



# AAIP

ALUMNI AFFAIRS AND INTERNATIONAL PROGRAMMES  
INDIAN INSTITUTE OF TECHNOLOGY DELHI

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INDIAN INSTITUTE OF TECHNOLOGY DELHI

## IIT Delhi holds 50th Annual Convocation



IIT Delhi hosted its 50th Convocation Ceremony on 2nd November 2019, where Dr. K Sivan, Chairman, ISRO, was invited as the Chief Guest. To mark the milestone, the institute released a commemorative stamp with a unique cover. Prof. V. Ramgopal Rao, Director, IIT Delhi, presented a brief report highlighting previous achievements, future activities, and plans. Degrees were awarded to 2042 graduating students (1217 Post Graduate including Ph.D and 825 Under Graduate).

Addressing the graduating students on the occasion, Dr. K Sivan said, "I am an alumnus of IIT-Bombay, and from my personal experience, I can say that IITs are the holy grail of technical education in India. And I am sure that you all will continue the glorious tradition of Delhi as well as that of IITians who have excelled in every field they have worked." The Convocation Ceremony also saw several students being awarded Gold and Silver medals for excellent academic performances.



The institute conferred the Distinguished Alumni award for the year 2019 to Dr. Mohit Aron, Dr. Srinivasan Keshav and Mr. Binny Bansal, for exceptional service towards the institute, Mr. Amarjit Singh Bakshi and Mr. Arun Duggal were awarded the Distinguished Alumni Service Award. There were also eight Guests of Honour who graced the ceremony with their presence.

## MoU Between IIT Delhi And ISRO; To Setup ISRO Space Technology Cell At IIT



IIT Delhi has signed an MoU with Indian Space Research Organisation (ISRO) to set up ISRO Space Technology Cell within the campus. The research centre will facilitate projects in space technology to achieve India's plan for manned space missions. The MoU was signed on 2nd November, on the occasion of IIT Delhi's 50th convocation day Dr. K. Sivan, Chairman, ISRO was invited as the chief guest.

"The cell will work for carrying out focused research projects in the space technology domain with specific deliverables. It is also proposed that IIT Delhi as an Institute becomes an academic partner of ISRO in research areas, for example, AI, nanotechnology, functional textiles, smart manufacturing or any area of joint interest," said Prof V Ramgopal Rao, Director IIT Delhi, addressing the media at a press conference. He cited the example of Cleansta, an IIT-incubated start-up, which develops waterless personal body hygiene products that may be useful in space. It is also stated that ISRO will be committing funds towards the research centre. IIT Delhi has increased its budget for research by 300% over the last four years and this is yet another step in the direction towards research excellence.



## Office Of Career Services: IIT Delhi Rebrands Its Training And Placement Unit

IIT Delhi rebranded its Training & Placement (T&P) unit as the Office of Career Services (OCS). Prof. V. Ramgopal Rao, Director, IIT Delhi, inaugurated the Office of Career Services. He appreciated the view and said, "Training & Placement (T&P) cells in IITs have traditionally been helping students find a job. At IIT Delhi, we believe that these cells need to be much more than that. OCS will also help students in resume preparation and other aspects of facing interview committees." Prof S. Dharmaraja, Head, Office of Career Services, IIT Delhi, greeted the organizations on the campus and further said, "We are optimistic and geared up for setting up new records of placements this year. We expect more core companies." The placement season in IIT Delhi will commence on December 1, 2019, under the aegis of this new entity to recruit students from various Undergraduate, Postgraduate and Ph.D. programs. There will be 400 plus organizations from India and overseas offering 600 plus work profiles in core engineering sectors like electrical, civil, mechanical, and chemical engineering in the upcoming placement season.



