



Alma Communiqué

Alumni Newsletter (Jun. 2021)



*Glory of the past,
through the eyes of the future!*

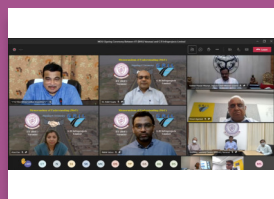
Institute Updates

1. IIT (BHU), Varanasi, and GR Infraprojects Limited (GRIL) have signed an MoU to set up a road research laboratory in the Institute for a period of five years. Under the MoU, the academicians of the Institute and other experts of the country will undertake studies related to road safety and environmental and social impacts under the Highway Safety Development Project. This project will support research on the construction of sustainable and eco-friendly roads in the country. Other major goals include research on recycling of bituminous mix, mechanistic pavement designs for Indian roads, and making pavements from solid waste materials.

2. IIT (BHU), Varanasi signed an MoU with Media.net Software Services (India) Pvt. Ltd. on 30th March, 2021 to establish 'Media.net Emerging Scholars Program', an endowment merit-cum-means scholarship for B.Tech. students at IIT (BHU) in pursuance of the Grantor's Corporate Social Responsibility initiatives. The Scholarship may be utilized by the selected students to cover part of their tuition fee and purchase of books, stationery, laptop and other educational material. The interest earned on the one-time grant received shall be utilized to fund the Scholarship.

3. The Department of Metallurgical Engineering has succeeded in making nickel-free surgical grade stainless steel. It is lighter in weight and double in strength. Due to its adaptability to the human body, it can be used to make heart-related devices like stents, pacemakers, and valves. A patent for the same was filed in April 2020. The Ministry of Steel provided a fund of Rs 2.84 crore for 3 years, and a 'Corrosion Fatigue Research Lab' was set up in the department.

4. The formation of the Alumni Association of IIT (BHU), Varanasi, which is a central body having its office in the Institute, was announced on 30th June, 2021. It will have representatives from all other alumni associations which will help in getting a wide perspective and efforts can be made jointly for betterment of our institute. A Central Alumni Body will also enable smooth, easy & day-to-day interaction between the alumni, students, various chapters & the Institute.



Covid Help

Contributions from the Alumni and PAN IIT for Oxygen Concentrators:

As a gesture of support, the Institute has received 12 Oxygen Concentrators (5 L/Min) from our alumni led by Sh. Sudhir Agarwal and his batch mates (CSE '01). The Institute has also received 4 Oxygen Concentrators (5L/Min) from PAN IIT, USA. These oxygen concentrators shall be utilized by the students, faculty and staff members of the Institute as and when required.

Research Projects

Research and Development have long been the center of attention at IIT (BHU), Varanasi. The Institute has aligned its R&D focus with the national goal of fostering a better research environment.

Research Projects		
Month	No. of projects	Total Grant Recieved in Rs.
March '21	5	44,86,480.00
April '21	5	1,16,14,264.00
May '21	2	32,48,600.00

12 research projects and 99 consultancy/testing projects have been undertaken by the Institute from March '21 to May '21.

Project Name	Period	Total Cost of Project in Rs.
Spatially resolved digital holography polarization microscope for diagnosis applications	3 Years	41,44,840.00
Life line security & system	3 Years	1,00,000.00
Automatic map generation from high resolution images applying deep learning techniques	3 Years	33,22,264.00
Developing improved algorithms for intelligent video surveillance	3 Years	29,08,345.00
Development of a standalone solar electric drive system for boats	1 Year	5,00,000.00

I-DAPT Hub

I-DAPT Hub Foundation functions under the National Mission on Interdisciplinary Cyber Physical System, Dept. of Science and Technology, Govt. of India. Five thrust areas - Telecommunications, Power, Defence Research and Development, Road Transport and Highways, and Health and Family Welfare- have been identified to meet the mandate of the foundation in terms of better societal outreach and Industry 4.0 functioning. The Hub has invited proposals, startups/incubation, and various Chanakya Fellowships as a part of its activities. The Hub also conducted 5 short term courses wherein 1542 people were trained on aspects of I-DAPT. A state-of-the-art Data Centre facility is under creation. Furthermore, the [website](#) is fully operational.

Precision Engineering Hub

Precision Engineering Hub was created for concept design and product ideation with funds from Defense Corridor, Design Innovation Centre and Technology Innovation Hub of the Institute. It would operate 24x7 and function in an interdisciplinary manner applicable to any field in the following four sectors: Maker space, Designer space, Toolroom space, and Product Design Development space.



