

Institute News

Career Development Cell

Career is not merely confined to the placement of the students through campus selection, but in present scenario, it is expanded to all-round, holistic and sustainable professional growth. Therefore, developing soft skills, nurturing innovation, supporting entrepreneurial approach and inculcating managerial skills are indispensable for fulfilling long-term professional career of the students.

Aiming to foster the career of students, **Dr. A. M. Rawani**, Director, NIT Raipur has constituted the *Career Development Center (CDC)* of the Institute on 26th June 2018. The CDC intends to support the students to aspire *beyond the campus selections* promoting *innovation, entrepreneurship and skill developments*.

The entrepreneurship cell (coordinated by **Dr. Ramnarayan Patel**) and innovation cell (coordinated by **Dr. Saurabh Gupta**) of the CDC will assess the students' requirements and execute plans to achieve the mission. Since vocational training plays a vital role in the placement of the students, **Dr. Arindam Bit** will plan and coordinate various activities in this direction. The students need special training for the written test, group discussion, technical and HR interviews, thus these aspects of internal training shall be coordinated by **Dr. A. Seenivasan**. The corporate communication cell will be coordinated by **Dr. Moksha Singh**, to establish industry-institute interface of mutual interests. The CDC of the Institute will be led by **Dr. Samir Bajpai**.

Recruitment of Faculty Members

Interviews for faculty positions (twenty nine Assistant Professors and fifty five Associate Professors) in various departments were conducted from 23rd April to 20th May 2018. **Twenty four internal** and

six external candidates have been offered the position of **Associate Professor**. **Eighty five internal** faculty members were offered upgradation to higher academic grade pay. **Eighteen appointment**

letters for the post of **Assistant Professor** have also been offered to fresh candidates. The team *Mirror* welcomes all the newly joined faculty members and congratulates other upgraded existing faculty members.

The following faculty members have joined the Institute till the last updated data.

S.No	Name	Designation	Department	Date of Joining
1.	Dr. Vandana Agrawal	Asst. Professor	Architecture	13 th June 2018
2.	Mr. Mayank Tenguriya	Asst. Professor	Architecture	13 th June 2018
3.	Ms. Shailoneil Sahu	Asst. Professor	Architecture	13 th June 2018
4.	Mr. Sachin K. Sahu	Asst. Professor	Architecture	14 th June 2018
5.	Dr. Nishant K. Singh	Asst. Professor	Biomedical Engg.	21 th June 2018
6.	Dr. Preeti Chandrakar	Asst. Professor	Computer Science and Engg.	21 th June 2018
7.	Dr. Ramnarayan Patel	Asso. Professor	Electrical Engg	25 th June 2018
8.	Dr. Guruprasad S. Mishra	Asso. Professor	Elect. and Telecom. Engg.	21 th June 2018
9.	Dr. Anup Kumar Sharma	Asst. Professor	Mathematics	20 th June 2018
10.	Dr. Neha Gupta	Asst. Professor	Metallurgical Engg.	12 th June 2018
11.	Dr. Ashish K. Dash	Asst. Professor	Mining Engg.	25 th June 2018

The mapping of the existing **fourteen Associate Professors** and **seventeen Professors** from the three to four tier flexible structure has been

Entrepreneurship courses introduced

The Institute, in line with the directives of the Ministry of Human Resource Development (MHRD), has taken requisite steps to promote entrepreneurship culture. Under TEQIP – III program, dedicated fund has been allocated for the promotion of entrepreneurship culture and startup activities. Two elective courses have also been introduced i.e. (a) **Basic entrepreneurship course** (for 5th and 7th semester students) and (b) **Advanced entrepreneurship course** (for 6th and

completed. **Eighteen non-teaching staff members** have also been promoted to higher grade.

8th semester students) for B.Tech. stream. These courses of entrepreneurship are proposed to be offered as an open elective with 04 credits each, along with the existing elective courses. A Letter of Intent has been issued to **Wadhvani Operating Foundation** to train the faculty members of the Institute to deliver the proposed electives. **Dr. Saurabh Gupta** and **Dr. Subhas Ganguly** have recently attended a training program offered by the foundation.

