Freedom is not a mere matter of political decision or new constitutions... it is of the mind and heart and if the mind narrows itself and is befogged and the heart is full of bitterness and hatred then freedom is absent.

Jawaharlal Nehru
The PrashantAdvait Foundation founded by Acharya Prashant – an IIT alumnus and an exponent of pure Vedantic wisdom – held a Vedanta Mahotsav at IIT Delhi (Dogra Hall) from August 26 to August 28, 2022. During the three-day event, Acharya Prashant spoke on Science & Self Awareness and attendees asked Acharya-ji questions.

President of IIT Delhi Alumni Association, Kalpen Shukla, said: “IIT Delhi Alumni Association is proud to host a very interesting event Vedanta Mahotsav. Acharya Prashant has charted a very unique path for himself after graduating from IIT – Delhi and IIM – Ahmedabad. Now, he is showing others the benefits of his pursuits and enlightening millions through his engaging discourses.”

Acharya Prashant, an alumnus of both IIT & IIM, and an ex-Civil Servant interacted with the attendees on the topic of “Science and Self-awareness.” Through his deep understanding and study of Vedanta, Acharya-ji responded with deep insight into the human mind, bringing the questioner to a state of clarity and peace.

Gaurav Goyal, Treasurer of IIT Delhi alumni Association and Convener of Aarogyam Series, a healthcare and wellness initiative of alumni body, says, “Vedant Mahotsav was one of the most appreciated events which
attracted attention of IIT alumni across the globe and we aspire to do more such impactful events in Aarogyam series.”

Commenting on the Mahotsav, Rohit Razdan, member of the organizing committee said “Participants in the Vedanta Mahotsav come from all over the world, showing that Vedanta has solutions for all the issues which plague the human mind and mankind.”

Speaking about the event, Pankaj Kapadia of IIT’s Alumni Union said, “It is a pleasure to have Acharya-Prasant at IIT Delhi, where he was once a student. Today he is giving a new direction to the whole country and the world.”

Hundreds of similar Vedanta Mahotsavs have been held in the last ten years, in locations ranging from bustling metropolises to Himalayan hamlets, and thousands of seekers from India and abroad have benefited.

**Samsung India's Top 50 Teams Of Its Innovation Competition To Be Trained At IIT Delhi**

**August 26, 2022**

Samsung India on Friday announced the top 50 teams in its innovation competition -- Solve for Tomorrow -- and said they will attend a bootcamp at the Indian Institute of Technology (IIT) Delhi to be trained on design thinking and prototyping.

The competition, which is running for the first time in India, has seen teams from across the country help tackle problems that India faces in education, environment, healthcare and agriculture.

’The Solve for Tomorrow programme supports the journey of future young innovators by offering them guidance, support and a vision for creating a better tomorrow. We are excited about the 18,000 plus registrations we have received,’ said Partha Ghosh, Vice President, Corporate Citizenship, Samsung India.

At the end of the competition, three national winners stand a chance to get mega support of up to Rs 1 crore and mentoring support for six months to take their ideas to the next level under the expert guidance of IIT Delhi.

Entrants who have applied to the competition have taken inspiration for their innovations from all areas of society, including events from the past year, with ideas looking to tackle waste management, electricity and water wastage, plastic waste in the oceans, speech disorders, farm rodents as well as pandemic prediction and creating an affordable ECG device.

Many of the teams suggested solutions will use new-age technologies such as robotics, artificial intelligence and augmented reality.
IIT Delhi’s IHFC Gets 12 Projects Under DST-NSF Joint R&D Program

IIT Delhi’s Technology Innovation Hub IHFC has received 12 out of 35 research projects launched under the DST-NSF Joint Research and Development program.

IHFC (I-Hub Foundation for Cobotics), the Technology Innovation Hub (TIH) of IIT Delhi, has received 12 out of 35 research projects launched under the DST-NSF Joint Research and Development program. A total of 35 projects are being jointly funded under this program with an outlay of Rs46 crore (approximately $6 million).

