



Dear Rohit,

Greetings from IIT Bombay!

Hope you all are healthy and safe.

The onset of winter always brings cherished memories, and we eagerly wait for Alumni Day. Although we successfully managed to organise a virtual Alumni day last year, I am sure everyone wants to physically reconnect with their alma mater.



Our country has managed to slow down COVID-19, and even the festival season did not lead to the pandemic surge. However, the arrival of the new variant has stumbled all the countries, who are now busy reintroducing new guidelines to avoid any maximum disruption.

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News from IIT Bombay



[Prof. Samir. Maji received P. B. Rama Rao Memorial Award](#)

IIT Bombay's Prof. Samir K. Maji received the P. B. Rama Rao Memorial Award for the year 2021 for his contributions in the field of Biochemistry and Allied Sciences from the Society of Biological Chemists (India). Constituted in 1983, the P. B. Rama Rao Memorial Award is conferred once every 3 years.

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Two IIT Bombay Professors Awarded Swarna Jayanti Fellowship

Prof. C. Subramaniam (Chemistry) and Prof. Amartya Mukhopadhyay (MEMS) have been awarded the prestigious Swarna Jayanti Fellowship 2020-2021. The award is given to some of the most promising young scientists, under the age of 40, in India. Congratulations to both and we wish them all the best to bring home more laurels in the future.

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IIT Bombay student receives a job offer worth ₹ 2.05 crore per annum

The first day of placements across the IIT campuses started on a high note, with most institutes witnessing more job offers than in previous academic years. A student of IITB was offered USD 2.74 lakh per annum (₹ 2.05 crore) by Uber. Last year, the highest package offered to a student of IIT Bombay was \$ 200,000 (₹1.54 crore) by US-based IT firm Cohesity.

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Tech Nuggets



Parag Agrawal, IIT Bombay Alumnus becomes Twitter CEO

Parag Agrawal, a B-Tech in Computer Science Engineering from IIT Bombay, Ph.D. in Computer Science from Stanford University, and the Chief Technology Officer at Twitter, will take over as CEO of Twitter, according to an announcement made by Twitter founder Jack Dorsey. The 2005 IIT Bombay graduate, as CTO, was responsible for Twitter's pursuit of Blockchain and other decentralized technologies.

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IIT Bombay Professor conferred with the IEEE Fellowship

Prof. S. Sudarshan, CSE Department, has been selected as a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), USA. Fellowship of IEEE is a very coveted recognition globally for researchers in the area of electrical and computer science engineering.

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IIT Bombay Team wins at IEEE Connecting the Unconnected challenge

A proposal on “Bamboo Towers for Low Cost, Affordable Internet Connectivity to Remote Rural Areas” won first place in the “Technical Concept” category of the coveted the Institute of Electrical & Electronics Engineers Connecting the Unconnected challenge, 2021.

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Institute Highlights



IIT Bombay receives Clarivate Innovation Award 2021

IIT Bombay won the Clarivate South and Southeast Asia Innovation Award 2021 in the Academic category. Every year, Clarivate recognizes the most innovative companies in the region according to patent-related metrics that get to the essence of what it means to be truly innovative. This analysis is done using proprietary Clarivate data and tools. The evaluation is strictly driven by metrics for both patent volume (patents published) as well as patent quality

(grant success rate, extent of globalization, and citations). IIT Bombay has won this award two years in a row now, placing it amongst the top innovators in India.

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Damini Kumari Won Naamkaran Contest - IIT Bombay Gen Zero Women

Recently, IIT Bombay hosted a Naamkaran contest under the initiative of IIT Bombay Gen Zero Women. Under the initiative, the Institute seeks to profile the professional and personal journeys of 25 of our women alumni. These women would be from the pre-2000 batches which represent the first 35 years of IIT Bombay. Each of these women alumna are a living testament of what passion and grit can help achieve and are role models for future generations of students.

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Alumni Initiative



[Dr. Shailesh J Mehta inaugurates a world-class facility for a joint Executive MBA program with Washington University in St. Louis](#)

Dr. Shailesh Mehta, a distinguished alumnus of IIT Bombay & his wife Ms. Kalpa Mehta, inaugurated the Executive Education Complex on the fourth floor of the Shailesh J. Mehta School of Management (SJMSOM) at the Indian Institute of Technology, Bombay. The event was attended by Dr. Shailesh J. Mehta with his wife Ms. Kalpa Mehta, Prof. Subhasis Chaudhuri, Director, IIT Bombay, Prof. S. Sudarshan, Deputy Director (Academic & Infrastructural Affairs), Prof. Suhas Joshi, Dean (Alumni and Corporate Relations), Mr. Ravishankar Gedela, CEO, Development & Relations Foundation, Mr. Gopal Shukla, CEO of the joint venture between IIT Bombay & Washington University in St. Louis, Prof. S.N. Rao, Head, School of Management & Prof. Rohan Chinchwadkar, Assistant Professor of Finance, SJMSOM & is a landmark moment for the globally recognized business school.

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[Dr. Pramod Chaudhari partners with IIT Bombay to establish the Pramod Chaudhari Alumni Continuing Education Centre](#)

The Indian Institute of Technology Bombay signed an MoU with Dr Pramod Chaudhari, a distinguished alumnus of IITB who is also the Founder & Chairman of Praj Industries for establishing the Alumni Continuing Education Centre. The Centre will be christened “Dr Pramod Chaudhari Alumni Continuing Education Centre” & will be set up to conduct the Alumni Continuing Education (ACE) programme which is aimed at facilitating the lifelong learning journey of IITB alumni, at their alma mater. Through this programme, alumni can keep pace with technological advancements in engineering & science while understanding its implications on the world & specifically for their businesses. It also serves as a forum for cross-pollination of ideas, learnings & experiences amongst alumni who come from varied industries & backgrounds.

