Ambuja Cements, ACC collaborate with IIT Delhi to develop low carbon cement


The partnership aims to create next-generation low CO2 cement with more than 50% lower carbon emissions for Indian and international consumers.

Ambuja Cements and ACC have partnered with the Indian Institute of Technology Delhi (IIT-D) to develop next-generation, calcined clay cements, a low carbon material to promote sustainable construction.

This academic collaboration will be implemented through a research project funded by Holcim Innovation Centre, Lyon, France. It will comprise an in-depth scientific study into the influence of clinker, calcined clay and limestone on the performance of calcined clay cements.

The partnership aims to create next-generation low CO2 cement with more than 50% lower carbon emissions for Indian and international consumers.

Neeraj Akhoury, CEO Holcim India, and managing director & CEO, Ambuja Cements Limited said, “Through our extensive R&D set up, we consistently strive to develop new ‘Low CO2’ materials for the construction industry. Calcined Clay Cement is one such avenue to make a significant quantitative difference in the industry and further accelerate our ‘Sustainability drive’. Our academic partnership with IIT Delhi is a big step towards building a greener future and we are excited to collaborate with the best minds in the country.”

Both the companies have also previously partnered with the Indian Institute of Technology Madras (IITM) to study ‘Optimized use of Low CO2 binders with alternative reinforcements’ and the Indian Institute of Hyderabad (IITH) to develop ‘Smart sensing technology for continuous on-site strength evaluation of a concrete structure’. These academic collaborations stem from the company’s vision to reimagine how the world is built in order to make it greener, smarter, and more sustainable.
Prof Ramgopal Rao, Director, IIT Delhi said, “It is the endeavour of IIT Delhi to make its research relevant to the industry and the society at large. The wide acceptance of Limestone Calcined Clay Cement by the industry worldwide and this collaboration with Holcim to develop the next-generation of calcined-clay cements demonstrate the trust that IIT Delhi has built with the industry. We are confident that this partnership will help us to achieve the goal of sustainable construction that is accessible to the masses.”

Holcim Innovation Centre continuously engages with a distinguished academic network and has collaborated successfully with over 40 leading universities to achieve innovation excellence through 'Sustainable' & 'Smart' building solutions.

**IIT Delhi, Business Sweden sign MoU for clean air and green energy collaborations**


V Ramgopal Rao, director of IIT Delhi, and Cecilia Oskarsson, trade and invest commissioner of Sweden to India, signed the MoU. IIT Delhi

**Summary**

- The partnership aims to identify mutual collaboration opportunities, introduce innovative solutions to the industry and academia, considering continuity of India Sweden Innovations Accelerator Programme
- India has pledged to bring its economy’s carbon intensity down to 45% by 2030 and fulfil 50% of its energy requirement through renewable energy by 2030
The Indian Institute of Technology (IIT) Delhi and Business Sweden - The Swedish Trade and Invest Council have signed a Memorandum of Understanding (MoU) to strengthen collaboration in the field of Clean Air and Green Energy.

The MoU was signed by V Ramgopal Rao, director, IIT Delhi, and Cecilia Oskarsson, trade and invest commissioner of Sweden to India. The MoU aims to identify mutual collaboration opportunities, introduce innovative solutions to the industry and academia, considering continuity of India Sweden Innovations Accelerator Programme and Sustainability by Sweden Showroom and Platform in India.

Rao spoke about the need for clean energy to achieve the target India pledged at COP26, Glasgow, to bring its economy's carbon intensity down to 45% by 2030 and fulfil 50% of its energy requirement through renewable energy by 2030.

The IIT Delhi director also spoke about the need to collaborate on other areas such as smart grids and battery storage solutions to transition from a coal-based economy to a renewable energy economy. He also mentioned the various start-ups being incubated at IIT Delhi that present a huge opportunity for collaboration with the Swedish industry.

Oskarsson spoke about the opportunities for knowledge sharing and learning from the Swedish industry, a leader in developing sustainable and innovative technologies. She also proposed academic exchange programmes, cooperation with innovative solutions providers from Sweden and joint R&D projects in the domain of clean air, energy, environment and urban development.

S.K. Khare, dean (R&D), IIT Delhi, briefed about existing research projects that are part of the collaboration and opportunities for future collaboration in areas other than clean air and clean energy.

Anurag Rathore, dean, corporate relations, IIT Delhi, spoke about organising interactive events with the Swedish industry at IIT Delhi and promoting knowledge sharing and development of technologies that are India-centric. He also spoke about financial support from the Swedish industry for promoting joint research in new and high-priority areas.

Ludvig Lindstrom, country manager, Swedish Energy Agency, traced the history of India Sweden Innovations Accelerator and Sustainability by Sweden showroom in India, along with over 200 pilot/commercial projects established in India as part of the impact created by solutions introduced through these frameworks.

Pawan Tahlani, Vertical Lead Sustainability and Climate Change, Business Sweden, said the three main focus areas of this collaboration are industry-academia collaboration for co-creation of next generation solutions and university level collaborations for expertise and student exchange.

**JEE toppers prefer Delhi, Mumbai IITs over Kharagpur**

An IIT Kharagpur scholarship that offers to cover the entire expenses of a student till they complete their undergraduate course if the family’s gross annual income was less than Rs 20 lakh does not have a taker in the first year.

The website of the seat allocation authority that conducts counselling for admission to IITs shows that none of the top 100 from the JEE-advanced merit list has taken admission in Kharagpur.

It could not be ascertained whether all IIT top 100 candidates had an annual family income of over Rs 20 lakh.

An official at IIT Kharagpur said the institute had started the scholarship to attract the top students on the list but it has not fetched the desired result yet.

IIT Kharagpur director V.K. Tewari had on the occasion of the institute’s 71st foundation day programme on August 18 launched Pandit Iswar Chandra Vidyasagar Scholarship and acknowledged that some institutions that “are below IIT Kharagpur are also superseding” the country’s oldest IIT and “this is a cause of concern”.

This full scholarship will cover the entire cost of education of a student like institution fees, hall expenses, meals, text books, laptops along with broadband connectivity and other miscellaneous expenses such as relocation expenses, personal expenses, other living costs and also provide an out-of-pocket allowance.

The website of the seat allocation authority, says the ranks for admission to the computer science and engineering programme — the most coveted stream — at Kharagpur this year is in the range 207-285 in the general category.

The ranks for the same programme at IIT Bombay this year is between 1 and 67 and at IIT Delhi is between 3 and 100.

Jayanta Mukhopadhyay, dean, Outreach at Kharagpur, said: “This year we have not found any candidate who is eligible for availing the scholarship. The scholarship was launched in August. We hope that the institute will get candidates for the scholarship from next year. The information about the scholarship is expected to be disseminated widely by then”.

The director could not be reached for comment on Friday.

A teacher of the institute said the top rankers in JEE-advanced considered a lot of factors before opting for an institute.

According to him, the brand value of an IIT along with the availability of the research facilities, are the factors that weigh in the minds of the toppers.

“In terms of brand value and research facilities, IIT Bombay and IIT Delhi are way ahead of IIT Kharagpur now,” said the teacher.

Chemical scientist Man Mohan Sharma had said while delivering a lecture at the 63rd convocation of IIT in August 2017 that the Kharagpur institute lacked proper “branding”.

Page 4 of 42
A teacher at Kharagpur who did not want to be named said in October they had written to those in charge of the central research facilities drawing attention to machines that were not functioning and needed an overhaul.

“Till date nothing has changed,” he said.

**IIT Delhi: New schools, departments and programmes with multidisciplinary focus**


---

A committee set up at IIT Delhi has carefully considered all higher education-related guidelines in NEP 2020. IIT Delhi

**Summary**

- A Department of Energy Science and Engineering has recently come up at IIT Delhi
- IIT Delhi is also starting two multidisciplinary programmes at the PG level — MTech in Electric Mobility and Master of Public Policy from 2021-22

The Indian Institute of Technology (IIT) Delhi is among the first institutes to have taken a proactive stance towards assessing the guidelines proposed in the National Education Policy (NEP) 2020 and exploring appropriate measures for their implementation.