A DST-NSF Joint Research and Development Project Kick-off Workshop was organized by the IHFC on August 8 and 9, 2022 in association with the DST, Government of India, and five other TIHs. The workshop was the first milestone towards the USA-India Bilateral Research Collaboration program, which was initiated in February 2022. Dr. Sethuraman Panchanathan, Director, National Science Foundation (NSF), US; Dr Akhilesh Gupta, Senior Adviser, DST; Prof. Rangan Banerjee, Director, IIT Delhi and Prof S.K Saha, Project Director, IHFC were present on this occasion along with other senior officials.

The workshop was organized to discuss how the projects to be implemented by the six Technology Innovation Hubs (TIHs) identified under NM-ICPS for collaborative research and development with NSF-supported institutions would leverage unique resources, such as testbeds and datasets available in India and in the US,
expand collaborations on critical technologies like AI and advanced wireless, and encourage student and researcher exchange programs.

“US is committed and proud to partner with India for prosperity and opportunity for all. These projects shall be aspirational and should be able to solve the societal problems,” Dr. Sethuraman Panchanathan, Director, NSF, said while addressing the workshop.

“US is our natural partner. Especially in science we have traditionally partnered and through collaborative projects the engagement will be deeper at the institution level, government level and even people level,” Dr. Akhilesh Gupta, Senior Adviser, DST, said.

During the kick-off workshop, all the six TIHs presented their project ideas and plans to the major stakeholders as well as their immediate peers. The six TIHs include TIH of IIT Delhi (I-Hub Foundation for Cobotics); TIH of IIT Bombay (Foundation for IoT and IoE); TIH of IIT BHU-Varanasi (IDAPT Hub Foundation); TIH of IIT Jodhpur (iHub DHRISHTI); TIH of IIT Madras (Pravartak Technology Foundation) and TIH of ISI Kolkata on Data Science, Big Data Analytics and Data Curation.

While speaking about the 12 projects IHFC-IIT Delhi would be working on along with research institutions from the USA, Prof S.K. Saha, Project Director, IHFC said, “We are delighted to have about 1/3rd of the sanctioned projects whose PIs are not only from IIT Delhi but also from several other institutes, e.g., Tezpur University, IIT Jodhpur, Roorkee, Mandi and Kanpur, IIIT Allahabad, CSIR-CMERI Durgapur. That shows national involvement of IHFC-IIT Delhi”.

During the workshop, Dr. Panchanathan along with the DST officials also released the compendium made by the IHFC, which summarizes all the projects at a glance in a booklet form for ready reference. This will help all the TIHs to learn from one another and collaborate better for future projects.
Piyush Goyal inaugurates tech research lab at IIT Delhi


The initiative was expected to be a game-changer at a time when the government was focused on making India a developed country, Goyal said.

Union Minister for Commerce and Industry Piyush Goyal inaugurates the Public Systems Lab at Indian Institute of Technology, in New Delhi on Tuesday. (ANI Photo/ PIB)(ANI/ PIB)

Union minister Piyush Goyal on Tuesday said that operations research, artificial intelligence, automation, and other techniques can be key pillars for a transformative change to make India a developed country.

While inaugurating a public systems lab (PSL) at Indian Institute of Technology (IIT), Delhi, Goyal said that the initiative was expected to be a game-changer at a time when the government was focused on making India a developed country.

“What better day to launch this initiative than the day when the nation enters the amrit kaal. The next 25 years are going to be a defining journey for India. Operations research, artificial intelligence, automation, and other techniques can be key pillars for a transformative change to make India a developed country. This lab, which we have started today will be the harbinger of what Prime Minister Narendra Modi has articulated as the big vision of India--a developed nation. The PSL can play a vital role in multiple ways,” Goyal said.
Under the new initiative, the United Nations World Food Programme (UNWFP) and the Foundation for Innovation and Technology Transfer at IIT Delhi have joined hands to establish the public systems lab for the development of scalable solutions for civic systems and services that impact millions. As part of the three-year agreement, the PSL will work closely with the WFP to identify projects around food systems and management and innovations.

One of the proposed initiatives of the PSL is to include a Public System Fellowship program under which the WFP and IIT Delhi will send experts to the ministry of food to support them in making food-based safety nets effective and efficient.

