineering, NIT Raipur has secured **1st position** in the eminent Mor Raipur, Vote Raipur competition organized by Raipur Smart City Limited.
- **Mr. R. Jain**, 5th Sem, Department of Mechanical Engineering, NIT Raipur has secured **1st position** in the cultural heritage category of pan India online photography competition Focused State Gujarat organized by MHRD.
- **Ms. R. Nale**, PhD Student, Department of Electrical Engineering, NIT Raipur and **Ms. R. Chandrakar** M.Tech. Student, Department of Electrical Engineering, NIT Raipur have received prestigious **EriGrid Transnational Access sponsorship** to conduct their research at SGTL laboratory, Spain (Tecnalia) from 17th Jun., 2019 to 6th Jul., 2019 under the joint guidance of **Dr. M. Biswal** (NIT Raipur), **Dr. N. Kishore** (MNNIT Allahabad), **Dr. M. Basu** (Technological University Dublin).
- **Dr. P. Mishra**, PhD student, Department of Mathematics is selected for **ERCIM Alain Bensoussan Fellowship Program** for post-doctoral research at University of Warsaw, Poland.
- **H. Thakur**, **S. Pandey**, **D. S. Devi,** and **Neha**; from 7th Sem, Department of Electronics and Communication Engineering won the coveted **Women Tech Award** in the Indian Innovation Challenge Design Contest, conducted by **Texas Instruments** in collaboration with the **Department of Science and Technology (DST)**. The team presented a solar-powered Induction model in the intensely competitive contest consisting of more than **26,000** students from all across India and won a stupendous amount of **₹ 1 lakh**.

NIT Conclave

A five-member team represented NIT Raipur at NIT Conclave during 23rd – 25th Aug., 2019. **Mr. M. Rawani**, 3rd Sem, Department of Computer Science and Engineering presented the Institute's Presentation which highlighted the Technological Development of NIT Raipur with enhancements of research and Entrepreneurship Opportunities to a distinguished panel of delegates. **A. Ganguli** and **P. Yadav**; from 3rd Sem, Department of Information Technology and Electronics and Communication Engineering respectively, pitched their startup Prototype **Padhadebro** in front of an esteemed panel of Investors. **K. Pisda**, 7th Sem, Department of Computer Science and Engineering, and **A. Sarkar**, 3rd Sem, Department of Information Technology were awarded the **3rd position** at the 24-hour hackathon by providing a solution to a technical problem.

- **Ms. P. Sahare**, PhD scholar, Department of Physics has been awarded **Women Scientist-A(WOS-A)** for Research work by Department of Science and Technology (DST), Govt. of India. She will get the fellowship for 3 years.
- **V. Khobragade**, 7th Sem, Department of Computer Science and Engineering, NIT Raipur with his team of 4 members have developed an easy method to detect malaria through a blood sample. Using this method, malaria may be detected in a matter of a few minutes. The startup ranked among the **top 10** at Innovation Growth Program Season-2 held at IIT Bombay which witnessed participation from over 816 people.

All India NIT Conference

- **K. N. Sahu**, **V. R. Swarnkar** and **S. Panigrahi** secured **1st position** in the paper presentation competition on *Permaculture village – Self-Sustainable Village Model* at the 2nd edition of **All India NIT Student's Conference** held at NIT Surat during 14th – 15th Sep., 2019. The team was awarded was a stupendous amount of **₹10,000**.
- **G. Kumar** and **G. Sadagopan** secured **3rd position** in the paper presentation competition on 3D fall accelerometer at the 2nd edition of **All India NIT Student's Conference** held at NIT Surat during 14th – 15th Sep., 2019. The team was awarded a stupendous amount of **₹5000**.

Club/Committee Activities

E-Summit' 19

E-Summit 2019 was conducted by **Entrepreneurship Cell**, NIT Raipur from 31st Aug., to 1st Sep., 2019 at DDU Auditorium, Raipur. The summit was inaugurated by **Dr. A.M. Rawani**, Director, NIT Raipur in the presence of **Mr. Rajeev S.**, Director In-Charge, MSME Development Institute, Raipur; **Mr. S. Chadda**, Product Manager , Microsoft; **Mr. A. Dubey**, CEO, Muskaan Dreams; **Dr. P. Diwan**, Dean Student Welfare, and **Dr. R. N. Patel**, Professor In-Charge, E-Cell NIT Raipur. The dignitaries shared their words of wisdom and discussed the need for practical applications of engineering to develop Entrepreneurship. First day of E-Summit included the presentation of **Ms. S. Kothari**, **Mr. A. Dubey** and **Mr. S. Chadda**. The First-day event was summed up by a mesmerizing performance by Raaga- the music club of NIT Raipur. Second day of E-Summit included the speech of **Sandeep Jain**, Founder, Geeks for Geeks, who briefed about his struggle life

because of being a B.Tech degree holder from a tier 3 college. **Raj Shamani, (designation)** highlighted the importance of mental strength of students to incubate themselves. **18 startups**, such as Padha de Bro, Frucare, Shirt Shop pitched their idea in

front of a panel of renowned investors. The event concluded with **Mr. R. Subramaniam's** short and witty speaking session