In Focus

HEFA Proposal

The Institute has submitted a project proposal (consisting of three ongoing and two new projects for funding) to Higher Education Financing Agency (HEFA), set up by MHRD, Govt. of India. The ongoing projects, included in this proposal are: *construction of residential flats for Group B and C employees, construction of water supply and sewer drainage system along with sewage treatment plant and upgradation of external distribution system*, for partial financial support of Rs. **13.92 Crores**. The new projects include construction of *Academic annex building* worth Rs. **48.19 Crores** and *Data Center Development Project* worth Rs. **4.68 Crores**.

Tender Wizard

Tender wizard, an e-tender portal is a major initiative under **E-Abhiyan** of the Institute. The procurement through this portal will expedite and streamline various activities including earnest money deposit return, vendor registration, tracking of files, large volume of tender bids etc. enabling quick disposal. It reduces the cost of procurement, paper work and manual intervention. Obtaining the digital signature of the concerned officials for secured access of the portal is under process and is expected to be completed in forty five days.

Social Media Cell

Following the guidelines of MHRD, the *Social Media Cell* of the Institute has been constituted, consisting of a decision maker and a technical expert. In this regard, **Dr. N. K. Nagwani** and **Mr. Ravindra Chauhan** have attended a workshop organized by MHRD on 10th April 2018. Official accounts for various social media channels like Facebook, Twitter handle, Youtube etc. have been created to publicize the Institute events.

Construction of Residential Flats



The construction of **two G+6 storey block** (24 number of residential flats in each block) for *Group-B and Group-C* employees at existing campus of NIT Raipur is under progress and is expected to be completed by Dec., 2018.

MoUs with Industries/Research Labs/Institutions

• An MOU has been signed between NIT Raipur and **National Mineral Development Corporation**, Bachel, Chhattisgarh on 24th April 2018 for research and development project on *Feasibility studies on removal of contaminants from surface and ground water of Bailadila Iron Ore Mine Project and Peripherals* (Investigators: **Dr. P. Y. Dhekne**, **Dr. S. P. Mahapatra** and **Dr. S. Penta**, fund amount was Rs **66.00 lacs**).



• An MOU has been signed between NIT Raipur and Directorate of Commerce and Industries, Govt. of Chhattisgarh on 25th April 2018, with an

objective to create conducive environment for fostering startup activities in the Institute and to boost entrepreneurial skill of the students.

Outreach Activities

Summer Internship Program

A two week summer internship training program for the students of VEC Lakhanpur was held at NIT Raipur, as a part of the twinning agreement. **Thirty two students** have successfully completed their training program in different departments: *thirteen* students from Civil Engineering, *six* students from Electrical Engineering and *thirteen* students from Mechanical Engineering, during 23rd May to 5th June 2018. NIT Raipur is the mentor institute for the VEC Lakhanpur under TEQIP III.



Dishaen Program

The Institute has facilitated the exposure visit of senior secondary government school students of Raipur district under the program *Dishaen*. This program was initiated by the District Collector, to help the students

to choose their career. *Six thousand students* from *fifty two* schools have been benefited by this program. The event was co-ordinated by **Dr. M. K. Tripathi** and **Dr. Amit Keshav**.

Laboratory Development

Crystal Engineering Laboratory

Under project funded by Science and Engineering Research Board, **Dr. K. A. Siddiqui** – PI of Project, Department of Chemistry has established the laboratory for *design and hydrothermal synthesis of Single Crystal of Porous Hydrogen Bonded Metal Complexes,*

Coordination Polymers and MOF materials for diverse applications like Magnetic, Photoluminescence, Sensor, Sorption etc. Hydrothermal synthesis is a special type of synthesis of material at high temperature, in programmable Hydrothermal Oven.

Workshop/Conference/STTPs

Medical Signal and Image Processing-III was jointly organized by Department of Electrical Engineering and Department of Computer Applications from 25th – 30th June 2018. The STTP was coordinated by **Dr. N. D. Londhe** and **Dr. M. K. Ahirwal**.