IIT Delhi Wins National Inter-College Crossword Expedition, IIM-Kozhikode 1st Runner UP Among 16 Other Finalists


The two-day Grand Finale of the inaugural National Inter-college Crossword Expedition (NICE 22) 2022 was held on 8-9th August 2022 at AICTE Auditorium, Nelson Mandela Marg, Vasant Kunj, New Delhi. Indian Institute of Technology, Delhi won the NICE-22 contest by securing 180 marks in the final tally. Indian Institute of
Management-Kozhikode and SABVMCRI, Bengaluru stood 1st and 2nd runner up with 160 and 120 marks, respectively.

The contest went through two stages – the first an online individual round and the second of five offline zonal finals involving teams of two students each from top-performing institutes. The five zonal finals were held in Guwahati (Northeast), Patna (East), New Delhi (North), Pune (West) and Bangalore (South).

16 teams from institutes of higher education across India participated in the contest to vie for the National Crossword Champion trophy of the three-stage contest that started with a Practice Round on April 2, 2022.

The teams qualified for the Grand Finale were Indian Institute of Science, Bangalore; the Muzaffarpur Institute of Technology, Government Engineering College, Vaishali, Acropolis Institute of Technology and Research, Indore (Two teams), Indian Institute of Technology, Delhi, University of Delhi, RV College of Engineering, Bangalore, Indian Institute of Management, Kozhikode, Nalanda College of Engineering, Chandi, Hansraj College, Delhi University, Scholar’s Institute of Technology and Management, Guwahati (Two teams); Shri Atal Bihari Vajpayee Medical College and Research Institute, Bangalore; MCE Society’s Allana College of Pharmacy, Pune and Jaypee Institute of Information Technology, Noida.

On the Inaugural Day (8th August 2022), the occasion was graced by Shri. Vivek Kumar Singh, IAS, Development Commissioner, Bihar sharing the benefits of Crosswords which helps in improving one’s mental thesaurus, being articulate and learning to face small challenges through crosswords which was followed by an address by Prof. Rajive Kumar, Member Secretary, AICTE welcoming everyone to AICTE.

National Crossword Champion cum Chief Arbiter, NICE 22 Shri. Ramki Krishnan also spoke on the occasion reminiscing his own past of participating in crossword competitions.

The expedition was officially inaugurated by Chief Guest Prof. Anil D. Sahasrabudhe, Hon’ble Chairman, AICTE urging the students to take up crosswords so as to increase your vocabulary of words, helping them in their career and life. He also talked about the schemes of AICTE particularly Pragati Scheme for Girls, Saksham for the disabilities and Swanath for the martyrs, widows and children whose parents expired from Covid. The competition was conducted by Mr. Alan B Cowell, Quiz Master NICE-22.

The Competition started with a pen and paper round followed by Azadi Ka Amrit Mahotsav Round for all the qualified teams. The top nine teams who scored the most, in both the initial rounds were qualified for the Quarter Final Rounds. Six teams qualified for the Semi-Finals and they were Indian Institute of Technology, Delhi; Nalanda College of Engineering, Chandi; Acropolis Institute of Technology and Research, Indore; Indian Institute of Management, Kozhikode; Shri Atal Bihari Vajpayee Medical College and Research Institute, Bangalore; Indian Institute of Management, Kozhikode. All the rounds were competed intensely and even the non-qualifiers lost-out by small margin. The day ended with a vote-of-thanks by Dr. Amit Dutta, Director, Student Development Cell, AICTE.

The Prize distribution was honoured by Prof. Anil D. Sahasrabudhe.
Harshul Sagar and Arush Utkarsh from IIT-secured the first prize stated that this contest has been a great opportunity to participate in this National Level Crossword Contest. Harshul said, "All the participants were highly competitive and demonstrated a great show during the contest. Whereas Arush said, "Such contests not only enhance our thinking ability but also give us ideas of managing our career challenges and daily activities as well."

Amar Mishra and Rajaram K. from IIM Kozhikode and and Ayedha Nimisha and Prathama Priyadarshini from SABVMCRI, Bengaluru participated in the crossword contest.

Both the days, large numbers of students from Kendriya Vidyalaya Sangathan and Novodya Vidyalaya Samiti Schools witnessed the expedition off-line along with Higher Educational Students Students. The Competition was telecast live on Youtube as well, where many viewers logged in.

Extra-C, a Patna-based civil society initiative, conducted all the contest starting from online to the Finale.

**IIT Delhi Organises Experiential Learning Expo for Over 3300 DSEU Students**


During the three-week academic visits organised by IIT Delhi, the DSEU students explored, and experienced hands-on learning in fitting, machining, sheet metal, welding, etc.

