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INDRAPRASTHA INSTITUTE *of*
INFORMATION TECHNOLOGY, **DELHI**

2nd CONVOCATION

Sunday, August 25, 2013

Welcome

IIIT-Delhi is proud to welcome all attendees to its Second convocation. The mission of IIIT-Delhi is to be a global centre of excellence in Information Technology, education, training and research. Its twin aims are:

- *To carry out advanced research and development in information and software technologies, and in leveraging IT in specific domain areas.*
- *To train and educate, at both undergraduate and postgraduate levels, engineers of outstanding ability who can become innovators and new product creators.*

The vision of IIIT-Delhi is to be an institute of higher education in IT and allied areas, which is globally respected for research and education, has thriving UG and PG programs, and which is socially relevant, industry-facing, and globally linked.

Minute to Minute Program

09:30 a.m.	Arrival of Chief Guest, received by the Chairman, BOG & Director.
	Introduction of Senators/Faculty Members to the Chief Guest.
	Supply of robes to the Chief Guest, Chairman & Director (Director's Office)
09:50 a.m.	Academic Procession proceeds to the Convocation Hall.
10:00 a.m.	Prayer Song/ Convocation Song
	Director requests the Chairman, Board of Governors to declare the Convocation open
	Convocation is declared open by the Chairman, Board of Governors.
10:05 a.m.	Director's Report.
10:25 a.m.	Address by the Chairman, Board of Governors and introduction of the Chief Guest.
10:35 a.m.	Convocation Address by the Chief Guest
11:05 a.m.	Award of Degrees by the Director, starting with M.Tech. Degrees
12:15 p.m.	Presentation of Medals by the Chairman, Board of Governors.
12:30 p.m.	Chairman, Board of Governors signs the scroll of Award of Degrees.
	Oath-taking by the Recipients of Degrees.
	Director requests the Chairman, Board of Governors to declare the Convocation closed.
	Convocation is declared closed by the Chairman, Board of Governors.
12:40 p.m.	National Anthem
	Academic Procession departs.
1:00 p.m.	Program Ends followed by group photograph and Lunch.

Message by the Chancellor

उपराज्यपाल
दिल्ली
LIEUTENANT GOVERNOR
DELHI

सत्यमेव जयते

राज निवास
दिल्ली-११००५४
RAJ NIWAS
DELHI-110054

16 July 2013

CHANCELLOR'S MESSAGE

Indraprastha Institute of Information Technology, Delhi, has emerged as one of the finest institutes in IT and allied areas in the region under the stewardship of the Chairman of its Board of Governors, Shri Kiran Karnik, and Founder Director Prof. Pankaj Jalote.

Since its establishment from the 2008-09 session, this dynamic institute has been engaged in providing research-focused and industry-oriented education, adding to the Delhi Government's efforts aimed at turning the National Capital into the Knowledge Hub for the new millennium.

On the occasion of its second convocation, it gives me immense pleasure to note that the institute, whose newly-built beautiful campus nestled in Okhla, has been able to produce engineers of outstanding abilities through innovative teaching techniques evolved by its world class faculty in the fields of Computer Sciences and Electronics and Communication Engineering.

I wish IIIT-D all the best for its future endeavours, and am confident that it will achieve many more milestones and realize its goal of becoming a globally respected academic institution in IT and allied areas.

(Najeeb Jung)

Message by the Chairman Board of Governors

Kiran Karnik

MESSAGE

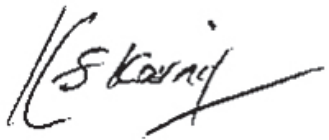
A Convocation is a significant event in the life of each graduating student. It is a time for celebration, marking the formal recognition – through a degree – of having attained a certain level of knowledge. For some, it is one more stage in their continuing academic quest; for most, it marks a transition from the portals of academia to the world of work. For all, though – whether in a university, on the shop-floor or even in an office – it must mean a continuation of learning. Today, with the ever-accelerating pace of change, constant and life-long learning is more necessary than ever before.

Alumni, especially at this early stage of our Institute, have a special responsibility. They are our ambassadors to the outside world and will play a crucial role in creating the image of IIIT-D. I am sure that their work, values and behaviour will bring glory to them and embellish the reputation of IIIT-D.

The faculty and staff, under the dynamic leadership of the Director, have already won recognition for IIIT-D. Few institutions can claim to have established a reputation for themselves in such a short period of time. Simultaneously, a lot of effort has been devoted to creating the physical infrastructure in our campus. The first phase is over and we now have all the necessary facilities.

I would like to record the important role and the major contribution of the members of our Board of Governors. Their guidance, advice and direction have been invaluable. I must also acknowledge the help and support of our Chancellor – Lt. Governor of Delhi – and the Government of NCT Delhi, particularly the Chief Minister.

I congratulate the graduating students – as also their parents and guardians – on this happy occasion, and wish them the very best. We look forward to welcoming them back from time to time as alumni, potential faculty and recruiters, but most of all, as friends of IIIT-D.