The institute has taken several initiatives to set up new schools, departments and centres with multi-disciplinary teaching and research programmes in keeping with the broad objectives of NEP 2020.

“As an Institute of Eminence, IIT Delhi is fully cognizant of its role in the timely and proper execution of educational policies. The institute is carefully examining the structure and nature of
its existing programmes that could help build a strong foundation for introducing the NEP 2020
directives. Over the past many months, a committee for the implementation of NEP 2020 has
carefully considered all higher education-related guidelines. Currently, feedback on the
committee’s report is being sought from all academic units for further deliberations,” said V.
Ramgopal Rao, director, IIT Delhi.

A Department of Energy Science and Engineering has recently come up at IIT Delhi. The
Transportation Research and Injury Prevention Programme (TRIPP), which has been running at
the institute since 2002 as an interdisciplinary programme, has been converted into a full-fledged
centre in 2021.

The all-new Optics and Photonics Centre will focus on doctoral and postgraduate programmes,
including special programmes for industry professionals.

The institute has in recent years started a School of Public Policy, School of Artificial Intelligence,
Department of Materials Science and Engineering and the Department of Design, which are all
highly interdisciplinary in nature.

IIT Delhi’s School of Interdisciplinary Research (SIRe), which has been around since 2017, also
promotes interdisciplinarity. Every PhD student admitted to this academic unit is supervised by
two or more supervisors belonging to different academic disciplines.

The institute already has multiple inter-disciplinary undergraduate programmes and several more
are in the pipeline. Two new interdisciplinary and multidisciplinary BTech programmes in
Engineering and Computational Mechanics and Materials Engineering were started in the
academic year 2020-21.

More interdisciplinary programmes are on the cards — BTech in Energy Engineering is 2021-22,
Bachelor of Design in 2022-23 and BTech in Design in 2025-26.

IIT Delhi is also starting two multidisciplinary programmes at the PG level — MTech in Electric
Mobility and Master of Public Policy from 2021-22. Discussions are underway for an MTech
course in Artificial Intelligence and Data Science.

The institute already offers several options for multiple exits from programmes and movement
between programmes. A committee has been constituted to examine the options and make
recommendations for implementation.

Rao underscored the relevance of holistic, all-round education for students. IIT Delhi has always
encouraged its students to actively participate in different cultural and social events organised by
multiple student-run clubs and societies. In future, too, IIT Delhi will keep promoting an
integrated approach to learning and teaching, thus aligning with one of the primary visions of the
NEP 2020.

**IIT Delhi to begin placement season virtually on December 1**

The Office of Career Services (OCS), IIT Delhi, is a facilitating arm of the institute. Source: IIT Delhi

**Summary**

- Increase in new-age technology-based hiring profiles related to Data Science, Artificial Intelligence and Machine Learning
- The entire interview process will be conducted in a single slot every day

Placement interviews at the Indian Institute of Technology (IIT) Delhi will begin on December 1.

The placement procedure will be conducted in virtual mode for the second successive year.

Industry response for campus placements has been encouraging across sectors, according to the institute. New-age technology-based hiring profiles related to Data Science, Artificial Intelligence and Machine Learning have seen a boost in addition to traditional profiles.

The campus looks forward to a robust hiring session this season and students are gearing up for digital interviews with innovative and newer patterns of interaction maximising the use of technology.

IIT Delhi aims to create an optimum environment for both the recruiters and the students so that the process is as congenial as possible for all stakeholders.

The entire interview process will be conducted in a single slot every day. This process has been conceived to facilitate the right fitment both for students and recruiting organisations while providing ample time to recruiters to make selection judgements, leading to better hiring decisions.

“The company slotting paradigm at IIT Delhi is very different from all other campuses and is based on a single slot each day. What this translates into is that the spread of companies will be more on each day. This year many organisations have increased their compensation. For the first time, few organisations have indicated that their salaries in India may be higher than those paid by organisations recruiting for international profiles. We look forward to a healthy and robust placement season for both the recruiting organisations and students,” said Anishya Obhrai Madan, Head, Office of Career Services, IIT Delhi.
NIT Sikkim BTech students eligible for direct admission to IIT Delhi PhD programmes


An MoU was signed by IIT Delhi director V Ramgopal Rao and NIT Sikkim director M.C. Govil

Summary

- NIT Sikkim and IIT Delhi sign MoU to facilitate exchange of faculty, students and research scholars
- Faculty members from IIT Delhi will act as mentors for each of the departments of NIT Sikkim

The Indian Institute of Technology (IIT) Delhi and National Institute of Technology (NIT) Sikkim have recently signed an MoU to foster academic and research collaboration in areas of mutual interest.

BTech students at NIT Sikkim will now be eligible for direct admission to PhD programmes at IIT Delhi without appearing for GATE or any other national-level examination.

The MoU, which was signed by IIT Delhi director V Ramgopal Rao, and NIT Sikkim director M.C. Govil, will also facilitate faculty and student exchange programmes between the two institutes.
The undergraduate students of NIT Sikkim with a CGPA of 8.00 at the end of their sixth semester (third year) will be eligible to apply to IIT Delhi for a summer project and complete their fourth year (seventh and eighth semesters, or either) there.

Having scored a minimum CGPA of 8.00, the requirement of GATE for PhD is waived off. The students will be expected to demonstrate sufficient merit in coursework and research during their seventh and eighth semesters in BTech.

On completion of their fourth year at IIT Delhi, students will be considered for an early admission into the institute’s PhD programmes based on their academic performance.

“I am confident that our association with IIT Delhi will benefit our students and faculty with regard to research and innovation. I hope that it will usher in a new era of technological and academic brilliance in the Northeast and help the region develop at a brisk pace,” NIT Sikkim director M.C. Govil said.

Welcoming the MoU, IIT Delhi director V Ramgopal Rao said that IIT Delhi will provide NIT Sikkim exposure to a world-class research infrastructure.

A mentorship programme has also been envisaged where faculty members from IIT Delhi will act as mentors for the departments at NIT Sikkim. This will facilitate the exchange of faculty/staff at a departmental level, which can be done both online/offline. This programme may also be extended to include creation of common virtual/physical laboratory facilities.

IIT Delhi will not charge any academic fees from the NIT students since they would be paying a regular academic fee at their parent institute.

**IIT Delhi beats UC Berkeley & University of Chicago in Times employability rankings, ranks 27th**


The other institutes that made it to the top 100 are IISc, Bengaluru and IIT Bombay. IIT Delhi & Bombay also ranked among the top 150 in the QS Graduate Employability Rankings.
Indian technical institutions have topped two global employability rankings this year. After the Indian Institute of Technology (IIT) Bombay, for the first time, ranked in the 101-110 bracket in QS Graduate Employability rankings released September, IIT Delhi has ranked 27 on Times Higher Education global employability ranking.

The list released Wednesday shows that IIT Delhi graduates are one of the most employable in the world. Even as it maintained the same position as last year, it beat stalwarts like the University of California Berkeley (32) and University of Chicago (33).

The other institutes that made it to the top 100 are Indian Institute of Science (IISc), Bengaluru (61) and IIT Bombay (97). Both these institutes have improved from their last year’s ranks of 71 and 128, respectively.

Talking about IIT Delhi featuring in the top 50 institutes in employability ranking, V. Ramgopal Rao, Director, IIT-D said this is because of the exhaustive nature of studies at IITs that students rank so high in terms of their employability factor.

“The data that Times Higher Education has used is based on the employer’s survey and it speaks volumes of the kind of rigour that IIT students go through and their ability to learn and adapt into any environment,” Rao told ThePrint.

**IIT Delhi, Bombay rankings improve**

According to a press statement by the Times Higher Education, it has ranked 250 universities spanning across 43 countries. “Employers voted for institutions both in their own country and around the world, if they recruit internationally,” the statement read.

The statement said the results show that employers are looking for graduates with strong digital literacy and subject specialism skills rather than focussing on the prestige of the university they attended.

It added that “there’s a whole host of countries that are rising stars when it comes to employability. Mainland China, France, India and Spain are among those countries and regions that rise while the United Kingdom (UK), US, India, and Israel stand out for their digital performance.”