Aavartan

TechnoCracy, the **Technical Committee** of NIT Raipur organized its **Annual Technical Fest -Aavartan** from 21st to 22nd Sep., 2019. The fest was inaugurated by **Dr. A. M. Rawani**, Director, NIT Raipur, and **Dr. P. Diwan**, Dean-Student Welfare, **Mr. R. Prasnnah** and **Mr. P. Hungund**, General Manager, Global Head Technovation Centre. **Dr. A. M. Rawani** delineated the importance of innovation to students as well as faculty members and assured them that he would always support

students to work on their innovative ideas. The most import aspect of the event was **Vigyaan**, the national level science exhibition, which was based on finding solutions to the contemporary problem of society. Many other events were conducted throughout the day like Cadalyst, Mind Flayer, Techonomic Quotient, Rush Hour, Pipomania, Sherlock, LAN Gaming, Aqua Bot, Terrain Treader, Gravity Control, Popsic Tower and many more. The first day ended with a Laser Show. The second day concluded with a valedictory ceremony wherein dignitaries shared their words of wisdom and the winners of VIGYAAN were felicitated. It also contained transfixing performances by Nrityam- the Dance Club of NIT Raipur. The second day ended with an EDM night by O2 and DJ SRK as its major attraction.

Go Green
Green Ganesha

Green Ganesha was organized on 4th Sep., 2019 wherein the participants were required to make a Lord Ganesha Idol from clay and natural colors. Students from various colleges and schools of the region participated. It witnessed **40 teams** comprising of 2 members per team, out of which 6 teams (3 from each pool) were awarded by **Dr. D. C. Jhariya** Professor In-Charge, Go Green.

Swachhta Pakhwada

The **Go Green** of NIT Raipur conducted a field survey in the Institute to locate strategic locations for plantation and create awareness about various water harvesting systems installed in the Institute. **Dr. D. C. Jhariya** talked about the significance of availability of fresh water in the urban regions and put emphasis on grass-root innovations for the development of a sustainable urban lifestyle

Water Conservation Week

A plantation drive was organised by **Go Green**, NIT Raipur under the guardianship of **Dr. P. Diwan**, Dean Student welfare;

Dr. P.Y. Dhekne, Registrar, NIT Raipur; **Dr. D. C. Jhariya**, Professor In-Charge Go Green, NIT Raipur; **Dr. S. Bajpayee** and **Dr. S. Sanyal**. The team planted trees in the vicinity of the Campus. Water Conservation Week was witnessed by the students through making posters, speech, debate competitions and an Open mic session.

Green Library

Green library, an event, was organized by **Go Green**, NIT Raipur from 20th - 22nd Aug., 2019 in the presence of **Dr. D. C. Jhariya**, Prof. In-Charge. On this occasion, the members of Go-Green club distributed old books, notes and other study materials to the students. The event marked the presence of around **150 students** from all years who were issued the books and notes of their respective subjects and syllabus.

Innovation Cell

Interactive Session

Mr. S. Gaur (CEO of Mixorg & Innovatiocuris) one of top ten investors of India came to **Makerspace** NIT Raipur on 7th Sep., 2019. He interacted with the students about real-life problem identification and their solutions through engineering innovations

Exhibitions

Innovation Cell, NIT Raipur organized an exhibition on 11th Aug., 2019 for revealing the recent ongoing projects to the Faculty Members of NIT Raipur. Further, the Innovation Cell organized an exhibition on 13th Aug., 2019 for illuminating the ongoing projects to the **National Board of Accreditation** and **Dean Academics** highlighting the development of innovative ideas in the Institute.