25 August 2013

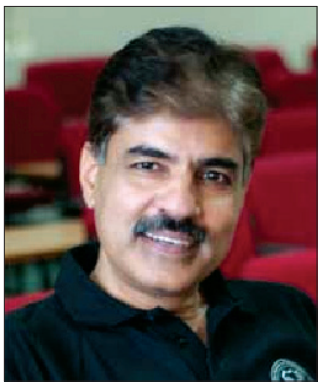
Kiran Karnik
Chairman, Board of Governors

The Chief Guest

Professor Dinesh Singh
Vice Chancellor
University of Delhi

Professor Dinesh Singh is the Vice Chancellor of University of Delhi, Delhi. He is also the Director of Mathematical Sciences Foundation, Delhi and Adjunct Professor, Department of Mathematics, University of Houston, USA and is involved at the international level in many areas of mathematics research and education. He is a member of many committees of the Government of India and of international agencies for furthering the research and academic activities.He is member of the Scientific Advisory Committee to the Cabinet, Govt. of India;Academy of Scientific & Innovative Research; Steering Committees on Science & Technology and Higher & Technical Education, Planning Commission; President (Mathematical Sciences) of Indian Science Congress Association in its centenary year; Chairman of Executive Committee of National Assessment and Accreditation Council; member of the Governing Body of theAIIMS, New Delhi and serves on the boards/executive councils of many other universities, institutions and professional bodies. Heobtained his Bachelors and Masters in Mathematics from St.Stephen's Collegeand his M.Phil. from the University of Delhi.He obtained his Ph.Ddegree from the Imperial College of Science, Technology and Medicine, London. He has published numerous research papers in international and national journals and his research work has been cited in several books and articles. He has been awarded numerous academic awards and prizes. He takes an avid interest in literature and painting and has held a successful solo exhibition. He is an acclaimed speaker and a student of Gandhian philosophy.

Director's Address



Respected Chief Guest, Shri Pitroda,
Our Chairman, Shri Karnik,
My faculty and administration colleagues,
Dear students,
My dear graduates, who are now alumni, and their parents,

Ladies and Gentlemen:

It is a great pleasure and honor for me to be standing in front of you to deliver my second convocation address as Director of this young Institute which has just turned 5. Let me start with a brief annual report.

With this year's admissions, our total student strength has crossed 800, with over 550 UGs, over 175 MTech students, and about 70 PhD students. We now have 10 academic programs – two BTech programs, 6 MTech programs including specializations, and two PhD programs – in Computer Science and Engineering, and Electronics and Communications Engineering.

This year, we have completely moved into our new campus, including occupying the student and faculty accommodation. Though minor works still remain, we have now a fully operational campus of about 32K sq m, with systems in place for maintenance and operation. It is our endeavor to have a campus that utilizes the resources optimally and we are building systems for it. For example, our goal is to not have any water leave the campus – so we have STPs which recycle waste water that is then used in irrigation, and we have many recharge pits to which the rain water is channeled. We are also beginning to use technologies to improve our management of power consumption through automated metering and monitoring, and improved control through a building management system, which we recently commissioned.

We added 13 regular faculty members last year – all have PhDs from fine Institutions of the world including British Columbia, Univ of Texas Austin, Univ of Virginia, Univ of South Wales, Indian Institute of Science, IIT Kharagpur, Nanyang Technological University Singapore, Univ of Iowa, Univ of Nebraska Lincoln, etc. We now have 4 international faculty, more than 10% of our total strength, probably the highest in the country, perhaps even in absolute numbers. This has given a good start to achieving our vision of being a global Institution – we hope to soon start exchange programs and increase the presence of international students in our campus. We have already reserved some seats in BTech for foreign nationals.

Research remains a key focus for the Institute and we support and encourage our faculty to take up interesting challenges and projects. Overall our faculty have received over 20 projects from various agencies with a total value of about Rs 8 crores. Last year, 3 of our young faculty members got the DST's Inspire fellowship. Our faculty and PhD students continue to pursue top quality research and have received over 10 best paper or poster awards and 12 TCS PhD fellowships – both perhaps the highest in the country. Let me highlight a few contributions our faculty and students have made to Research, technology development, and society last year.

- We have a strong research group in Biometrics, which has been working on face recognition systems. Despite what movies may have us believe, good face

recognition from images remains a tough problem, particularly if the image is captured through a low resolution camera in unconstrained settings - the situation with most CCTV and surveillance systems. The primary challenge here is to extract discriminating features from limited biometric content in low resolution images and match them to information rich high resolution face images. Our faculty members and students have developed an innovative approach using an amalgamation of transfer learning and co-training paradigms to develop a solution that is much more accurate than the current best commercial systems.