Twenty eight participants were registered from various states including *Uttarakhand, Madhya Pradesh, Tamilnadu, Chhattisgarh* and an international participant from *Birla Institute of Technology, UAE*. During these six days, lectures and practical demonstrations related to recent methods for *medical signal and Image processing* were delivered by **Prof. N. K. Bodhey** (Head Department of Radio-diagnosis, AIIMS Raipur, CG) and **Dr. Anil Kumar** (Assistant Prof., PDPM IITDM Jabalpur, MP). Faculty members of NIT Raipur, **Dr. (Mrs). Kesari Verma**, **Dr. Narendra D. Londhe**, **Dr. Bikesh Kumar Singh**, **Dr. Satya Prakesh Sahu** and **Dr. Mitul Kumar Ahirwal** also delivered



expert lectures on their research fields including *machine-learning* and *deep-learning*. A practical demonstration of *bio-potentials* (ECG, EEG and other) recordings was conducted with the help of Industry Experts. Topics like *Machine learning* and *deep learning* were also explored.

Faculty Development Programs

Two online faculty development courses on *Foundation Program in ICT for Education* (8th Mar. - 12th Apr., 2018) and *Pedagogy for Online and Blended Teaching-Learning Process* (3rd May – 30th May 2018) from and

were organized (at NIT Raipur) and conducted by *IIT Bombay*. **Dr. Kesari Verma** coordinated the course and **Dr. S. M. Saini** was the center coordinator.

Expert Lectures

Dr. Dharm Pal, Assistant Professor, Department of Chemical Engineering delivered a lecture (as a resource person) on *Basics of Writing a Research Paper*

during a workshop on *Academic Writing Skills* held at **CSVTU, Bhilai** on 26th June 2018.

Research Frontiers

Research Advisory Committee

To promote the research activities in the Institute, a *Research Advisory committee* of the Institute has been constituted, with representations from Industries, research and development organizations and renowned academic institutions.

Recently funded projects

A Supramolecular Synthron Approach for Magneto-Structural Analysis of Hydrogen Bonded Metal-Organic Coordination Network: PI- **Dr. K. A. Siddiqui**,

Ongoing Funded Projects

There are **61** sponsored research projects currently running in the Institute worth Rs. **112.04 Crores**. These research projects are sponsored by *SERB, CGCOST, BRNS, MNRE, UNICEF, PHED* and *BARC*. Twenty two seed grant projects are also running in the Institute worth Rs. **77.71 Lacs**.

Department of Chemistry, Rs. **16.38 Lacs**, Funded by: CSIR

PhD Thesis Defended

•**Mr. Mrityunjoy Dutta** defended his PhD thesis *A study of shock waves in gravitating and non-gravitating medium* on 2nd Apr., 2018 under the supervision of **Dr. R. P. Pathak**.

•**Mr. Sangram Panigrahi** defended his PhD thesis *Mining Spatio-Temporal patterns in earth science data* on 11th May 2018 under the supervision of **Dr. Kesari Verma**.

•**Ms. Rashi Gupta** defended her PhD thesis *Mathematical Modelling of complex ecological systems: models and methods* on 28th May 2018 under the supervision of **Dr. N. K. Thakur**.

•**Mr. Kush Kumar Nayak** defended his PhD thesis *Development and in-vitro study of keratin based biomaterial for skin generation and wound healing properties* on 19th Apr., 2018 under the supervision of **Dr. Pratima Gupta**.

•**Mr. T. V. Dixit** defended his PhD thesis *Real time investigation on performance enhancement of power conditioning units for photovoltaic and fuel cell* on 11th May 2018 under the supervision of **Dr. Shubhrata Gupta** and **Dr. Anamika Yadav**.

•**Mrs. Manpreet Kaur Gurdatta** defended her PhD thesis *Slow viscous flow of immiscible fluids past and within droplets* on 1st June 2018 under the supervision of **Dr. M. Krishna Prasad**.

•**Mrs. Neelamshobha Nirala** defended her PhD thesis *Assessment of diabetes using toe photoplethysmogram* on 21st Apr., 2018 under the supervision of **Dr. Awanish Kumar** and **Dr. R. Periyasamy**.

•**Mr. Manoj Kumar Tiwari** defended his PhD thesis *Study on mobility of heavy metals from fly ash and steel slag leachate to surface water and soil for an industrial region of Chhattisgarh* on 26th May 2018 under the supervision of **Dr. Samir Bajpai** and **Dr. U. K. Dewangan**.