IIT Delhi and Bombay have featured among the top 150 institutes in the QS rankings as well. Both institutions have improved their ranking from last year. While IIT Bombay moved up from its last year’s rank bracket of (110-120) to get in the 101-110 band, IIT-Delhi improved upon its last year’s band of 151-160 to 131-140 this year. IIT-Madras also improved its score from last year (171-180 band) to 151-160 this year.

Commenting on improved rankings of Indian institutions, another IIT professor who did not wish to be quoted, said, “Apart from the performance of students and the academic rigour, the other reason that rankings of Indian institutions are improving is the kind of emphasis that institutions are now paying on it. There is a lot of awareness about the rankings and the government is also focusing on it...their Institutes of Eminence scheme is based on rankings, hence there is more impetus.”
IIT Delhi's e-scooter 'Hope' runs at just 20 paisa/km

IIT Delhi's electric scooter 'Hope' runs at just 20 paisa/km and needs no driving license or registration

Amid the rising fuel prices across India, we tried riding Hope, an e-scooter that runs at the cost of 20 paise per km. It's both affordable and comfortable!

Hope is a paddle assisted vehicle and you can also run it like a normal scooter with the accelerator. It comes with a forward and reverse mode and LED digital display. The battery of the vehicle is detachable and swappable. The most amazing thing is that the scooter can be fully charged through a normal socket in just four hours. With the portable lithium-ion battery pack you can charge it at your convenience, or take the charger with you at your home, office or even at a restaurant.

The scooter will have two battery options with a range of 50 km and 75 km in ideal conditions. The running cost of this electric scooter is around 20 paisa/km. The speed of the vehicle is limited to 25 kmph, hence it comes under the exemption category, which means one does not require a driving license or registration to drive this vehicle.

The electric scooter also is equipped with a pedal system that a rider can use to commute if the battery dies out. The vehicle is integrated with the battery management system, data monitoring system and pedal-assist unit developed in-house. It is IOT-enabled for data analytics and fleet management applications. All the data coming from the vehicle goes to the cloud and enables features like anti-theft, GPS and one can track the data with their mobile or web application. These state-of-the-art features place HOPE in the category of smart and connected vehicles of the future.

For the personal commute market, Geliose Mobility plans to open pre-booking of other variants soon. Currently, Hope comes in two variants, one priced at Rs 50,000 and the other at Rs 55,000 depending on the range, capacity and distance.
IIT Delhi hosts fifth World Congress on Disaster Management

The WDC will include a number of special technical sessions, plenary sessions, thematic sessions, concurrent sessions, and special feature events, and pre-conference events. IIT Delhi

Summary

- Union defence minister, Rajnath Singh, inaugurated the WCDM 2021 virtually
- WCDM aims to promote interaction of science, policy and practices to for reducing risks and building resilience to disasters

The fifth World Congress on Disaster Management on the overarching theme of “Technology, Finance and Capacity for Building Resilience to Disasters in the Contexts of Covid-19” is being organised from November 24-27, 2021 at the IIT Delhi campus.

The World Congress on Disaster Management is an initiative of Disaster Management Initiatives and Convergence Society (DMICS) to bring researchers, policy makers and practitioners from around the world on the same platform to discuss various challenging issues of disaster risk management. WCDM aims to promote interaction of science, policy and practices to enhance understanding of risks and advance actions for reducing risks and building resilience to disasters.

Union defence minister, Rajnath Singh, virtually inaugurated the WCDM 2021 where he called for closer global cooperation to strengthen international architecture for building structures to prevent and manage future disasters. He also mentioned a comprehensive assessment of the impact of the Covid-19 pandemic on the implementation of 2030 sustainable development goals, emphasising the need to incorporate new ideas in global and national strategies.

The WDC includes a number of special technical sessions, plenary sessions, thematic sessions, concurrent sessions, and special feature events, and pre-conference events. Moreover, poster presentations, exhibitions, and startups on disaster management are also on the schedule.

The event is being organised by the DMICS in collaboration with IIT Delhi, Government of Delhi, NDMA, NIDM, DRDO, ICMR, GSI, NRSC among others. A number of academic, scientific, and technical institutions have joined as knowledge partners. These include inter alia the following, Jawaharlal Nehru University, Delhi University, Jamia Millia Islamia, Indraprastha Guru Nanak University, Amity University, Jindal University, IIT Roorkee, School of Planning and Architecture New Delhi.

How IIT Delhi surged ahead in management education

MBA Education: IIT Delhi broke into the top five NIRF ranks for management, ahead of several IIMs. Its head of the department explained how.
The Department of Management Studies, Indian Institute of Technology Delhi, broke into the top five ranks of management institutions in the National Institutional Ranking Framework or NIRF 2021. Last year, it was at eight. Seema Sharma, head of the department, spoke to Careers 360 about the rise in the rankings and upcoming initiatives.

Q. What initiatives helped IIT Delhi, a technical institution, climb the ranks in management education?

A. We knew that we have to work hard to improve our ranking. We improved on gender diversity. We had more girl students. We worked on the curriculum part also. Apart from the academic delivery – which is classroom teaching – we worked out intensive exercises with the corporations so that our students are useful to the business world from day-one. The business world would often complain about this, generally for all B-Schools, that unless the students are given good training, they are not of much use. So, we worked on that. We improved the teacher-student ratio as we hired more faculty members. And, of course, research. You might observe that we are the highest as far as the research output is concerned. All these measures helped us to raise our position. And I think there is a parameter that is based on the perception of the institute. There has been improvement in that as well.

Q. What did you do to improve gender diversity?

A. Whenever we get an opportunity to talk to women candidates, we talk about all the benefits that a candidate will get from the IIT, whether it is entrepreneurial or from the ecosystem, or the curriculum, which is both research-based and intensely connected to the industry. It is just that we put in some extra effort.

Q. What was your experience with placements during Covid?

A. We have always had 100 percent placement. A lot of extra effort was required in this. The entire department worked together, talked to the companies to come for the placement. Initially, students were asked to join online. They were given a VPN number so that they can have access to the intranet of the companies and can start their work and as soon as they were able to, they joined offline.
Q. Do students get any exposure to actual global practices?

A. We have a Global Field Study (GFS) programme through which we send our students to foreign countries. Connecting with industries abroad gives them a good idea of the international work culture and good exposure to the technologies that are in use in other countries. GFS has been suspended now because of the corona situation. As soon as the normal life resumes, we will again start sending students.

Q. What are your plans for the future?

A. We do have plans to start one separate online programme or a blended one-year programme for working executives. Whenever we offer this program, it would be for students of the entire world. It may be blended or it may be online only, the discussions are still on.

What we are planning is that from next semester we will go offline. The number of cases in Delhi has been low for a while, so we will go offline. For us, the usual mode is offline and we want to return to it. We do not have a blended mode of teaching yet.

IIT Delhi Awards Neilom Prize 2021 to Graduates for their Work in Empowering People with Disabilities

Neilom Prize 2021 was awarded to two graduates by IIT Delhi for their work in assistive technology.

**IIT Delhi awarded the Neilom Prize for the year 2020-21 to recent graduates for contributing to the space of assistive technology to empower people with disabilities.**

The Indian Institute of Technology (IIT) Delhi on Monday awarded the Neilom Prize to recent graduates for contributing to the space of assistive technology to empower people with disabilities. This year, the award was jointly presented to Dr Richa Gupta and Girish Yadav for their works in the relevant field.

The award, which carries a cash prize of one lakh rupees, is given every year to the best outgoing student(s) of IIT Delhi for their contribution to the area of assistive technology.

Dr Gupta’s doctoral research at IIT Delhi sheds light on the idea of novel design strategies that can aid the retention of tactually acquired graphical information. Her work involved extensive experiments working closely with organisations that excel in accessibility initiatives and inclusion of blind and visually impaired in India (National Association for the Blind) and the USA (Indiana School for the Blind & Visually Impaired).

Dr Gupta is an assistant professor in human-centered design at IIIT-Delhi. She completed her PhD from Khosla School of Information Technology, IIT Delhi after obtaining her BTech in Mechanical Engineering from IIITDM, Jabalpur and MDes from IIT Bombay.