- Our pervasive computing group has developed a sensing based system for better energy management in households and campuses. And they are using our own campus as a testbed – they have instrumented the campus with multiple sensors, and deployed over 120 smart meters, each sending power consumption data every 30 seconds over the network to a server. Using this system, today on a webpage any of us can see energy consumption of any building over a period of time. The group is working on smart algorithms that can disaggregate the data further into appliance level data, towards realizing the ultimate goal of providing us with an itemized electricity bill where we know how much energy is consumed in air conditioning, how much in lighting etc.

- One group has been working on analyzing online social media data from different social networks like Facebook, Twitter, Google+, etc. to identify information vs. mis-information, stitch / connect identities across the networks, visualize outburst of events, and determine crimes including threats to national security and law and order in the country. Some of these tools and technologies developed by this group are currently being used by multiple government organizations in India.

Placements for two batches have taken place. Before I mention our performance, let me briefly mention the placement scenario in the country. Over 10 Lac engineering students graduated this year in our country, vast majority in IT. Given the scenario, probably less than 1 Lac would secure jobs, primarily with the software services companies offering a compensation between Rs 2 and 4 Lacs. In the Institute, we continue focusing on high-end technology companies, which probably together take a couple of thousand students, as we believe our students have been well trained and are better suited for such companies. I am happy to report that most students got good placements and the average compensation of about Rs 8 Lac compares favorably with most top Institutions in the country.

This year, we actively encouraged students to take up higher studies – we are seeing results of this with 9 students going for further studies, including two students who have joined us for dual degree. List of universities where students are going for higher studies includes, besides IIIT-Delhi, top universities like Princeton, UIUC, and Georgia Tech.

Our efforts to pursue research collaborations are also bearing fruits. This year we are starting our joint PhD program with Queensland University of Technology, Australia. In this program, selected students will be jointly guided by faculty from QUT and IIIT-Delhi, will spend at least 1.5 years in each institution, and get a joint degree. There are only a couple of other instances in our country of this type of collaboration for PhD with a major international university.

This year we also received our approval under UGC 12B, which enables us to apply for grants to UGC. We applied for a grant under General Development Assistance Scheme, and have been sanctioned Rs 7 crores.
This year, we mark our 5th anniversary. Let me take this opportunity to briefly mention our major achievements in our five year journey, and some key challenges ahead.

I believe our main overall achievement has been to lay strong foundations – we have developed rigorous academic programs, evolved a strong research and PhD program, built an academic culture and environment which encourages people to excel and take up challenges, and have established a good administrative setup. The other major achievement is to have our own permanent campus – this is psychologically important as universities are perpetual entities and moving into a permanent campus is essential for this perpetuity.

Our biggest achievement has been to attract high quality faculty. As we know, the quality of the faculty is what determines the quality of an academic institution and we have been very fortunate in this. Our faculty, whose strength has crossed 35, can be compared favourably with the best in the country. All faculty members have PhDs with about two-thirds having earned their PhDs from US or Europe and almost all having significant global exposure. We have been able to create, in small ways, an environment to host bright and young faculty who want to make a difference in India, from India. The faculty, and the strong research and PhD program we have started to build, bodes well for the future as it will continue to attract good faculty and students.

While we have started well, Prof. SN Maheswari's message to the Institute aptly captures the task ahead. He says "Creation of an institution of excellence is like a marathon run. The run has just started, and has started well. The toughest middle miles are still a long distance away. I am confident they can be run provided the Institute does not lose sight of the objectives and goals it has established." To achieve our vision of being a globally respected institution, we have to continue running this long marathon steadily – the only way to run a marathon – and let our early successes not slide us into complacency. We have to continue strengthening our foundations, while simultaneously building upon them, so that we come out tall, and strong. Let me mention two specific near term challenges.

Thanks to our rapid growth, our current infrastructure will be overflowing within two years. Given the continuous stream of good faculty applications we get, we can continue to grow rapidly while maintaining a good student faculty ratio. The major bottleneck will be space. As we know, during the campus inauguration last year, Hon'ble CM had announced Rs 250 crores support for phase II of the campus – and process is moving to formalize this. Getting all this done in time is a major challenge – if we do not get our Phase II buildings in 2 to 3 years from now, we will be in a state where we can admit more students but will not be able to do so due to infrastructure constraints, and we will be forced to curtail our growth, in times when growth of high quality academic opportunities in the country is a crying need.
Second, our Institute has to become self-sustaining as per our Act. In our country where 80 to 90% of the budget for a research-led university comes from the Government, this is a stiff challenge. We are working towards making education self-sustaining, while trying to get grants from the Government and other sources for supporting research including the PhD program, which is universally expensive and world over heavily supported by the Government. We hope we will get continued support from the Government for our PhD

and research program, so that we can become self-sustaining without having very high fees. The possibility of creating a great institution in India continues to fire me up. I continue to work harder than I ever have, and continue to enjoy strong support and guidance from the Board and the Government, and excellent cooperation from my faculty colleagues, students, and staff. I am confident that in my next term as Director, which starts next week, in partnership with all the key stakeholders, we will be able to take the Institute to even greater heights and make it stronger.