The Indian Institute of Technology (IIT) Delhi has collaborated with the Delhi Skill and Entrepreneurship University (DSEU) to conduct an experiential learning expo for over 3300 students of the skill university. It was organised during July this year at IIT Delhi as part of an academic collaboration between the two institutions.

Students from several engineering and non-engineering diploma programmes from DSEU took part in the expo. This includes students from mechanical, automobile, computer, and electrical, besides non-engineering diploma programme such as architecture, etc, as well as degree programmes such as BSc data analytics, BTech mechatronics, BTech electronics and communication, M Tech tool engineering, etc, from 12 campuses of DSEU visited IIT Delhi and interacted with its faculty and students.
During the three-week academic visits organised from July 4 to 25, the DSEU students explored, and experienced hands-on learning in fitting, machining, sheet metal, welding, etc, at the IIT Delhi’s central workshop. Other components of this collaboration included visits to IC Engine Lab, Electromechanics Lab, Polymer Chemistry Lab, Polymer Processing Lab, Concrete Structure & Technology Lab, Data Analytics Lab and Basic Electrical Lab.

“We were divided into groups of four and made to visit mechanical labs on a rotational basis. Upon entry, at each workshop a brief was given of the process and basic tools used. Later, all of us practiced the experiments explained and at the end a viva was also taken, which helped us recap our learnings of the day,” said Siddhi Jain, a BTech mechanical engineering student, while sharing her experience.

“DSEU works with the objective of adding value to the students and faculty through experiential learning and intensive hands-on practice. This academic collaboration with IIT Delhi is one such initiative. We are excited to hear our students’ experiences and hope they make the best of such opportunities”, Prof (Dr.) Neharika Vohra, Vice Chancellor, DSEU, shared.

“We are happy to extend our laboratory and research facilities to enhance the learning experience for DSEU students. Our collaboration with DSEU helps us increase our impact in the NCR region”, Prof. Rangan Banerjee, Director, IIT Delhi, said.

“Our sustainable development goals mention about smart resource planning and collaborations between academic institutions. We are excited to take a step forward in this direction and would like to extend gratitude towards IIT Delhi for this collaboration”, Prof. Vohra added.

IIT Delhi Is Partnering With Koo To Spread Awareness On Air Pollution

IIT Delhi will build an API that will be integrated with the Koo API to receive pollution-related data. This data will then be shared with users on the platform in their local languages through interactive videos and visual content.

The Indian Institute of Technology (IIT) Delhi has announced a partnership with Koo App to create awareness on the need to curb air pollution and build a cleaner environment. The partnership will reach a wider and more diverse audience, including first-time social media users, with content in local languages on pollution levels and possible remedies to curb the impact.

IIT Delhi, along with the Central Pollution Control Board (CPCB), has deployed sensors across multiple locations in India to track air pollution levels. IIT Delhi will build an API that will be integrated with the Koo API to receive pollution-related data. This data will then be shared with users on the platform in their local languages through interactive videos and visual content.
Koo will start a dedicated handle to raise awareness around air pollution, which will also offer advice from medical experts on safeguarding oneself. Public awareness through a partnership such as this is a crucial step towards lessening pollution levels and its impact on society.

This joint collaboration between IIT Delhi and Koo will commence as a pilot study for a duration of six months and will help to identify specific sources of pollution, which will support policymakers and the government with data-driven insights and evidence-based policymaking.

Professor Sagnik Dey, Institute Chair Professor, Centre for Atmospheric Sciences, Indian Institute of Technology Delhi believes air pollution is the largest environmental and health concern in India. “Without public support and mass awareness, the issue of air pollution cannot be resolved. I am excited to be part of this pilot project, which will explore people’s perception about air pollution and promote clean air practices. This will allow us to develop a more effective communications strategy and increase people’s participation.”

Aprameya Radhakrishna, Co-founder and CEO, Koo said, “Social media is for public good. As a responsible platform which has raised awareness on issues of public concern, Koo is best positioned to work jointly with IIT Delhi to address the issue of air pollution. Through the Multi-lingual Kooing (MLK) feature, Koo can help to build awareness at the individual, community and government levels. Together, we can ensure that concerns related to air pollution cease to be a part of our children’s future.”