Yadav is the co-founder of Flexmo, an assistive technology product design, and manufacturing company focusing on solutions for the elderly and people with locomotor disabilities. He was involved in the successful design, development, and deployment of multiple assistive technology devices, which include flexmo crutches, transito sit-stand device, and elderly canes and walkers. He did his BTech in Production and Industrial Engineering from IIT Delhi and recently completed his MDes degree also from the institute.
Neilom Prize 2021 awarded by IIT Delhi to Dr Richa Gupta (above) and Girish Yadav

Speaking of Dr Gupta and Yadav’s works, Prof M Balakrishnan, Founder, Assistech Laboratory, IIT Delhi said, “Successive generation of students and research staff who have worked in this space with passion and commitment are responsible for whatever success ASSISTECH has got in the last 15 years of its existence. We are thankful to Prof. Anand for establishing the Neilom prize, which recognizes the work done by these young graduates.”

Jamshedpur boy state topper in Ideathon, honoured by IIT, Delhi
Std XI student of SDSM School For Excellence, Mrinmoy Mahato has bagged the top spot in IDEATHON for this academic year. The competition was organized pan India by the CBSE Board in association with Management Entrepreneurship Professional Skills Council (MEPSC) under the Ministry of Skill Development and Entrepreneurship, Government of India. IDEATHON is India’s largest festival of IDEAS for students of Classes VI to XII. The concept behind the festival was to develop a spirit of innovation and entrepreneurship among school students that was reflected in the theme, ‘Mera Idea Jo Badal De Bharat’ (My Idea that will change my Country). This year, 70,000 ideas across the country were submitted from 5,000 schools.

Mrinmoy, being among the top 50, became the state topper in IDEATHON. He went through several rounds of screening and interview to move into the Top –p 50 bracket. The Director of IIT, Delhi, V. Ramgopal Rao felicitated Mrinmoy Mahato with a cash prize of Rs.10,000/- along with the merit certificate. SDSM School’s Science Department Coordinator, Mona Mendiratta has been felicitated with the Teacher of Innovation Award.

The Principal, Moushumi Das, congratulated the entire team and observed, “The credit goes to the team as it reflected its consistency in efforts and patience. Mona Mendiratta deserves special mention for she has been the motivating factor in the Science Department and she will take it further through Science Club activities thereby making it a part of the system.”

School Chairman, Diwakar Singh conveyed his happiness at the achievements and greeted the team with the expectation of attaining further laurels.

**IIT-Delhi sets up sponsored research parks for research worth Rs 700cr**

November 21, 2021

[https://www.dtnext.in/News/National/2021/11/21115645/1329952/IITDelhi-sets-up-sponsored-research-parks-for-research-.vpf](https://www.dtnext.in/News/National/2021/11/21115645/1329952/IITDelhi-sets-up-sponsored-research-parks-for-research-.vpf)

The Indian Institute of Technology Delhi (IIT-D) is setting up sponsored research parks for various private companies to facilitate collaborative research and development of advanced technology. The institute has received proposals of over Rs 700 crore from various private firms for industry partnership.
Several government institutions have also invested crores for doing collaborative research on a large scale with the IIT-D.

The Defence Research and Development Organisation (DRDO) is planning to invest around Rs 500 crore to design and develop defence equipment in collaboration.

At the special parks, which is being set up within the college campus, many big NGOs will also participate to promote industry collaboration.

These parks will be equipped with modern laboratories and supporting infrastructure to facilitate the research work of more than 100 companies.

According to IIT-D Director V. Ramgopal Rao, several industries have shown interest in conducting sponsored research at the special parks, which have been set up in association with the DRDO, and have also invested in it. The Tata Group has given over Rs 50 crore for conducting research.

The DRDO, which has so far invested Rs 264 crore of the total Rs 500 crore, used to import defence machineries previously. Now they can now develop these state-of-the-art technologies indigenously, he added.

In addition to this, the Indian Navy, Ashoka University, National Law University Delhi (NLUD), Indraprastha Institute of Information Technology Delhi (IIITD), Indian Institute of Petroleum and Energy, Visakhapatnam (IIPE) and the Bharat Heavy Electricals have also signed MoUs with IIT-D to establish avenues of engagement with industry, transfer knowledge and create value.

Anant Yardi, an IIT-D alumnus, has contributed $10 million to the institute to support its state-of-the-art laboratories and its newly-established 'School of Artificial Intelligence'. Yardi, who is currently based in the US. was a student of IIT-D in the 60s.

According to Rao, with this type of contribution will assist IIT-D in fostering development of new research each day.

**IIT Delhi to hold 3rd SciTech Spins on Nov 20, 'Materials that Matter' lecture to be delivered**


IIT Delhi would conduct its 3rd SciTech Spins on November 20, 2021. The institute would decode several answers for school students from classes 9 to 12. Further, there would also be an Open House for school students where students would be able to connect with researchers from the field of Science and Technology.
Indian Institute of Technology or IIT Delhi would soon conduct the 3rd SciTech Spins on November 20, 2021. The institute would deliver the 3rd SciTech Spins lecture that is titled 'Materials that Matter'. Along with the lecture, there would also be laboratory demonstrations. IIT Delhi would also live stream the lecture on YouTube.

Those interested would be able to see the lecture from the official YouTube channel. SciTech Spins is an initiative by IIT Delhi to reach out to school students from classes 9 to 12. Students who attend the academic initiative by the institute are also given e-certificate for participation by the institute. Schools that are willing to nominate students for the 3rd SciTech Spins, may contact the institute via Associate Dean, Academic Outreach & New Initiatives, IIT Delhi. Schools may reach out through the following mail ids- adoni@iitd.ac.in; acadoutreach@iitd.ac.in.

IIT Delhi to hold 3rd SciTech Spins Date

<table>
<thead>
<tr>
<th>Event</th>
<th>Date &amp; Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
IIT Delhi Scientists to deliver talks

November 20, 2021, at 10 am

The lecture for the 3rd SciTech Spins would be delivered by Professor Ashok K. Ganguli from the Department of Chemistry and Professor Rajesh Prasad from the Department of Materials Science and Engineering. Students should note that the lecture would decode several interesting answers such as Why did the Titanic sink? What all can one learn from nature?

Professor Ganguli would deliver a talk that is titled 'Materials in Nature and for the Future', The talk would focus on one's learning from nature. It would also focus on smart windows and several other technologies that would handle extreme temperatures. Further, Professor Prasad's talk is titled 'Sinking of Ships and Falling of Aircrafts: The Science of Deformation'. The talk would try to explain to students several concepts through simple experiments using paper strips, ballons.

IIT Delhi, IIIT Delhi sign MoU to set up India's first medical cobotics centre

November 17, 2021


The first batch of trainees will start in April/May 2022 with some of the basic training simulators, which are widely available in the open market, whereas advanced surgical robots will be inducted in the next phase.

The Innovation Hub Foundation for Cobotics (IHFC), the Technology Innovation Hub (TIH) of the Indian Institute of Technology Delhi (IIT Delhi) and iHub Anubhuti, the TIH of Indraprastha Institute of Information Technology Delhi (IIITD), signed an MoU on Wednesday to set up India’s first Medical Cobotics Centre (MCC) at IIIT-Delhi.

The MCC will be a technology enabled medical simulation and training facility for young resident doctors. It will also act as a validation centre for research outcomes in the area of healthcare robotics and digital health, and facilitate the training of other healthcare professionals, paramedical staff, technicians, engineers, and researchers, a release said.

The TIHs are funded by the Department of Science and Technology (DST), Government of India under its National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS).

“The two hubs are committed to developing advanced technologies in the field of medical robotics/cobotics, digital health, sensing and computing technologies desired in robotic-assisted surgeries, training, and medical procedures,” it said.

The training programs will be designed in consultation with leading doctors/experts, mainly from the All India Institute of Medical Sciences (AIIMS) at New Delhi, Jodhpur, and other prestigious medical colleges. They shall be empaneled as guest faculty for conducting the same.
"The training programs would be at multiple levels (basic/advanced) and cohort-specific like urology, neurology, laparoscopy, and others but initially limited to minimum invasive surgeries," the release said.