Let me spend a few moments about the graduating BTech batch. You may remember that when you joined in 2009, we were just 50 students strong and had 7 faculty members. All our classes were still not held in our own facilities, and some courses were being taught by faculty from NSIT. Since the early days we have come a long way. In your final semesters, not only were you taught in the nice facilities we have here, your batch had more than 15 choices for electives.
Yours is the first batch that is actually graduating out of this campus. Our first batch, much to my disappointment, did not get any opportunity to study and live in this campus. You have lived and studied at least last year of your program here – I am happy that the memory of your last months with us will be of our permanent campus – whenever you come back, the buildings you lived and studied in will be here – though we hope that with time many more will get added.

Early batches have opportunities to contribute to the institute in ways later batches cannot match. Your batch can be proud of having started our technical festival, Esya, whose 3rd edition successfully concluded last week, and which has now established itself as one of the best TechFest in Delhi. Your batch can also take the credit of getting our logo redesigned – due to initiative and support by some of you we successfully rolled out our logo before the first batch graduated.

I had asked the graduating batches to send me some views about your life in IIIT-Delhi. Let me quote one from each of the two main graduating batches. One comment from an MTech student: The good thing that happened to me here was that I started enjoying studies. I think it is because the faculty here are filled with zeal and passion and inquisitiveness and what not. They were the ones who motivated us the most to work with passion, which made the learning an enjoyable process. In fact it was not just me who enjoyed studying here but there are a few more like me for whom their work brings smiles on their face. The people who had known me prior to my coming here are truly surprised after seeing me happily studying. For this, I truly give credits to the facilitation made here to do research work (be it infrastructure or the motivation). I had never thought of doing PhD before coming here. But, now I have enrolled myself in the PhD program here. I feel that I am among one of the most content people at IIITD. Be it work or social life, I have enjoyed every bit of my life at IIITD.

Another one from a graduating BTech student: At IIIT-D, I have definitely learnt a lot through our demanding coursework, but it was my growth outside the classroom which made IIIT-D special for me. In four years, I've written research papers, attended conferences, proposed new rules and projects for the Institute, pitched to venture capitalists, gotten graphic design experience and worked with dozens of partners in different areas. I'm certain that it is our open, egalitarian and feedback-driven culture that allows me and my classmates to contribute as much as they have - the fact that I can simply walk into the office of a faculty/staff member and propose a new idea or give feedback is incredibly powerful.

You are now ready to pursue your own professional careers. As an academic I cannot forgo this opportunity to offer some advice. I

have decided to mention only one. In your feedback to me in our interaction a few weeks ago, you had frankly admitted that some of you have taken some short cuts at times – copying in assignments, exams, etc. As you proceed in your careers, my one advice is to always remember that there is no short cut to any goal worth achieving. You take short cuts – you compromise something, you reduce your chances of achieving your goal fully. My experience and interactions with successful people across the world tell me that the surest way of reaching where you want to go is to work hard and smart towards your goals.

You are now becoming alumni of the Institute. Alumni form a special stakeholder for an Institute as their only interest is to see the Institute flourish and grow in stature. I would like to make two specific suggestions to you to play your role as alumni of this Institute.

First, stay engaged with the Institute. Visit the Institute when in Delhi and meet with faculty and students, respond to our emails, ensure that your contact information with us is correct, visit the Institute website regularly to keep abreast of happenings here, give suggestions, etc. Help us build a strong alumni network in which every single alumnus is included and connected with the Institute at all times. The strongest alumni networks are the ones which are built and nurtured by the alumni, as alumni actually have a stronger benefit in staying connected. In my own life, even 30 years after graduation from IITK, I find that many of us are connected and derive support from each other. There are many instances of me tapping my friends to help me in some issue or the other of the Institute.

My second suggestion to you as alumni is to contribute back to the Institute – as I have said last year, all of you should aim to give 1% of your yearly income to the institute, and increase it when you are doing well. Like the corporate social responsibility for companies, we, who are clearly the privileged and more fortunate ones in our country, should adopt personal social responsibility, and give back to society. And one way to do this is to support the university you studied in, which provided you with foundations for your career. To be with you in giving to the Institute, as I have already announced last year, each year, one month of my salary will be automatically deducted and contributed to the Institute as the initial contribution from the graduating batches – so your batches have already made a start. Now keep it up, and let us see the contributions grow and snowball over the years.

Besides making the contribution yourself, there will be opportunities for you particularly when you are senior, to have corporations, philanthropists, agencies to establish Chairs, Fellowships, Scholarships, Awards, etc. at the Institute. Please help bring such opportunities to the Institute. Later when you are senior and have more experience and knowledge to share, there will be other possibilities of giving back, particularly if you have remained engaged. E.g. offering some courses, giving lectures, conducting short programs/workshops, facilitating placement and internships of our students, etc.

To end, dear graduates, have a successful and satisfying life. We have given you a good launching pad in difficult initial circumstances – make the most of it. And while excelling in your own pursuits, keep engaged and contribute to the Institute's pursuit of excellence and global stature.