## IIT Delhi & IISc Setup Task Force For Futuristic Defence Technologies

The government has set up a nationwide task force, Chaired by the director of the Indian Institute of Technology (IIT) Delhi, to help bring in the country's premier technical and scientific institutes to work on 'futuristic defense technologies' and address defense and security requirements of the country indigenously. The task force has an onboard director of the Indian Institute of Science, Bangalore, director of the National Institute of Technology (NIT) Durgapur, Vice-chancellor of University of Hyderabad, and top officials of Defence Research and Development Organisation (DRDO). DRDO has already recognized more than 60 specific schemes, many of which would grant armed forces access to cutting edge technology, people aware of the project said.



## IIT Delhi Organises All India Design Innovation Centre Exhibition

On 26th November 2019, IIT Delhi hosted a day-long All India Design Innovation Centre (DIC) Exhibition. Prof TC Kandpal, Dy Director (Operations), IIT Delhi, inaugurated the exhibition, in the presence of Prof PVM Rao, Coordinator of IIT Delhi Design Innovation Center and, representatives from other DICs. The exhibition displayed products and solutions developed by various Institutes/Universities MHRD has established design Innovation Centres in government educational institutions, including IIT Delhi. One of the mandates of DICs is to introduce knowledge application activities as a part of curricular and co-curricular activities to address some of the challenges being faced by society, through design and innovation. There are 20 Design Innovation Centers, located in IITs, central universities, technical universities, School of Planning and Architecture. Each of the 20 DICs has at least three partnering institutes under the hub and spoke model. Eighty-four Institutes/Universities are involved in this government-led design and innovation program.



All India Design Innovation Centre Exhibition organized at IIT Delhi

## Technological solutions being devised by IIT Delhi for reducing & tackling air pollution in the country

IIT Delhi has a Centre of Excellence for Research on Clean Air (CERCA) for the purpose of studying scientific causes for the pollution levels in the city and further devise methods to tackle the problem. The centre carries out a study of the PM2.5 levels, contribution of the stubble burning in Punjab and Haryana and other measures of the air quality. A number of startups have been incubated at IIT Delhi working towards tackling the problem of air pollution. IIT Delhi has developed a method to convert stubble into pulp to avoid burning, has been creating low-cost monitoring devices and CERCA is holding workshops to increase awareness about the issue.

## IIT Delhi to start Bachelor in Design

IIT Delhi is likely to start a four-year Bachelor in Design (B.Des) course from the academic session 2020-21. It is expected that a total of 20 seats will be offered under the curriculum. PV Madhusudhan Rao, Head, Department of Design, said that the course is being drafted considering the increasing demand for design education. He added that the proposal has already been floated and details will soon be finalised by the authorities. The selection process, fee structure, admission process, hostel facility and recruitment of new faculty are yet to be decided by the authorities. Already master's level courses in Design are being offered by the institute.

## IIT Delhi And CSIR researchers develop method for manufacturing optical components

A team of researchers from Council for Scientific and Industrial Research-Central Scientific Instruments Organization Chandigarh(CSIR-CSIO) and IIT Delhi have developed a method for the manufacturing of complicated optical components that require high precision."This research work would help in understanding the various issues affecting the performance of ultra-precision machining process" said Dr Vinod Mishra, a researcher from CSIR-CSIO. With the help of developed process precision moulds can be fabricated which can be utilized for mass production and to cater to the future needs of indigenous development of such optical components. Optical fibre is being used by many telecommunications companies to transmit telephone signals, Internet communication and cable television signals. It is significant for many fields such as medical, defence/government, industrial/commercial and for data storage.



### **IIT Delhi hosts book exhibition and literary programs**

From November 14th to 20th (National Book Week), the central library of IIT Delhi organized a book exhibition with the help of the Sahitya Akademi (Govt. of India). It also held literary programs including discussions on literature and screening of documentary films during the week.



Central Library, IIT Delhi organises week-long book exhibition

Prof. T.C. Kandpal, Deputy Director (Operations), IIT Delhi, and Shri Baburajan S, Deputy Secretary, Sahitya Akademi, inaugurated the Book Exhibition on November 14th.