It is planned to induct the first batch of trainees in April/May 2022 with some of the basic training simulators, which are widely available in the open market, whereas advanced surgical robots will be inducted in the next phase. The Centre will cater to the needs of medical colleges in Delhi-NCR region.

"We are happy to associate with IIITD for the joint Medical Cobotics Centre (MCC). In order to develop technologies for societal benefit, it’s important for researchers from across the institutions to come together and work in a focused manner,” said V Ramgopal Rao, Director, IIT Delhi.

"Cognitive and sensing technologies are essential for the next-generation robotics, particularly for applications in the medical domain and digital health. I am confident that this collaboration will create an impact in this space and move the needle," Ranjan Bose, Director, IIIT Delhi said.

**IIT Delhi Students Oppose Hybrid Mode Exams, Raise Concerns of Non-uniformity**


Scores of student from Indian Institute of Technology (IIT), Delhi have alleged that the administration’s decision to conduct examinations in hybrid mode is not offering a level-playing field. Institute officials, however, rejected the allegation, saying there will be a single exam whether students appear for it from home or from the campus and there is no scope for any biases. (Representative image)

Examination environment is important and this disparity in and of itself creates a non-uniformity that is unfair, claim students

Students from the Indian Institute of Technology (IIT), Delhi have alleged that the administration’s decision to conduct examinations in hybrid mode is not offering a level-playing field. Institute officials, however, have rejected the allegation, saying there will be a single exam whether students appear for it from home or from the campus and there is no scope for any biases.
According to students, those who have returned to the campus have to report to their departments and appear for their exams in a classroom environment while those who have not returned yet have the option of taking online exams which will create a “non-uniformity”.

An online petition has been started by a few IIT students, raising the same issue. “Not everyone has onboarded, which means there is a substantial number of people who would still be taking exams from the comfort of their homes. We cannot have this for the same reason we don’t have 50 per cent of students taking JEE at home and the rest being called to exam centres. Further, examination environment is important and this disparity in and of itself creates a non-uniformity that is unfair,” said the petition.

“We have received the notification of offline majors on very short notice, by the time most people had either offboarded or booked tickets home. We don’t see why the institute did not plan this earlier and why and how it is fair to ask offboarded students to book expensive tickets on short notice to travel from all over India and on board again when they should really be preparing for exams. This, especially when people who didn’t onboard aren’t expected to do the same,” it added.

Shantanu Roy, Dean, Academics, said, “There is no scope for any biases. As long as students are there on campus, I don’t see a problem in the reporting to the classroom and appearing in exams. The exam is the same for them and what is unfair in appearing in a classroom environment.”

Exclusive: IIT Delhi seeks Centre's nod to open campuses in Egypt, Saudi


If approved, it will start a new chapter for the IIT system, and help IIT Delhi to become a global education player instead of just a domestic elite school.

The Indian Institute of Technology in Delhi (IIT Delhi) has sought approval from the government to open two overseas campuses – one in Egypt and another in Saudi Arabia.

The IIT Delhi authorities have had discussions with both the countries. Once it gets the green light from the Indian government, IIT Delhi will start work on setting up the two campuses. The funding will be done by the respective governments of the host countries either directly or through a dedicated system, according to officials in the know.

IIT Delhi Director V.Ramgopal Rao confirmed the development. “We are a Government of Indian institute, and we have sought approval from the union education ministry for the foreign campuses,” he said but refused to share more details.

If approved, it will be beginning of a new chapter for the IIT system. It will also allow IIT Delhi to become a global education player, instead of being just a domestic elite school. The development will also take IIT Delhi closer to Africa and Europe, and help attract foreign students to its campuses in India, Egypt and Saudi Arabia. Lack of internationalisation has been negatively impacting the global rankings for IITs.
The foreign campuses will offer bachelor’s degree in engineering and science. But it won’t be called BTech as a BTech from any IIT needs adherence to the Joint Entrance Examination (JEE) system. Instead, admission to these campuses can happen through some other global engineering and science entrance exams without compromising the quality standard for which IITs are known for, said a second official, also requesting anonymity.

“IIT Delhi is looking to start with around 250 students at each of the campuses at the bachelor’s level. Gradually, the numbers will increase and post-graduate and doctorate level courses will be added,” said the second official. The proposal is with the education ministry for the past few months.

Unlike at the Delhi campus, students in overseas campuses will not get subsidised education, and their fees will be marked to market. Out of the four years of bachelor’s degree in these two campuses, the students will be allowed to spend one year at the Delhi campus.

While the fees received in the foreign campuses will not be ploughed back to the main campus in Delhi, the students’ fees paid for the education at the Delhi campus will stay with them. It means, only one of the four years’ fees can come to the Delhi campus, as per the proposal.

IIT Delhi had been exploring ways to expand its footprint overseas since the past couple of years after its attempt to open a campus in Mauritius was shelved at least six years back due to lack of government cooperation.

The institute had progressed well to establish a research academy in Mauritius in 2013 and started work on it in 2014 but it was sent to the backburner after the HRD ministry (now education ministry) questioned the legality of such a move. The IIT subsequently brought back its faculties, including Professor SM Ishtiaque, who was leading the Mauritius project.

The year 2021 gives a much brighter prospect because of two key reasons – one, the new education policy supports quality Indian institutions opening foreign campuses, and two, Prime Minister Narendra Modi during a function at IIT Guwahati last year had asked IITs to think about expansion “beyond boundary.

IIT Delhi to follow a diversified approach towards education

IIT-Delhi is gradually moving towards diversification of subjects. In addition to the core engineering, the institute plans to focus on teaching non-technical subjects. The aim is to broaden the horizons and make it an institute offering quality education in diverse domains.

Talking to Education Times, Ramgopal Rao, director, IIT Delhi said, “We have been following what the National Educational Policy, 2020 (NEP) envisages by adopting a multidisciplinary approach towards education. In the last five years, we have started six new academic units. Some of them have been created as fresh new units and some have been redesigned from the older units.”

The institute has 10 new academic units including the School of Public Policy and there are plans to start a School of Interdisciplinary Research and Bachelors in Design.

“The Tata Trust has given us a grant of Rs 50 crore, which is being used to recruit qualified academics. This will help us create a qualitatively strong course. We have close to 100 PhD students in the interdisciplinary school now. All students joining the school of interdisciplinary research will have two supervisors from two different academic units. This process will also facilitate interaction across the departments. We also have a department of Design and we are in the process of starting a Bachelor’s in Design course from the next academic session. We are doing all this to become a comprehensive institute and just limited to Engineering courses.”

In the last few years, IIT-Delhi has started five bachelor degree programmes, five BTech programmes, eight MTech programmes, two MSc programmes, one masters in Public Policy, six masters programme in Sciences and research. These programmes are just started, further adds Rao.
IIT Delhi would hold its 52nd convocation on November 13, 2021.

'Will take time to be in top 100': IIT Delhi director on international rankings


IIT Delhi: Along with the 10 new academic units, IIT Delhi has also launched 5 new BTech programmes, 8 MTech degrees, 2 MSc courses this year.

Indian Institutes of Technology (IITs) are losing out on international ranking because we are narrowly focused on engineering, IIT Delhi Director V Ramgopal Rao said on the eve of the 52nd convocation. “We are not comprehensive enough when it comes to university ranking. Will take some more time to get into the top 100. In terms of academic programmes, we are following what the National Education Policy (NEP 2020) talks about, multi-disciplinary education,” he said.

Addressing the press conference, Ramgopal Rao said, “In the QS World University Rankings 2022 edition, IIT Delhi was featured among the top-200 world institutions with an improved rank of 185 amongst 1300 globally ranked institutes. Rankings have improved and will only get better.”
IIT Delhi has secured 54th rank in Engineering & Technology Category in QS World Rankings by subject (2021). However, he said, “One of the reasons why we are losing out on international ranking is because we are narrowly focused on engineering.”

“We are not comprehensive enough as compared to other foreign universities, especially in the US. Therefore, with all the steps we have taken to become more comprehensive and rankings will only improve,” the IIT Delhi director said.

“In the last five years, we have launched a total of 10 new academic units starting from the School of Public Policy and we are also recruiting faculty members aggressively, he added.