My heartfelt best wishes to all the graduates.

Background about the Establishment of the Institute

The Beginning of IIIT-Delhi

Indraprastha Institute of Information Technology, Delhi (aka. IIIT-Delhi or IIIT-D) was created as a State University by an act of Delhi Government (The IIIT Delhi Act, 2007) empowering it to do research and development and grant degrees. IIIT-Delhi was officially established on 10th June, 2008 as per the notification in the Delhi Gazette. First class (for B.Tech. (CSE) students) was held on 8th September, 2008.

The institute began with its first batch of 60 B.Tech. students in 2008. Since then, it has come a long way with over 40 faculty members specializing in diverse areas of Computer Science and Electronics and Communications, and over 800 students with about 550 B. Tech students, more than 175 M. Tech. students, and about 70 PhD students. In a relatively short time, it has earned a good reputation in India and abroad for being a center of quality education and research in IT.

Major events and notifications relating to the Institute's evolution are:

1. 2nd April 2008 - the IIIT-Delhi Act passed in Legislative Assembly
2. 2nd May 2008 - Notification of the IIIT-Delhi Act
3. 10th June 2008 - IIIT-Delhi officially established
4. 20th June 2008 - Notification of IIIT-Delhi being established
5. 17th July 2008 - First statute
6. 3rd Aug 2008 - Release of prospectus and website by CM in a public function
7. 23rd Aug 2008 - Entrance exam
8. 26th Aug 2008 - Counseling
9. 8th Sept 2008 - First day of classes for the first B. Tech. batch
10. December, 2008 : First visiting faculty member joins IIIT-Delhi.
11. March, 2009: First regular faculty member joins the Institute
12. August 2009 - PhD(CSE) started
13. July 1, 2010 – Laying of Foundation Stone for IIIT-Delhi campus by Ms. Sheila Dikshit, Hon'ble CM of Delhi
14. August 2010 - M. Tech. (CSE) started
15. August 2012 - B.Tech, M. Tech, and PhD programs in ECE started.

Permanent Campus, Phase I

For the institute's permanent campus, the Government of National Capital Territory of Delhi allocated land in the GB Pant Polytechnic Campus behind the Okhla Phase III near Govindpuri Metro Station and Okhla Railway Station in South Delhi in August 2008. The modern campus that is spread over 23 acres of land over the sloppy terrain and buildings is developed in alignment along the contours to the topography of the land. The Phase I of the Campus with a covered area of 32,500 sqm consists of the following facilities that have been put to use :

- Academic R & D block
- lecture hall block
- Library cum Information Centre building
- Dining Block
- Boys Hostel
- Girls Hostel
- Faulty Residences
- Service Block
- 2 Nos STP
- Guard rooms

- The entire area is divided into mutually interactive yet separate zones namely the residential areas for faculty, academic areas and the student residential areas connected by connecting pathways with vehicular entry restricted to the peripheries only.
- There is a single G +11 storied faculty residential block with 27 apartments and 1 guest house flat, 1 community event flat and 2 small visiting faculty flats and terrace garden and stilted parking in the residential zone. There are intermittent sprawling greens between the buildings.
- The academic zone comprises of separate blocks for Library cum Information Centre in G + 3 storied block, the G+2 Lecture hall block, and the G + 5 storied Research & Development block which houses the research labs, faculty seating, administrative and academic heads with their supporting staff.
- The student residential zone comprises of separate blocks for the boys hostel G+7with 350seats and girls hostel G+4 for 150 seats. and a G +3 Dining block with cafeteria and mess, student activity areas , a fully equipped gymnasium , music and art rooms .
- All the above areas except faculty residences are served by the district cooling air-conditioning system cooled on selective basis during day /night /peak demand settings, housed in the service block. Use of VFD/VAV controlled systems, heat recovery wheel, temperature based sensors with BMS controls run air-conditioning efficiently.
- Moreover, the building envelopes are made efficient to insulate from heat using dry cladding in external finishes and Double unit toughened glass of specified thermal resistivity and transmission values in academic areas and AAC blocks in place of regular brickwork in masonry in residential areas and hostels. Use of natural material and minimum use of high energy consuming materials are basic ingredients of the project aimed towards green building
- The electrical system on 11KVA supply is provided with a partial load backup from 2x500kva DG sets.
- The entire waste water generated in the campus is recycled using 2x65 kld STP and water so generated will be used for horticulture, flushing and air-conditioning

works. The solid waste management is carried out through an NGO for ensuring proper disposal. The rain water is harvested in rain water harvesting pits and shales.