### **IIT Delhi hosts Indian Intellectual Property Ecosystem Conclave 2019**

Bharti School of Telecommunications, IIT Delhi along with the Indian Open Technology Foundation, hosted the Indian Intellectual Property Ecosystem Conclave 2019 on 5th and 6th November. Innovation-driven growth and intellectual property rights were emphasized during the conclave. The 2-day conclave broadly focused on the topics of Data & IP ownership, Technology commercialization & challenges in the Indian scenario, Data security: Issues & challenges in India, Current issues & challenges in the Indian innovation ecosystem, and Indian startups & IPR.



### **IIT Delhi bags Rs 765 crores of research project**

The growth in research has been on an all-time high at IIT Delhi. The institute has received about Rs 765 crores as an investment for researching in the field of India's science, technology, and innovation policy. The projects are given to the institute by various government bodies and industries looking for scientific solutions. "We are doing good, and our research output is significantly higher. We shall continue to increase research individually and with like-minded institutions like All India Institute of Medical Science (AIIMS)," said IIT Delhi Director Prof V. Ramgopal Rao.



### **IIT Delhi reports Unnat Bharat Abhiyan Progress to MHRD**

IIT Delhi is the national coordinating institute for Unnat Bharat Abhiyan, a flagship program of MHRD for inclusive development of the country by focussing on rural development processes building architecture schemes with the help of institutions. IIT Delhi organised the first meeting of the regional coordinating institutes in March 2019 with each Institute signing an MoU with IIT Delhi. HRD Minister, Dr. Ramesh Pokhriyal Nishank invited IIT Delhi to discuss the progress of the Abhiyan on 7th Nov 2019.



# IITD NEWS

## Faculty Superannuated in the month of November, 2019

Prof. S. K. Gupta was a Professor in the Department of Chemical Engineering at IIT Delhi. Prof. Gupta joined the Institute as a Assistant Professor on September 5, 1984, promoted as Associate Professor on January 14, 1994, and Professor on October 12, 1995. He obtained his B.Tech (IIT Kanpur) (1975) and M.S. and Ph.D Polytechnic Institute of New York in 1976 and 1979.

He held very important positions in the Institute. Warden, Nilgiri 1994 to 1997, President BSA 1999 to 2003, Associate Dean of Students from 2003 to 2006, Head, Chemical Engineering Department from 2006-2009, Chairman, Hospital Advisory Committee from 2009 to 2012 and Dean, Student Affairs during 2012-2016. In the year 2016, IIT Delhi was chosen as the mentor IIT for IIT Jammu. Prof. Gupta was given the responsibilities of Dean, Students welfare of IIT Jammu and he helped in establishing, initially its temporary campus and later the transient campus. In addition to above, Prof. Gupta served as a member of several important committees of MOEF, Govt. of India. He was the member of committee which formulated the Waste Management Handling and Trans Boundary Formulation of Hazardous Movement Rules -2008, the committee which formulated the strategies for managing national hazardous waste in India, State level Environment Impact Assessment Authority-SEIAA, Delhi, Consent Management Committees of Delhi Pollution Control Committee (DPCC) under red and orange, and municipal solid waste management categories. Prof. Gupta has also served as the Chairman of several committees constituted by the DPCC for finalising Draft. Prof. Gupta has research interest in the areas of Membrane Science and Engineering, Transport Phenomena, and Environmental Pollution. He has guided over 50 B.Tech., 35 M.Tech. and 9 Ph.D. students. He has been involved in several sponsored and consultancy projects. Prof. Gupta has published nearly 50 papers in high impact Journals. Prof. Gupta superannuated on 30th November 2019.