Along with the 10 new academic units, IIT Delhi has also launched 5 new BTech programmes, 8 MTech degrees, 2 MSc courses this year.

In terms of other rankings, the Institute has also been ranked 45th in QS Asia University Rankings, 2022 Edition. “I am also pleased to share that IIT Delhi has secured an NIRF rank 2nd in Engineering and 5th in Management respectively,” the director said during the convocation ceremony today.

Talking about the gender ratio in IITs, he said that IIT Delhi is doing much better compared to other universities. The institute had conducted a workshop for women after the JEE Advanced 2021 and briefed them as to why they should take admission in IIT Delhi.

This year 1508 postgraduate students (non-PhD) and 453 PhD students have been admitted to IIT Delhi. We have 16.56% girls in the undergraduate programmes and 25.30% overall.

Speaking about resuming offline classes, the director said, "By November, we will have the first-year students attending in-person classes, and by January 2022, we are expecting to go back to the normal mode of teaching, of course following all the precautions."

IIT Delhi 52nd convocation awards 2117 students: Top speakers say what every engineering student needs to hear


IIT Delhi conducted its 52nd convocation ceremony on Saturday wherein 2117 students were awarded degrees and diplomas. Here’s what the top speakers had to say to the fresh graduates.
IIT Delhi conducted its 52nd convocation ceremony on Saturday wherein 2117 students were awarded degrees and diplomas. Here's what the top speakers had to say to the fresh graduates.

IIT Delhi conducted its 52nd convocation ceremony on Saturday in the offline mode and 2117 students were awarded degrees and diplomas. Padmasree Warrior, a distinguished alumna and Founder and CEO of Fable (former CEO, NIO US and CTO, Cisco and Motorola), addressed students as the chief guest at the event.

IIT Delhi awards students in several categories every year at the annual convocation ceremony such as the President’s Gold Medal, Director’s Gold Medal, Perfect Ten Gold Medal, Institute Silver Medal and Donor Awards. The Alumni Awards are also presented to its esteemed alumni.

Graduating students who received degrees and diplomas

Here’s a quick list of the number of students who received degrees and diplomas in each category:

**UG programmes**

1. BTech: 734
2. Dual Degree (BTech and MTech): 97
3. BTech and MTech under Advanced Standing: 06
4. MTech (05-Year Integrated Programme): 04
5. Undergraduate Diploma: 02

**PG Programmes**

1. PhD: 288
2. MTech: 608
3. MBA: 157
4. Master of Science: 151
5. Master of Science (Research) MSR: 26
6. Master of Design: 21
7. PG Diploma of IIT Delhi (Naval Construction): 19
8. Diploma of IIT Delhi (DIIT): 04

**Medals awarded to super achievers**

Here’s a list of the meritorious students with exceptional achievements:

- President’s Gold Medal: Ananye Agarwal, BTech in Computer Science and Engineering
- Director’s Gold Medal: Shreyansh Chanani, BTech in Production and Industrial Engineering
- Perfect Ten Gold Medal: Ajmera Sanketh Kumar, MS(R) in Mechanical Engineering
- Institute Silver Medal: Aditya Singla, MTech in Thermal Engineering and BTech in Mechanical Engineering

Other awards have also been established by donors.

At the 52nd Convocation, IIT Delhi also presented coveted Alumni Awards 2021 to its esteemed alumni in Teaching and Research, Entrepreneurship, Corporate Leadership categories.

The Distinguished Alumni Award (DAA) was presented to six alumni, the Graduates of Last Decade (GOLD) Award to four alumni, and the Distinguished Alumni Service Award (DASA) one alumnus.

**What the chief speakers told IIT Delhi students**

Addressing the graduating students, Padmasree Warrior congratulated them virtually and said, “The future that we will inhabit will be planned and built by YOU.”

“As technologists graduating from one of top Institutions of Technology in the world, you must ask yourself what will you build and how will you lead us into the future with the power of technology?” she said.

“This brutal rigor (IIT Delhi’s tough curriculum) taught me how to problem-solve from first principles a great skill for engineers and technologists to possess,” Warrior said.

“If you are confident about problem-solving capabilities, you can be successful in any role in any industry, which in turn boosts your self-confidence. This may sound simplistic, but trust me, problem-solving skills come in handy to build resilience in your life,” she said.
She added, “Success is never easy. It will often take a lifetime of hard work, personal sacrifices, and dealing with frustrations. Take this as fundae from one of your seniors after years of coping with the brutal exams at IIT Delhi the life ahead will be a piece a cake”.

Dr. Rajagopala Chidambaram, Chairperson, Board of Governors, IIT Delhi and former Principal Scientific Advisor to the Government of India addressing the graduating students said, “India of our dreams, particularly of young people like you, is an India which is economically developed.”

He called for an India where the Human Development Index is high; which is scientifically advanced, with a knowledge economy, and an RDI ecosystem, with excellence in basic research, applied research, technology development, R&D-led innovation, backed by high-quality manufacturing skills.

“You, young people, who are graduating today must also have an appetite for risk-taking,” he said.

Dr. Chidambaram further said, “We need close interaction among our academic institutions mission-oriented agencies and other national labs. This is being achieved by IIT Delhi, credit for this goes to the leadership provided by Prof. Ramgopal Rao.”

He lauded the recently set up DRDO centre at IIT Delhi, and appreciated the fact that more than 1400 IIT Delhi courses have been digitized in the last 18 months.

“Under the e-VIDYA initiative, jointly with 5 ed-tech companies, over two dozen online certificate programmes have been launched,” he said.

**What IIT Delhi Director Prof V Ramgopal Rao said**

At the 52nd Convocation, Prof V Ramgopal Rao, Director, IIT Delhi presented the Director’s report.

He spoke about IIT Delhi’s swift move to the online mode, including sufficient outreach, surveys and initiatives to support students who are studying digitally now, online doctoral defence for PhD students, availability of library books through the internet, etc.

“IIT Delhi research groups and start-ups created significant impact in our fight against Covid-19 touching more than a million lives. Multiple diagnostic and protective solutions were brought to the masses by the efforts of the IIT Delhi community through licensing route or by its incubated start-ups,” said the director.

While highlighting the Research & Development activities at the institute, Prof Rao said, “In the last financial year, despite the Covid caused disruptions, our faculty members received approvals for a total of 253 sponsored projects with a total value of Rs 206 Crores.”

“In the last financial year, a total of 342 consultancy projects were sanctioned with a total value of Rs 34.11 Crores including 51 projects undertaken through FITT. Institute also received 19 high value projects valued more than Rs 1 Crore each,” he added.

He also spoke on the soon-to-be inaugurated IIT Delhi’s Research and Development Park.
USD 10 million gift from IIT Delhi alumnus

Anant Yardi, President and Founder of Yardi Systems, and a 1968 batch IIT Delhi alumnus, has agreed to gift USD 10 million (Rs ~75 Cr) to IIT Delhi.

Yardi Systems, founded in 1982 by Anant, is a leader in real estate asset and property management solutions and the largest real estate software provider in North America.

Yardi’s gift would enable IIT Delhi to create state-of-the-art laboratories and attract talented students and researchers to its newly established School of Artificial Intelligence (ScAI).

The School of Artificial Intelligence was set up by the Institute for the express purpose of expanding opportunities for fundamental, and inter-disciplinary research, innovation, and post-graduate education in Artificial Intelligence (AI), Machine Learning, and Data Science technologies.

IIT Delhi Alumnus Mr. Anant Yardi contributes USD 10 Million to create State-of-the-Art Laboratories


IIT Delhi alumnus Mr. Anant Yardi recently made a contribution of USD 10 Million for the School of Artificial Intelligence, IIT Delhi. The contribution would help the institute to attract talented researchers to the School of AI and also create State-of-the-Art Laboratories.
KEY HIGHLIGHTS

- Recently, IIT Delhi's alumnus Mr. Anant Yardi contributed USD 10 Million for the School of Artificial Intelligence, IIT Delhi.
- An M.S. in Engineering from the University of California and a B.Tech from IIT Delhi, Mr. Yardi is recognized as the early pioneers in the commercial real estate automation industry.
- The contribution made by him would help to create State-of-the-Art Laboratories.