•**Ms. Rika Sharma** defended her PhD thesis *A Unified Approach Using Soft Computing and Data Mining Techniques to Extract Knowledge from Global Climate Indices* on 30th June 2018 under the supervision of **Dr. Kesari Verma**.

Consultancy Projects

• Study of *Blasting and ground vibration*, M/s Century Cement, Project Amount: Rs. **4.5 Lacs**, **Dr. P. Y. Dhekne**.

• *Field trails with bulk explosives manufactured by Special Blasts Limited at Bela Cement Works*, Project Amount: Rs. **2.95 Lacs**, **Dr. Pankaj Dewangan** and **Dr. Manoj Pradhan**.

Students' Achievements

Ms. Anushri Dubey (MCA), **Ms. Indrisha Basu** (IT) and **Ms. Tanisha Rusia** (IT) were awarded **Theme Championship (IoT)**, at *Technoustav* organised by **Deloitte** (US member organization of Deloitte Touche Tohmatsu Limited) with price amount 75,000 INR organised at Hyderabad on 13th Apr., 2018. They will be considered for **pre-placement offer** as well.



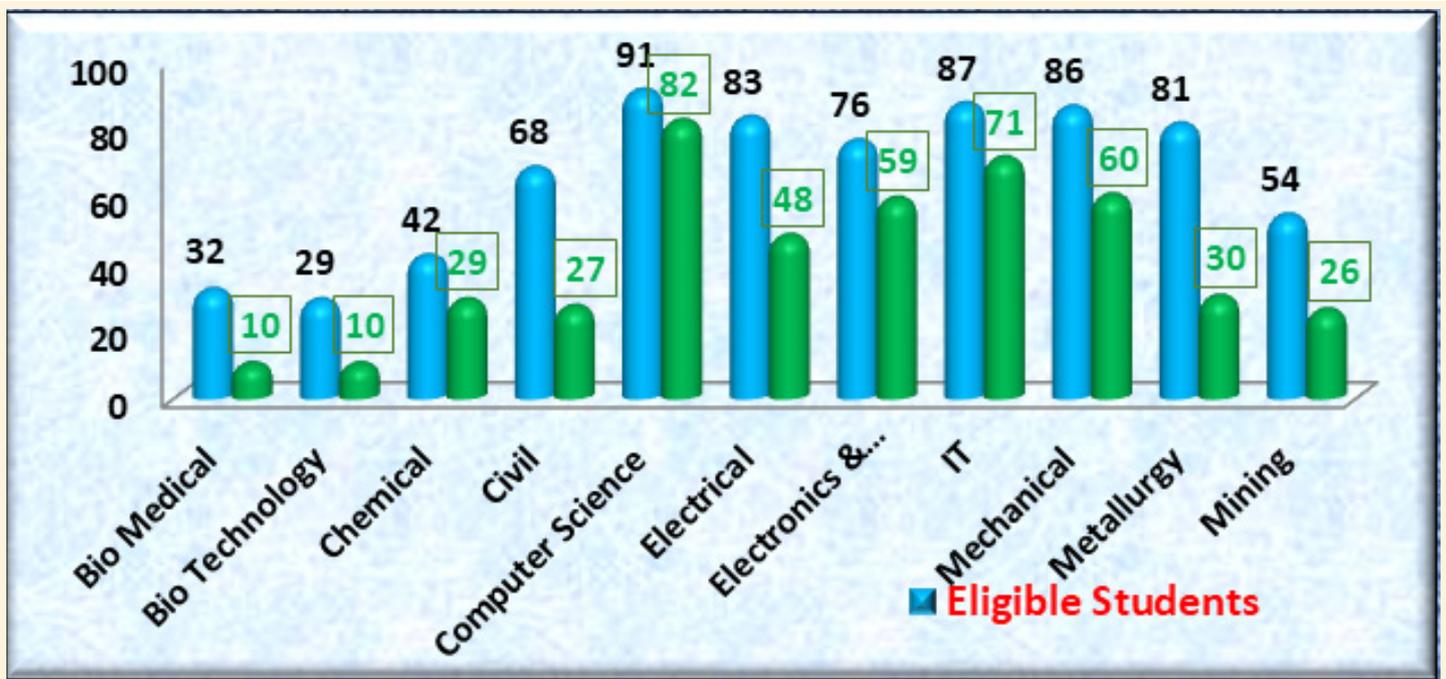


Mr. Shubham Shrivastava of Department of Mining Engineering, Batch-2018 has been selected for *PMRF* to pursue PhD program at *IIT Kharagpur*.