Prof. S.N. Naik was Professor in the Centre for Rural Development & Technology (CRDT) of this Institute. Prof. Naik worked during 1983 84 as Plant Engineer, Solvent Extraction, Fatty acid distillation, Oleochemicals, Oswal Agro Ltd., Ludhiana; 1985 as Production engineer, soap and detergent, Hindustan Liver Ltd., Rajpura; 1986-90 as Ph.D. Program in IIT Delhi and also worked at University of Siegen, Germany under Volkswagen Research Fellowship ; 1987-90 as Senior Scientific Officer-II (IIT Delhi) ; 1990-96 as Deputy. Manager (R&D) (TRIFED, Ministry of Welfare); 1996-2002 as Senior Scientific Officer-I (IIT Delhi) , 2002 2008 as Associate Prof. (IIT Delhi); 2008 as Visiting Prof. (University of Saskatchewan, Dept. of Chemical Engg.) ; and from 2009 as Professor (IIT Delhi).



He obtained his M.Sc. degree (Industrial Chemistry), Sambalpur University (1979); M.Tech degree (Oil Technology), Nagpur University (1982) and Ph.D. (CRDT) IIT Delhi (1990) Prof. Nair was the Expert Member under the Planning commissions "Report of the committee on Development of Biofuel" (2003) Government of India ; Member Special Task Force (STF) for intensive employment program in Chotanagpur, Jharkhand (2001-02) ; Member of expert group on Bio-fuel Policy, Planning commission, Power and Energy Division (2006-07) ; Executive Member of Oil Technologist's Association of India, North zone (2007-08) ; Life Member of IICHE, EOAI, ISCA, OTAI, Expert Member (Recruitment and Assessment Board of CSIR, New Delhi) (2006-07). Prof. Naik superannuated on 30th November 2019.

## **CLR-SeeTB: A novel devise to diagnose TB**

A team of researchers has developed a new device that is an alternative to sputum smear microscopy to diagnose tuberculosis in high burden countries. Prof. Seyed E. Hasnain (former faculty of Kusuma School of Biological Sciences, IIT Delhi) ,Dr. Ravikrishnan Elangovan and a diverse team has developed a novel technology, called CLR-SeeTB, for efficient screening of TB patients. This innovation will break the cycle of TB infection at a far reduced cost. SeeTB (approximately the size of a calculator) is a robust, battery-operated, cost-effective device that can be mounted on a simple optical microscope and convert it into a fluorescence microscope. It allows (less than 15 minutes) identification of TB bacteria using a simple light microscope without additional infrastructure or trained workers. The team has also developed a clearing reagent called CLR which helps in thinning the collected sputum thus enhancing the bacteria detection. A patent has been filed for both the reagent and the device. The Indian Council of Medical Research has planned to start large scale validation of the CLR-SeeTB in its primary health research units at different locations in the country.



## MEMORANDUM OF UNDERSTANDING/AGREEMENT

Between



IIT Delhi

and



Loughborough University UK

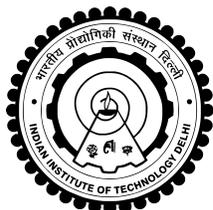


IIT Delhi

and



Edith Cowan University, Australia



IIT Delhi

and



**AUC**

American university in Cairo

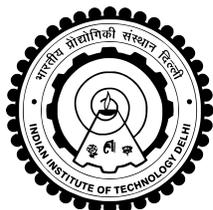


IIT Delhi

and



L' Université D Evry-Val-D'Essonne



IIT Delhi

and



Universiti Sains Malaysia

## INTERNATIONAL DELEGATIONS VISITED IIT DELHI



E

F

### International delegations received at IIT Delhi

- A. A 6 member delegation from Loughborough University UK, 05th Nov 2019.
- B. Prof. Dasho Nidup Dorji, Vice Chancellor of the Royal University of Bhutan 07th Nov 2019.
- C. An 8 member group from University of Indonesia, 08th Nov 2019.
- D. Mr. Fred Eisenberger, Mayor of Hamilton, Canada, 20th Nov 2019.
- E. A 5 member delegation from Danish Think Tank, 21st Nov 2019.
- F. Hon. Dan Tehan MP, Australian Minister for Education, 21st Nov 2019