Indian Institute of Technology or IIT Delhi Alumnus Mr. Anant Yardi recently, contributed USD 10 Million to the institute. Mr. Yardi is the President and Founder of the Yardi Systems. The contribution would enable the institute to create State-of-the-Art Laboratories. It would also help to attract researchers and students to the newly developed school of Artificial Intelligence.

Yardi Systems was founded in 1982 by Mr. Yardi and is a leader in real estate assets and property management solutions. It is also the largest real estate software provider in North America. IIT Delhi recently, set up the School of Artificial Intelligence with the aim to increase inter-disciplinary opportunity and research in Artificial Intelligence. It also aims to increase research and innovation in Data Science and Machine Learning Technologies.

While accepting the proposed gift, the Director of IIT Delhi, Professor V. Ramgopal Rao, addressed the media in the 52nd convocation ceremony of the institute. He mentioned that the institute is proud of its successful alumni who received both national and international recognition. He further said that the institute is grateful for the consideration that has been considered by Mr. Anant Yardi.

Rao also highlighted that the future growth and progress of a nation would depend on its Artificial Intelligence capability. He said, "This generous gift will catalyse cutting edge research in AI and related areas and proper ScAI and IIT Delhi in their quest for building better solutions for the benefit of our Society, Environment, Industry and Nation."

While highlighting the reason behind the contribution, Mr. Anant Yardi mentioned that Artificial Intelligence technologies are driving a global transformation. He also highlighted that AI plays a pivotal role in social, environmental, and industrial development. He further said, "I am pleased to contribute to the School of Artificial Intelligence and help IIT Delhi continue its outstanding work in the field of academic and engineering."

Future leaders should know how to lead with blurring of boundaries between work, home, society: Fable CEO Padmasree Warrior at IIT-D convocation

Warrior highlighted some key technology trends that graduating students should watch out for, including digital transformation, AI and data, sustainability and climate tech, bioinformatics, cybersecurity, and cryptocurrency.

Padmashree Warrior speaking at the 52nd convocation of IIT-D.

Padmasree Warrior, Indian Institute of Technology-Delhi (IIT-D) alumna and founder & CEO of Fable – a virtual book club app – on Saturday said leaders of the future needed to learn how to lead in the post-pandemic world where there are “no boundaries between work, home, and society”. She was speaking at the 52nd convocation of IIT-D.

Addressing graduating students virtually from Chicago, Warrior, who’s also a board member at Microsoft and Spotify, said, “In my view, leaders of the future must know how to lead when there are no boundaries between work, home, and society. We all experienced this blurring of boundaries in 2020. When I started my career – work, home, and society had a clear separation. This is not the case anymore. We work from home, and our work is influenced by (and, in turn, influences) society, politics, culture. As leaders we cannot turn a blind eye or close our ears to everything that is happening around us.”

“As future leaders you must develop and exhibit three important skills. First, empathy – the ability to bring opposing viewpoints together. Second, active listening – the aptitude to understand issues deeply, going beyond the surface level. Third, the ability to learn – this is the most important ability for a leader, especially in the fast-paced technology industry,” she said.

Warrior also spoke of ‘The Global Mental Wellness Movement’ post-pandemic and the role of corporations. “Today, coping with burnout, stress, and depression is the burning platform. Corporations must provide employees with the support they need to improve retention, and doing nothing will only reinforce an outdated stigma,” she said.
Warrior highlighted some key technology trends that graduating students should watch out for, including digital transformation, AI and data, sustainability and climate tech, bioinformatics, cybersecurity, and cryptocurrency.

IIT-D Director V Ramgopal presented his report and mentioned all the steps taken by the university during the pandemic, as well as the opening of new centres and departments. He also reminded students to “pay their debt” at some point.

“I am sure that you would work for a better world where science and technology are used in socially-responsible ways, and in harmony with nature. We wish to see you become job providers and not remain as job seekers forever,” he said.

“Do not also forget that your education here was subsidized anywhere from 100% to 70% from the taxpayer’s money, the money that could have gone to provide food for a hungry child. You need to pay back your debt at some point in time. That is the only way India can nourish and sustain excellence in her higher educational Institutions,” he added.

A total of 288 PhD students, 843 undergraduate students, and 986 postgraduate students received their degrees on Saturday. The convocation was conducted in hybrid mode in parallel venues – all visible to one another – keeping in mind Covid-19 protocols.

**IIT Delhi plans to start offline classes from January next year: Director V Ramgopal Rao**


Core courses in different disciplines will go offline first and the elective courses will be continued online, he said. Roy said that they were discussing plans of holding offline examinations in the future.

Indian Institute of Technology (IIT) Delhi aims to fully resume physical classes from January following all COVID-19-related precautions, its director said on Friday.

"By November, we will have the first-year students attending in-person classes, and by January 2022, we are expecting to go back to the normal mode of teaching, of course following all the precautions," IIT Delhi Director V Ramgopal Rao said at a press conference.

Shantanu Roy, Dean Academics, said onboarding of students into hostels will take place in a graded manner to ensure compliance with all safety measures and protocols.

"Over a period of time, if things remain well, we expect the DDMA (Delhi Disaster Management Authority) order to offer further relaxations. We will then start moving to actual classrooms. Not all courses will go offline immediately. Core courses in different disciplines will go offline first and the elective courses will be continued online," he said.

Roy said that they were discussing plans of holding offline examinations in the future. However, a cap on 50 per cent occupancy in classrooms will continue at all times.
"The modalities of the mapping of classrooms, number of students in a course, and the courses that will be prioritised will be done as per an elaborate plan that we have worked out. However, classes will begin online to begin with," he added

**IIT Delhi establishes state-of-the-art laboratories at Centre for Automotive Research, Tribology**


*Indian Institute of Technology, (IIT) Delhi’s CART is a new centre established in May 2019 to focus on electric vehicle technologies.*

State-of-the-art Battery Research, Charging Infrastructure and Automotive Health Monitoring (AHM) laboratories have been recently inaugurated at the Centre for Automotive Research and Tribology (CART), IIT Delhi. Indian Institute of Technology, (IIT) Delhi’s CART is a new centre established in May 2019 to focus on electric vehicle technologies.

V Ramgopal Rao, Director, IIT Delhi inaugurated the laboratories in the presence of AK Ganguli, Deputy Director, (Strategy & Planning); BK Panigrahi, Head, CART and other senior functionaries of the Institute.

Speaking on the occasion, Ramgopal Rao said, “CART at IIT Delhi has collaborated with various automotive industries in the country and working to solve technological challenges faced by them. These laboratories will take the ongoing research work at CART to a new level and many cutting-edge technologies will reach to the industry from here.”

“The Battery Research laboratory is equipped with advanced equipment for battery testing at cell, module and pack levels. Apart from the batteries, testing on Battery Management System (BMS) in master-slave configuration is carried out to check any faulty cell condition, by integrating cloud BMS and Digital Twin,” the official statement read.
The official notice further said that the AHM laboratory is equipped with high-end equipment for condition monitoring and automotive Noise, Vibration and Harshness (NVH) testing. “The team uses different diagnostic techniques such as vibration analysis, current monitoring, noise monitoring, infrared thermography, acoustic emission etc. for the fault detection using Artificial Intelligence (AI) and Internet of Things (IoT),” it added.

**IIT Delhi Sets up 3 Labs for Research in E-vehicles**


---

IIT Delhi inaugurates the Battery Research, Charging Infrastructure, and Automotive Health Monitoring (AHM) labs

**CART was established at IIT Delhi in May 2019 to conduct research in the areas of battery-operated electric vehicles, alternate energy sources, autonomous and connected vehicles.**

The Indian Institute of Technology (IIT) Delhi has recently inaugurated the Battery Research, Charging Infrastructure, and Automotive Health Monitoring (AHM) laboratories at its Centre for Automotive Research and Tribology (CART).

CART was established at IIT Delhi in May 2019 to focus on electric vehicle technologies and conduct research and development in the areas of battery-operated electric vehicles, hybrid electric vehicles, storage, and alternate energy sources, autonomous and connected vehicles.