- The entire areas will be protected by fire alarm and fighting equipments as wet risers/sprinklers and latest smoke management systems.
- The telephony and networking is on a backbone of OFC cabling with redundancy using loop and star configurations.
- The entire rock excavated from the areas is broken down and mostly utilized in external development works. Utilization of energy saving lighting systems as CFLs and T5 fixtures, use of non conventional energy through solar hot water systems with PNG backup reduces power consumption considerably.
- The Sports arena comprises of well lit basket ball court with synthetic coating, 2nos concrete courts for tennis. Separate courts for badminton for boys and girls hostels, multipurpose sports field, volley ball courts and running tracks would be operational shortly.
- The work of construction completed and commissioned for Academic zone and part of students' hostels and dining areas were completed in July 2012 for partial occupation, and faculty residences and boys' hostel by March 2013.
- The current campus can provide accommodation to about 500 students and 27 faculty members. Its office space is adequate to house 48 faculty members. The campus can accommodate up to 1000 students.
- The present campus is maintained by dedicated teams of Facility Management and Security operations.

Computing and Networking Facilities

Items	Current Numbers (appx)
No. of Servers	38
No. of Clients in Labs	450
No. of Laptops	100
No. of Printers, scanners, etc	50
No. of Projectors	20
Bandwidth	1 GBPS (from NKN)
Backup Bandwidth	10 MBPS
Total network traffic	454 MB in peak hoursz
No of Wireless Access points	82

Library Facilities

The Library and Information Centre of the Institute is housed in a separate building in the Campus. It is an information hub catering to the requirements of students, PhD/Research Scholars, Faculty and Staff Members. It supports the teaching, learning and research activities of the Institute. The Library is fully automated using RFID Technology with EM Security System.

The Library is enriched with books and journals/magazines in the area of Computer Science, Electronics and Communications, Mathematics and Statistics, Humanities and Social Sciences, Sciences etc. It subscribes renowned e-resources such as ACM Digital Library, Elsevier's Science Direct, IEL Online (IEEE/IET Electronic Library), Nature Online, Springer's Lecture Notes in Computer Science. It also offers 24X7 Open Reading facility with high speed Wi-fi Internet Connectivity, Bibliographic Service, Circulation Service, Current Awareness Service, Institute's Archive, Inter Library Loan and Document Delivery Service, Online Catalogue Service, Online Book Reservation, Photocopy, Printing and Scanning Service, Reference Service etc.

Media mention

Our Institute continues to hit headlines, with its events like Research Showcase and international workshops making it to various media outlets, along with articles on the innovative and interesting research work being carried out by a focused faculty and equally talented students. Some of the prominent media organisations which have taken note of our achievements are The Times of India, The Hindustan Times, The Economic Times, Press Trust of India (PTI), Indo-Asian News Service (IANS) and Business Standard. Following is a list of stories on IIIT-D that appeared in media since October last year:

- IIIT Delhi Moves to New Campus in Okhla **(The Hindustan Times)**
  New Delhi, Oct 30, 2012: Students of the Indraprastha Institute of Information Technology (IIIT-Delhi) will no longer have to attend classes in its temporary centre at the Netaji Subhash Institute of Technology. Delhi Chief Minister Sheila Dikshit on Monday inaugurated the IIIT-Delhi campus in South Delhi's Okhla.
  (http://www.hindustantimes.com/India-news/NewDelhi/IIIT-Delhi-moves-to-new-campus-in-Okhla/Article1-951991.aspx)

- Reinvent Learning that Supports Innovation: Murthy **(The Hindu Business Line)**
  New Delhi, Nov 3, 2012: Despite making landmark advances, the Indian software industry has failed to support the growth of its own inventions, Infosys founder Narayana Murthy said today at IIIT-D's first convocation, asking students to reinvent their idea of education to end this anomaly.
  (http://www.thehindubusinessline.com/industry-and-economy/education/reinvent-learning-that-supports-innovation-narayana-murthy/article4061987.ece)

- Most Indians ignorant about privacy issues on Internet, Social Media: IIIT-D Study **(The Economic Times)**
  NEW DELHI, Dec 9, 2012: Giving an insight into privacy perceptions in India in the wake of huge development in the IT sector, one of the first studies on the subject conducted by IIIT-D says a majority of people are ignorant about various privacy issues related to the Internet and online social media, including Facebook.
  (http://articles.economictimes.indiatimes.com/2012-12-09/news/35705476_1_privacy-issues- personally-identifiable-information-privacy-invasion)

- IIIT-D PhD Scholars win Microsoft's Whodunit? Challenge **(India Education Review)**
  New Delhi, Feb 5, 2013: A team of Indraprastha Institute of Information Technology, Delhi (IIIT-D) researchers has emerged victorious in Microsoft Research India's nationwide Whodunit? Challenge.
  (http://www.indiaeducationreview.com/news/iiit-d-phd-scholars-win-microsoft%E2%80%99s- whodunit-challenge)

- Engineering students showcase research work **(IBN)**
  New Delhi, Mar 15, 2013 (PTI) Work of engineering students in the field of computer science and electronics research was today showcased in an event organised by Indraprastha Institute of Information Technology (IIIT).