Mr. Yogesh Pratap Singh of Department of Mechanical Engineering, Batch-2018 has also been selected for the fellowship to pursue PhD Program at *IISc Bangalore*.

Mr. Faisal Khan of Department of Mechanical Engineering, Batch-2018 has also been offered this fellowship.

Placement Statistics

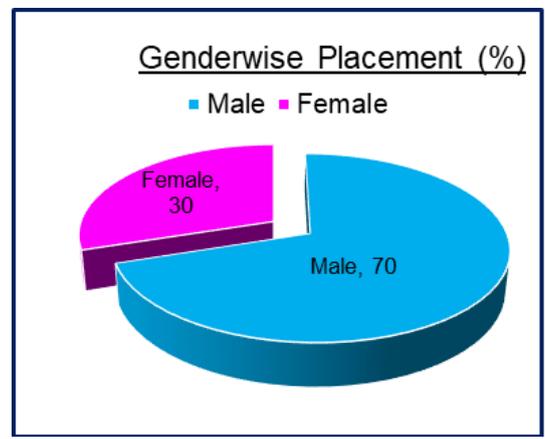
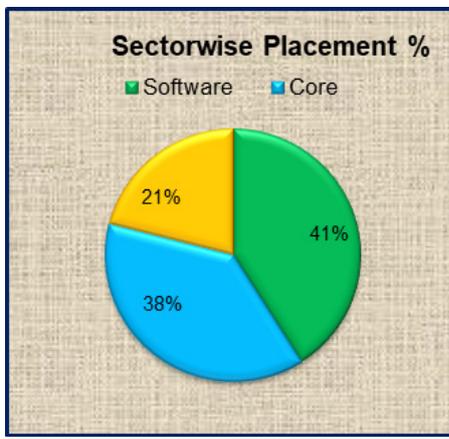


This issue of the *Mirror* reports the placement statistics of the Institute, for the academic year 2017-2018. A total of **509** placement offers has been received by the eligible and interested students of 2017-18 batch as on 30th June 2018. The total number of placement offers is likely to increase, since the result of several companies is still awaited. As on date, the placement offers are: **B. Tech. – 452, B. Arch. - 04, M. Tech. - 11 and MCA - 42**. The detail of placement offers has been shown (green bar chart) by the eligible and willing B.Tech. students (blue bar chart). The eligibility criteria have been considered as throughout 60% *i.e.* 60% in 10th and 12th and current CPI of 6 and above, with no standing backlog.

Students of 2017-18 batch have received placement opportunities from all the sectors *i.e.* core engineering

(including PSUs), software (IT industry) and business (analytics and consulting). The highest placement opportunities were received from the software sector (41%), followed by the *core* (38%) and the *business sector* (21%). In the previous placement session, the contribution of business sector was about 8% which has increased to 21% in the ongoing session. This trend indicates a strong demand for students with analytics profile. The gender-wise placement of 2017-18 batch is depicted in the pie-chart.

Some of our prime recruiters are Oracle, CA Technologies, Samsung, Adobe, Amazon, JP Morgan Chase, UnitedHealth Group (Optum), Deloitte, Wipro, Infosys, Cognizant, Capgemini, Tata, Reliance, L&T, Vedanta, HMEL, BOREL, Coal India, BPCL, TVS Motors, FIAT etc.



Startup cell activities

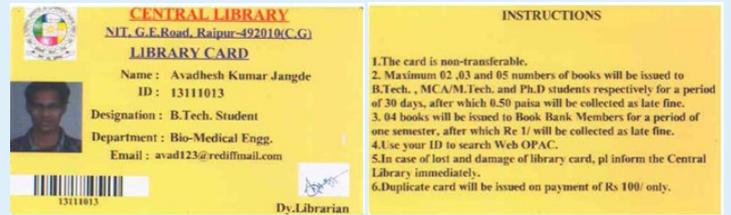


The Startup Cell facilitated the visit of students to 36 Inc. (the Technology Incubator, supported by Govt. of Chhattisgarh) on 15th May 2018, to have interaction with incubates.