UBA Activities

Jal Shakti Abhiyaan Pledge Ceremony

A pledge ceremony for **Jal Shakti Abhiyan (JSA)** under **UBA2.0** was conducted on 1st Aug., 2019 in E-Hall. All faculty members, staff and students of NIT Raipur participated to pledge for the conservation of water under the supervision of **Dr. P. Diwan**, Dean Student Welfare, NIT Raipur and coordinated by **Dr. S. Pandey**, Regional Coordinator, RCI-NITRR. NIT deputed **Dr. M. Kant Verma**, JSA Nodal Officer.

A Visit to Village Gomchi and Kara

Thirty-four students from **Team Unnat Bharat Abhiyan (UBA) - RCI** visited **Gomchi and Kara village** in Dharsiwa Tehsil in Raipur, Chhattisgarh under the supervision of **Dr. M. Kant Verma**, Nodal officer JSA and **Dr. V. Anand** on 4th Aug., 2019. The aim of the mission was to spread awareness about the conservation of water and promote cleanliness around water reserves under the Jal Shakti Abhiyan, launched by the Government of India.

A Visit to Village Bana

Fifty-nine students from **Team Unnat Bharat Abhiyan (UBA) - RCI** visited Bana village in Dharsiwa Tehsil in Raipur, on 31st Aug., 2019.The trip was coordinated by **Dr. S. Penta**. The aim of the visit was to interact with the villagers regarding their lifestyle, problems and challenges. As a part of the event, text books were distributed to the Primary School students of the village.

NCC

CATC or **Combined Annual Training Camp** was organized by 01 CG NAVAL UNIT at the community hall, new Changora Bhata, Raipur from 18th Aug to 27th Aug 2019. This camp consisted of a total number of 561 cadets. **Commander S. K. Khintia** was camp commandant. Best cadet award was given to **Senior Cadet Captain K. V. Singh**, NIT Raipur.

Hindi Pakhwara

Rajbhasha Samiti - the **Hindi Committee** of NIT Raipur organized Hindi Pakhwara from 13th to 24th Sep., 2019. The role of Hindi language was demonstrated through street plays with a message to preserve Hindi language. Shaurya - the Sports Committee also organized various types of sports including musical chair, stack attack and yank me. Along with this, a

Debate competition was also organized by Sanskriti-the Cultural Committee of NIT Raipur.

Unkahi

Unkahi – the **Open Mic** Session 10.0 Abhinay, the dramatics club of NIT Raipur organized an open mic session on 7th Aug., 2019. This took place in Amul parlor, NIT Raipur. This session had different programs like poetry, storytelling and stand-up comedy. 50 students participated in the session. The participants showed their talent in each category.

Library Activities

- **Radiofrequency Identification Technology (RFID)** system has been installed in the Reading Room of Central Library using LSmart software of Libsys Ltd. It will ensure automatic issue/return of books, automatic stock verification, theft detection and better control over Library collection.
- **Architecture Library** having more than **6000 print books** on Architecture and Civil Engineering, and allied subjects with 25 Periodicals has been fully automated through free software E-granthalaya, developed by NIC, providing the state-of-the-art services like the circulation of books, acquisition, serial control etc. Membership card is fully barcoded and regular overdue reminder emails along with various alerts like new arrivals etc are being sent automatically.

- Central Library, NIT Raipur organized a user's Awareness Program on EBSCO Discovery Service and EBSCO E-Books on 29th Aug., 2019. **Mr. R. Mahapatra**, Training Manager of EBSCO was the Resource person of the program. About **70 faculty** members, research scholars, and staff attended the program.
- **URKUND** Plagiarism Detection software (by M/s Prio Infocenter AB- Sweden, eGalactic) has been successfully activated by the Central Library, NIT Raipur. The Software has been selected by **INFLIBNET** (Internet University Centre of UGC) under the aegis of MHRD to enhance quality and prevent plagiarism in research/academic publications.

Alumni News

Alumni Achievement

Mr. V. Prasad [2016, Biomedical Engineer (Silver Medalist)] has secured AIR 1 in **JIPMER Puducherry** (Govt of India) and **All India Institute of Medical Sciences** (AIIMS), Bhopal for the recruitment of Biomedical Engineer post in the year 2018 and 2019 respectively.

Forth Coming Events

10th Convocation 2019

The **10th Convocation** of the Institute will be held on **1st Dec., 2019**. **Mr. Abidali Neemuchwala**, CEO and Managing Director, Wipro has kindly consented to be the chief guest and will deliver the Convocation address.