(http://ibnlive.in.com/generalnewsfeed/news/engineering-students-showcase-research-work/1219416.html)

- India, British Experts Discuss Cyber Security **(The New Indian Express)**
  NEW DELHI, 26th March 2013 (IANS) Top experts from India and Britain discussed cyber security and online security, a pressing international issue demanding global cooperation, as part of a four-day workshop, which began on March 24 and which has been jointly organised by Research Councils UK (RCUK) and India's department of science and technology, the Indraprastha Institute of Information Technology-Delhi (IIIT-D), and Britain's Science and Innovation Network (SIN).
  (http://newindianexpress.com/nation/article1518154.ece)

- IIIT Delhi gets into collaborative PhD programme with QUT Australia **(The Times of India)**
  NEW DELHI, Apr 15, 2013: The Delhi government-created Indraprastha Institute of Information Technology (IIIT-D) has joined hands with Australia's Queensland University of Technology (QUT) for a collaborative PhD programme in areas like Cryptography, Control Theory and Robotics, as part of efforts to promote cooperative educational exchanges.
  (http://articles.timesofindia.indiatimes.com/2013-04-15/news/38555330_1_phd-student-programme-information-technology)

- IIIT-D develops system that monitors, analyses real-world events online **(The Times of India)**
  New Delhi, May 28: Researchers at the IIIT-D have come up with a new system called MultiOSN, which has been monitoring multiple online social media during real-world events, including the just-concluded IPL series, and presenting an analysis in real-time.
  (http://articles.timesofindia.indiatimes.com/2013-05-28/news/39579015_1_sentiment-analysis-ipl-boston-marathon-blasts)

- Demand for PhD in computer science hit by lack of scholarships **(The Economic Times)**
  New Delhi, Jun 16 (PTI): Attracting quality students to pursue doctoral degree in computer science is one of the major challenges faced by India's top technical institutes due to lack of lucrative scholarships and fellowships, according to a survey conducted byProf Pankaj Jalote, Director of the Indraprastha Institute of Information Technology (Delhi).
  (http://articles.economictimes.indiatimes.com/2013-06-16/news/40009109_1_computing-machinery-phd-students-computer-science

- Tech Fest starts **(The Business Standard)**
  New Delhi, Aug16: The two-day annual tech fest 'Esya', organised by Indraprastha Institute of Information Technology- Delh and Security operations.
  http://www.business-standard.com/article/pti-stories/tech-fest-starts-113081600774_1.html

Life@IIITD

Academics is hard and requires focused effort, and most of the time of students will go in that. But there are many facilities and clubs to grow in various ways.

Students of IIIT Delhi take part in a number of social and cultural activities. If they want to pursue a hobby, they just need to find some like-minded people to start their own club. These clubs not only hone their leadership skills but also help instill team spirit. Several student clubs in the institute enable them to enhance their talent in areas beyond academics.

Some of the clubs already in existence at IIIT Delhi are Quiz Club- Trivialis, Web Design and Development Club-WDD Club, Dance Club- MadToes, Robotrix, Design Club, Ethical Hacking Club, Literary Club and Audio Bytes-the Music Club. These clubs enable students to come together, share knowledge and mentor those looking to break into the field.

Throughout the year, the campus is abuzz with activities. 'ESYA' tech fest is one of the biggest events on the campus which is organized annually, while 'Cadence', a cultural fest, is held in alternate semesters. In addition to these, a Research Showcase (poster presentation) is organised every year. Students can also suggest books for the library, organize a blood donation campaign, an adventure trip during summer holidays or purchase a new instrument for the music room. The Entrepreneurship Cell at IIIT Delhi nurtures all the budding entrepreneurs and supports them to take the next step.

Students are also encouraged to help the society in some way or the other. Almost every student is involved with various NGOs all over the country. The institute also has a Community Work Club called Communitas-Opere, which has been active in organizing Blood Donation Camps.

IIIT Delhi has been regularly organizing various sports events like football tournament Joga Bonito, Table Tennis and Pool tournaments. Every year a group of students from IIIT Delhi take part in Delhi Half Marathon running for a cause.

The institute's sports team participates in the annual Twaran festival, which is attended by college teams from all over the country. This year, a 49-member IIIT-D team participated in the sports fest organized by ABVP-IIITM-Gwalior from January 24 to 27 and secured third position in the medal tally after IIIT-Gwalior (1st) and IIIT-Kanchipuram (2nd).

Students from IIIT-D took part in cricket, basketball, football, lawn tennis, badminton and table tennis matches, to name a few, and marveled the viewers with their stupendous performances.

To ensure overall development of its students, the institute provides all the required facilities for sports and recreation. Among other things, the campus houses a gymnasium, a football field, a tennis court, Table Tennis, Pool Table, etc.

Academic Programs

Current Academic Programs, student intake, and total student strength is shown in the table below.