IIT-Delhi researchers' tool could help in timely detection of epilepsy


The researchers have devised the tool which requires no surgery for treatment of this neurological disorder.

Researchers at the Indian Institute of Technology (IIT), Delhi have come up with a non-invasive, time-efficient and patient-friendly diagnostic tool for focal epilepsy detection.

The team has proposed an electroencephalogram-based brain source localization (BSL) framework for epileptogenic zone detection. The study, titled 'Anatomical harmonics basis based brain source localization with application to epilepsy', has been published in the Nature's Scientific Reports.

Epilepsy is fourth most common neurological disorder in the world and affects millions worldwide. It involves brief episodes of involuntary body (partial/entire) movement called seizures and may be accompanied by loss of consciousness and control of bowel or bladder function, primarily due to erroneous excessive electrical discharges.

According to officials, quite a lot of epilepsies can be controlled by medicines. However, when medicines fail to control seizures, it is labelled as drug resistant epilepsy.

Drug resistant epilepsies are most likely to originate from structural abnormalities of brain and hence brain surgery offers a complete cure for these patients, provided the exact origin and extent of abnormality is identified by a neurosurgeon.
The most complex and tedious task in surgical evaluation is to determine the origin of electrical abnormality and correlate it with structural abnormality of the brain, they said.

"Given the EEG data with seizure, the array processing algorithms can point the coordinates within minutes. We have proposed utilization of spherical harmonics and head harmonics basis functions for seizure Localization. To the best our knowledge, this is the first attempt in non-invasive and time efficient seizure Localization," said Lalan Kumar, Department of Electrical Engineering, IIT Delhi.

"The researchers have validated the proposed source localization algorithms on clinical EEG (electroencephalogram) data for epileptogenic zone localization. The proposed framework offers an effective solution to clinicians in automated and time efficient seizure localization. It is a breakthrough considering comfort of patients," he added.

Amita Giri, a Prime Minister’s Research Fellow (PMRF) in the Department of Electrical Engineering at IIT Delhi, has developed the novel epileptic region detection method as a major part of her PhD work. Other members of the team included Tapan K Gandhi, Professor at IIT Delhi, and Nilesh Kurwale, Deenanath Mangeshkar Hospital and Research Center, Pune.

**IIT Delhi can explore possibility of its campus in UAE, says Subhas Sarkar**


In a meeting between Department of Education and Knowledge, Abu Dhabi (ADEK) and IITD both sides expressed willingness to work on this project.

The Centre has requested IIT, Delhi to explore the possibility of establishing a campus in the UAE.

The Indian Institute of Technology (IIT) Delhi has been asked by the government to explore the possibility of establishing a campus in the United Arab Emirates (UAE), Subhas Sarkar, minister of state for education informed the Lok Sabha on Monday.

The move comes after the Joint India-UAE Vision Statement issued on February 18, 2022 after a virtual summit between the leaders of the two countries. According to the statement ‘the leaders of the two countries agreed to establish an Indian Institute of Technology in the United Arab Emirates’ after the meeting.

Furthermore, the Centre has requested the IIT, Delhi to explore the possibility of establishing a campus in the UAE, Sarkar said. “IIT Delhi requested the Indian Ambassador to UAE to identify and arrange a meeting with the relevant UAE authorities. Accordingly, the Department of Education and Knowledge, Abu Dhabi (ADEK) was identified as the relevant UAE authority,” the minister added.

The statement further said that in the first Department of Education and Knowledge, Abu Dhabi (ADEK) and IITD meeting, both sides made presentations about their respective organisations and conveyed their eagerness and enthusiasm to move forward with this project.
It added that during the second meeting, ADEK invited representatives from the Department of Economic Development and from the Advanced Technology Research Council (ATRC) who made presentations on the economic vision and research priorities of Abu Dhabi respectively.

According to the statement, during the second meeting, IIT Delhi made a presentation on the model followed for mentoring new IITs by the older IITs and shared its experiences in mentoring IIT Ropar and IIT Jammu.

The Indian Institute of Technology, Delhi is a research university and engineering institute located in Hauz Khas in South Delhi, Delhi, India. It is one of the oldest Indian Institutes of Technology in India which has its branches in different parts of the country.