Foundation day Celebration

The **Foundation day** of the Institute will be celebrated on the evening of **1st Dec., 2019**.
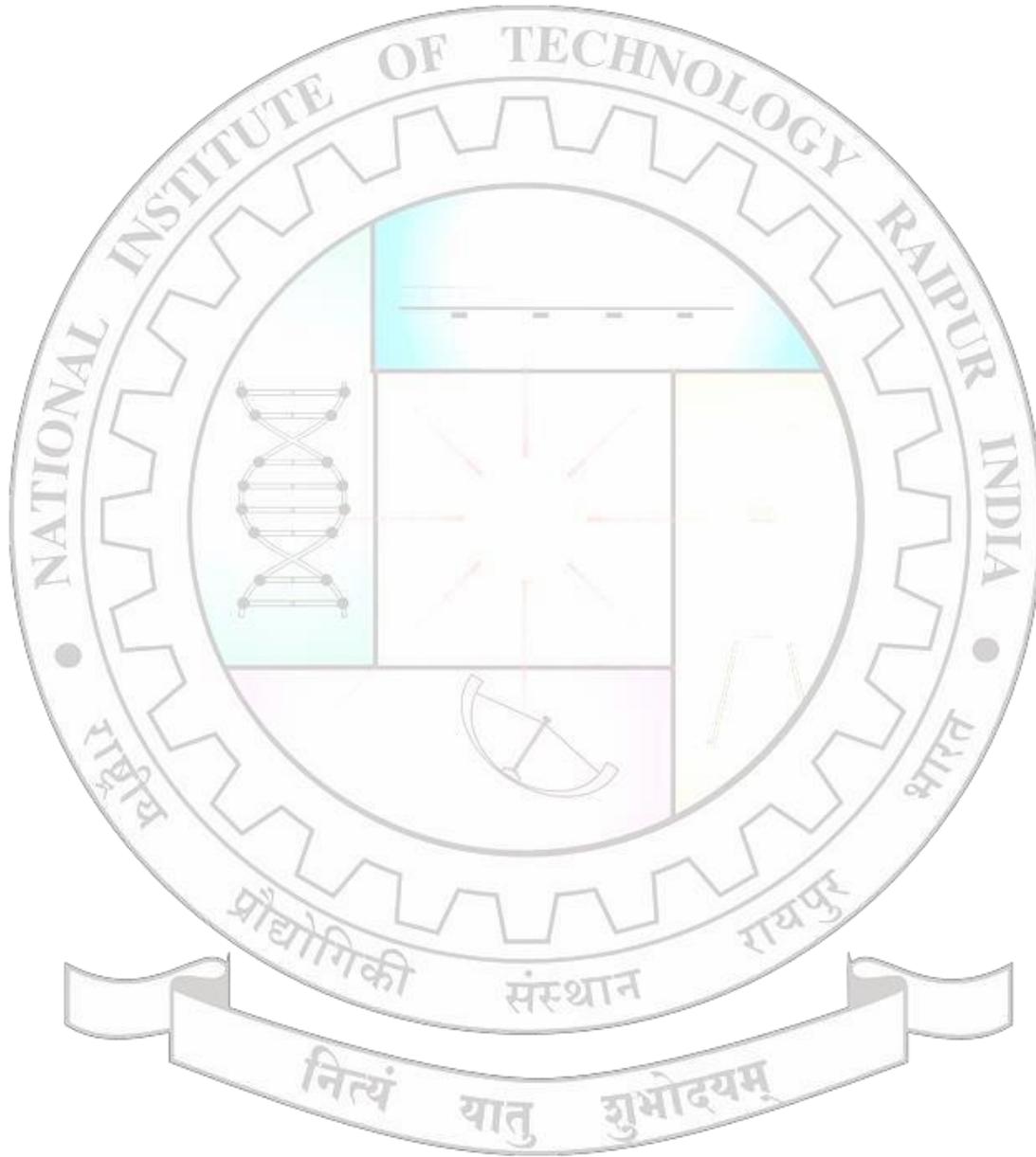
Industry Institute Conclave 2019

National Industry Collaboration Cell, NIT Raipur will organize a **two day Industry Institute Collaboration Meet (Conclave - 2019)** on 8th - 9th Nov., 2019 at NIT Raipur. The conclave would serve as a platform to facilitate close interaction with various Engineering Disciplines and Industries to incorporate new technologies, upgrading and modernization of lab facilities.

Editorial Team

Front Row (L to R): Rahul Singh, Dr. S. Tarai, Dr. L. K. Sahu, Dr. S. Sthapak, Ar. M. Tenguriya, Mr. Prashray Sharma
Back Row (L to R): Avinash Kumar Sahu , Priyanshi Sharma, Kartikeya Sharma

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