Startup Cell will organise Pitch Deck for 15 best Ideas from the undergraduate students of the Institute on 21st July 2018. Ten ideas will be shortlisted for seed rant of Rs. 25000 each, to help the students to come up with working prototype or minimum viable product. Interested students may send the details through <https://goo.gl/forms/bOFxSULpKQGmlfQR2>

Library Developments

The Central Library of the Institute has been upgraded into a **fully automated library**. The issue and return of books will be done through **barcoded library cards**, which will be issued to students form the coming academic session.



The library collections of e-books, e-journals and databases may be accessed through the web OPAC; <http://libraryopac.nitr.ac.in:8380/opac/> The user account details (numbers of books issued, due date of issued books, late fine and other details) may also be accessed through login into the system. The user ID has been given on the barcoded library card. A user training program on *Anti plagiarism software- Turnitin Feedback Studio* was also conducted on 12th April 2018.

Alumni News

Know your Alumni



Mr. K. R. C. Murthy, Batch-1979, Mechanical Engineering has been appointed as the **Managing Director**, Chhattisgarh Power Generation Limited, Raipur.



Mr. R. Madhavan, Batch-1982, Mechanical Engineering has been appointed as the **Chairman and Managing Director**, Hindustan Aeronautics Limited.

Alumni activities



Mr. P. K. Satpathy, Batch-1983, Mining Engineering, **Director (Production)**, NMD, Hyderabad visited to his *alma mater* on 25th April 2018. He discussed the progress of the *Golden Tower* with Deans and Registrar of the Institute.



Alumni Meet of **Middle East Chapter** organized on 27th April 2018 at **Dubai**. More than *fifty alumni* have participated in this event. **Dr. S. L. Sinha**, Professor, Mechanical Engineering was felicitated on the occasion.



Alumni Meet of **Kashmir Chapter** was organized on 27th May 2018. The meeting was attended by the members of the executive committee.

Activities at NIT Raipur

Quiz competition on Gujarat

Under the *Ek Bharat Shrestha Bharat* flagship program of the Govt. of India, a quiz competition on the history, culture, geography and economy of the Gujarat state

was organized on 10th April 2018. This strengthened the fabric of existing cross cultural bonds, promoting the spirit of national integration among the students from diverse cultural backgrounds.

Yoga Activities

A camp was organized from 21st May to 21st June 2018, to sensitize the need and importance of yoga and meditation for physical, mental, emotional and spiritual balance. The faculty, staff, students and their family members have attended and were benefitted from the camp. This camp was conducted under the able supervision of **Dr. Manju Shukla**, **Mr. Suraj Nishad**, **Mrs. Manju Jha** and **Mr. Lomash Chandrakar**. Team members from Heartfulness meditation center were also invited to conduct a three day session. The camp was successfully concluded on the *International Yoga Day* on 21st June 2018.

On the eve of *International Yoga Day*, various types of *Shudhhi kriyas* were demonstrated by the students: **Mr. Ashutosh**, *Shitkram*; **Ms. Neha Patel**, *Sutra Neti*; **Mr. Kaushal Kishore**, *Gajkarni* and **Mr. Chunendra**, *Vastra Dhauti*.

These performances have inspired and mesmerized the audience present at E-Hall of the Institute. A presentation on *Pranayam and its benefits* was illustrated by **Dr. Manju Shukla**. Various Asanas, in dance form along with music were demonstrated by **Mr. Siddharth**, who has performed in various International Yoga competitions. One of the PhD scholars, **Ms. Chandrama Swain** shared her experience related to recovery from grave ailment by daily yogic practice, under guidance of the yoga faculty members.

Director **Dr. A. M. Rawani** appreciated the efforts of the yoga-team of the Institute, considering their activities and achievements at the national level. He established a strong link between the yogic practice and modern day computer-technology, emphasizing the importance of *logging out* our mind once in a day through yoga, to re-energies it **for better working efficiency and developing patience**. **Dr. Samir Bajpai** concluded the event with positive remarks, highlighting the efforts by the yoga-team.