The Battery Research laboratory at CART is equipped with advanced equipment for battery testing at the cell, module, and pack levels. Apart from the batteries, testing on Battery
Management System (BMS) in master-slave configuration is carried out to check any faulty cell condition, by integrating cloud BMS and Digital Twin.

The AHM laboratory features equipment for condition monitoring and automotive Noise, Vibration, and Harshness (NVH) testing. The lab team uses different diagnostic techniques such as vibration analysis, current monitoring, noise monitoring, infrared thermography, acoustic emission, etc for fault detection using Artificial Intelligence (AI) and the Internet of Things (IoT).

The Charging Infrastructure laboratory is equipped with Battery Test System, Regenerative AC Emulator, and the Charging Discovery System (CDS). Prof BK Panigrahi, Head, CART explains, “The CDS is used as a universal charging infrastructure, which enables to test Electric Vehicles (EVs), and Electric Vehicle Supply Equipment (EVSE). The comprehensive charging infrastructure laboratory provides extensive testing capability of entire charging functions of electric vehicles and chargers.”

Speaking on the occasion, Prof V Ramgopal Rao, Director, IIT Delhi said, “CART at IIT Delhi has collaborated with various automotive industries in the country and working to solve technological challenges faced by them. These laboratories will take the ongoing research work at CART to a new level and many cutting-edge technologies will reach the industry from here.”

**IIT Delhi to conduct its 52nd Convocation on November 13 - Details on convocation.iitd.ac.in**


IIT Delhi would conduct its convocation on November 13, 2021, for the current year. The 52nd convocation would be conducted with adherence to COVID-19 guidelines. More details can be found on convocation.iitd.ac.in.
KEY HIGHLIGHTS

- The 52nd Convocation of IIT Delhi would be conducted soon on November 13, 2021.
- This year the Chief Guest of the convocation is Ms. Padmasree Warrior, IIT Delhi Alumni and Founder & CEO, Fable.
- Candidates can find more details about the Convocation on convocation.iitd.ac.in.

Indian Institute of Technology or IIT Delhi would soon conduct its 52nd Convocation. The institute would conduct the convocation on November 13, 2021. More information about the Convocation can be found on the official website-convocation.iitd.ac.in.

Further, this year, the Chief Guest of the Convocation is Ms. Padmasree Warrior, Distinguished Alumna, IIT Delhi. Ms. Warrior is also the Founder and CEO of Fable. Previously, she was associated with CTSO CISCO, CTO Motorola Inc. Ms. Warrior was also the CEO of NIOS US.

With regards to being the Chief Guest of the Convocation, Ms. Warrior mentioned over Twitter, "Such an honor to speak with all of the new grads from my alma mater." IIT Delhi's Convocation would be conducted with strict adherence to COVID-19 guidelines such as wearing masks, maintaining social distancing, and others.
Such an honor to speak with all of the new grads from my alma mater 🙏

The Institute welcomes Chief Guest Ms @Padmasree Warrior, a Distinguished IIT Delhi Alumna and Founder & CEO, @GetFable.

IIT Delhi Convocation Date

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convocation Date</td>
<td>November 13, 2021</td>
</tr>
</tbody>
</table>
Further, Prof. V. Ramgopal Rao, Director, IIT Delhi took to Twitter and mentioned that the convocation would be conducted with all the COVID-19 guidelines that have been issued by the Delhi government. He mentioned, "IIT Delhi #convocation this year will be in regular mode. Less of avatars, virtual realities and more of real students having real experiences on the campus. All Delhi government #covid norms will be followed. Sign of normal times returning."

Happy Deepawali. 🎈🎉✨
@iitdelhi
Further, Prof. Rao also mentioned that a major announcement would be made by IIT Delhi at the time of the Convocation. Details such as the Schedule of the Convocation, News and Announcement about the Convocation would be soon available on convocation.iitd.ac.in. Along with Prof. Rao, Ms. Warrior, the dignitaries in the Convocation also includes DR. Rajagopala Chidambaram, Chairperson Board of Governors, IIT Delhi.

**QS Asia University Rankings 2022: 687 varsities ranked, no Indian institute in top 10**


The QS Asia University Rankings 2022 comprised 687 varsities from the continent with no Indian varsity in the top 10. The India list is ruled by IIT Bombay, IIT Delhi and IIT Madras. Check the top 10 lists here.

QS Quacquarelli Symonds, global higher education think-tank and compilers of the world’s most-consulted university rankings portfolio, released the QS Asia University Rankings 2022 recently for the continent’s best higher education institutions. The National University of Singapore has come up as Asia’s best university for the fourth consecutive year.

The top-10 list doesn’t feature any Indian university. This year, 117 Indian universities were considered in the QS Asia University Rankings 2022 Indian welcomed 10 new entrants. Of them, 7 bagged a spot in the top 100.

**The top three Indian universities to feature on the Asia Rankings are IIT Bombay (Rank 42), IIT Delhi (Rank 45), and IIT Madras (Rank 54).**

The top central universities to feature on the rankings are Delhi University at Rank 77 and JNU at Rank 107. Among state-run universities, Calcutta University ranked the highest at Rank 154.

The overall top 10 universities in the QS Asia University Rankings 2022 remain unchanged from last year even though a few of their ranks have changed. Two are from Singapore, one from Malaysia, and the rest are from Hong Kong and China.

The QS World University Rankings 2022 for higher education institutes across the world were released early June and no Indian institute had secured a position among the top 100 universities of the world.

Three Indian institutes made it to the top 200 list -- Indian Institute of Technology Bombay (IITB) (Rank 117), Indian Institute of Technology Delhi (IITD) (Rank 185), and the Indian Institute of Science (IISc) (Rank 186).

For the Asia-specific version released on November 3, QS compared the top 687 universities in Asia across eleven key indicators of university performance, which capture academic standing, graduate employability, research quality, web presence, internationalization on campus, and the diversity of each institution’s international collaborations.
QS Asia University Rankings 2022: Top 10

1. National University of Singapore (NUS)
   Location: Singapore

2. Peking University
   Location: China (Mainland)

3. Nanyang Technological University (NTU)
   Location: Singapore

4. University of Hong Kong (HKU)
   Location: Hong Kong SAR

5. Tsinghua University
   Location: China (Mainland)

6. Zhejiang University
   Location: China (Mainland)

7. Fudan University
   Location: China (Mainland)

8. Universiti Malaya (UM)
   Location: Malaysia

9. The Hong Kong University of Science and Technology (HKUST)
   Location: Hong Kong SAR

10. Shanghai Jiao Tong University
    Location: China (Mainland)

QS Asia University Rankings 2022: Top countries with most ranked universities

The 687 top universities of Asia as per QS come from 18 locations and the most represented is Mainland China with 126 ranked universities.

Also, Japan has more universities in the top 50 of the ranking (11 universities) than any other nation, location, or territory. It is followed by Mainland China with 10 varsities in the top 50.

The top 8 countries with the most universities are:

Mainland China (126)
India (118)
Japan (108)
South Korea (87)
Taiwan (46)
Pakistan (47)
Malaysia (36)
Indonesia (34)

QS Asia University Rankings 2022: Top 10 from India

India doesn’t have a great score in the QS Asia University Rankings 2022. It lost out due to research quality not matching its quantity. The teaching capacity and employability scores of Indian universities are also a reason behind the low rankings.

Nevertheless, as per research productivity, six universities out of the top 10 in Asia are from India.

Here are the top 10 Indian universities among the QS Asia University Rankings 2022:

1. Indian Institute of Technology Bombay (IITB)
   Rank: 42

2. Indian Institute of Technology Delhi (IITD)
   Rank: 45

3. Indian Institute of Technology Madras (IITM)
   Rank: 54

4. Indian Institute of Science (IISc)
   Rank: 56

5. Indian Institute of Technology Kharagpur (IIT-KGP)
   Rank: 60

   Rank: 64

7. University of Delhi
   Rank: 77

8. Jawaharlal Nehru University
9. Indian Institute of Technology Roorkee (IITR)

Rank: 109

10. Indian Institute of Technology Guwahati (IITG)

Rank: 119