Placement Statistics

Notwithstanding the pandemic, the Institute saw tremendous placement and internship opportunities this year, with offers in diverse job profiles. Reputed companies, including Amazon, Google, Goldman Sachs, and Deloitte, made a total of 864 placement offers to the students up till June 2021. Further adding to a stellar recruitment season, 622 internship offers were also seen. The placement statistics reflect the hard work and dedication of the students.

R-ABI



Pusa Krishi Incubator, ICAR-IARI conducted the Pusa Krishi Incubation Series 2021, in which 15 startups from R-ABI, IIT (BHU) participated. The series is an annual mentoring program for the startups, recommended by the CIC committee for grant-in-aid support under the RKVY-RAFTAAR scheme. JVKs AgroTech commenced a new production unit of Moringa-based

herbal products and created a web portal named Dr. Moringa for sales & promotion. Furthermore, V N Organics launched Lifeline Capsules, which are infused with *Cordyceps militaris* mushrooms to increase immunity.

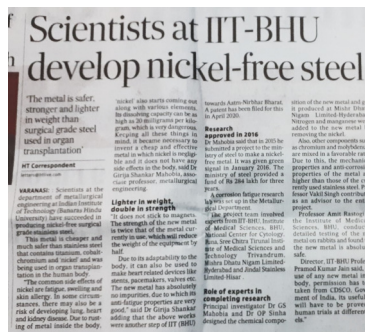
Team AVERERA

Team AVERERA, developers of India's most energy-efficient prototype car, is working towards self-driving and connected mobility. They currently rank 2nd out of 700 universities from 52 countries in the Shell Eco-marathon Virtual League 2021. The team recently designed the 'SHIVAAY' Urban Concept Electric Vehicle, which weighs only 75 kg and is estimated to have a 200 km/kWh efficiency. Moreover, they were awarded 3 Off-Track



Awards, viz. Vehicle Design, Simulate to Innovate, and Safety Award, in Asia-Pacific and the Middle East region of the Shell Eco-marathon '21. The team also secured the 1st rank in India and 9th rank globally at the Shell Autonomous Driving Competition '21.

Media Section



Development of nickel-free steel



सड़क-पुल बनाने में स्टील, सीमेंट के कम उपयोग को हो शोध

राज्य लक्ष्य तब तक: सड़क परिवहन और राजमार्ग मंत्री नितिन गडकरी ने सड़कों और पुलों के निर्माण में स्टील और सीमेंट का उपयोग कम करने के लिए शोध करने की जरूरत बताई है। सड़कों की गुणवत्ता सुधारने और उनमें सालिड वेस्ट मैटेरियल के इस्तेमाल पर जोर देते हुए उन्होंने परिवहन संरक्षण को भी बढ़ावा देने को अपील की।

गडकरी शुक्रवार को वाराणसी स्थित आईआईटी बीएचयू और जीआर ईंफ्राप्रोजेक्ट्स लिमिटेड (ग्रिल) के बीच सड़कों की गुणवत्ता में सुधार के लिए सड़क अनुसंधान प्रयोगशाला को स्थापना के लिए हुए समझौता ज्ञापन (एमओयू) हस्ताक्षर कार्यक्रम को वर्युद्ध माध्यम से संबोधित कर रहे थे। उन्होंने कहा कि उत्तर प्रदेश उत्तर प्रदेश ने सड़क निर्माण के क्षेत्र में नई तकनीक का इस्तेमाल करके अन्य प्रदेशों के लिए अच्छा उदाहरण प्रस्तुत किया है।



कोले गडकरी
● रिमार्क सड़क बनाने को अधिक स्टील और सीमेंट की आवश्यकता है
● प्रस्ताव से सड़क निर्माण की नई तकनीक से 1500 करोड़ बचाव: केएनडी

Students' Updates

The **Students' Parliament** assisted in arranging resources for the students' families during COVID peak in April. It worked towards initiating mess refunds of the remaining hostels.

E-Cell conducted a 'Know Your Department' session for Engineering Physics with Mr. Shyam Harimohan Menon and Mr. Saksham Gupta. A Mentorship program for education on startup journey was launched and a webinar on 'Career in Entrepreneurship' was also conducted.

Student Counselling Services launched the 2nd edition of 'ChitChat with Seniors' for the batch of '21. Webinar series on 'Campus to Corporate', 'Let's hear from the Experts' were initiated, followed by a panel discussion on 'Post Pandemic Challenges and Mental Health Implications'. Seminars were held on 'Boosting Immunity and Managing COVID-19 Stress' and 'Interview Preparation: Tips & Tricks'.