## INTERNATIONAL DELEGATIONS VISITED IIT DELHI



F

### International delegations received at IIT Delhi

- G. A 6 member delegation from Newcastle university, UK, 21st Nov 2019.
- H. A 10 member delegation from University of Sydney, 22nd Nov 2019.
- I. A 3 member delegation from Embassy of Argentina, 25th Nov 2019.
- J. A 6 member delegation from Hong Kong Baptist University, 25th Nov 2019.
- K. A 3 member delegation from Embassy of Japan, 26th Nov 2019.
- L. A group of 12 students from Zhejiang University of China, 27th Nov 2019.
- M. A 2 member delegation from University of Waterloo, Canada, 28th Nov 2019.

## IIT Delhi Alumni Leadership Conclave 2019



### Digital Payment Firm MobiKwik targets Rs 1500 Cr Loan

Digital payments company MobiKwik has witnessed strong growth in its lending business and aims to disburse loans worth Rs 1,500 crore in FY2020. "We started our digital lending journey more than a year ago, and disbursed over 1,00,000 fully digital loans in September...We are well on track to disburse over Rs 1,500 crore across 1.2 million loans in FY2020," Co-founder and CEO Bipin Preet Singh (B.Tech Electrical Engineering 2002) said. He added that the company is working with leading financial institutions to create loan products that customers need in small packet sizes.

MobiKwik's annualised gross revenue is about Rs 425 crore, and in the first half of FY20, over 120 million transactions took place on its platform - up 1.6 times year-on-year. Recently, it launched Cancer Protect Cover as the first product under partnership between MobiKwik and ABHICL (Aditya Birla Health Insurance Co. Limited). This offers the most comprehensive protection for diagnosis of all major stages of cancer.

### B2B Marketplace, Jumbotail raises INR 14 Cr from Nexus Venture

Jumbotail raised INR 14.2 Cr from its existing investor Nexus Venture Partners recently. Earlier, in a Series B funding round led by San Francisco-based Omni-stage venture fund Heron Rock, it had raised INR 90 Cr in June 2019. Founded in 2015 by S. Karthik Venkateswaran and Ashish Jhina (B.Tech & M.Tech Biochemical Engineering & Biotechnology 2005 Batch), Jumbotail runs a B2B online marketplace for food and grocery, primarily selling to wholesale buyers. It sells staples, spices, dry fruits, packaged foods and FMCG products to traders, while sellers can list their products on its marketplace to connect with wholesale buyers. It also runs a supply chain network for goods procurement, last-mile delivery fulfilment, fintech solutions for Kirana store owners and PoS integration for omnichannel sales.



## Grofers hires women and improves its employee productivity score

Grofers is bringing in women to work at its warehouse and for delivery. Currently, 40% of its employees are women. It has employed around 500 women employees in warehouses currently in Bengaluru, Gurgaon and Kolkata and will follow the same trend in Faridabad, Hyderabad and Noida. Grofers also provides safety measures - from cameras at all locations, female security guards, housekeeping, HRs, pick up and drop facility to fixed working hours.

Through several training programmes, the female workforce carries out tasks like inventory putaway, inventory audit, order picking and billing, return processing, etc. This has resulted in an increase in efficiency. Its onboarding experience, job training and rewards and recognition also aided this growth. In the last two years, it claims to have grown by a staggering 800%, and clock in annual revenues of \$400 million. In May 2019, the e-grocery startup founded by Albinder Dhindsa (BTech 2004 Batch) and Saurabh Kumar raised \$200 million from Softbank Vision Fund, falling just a few million short in valuation to become a unicorn.