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Faculty Interview



[Prof. Subramaniam Chandramouli: Solving the Unsolved Puzzles](#)

Some rare humans look at the greater good of society and reinforce their education in resolving the grassroots level challenges.

Our own Prof. Subramaniam Chandramouli, Assistant Professor, Chemistry Department, IIT Bombay, is trying to apply science in the service of society with his innovative technology and research.

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Success Stories of IIT Bombay



IITB Students from CSE Dept. won NeurIPS 2021 Reconnaissance Blind Chess

Upcoming Events

SciPy India 2021

Topic: SciPy India 2021
Date & Day: Friday, December 17 to December 18, 2021
Time: 09:15 am to 05:45 pm
Venue: Online Platform

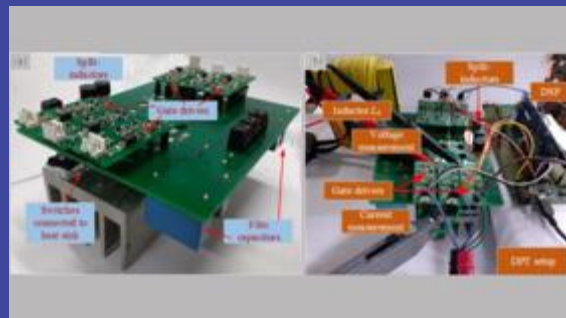


Alumni Day 2021

Topic: Alumni Day 2021
Date & Day: Sunday, December 26, 2021



Student Research activities at IIT Bombay



Drought risk assessment: driving factors, vulnerability appraisal & sensitivity analysis

Name: Sahana V.
Department: Civil Engineering, Ph.D.
Name of supervisor: Prof. Arpita Mondal

Droughts can cause great damage to agriculture in India & is known to be a predominant driver of major famines in the country. Drought hazard is defined as the occurrence probability of a potentially damaging drought condition. On the other hand, drought vulnerability is defined as the degree of susceptibility of a region to drought, & can be represented by relevant factors comprising exposure, sensitivity & adaptive capacity components. These components represent the social, physical, economic & infrastructural factors affecting drought vulnerability.

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A Fault-Tolerant Highly Efficient Hybrid Si/Sic-Based Medium Voltage Converter System

Name: Satish Belkhode
Dept: Electrical Engineering, Ph.D.
Name of supervisor: Prof. Anshuman Shukla and Prof. Suryanarayana Doolla

With the recent trend of increased applications of silicon carbide devices for power electronic converters, high efficiency is being achieved at higher power densities. This has led to enhanced system performance for some state-of-the-art applications such as EV charging stations, high-speed electrical drives, renewable systems, and many others. One of the main concerns is their high cost, which makes it challenging to utilize such converters for large converter systems. This led to dv/dt and di/dt issues in the system.

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Product & Technology Development at IIT Bombay



Innovative Products and Technology at IIT Bombay

Medical devices are critical for healthcare. Indigenous development of novel, suitable, reliable, and affordable devices lead to social impact as well as high-value jobs. Since its inception in 2014 at IIT Bombay, Biomedical Engineering and Technology Innovation Centre (BETiC) is building the necessary eco-system by connecting stakeholders – government, academia, medical community, industry, investors, and facilitators.



Knee Ankle Foot Orthosis

Start-up name: Knee Ankle Foot Orthosis

Inventor/s name: Prof B Ravi, Dr Rupesh Ghyar, Mr. Anesh Karma

Technology/Product: Mechanically Actuated Stance Controlled Knee Ankle Foot Orthotic

Fostered at: BETIC, IIT Bombay

Over 13 million people in India suffer from various locomotor disabilities. A large number of them develop muscular weakness of the lower limb due to poliomyelitis, post-polio syndrome, multiple sclerosis, cerebral palsy and spinal cord injury. Though polio has been eradicated from the country, there are still nearly 2 million polio-disabled patients. They require affordable knee-ankle-foot orthosis (KAFO) or orthotic callipers.

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Glaucoma Screener

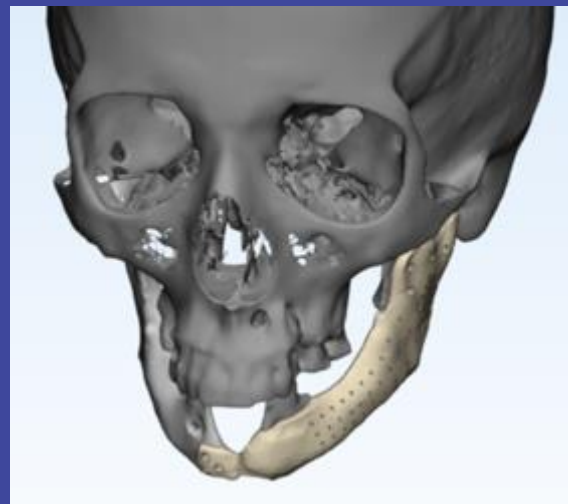
Start-up name: Glaucoma Screener

Inventor/s name: Prof B Ravi, Dr Rupesh Ghyar, M Arun G Krishnan, Mr Tapas Pandey, Mr Sagar Talele, Mr Vinayak A Modi, Mr Sudip Singh Jamwal

Technology/Product: Glaucoma Screening Device

Fostered at: BETIC, IIT Bombay

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Custom Implants

Start-up name: Custom Implants

Inventor/s name: Prof B Ravi, Dr Rupesh Ghyar, Mr Bhanupratap Gaur, Mr Suraj Naik, Mr. Samrat Sagar, Ms. Chetana Suryawanshi

Technology/Product: Patient-customized orthopaedic implants

Fostered at: BETIC, IIT Bombay

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