Film and Media Council's Media Club regularly posted the Weekly News Digest and conducted and published the interview of the Institute psychologist on its social media. The Cine Club made a series called 'Lo(ck/gg)edIn' and the Outreach Club posted a video tribute to the batch of '21.

The **Games and Sports Council** conducted a 'Diet and Nutrition Webinar' in collaboration with 'Biomarked' for awareness about lifestyle diseases. Daily yoga sessions are being conducted. Analysis of world chess championship matches is being organized by the Chess Club. The Club has also participated in the 'All IITs Chess Club' matches.

The **Social Service Council** volunteers celebrated Environment Day at *Kakarmatta Basti*. COVID-19 vaccine awareness programs were conducted. Design thinking workshops, idea pitching, best-out-of-waste drives and activities like puppet-making were also organized.



The **Science and Technology Council's** Club of Programmers began the COPS Summer of Code and the Robotics Club started a 6-week long Robotics Camp that began with a common track for "Basics of Robotics and PyBullet Simulation" followed by specializations in: Hardware Design and Simulation, Dynamics and Control, ROS, Robot Learning.

Achievements

9th Inter IIT Tech Meet

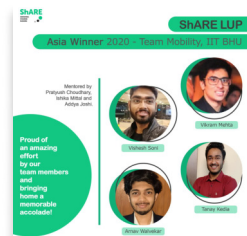
Event Name	Medal
Network Security Hackathon	Gold
TPF and Kaching Product Case Study	Gold
DRISHTEE Innovation Challenge	Gold
BRIDGEI2i Analytics Solutions	Silver

IIT (BHU) stood 8th out of 22 IITs in the 9th Inter IIT Tech Meet

GSoC '21

School	No. of accepted students
Indian Institute of Technology, Roorkee	33
Indian Institute of Technology, (BHU), Varanasi	23
Birla Institute of Technology and Science Pilani, Goa	21
Birla Institute of Technology and Science Pilani	18

IIT (BHU) had the 2nd-highest no. of selections among the 613 schools that participated globally in GSoC '21. Find the detailed story [here](#).



ShARE IIT BHU offers a leadership program where students are trained in consulting and leadership skills. The chapter was established three years ago and won the ShARE LUP Asia Finals in a competition against colleges like IIM Ahmedabad in the first year. The students in the I-Batch

program worked on consulting projects with students from universities across Europe, Africa, and Asia, where 2 members finished with the 3rd and 4th positions in the global finalists' team. 3 teams qualified for the national finals of ShARE's annual consulting presentation competition and made it to the finals. The ShARE chapter has collaborated with 8 startups till now.

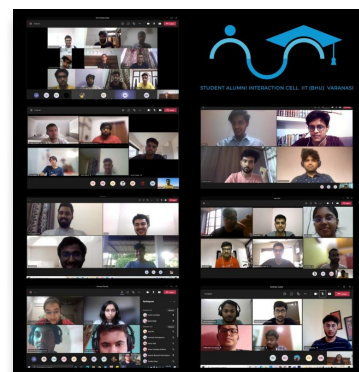
Alumni Updates

Important Note

With the formation of the new central alumni body: Alumni Association of IIT (BHU), all SAIC services will shift from alumni.iitbhu.ac.in to the new domain saic.iitbhu.ac.in.

SAIC, with the launch of its Student Alumni Mentorship Program in March, has conducted 7 mentorship sessions so far, out of the 9 originally planned. The sessions have been conducted on MBA, Entrepreneurship, Civil Services, Finance, Consulting, Product Management, and Data Science with SDE and Core Engineering sessions upcoming. The program also provided one-on-one mentorship to students from 150+

Alumni mentors in 8 different domains. The guidance sessions were organized in break-out rooms where 50+ alumni mentors interacted with students and shed light on the journey to excellence in their field, emphasizing on skill development. The sessions were engaging and were attended by 1000+ student mentees.



IBGAA is planning to dedicate a Slack Channel to provide one-on-one mentorship to the Fall 2022 and 2023 MS/PhD applicants. Location based WhatsApp groups are being leveraged to help students currently pursuing MS/PhD in foreign countries to connect with other alumni and settle easily. Fortnightly Ask-Me-Anything (AMA) sessions will be conducted with experienced alumni providing insights into research careers and details on the prospects of higher



education. A centralized knowledge drive is being created containing lists of scholarships, internships, professors, study material, etc. Alumni are being encouraged to contact slack-admin@iitbhuglobal.org with their brief research bio to be added to the channel.