## IIT Delhi's oldest PhD recipient speaks on his love for learning and why he never gets tired of it

Dr. Sushil Kumar Dhawan, one of IIT Delhi's oldest Ph.D. recipients at the age of 77, never stopped learning. Dr. SK Dhawan, a former Chief Engineer from Central Public Works Department (CPWD), was engaged in planning, design, and construction of various roads, buildings, and bridges across India and retired from the Government of India in August 2002. Shortly after retirement, he became an advisor with RITES for two years and, after that, an advisor with a multinational company preparing detailed project reports for the construction of national highways in the country. He was also a Professor in the School of Planning and Architecture for about six years, teaching structures to architecture students. Sushil Kumar Dhawan was also a visiting professor in the civil engineering department, was awarded his doctorate at IIT Delhi's 50th Convocation held on 2nd November 2019, to a very enthusiastic applause. Present at the event which saw 2042 students graduate was ISRO Chairman K Sivan, IIT Delhi's chief guest for the day.



# Alumni News

## IIT-Delhi alumnus and his friend started Oye! Rickshaw



Attempting to make a dent in the shared mobility sector, Mohit Sharma (BTech Mechanical Engg, batch 2012) and his school friend Akashdeep Singh decided to begin Oye! Rickshaw in January 2017 in Delhi. Oye! Rickshaw is an electric rickshaw aggregation platform that works within a 5 km radius. The startup, which is centered on electric mobility and shared commute, commenced operations in June 2017. "We realized the way other cab aggregators were running operations in this category wouldn't work for micro-mobility and last-mile commute," says Mohit, further adding that a customer on average takes the ride daily with a minimum of two trips per day. Currently, Oye! Rickshaw claims to have over 25 journeys per customer per month. In three months, Oye! Rickshaw reached over 70,000 rides and recorded about 15,000 customers. Mohit states it was then they realized the platform had some stickiness. This year, Oye! Rickshaw has completed two million rides.

## Revive Auto, IIT-Delhi alumni's startup makes car repair simple with a few clicks



The online platform works as a specialized network for on-demand car body makeover facilities. Revive Auto specialises in making your car, dent and scratch-free in minimum time and maximum comfort. They offer spot-free car maintenance. Revive Auto, founded by Atishay Jain (B.Tech Civil Engineering, batch 2008), targets customers who want to get quick repairs done on one to three body panels. The startup provides real-time tracking and updates during the 24-hour repair process through back-end technology integration.



## SAVE THE DATE

**1 SILVER JUBILEE REUNION (1995 BATCH)**  
December 20-22 2019

**2 ALUMNI DAY: THE HOMECOMING**  
December 22 2019

**3 PEARL REUNION (1985 BATCH)**  
December 27-29 2019

**4 RUBY REUNION (1979 BATCH)**  
February 01-02 2020



# Commitments for IIT Delhi Endowment Fund

1	Bansal Binny	B.Tech. in Computer Science and Engineering	2005	100
2	Bansal Sachin	B.Tech. in Computer Science and Engineering	2005	25
3	Duggal Arun	B.Tech. in Mechanical Engineering	1967	10
4	Bakshi Amarjit	B.Tech. in Civil Engineering	1967	10
5	Reddi Sashi	B.Tech. in Computer Science and Engineering	1987	10
6	Sawhney Singh Amarpreet	B.Tech. in Chemical Engineering	1987	10
7	Chadha Jassi	B.Tech. in Mechanical Engineering	1990	10
8	Singhal Sandeep	B.Tech. in Chemical Engineering	1992	10
9	Gupta Vikram	B.Tech. in Computer Science and Engineering	1993	10
10	Vohra Ranu	B.Tech. in Mechanical Engineering	1993	10
11	Mittal Saurabh	B.Tech. in Electrical Engineering	1995	10
12	Arora Neeraj	B.Tech. in Mechanical Engineering	1996	10
13	Kumar Sujeet	B.Tech. in Civil Engineering	2003	10
14	Kuchhal Rajiv	B.Tech. in Electrical Engineering	1986	5
15	Kumra Gautam	B.Tech. in Chemical Engineering	1991	5
16	Jain Surendra	B.Tech. in Electrical Engineering	1993	5
17	Kushwaha Gaurav	B.Tech. in Computer Science and Engineering	1997	5
		<b>Total</b>		<b>255</b>