BAA, in collaboration with SAIC, organized a session on 'Ayurveda and Modern Medical Sciences: Issues and Challenges' with Dr. A. K. Tripathi and Dr. Shridhar Dwivedi as the guest speakers. The session discussed the various challenges pertaining to the two streams of Health Sciences.

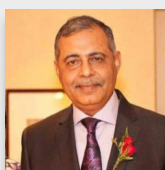


Alumni Association of IIT (BHU), Varanasi

Office Bearers



Prof. Pramod Kumar Jain
Director, IIT(BHU), Varanasi
Patron



Sh. Nitin Malhotra
(CER '76)
President



Prof. Ramji Agarwal
(CIV '65)
Senior Vice President



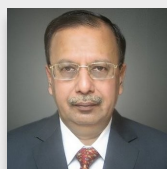
Sh. Arun Anant
(CHE '85)
Vice President



Sh. Virendra Nath Gupta
(MEC '76)
Secretary



Sh. Yash Upendra Shah (BCE '17)
Joint Secretary



Sh. Amitabh Deva
(MET '81)
Treasurer



Prof. Rajeev Srivastava
Dean (Resource and Alumni),
IIT (BHU), Varanasi
Ex-officio Member

Key Objectives/Activities

- Our students who are a great source of strength will be able to participate on a day to day basis with the alumni community, as the central body office will be in the campus.
- A Central Alumni Body will also enable smooth, easy and day to day interaction between the alumni, students, various chapters and our institution.
- It will be able to create a bigger membership because normally all alumni have a stronger bond with the Institute rather than with any one chapter.
- The passing out class automatically enroll in the central body at the Institute ensuring more young members and young minds with "out of the box" thought processes.
- The Central body will have representatives from all other alumni associations which will help in getting a wide perspective and efforts can be made jointly for betterment of our institute.
- The Central body of Alumni association becomes very important and useful for working professionals who keep changing their workplace to different regions.
- Drive for alumni support/donations for establishing alumni funded Institute faculty chairs, development of infrastructure and other facilities in the campus, student support in terms of establishing the endowment scholarships/awards/medals, best faculty award, linking students with alumni for jobs, funding support for start-ups etc.
- Arranging short term courses in new technology. Inviting guest lectures by our alumni on a host of subjects and especially how to create start-ups.
- Angel investor funds specifically for IIT (BHU) alumni and students will be created.
- Interactions with Industry, Alumni, Government authorities to help the Institute achieve greater heights.
- Organizing Alumni meets/reunions.

Message from the President, Alumni Association of IIT (BHU):

All alumni/alumnae are requested to register on the Alumni Portal (<https://alumni-reg.iitbhu.ac.in/>) to become a member of the Association and remain connected for regular updates.

Alumni In Focus



Sh. Akhilesh Mishra
(B.Tech. '86 &
M.Tech. '88)

Sh. Akhilesh Mishra graduated with a B.Tech. degree in Mechanical Engineering in 1986 and then went on to get an M.Tech. degree in 1988 from the Institute. Mr. Mishra joined the Indian Foreign Service (IFS) in 1989. After multiple assignments, he was promoted to the highest level Grade-1 (Secretary) in the Indian Foreign Service in March 2021.



Sh. Manoj Sinha
(B.Tech. '79)

Sh. Manoj Sinha graduated from the Department of Civil Engineering in the year 1979. He was appointed as the Lieutenant Governor of Jammu and Kashmir by the President of India in August 2020. He has been previously appointed as the Minister of State for Communication and the Minister of State for Railways in the Govt. Of India.



Dr. Arun Kumar Mehta
(B.Tech. '84)

Dr. Arun Kumar Mehta graduated from the Department of Civil Engineering in the year 1984. He was appointed as the Chief Secretary of Jammu and Kashmir in June 2021. He is an IAS officer of the 1988 batch. He has served in the Government of Jammu and Kashmir as Financial Commissioner, Finance Department and Principal Secretary.



Dr. R Raghuvanshi
(B.Pharm. &
M.Pharm. '89)

Dr. Rajeev Raghuvanshi graduated from the Department of Pharmaceutics in the year 1989. Appointed as the secretary-cum-scientific director of the Indian Pharmacopoeia Commission (IPC) on 16th February, 2021 by the Union Health Ministry, he also has 14 granted US patents and 250+ published PCTs and Indian patents.

SAIC is grateful to the Director, Dean (Resource & Alumni), Alumni Associations, and the entire IIT (BHU) fraternity for their constant support and blessings. We look forward to your valuable feedback. To share information for future editions, reach us at alumnice11@iitbhu.ac.in.

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