Sl. No	Particulars	Intake in 2013	Existing	Total Strength
1	B. Tech.	121 (CSE) 50 (ECE)	365	536
2	M. Tech.	80 (CSE) 30 (ECE)	59 17	139 47
3	Ph. D.	14 (CSE) 09 (ECE)	40 05	54 14

The objective of the **B.Tech program** is to prepare students to undertake careers involving innovation and problem solving using information technologies, or to undertake advanced studies for research careers. In order to achieve this objective, the curriculum covers most of the foundational aspects of computing sciences, develops the engineering skills for problem solving, builds strong communication skills, and provides a broad perspective. Some of the highlights of the program are:

- **Engineering first, Sciences Later.** Most engineering programs start with general courses in Sciences, and then migrate to specialized courses for the disciplines. As most of these course are not foundational for Computing/ECE, the BTech program at IIIT-Delhi starts with computing and hardware oriented courses first, and allows the possibility of doing science courses later. Besides being better suited for a CSE/ECE program, it enables the possibility of students seeing newer applications and possibilities of using computing in these subjects.

- **Common first year program for CSE and ECE.** The first year program is common for both CSE and ECE allowing students to explore both areas and decide which one is more suitable. The common program has courses on Software, Hardware, Mathematics, and Engineering Design.

- **Strong Foundations followed by electives.** The first half of the program focuses on building the foundation, and is highly structured. The second part is for developing the skills and knowledge of the students in various topics – computing and application domains. This part also provides limited specializations, and students may follow different paths and take different set of courses in it.

- **Building strong communication skills through a communications stream.** World over studies have indicated that engineers are often weak in communications skills. In the BTech program there is a strong emphasis on strengthening communication skills with a Communications stream consisting the courses namely Communications Skills, Critical Reading, Technical Communication

- **Specialization Streams.** Students can do a series of three courses in some areas to gain limited specializations. Areas for specialization include: Image Processing and Machine Intelligence, Data Analytics, Mobile Computing, Security and Privacy, Computational Biology, Wireless, VLSI, etc.
- **Project and Research focus.** Most advanced courses have course projects. In addition, there is a student "Independent Project" or "Independent Study" or "Undergraduate Research" course. A student can also do a BTech project in 3rd &/or 4th year.
- **Math and Engineering Science Streams:** There are two core math courses: Advanced Calculus and Probability and Statistics. In addition, students do two Engineering Science courses like Digital Communications, Transducers, Signals and Systems, Earth Sciences, or two more Math courses.
- **Humanities and Social Sciences:** To broaden their understanding of the world around and their understanding, students have to do at least 12 credits of Humanities and Social Sciences Courses. Topics include: Technology and Society, Psychology, Perspectives of Knowledge,
- **Broader Connect with Society and Self.** Students have to do 2 credits of Community Work and 2 credits of Self Development each. Students can also do a "Domain Study" course for credit in which they can study a domain in depth over a summer.
- **Honors Program.** For students capable of handing more challenges, there is a provision of honors program. Only students with some CGPA can opt for it, and they have to do extra courses and projects.
- **Minor Option.** An option for minor has also been provided. (The details are being worked out for implementation)

For the **M.Tech programs**, IIIT-Delhi subscribes to the view that a Masters degree is primarily industry-focused, though it can be used as a stepping stone for research as well. And the decision whether the degree is to be pursued for skill and knowledge upgradation or also for building research skills should rest with the student. With this objective, the M.Tech program allows students to develop high-end engineering skills through advanced courses and specialization streams, and also provides options for doing research. Some highlights of the program are:

- **Credit based program.** Like many of the universities in the US, our M.Tech program is credit-based (and not duration-based) – a student has to earn some credits to complete the degree. This allows students some flexibility, depending on their interests and capability.
- **Specializations within CSE or ECE:** The Institute also feels that to address the needs of the industry, which today requires more specialized manpower as each field is getting more complex, it is desirable to provide specializations within CSE or ECE in the M.Tech program. For this, the Institute permits a student to get a specialization by earning certain number of credits in that area and do his/her thesis or scholarly paper in it. Currently the specializations being offered are:

- **Information Security Specialization (CSE)**
- **Data Engineering Specialization (CSE)**
- **Mobile Computing Specialization (CSE)**
- **VLSI and Embedded Systems (ECE)**

- **Option for Thesis or Scholarly Paper:** M.Tech(CSE) may be done with a thesis, or without a thesis but with a scholarly paper. In both options, students have to do certain amount of course work. In addition, students doing M.Tech with thesis will have to do a thesis. Students in without thesis option have to do additional courses, and instead of a thesis will have to do a scholarly paper. The course requirement for scholarly paper option is higher.

- **A Small Core:** Within the course work requirement, each MTech student has to earn 12 to 16 credits from core courses. The goal of this is to ensure that foundations in basic areas are further strengthened.

- **Project Focus:** Most PF courses have group course projects in them. Independent Study, or Minor Project can also be taken. This is in addition to Thesis/Scholarly paper.

- **Flexible Internships:** Internships are not mandatory, but students are encouraged to do them. The credit-based system allows for flexibility to students to do internships for summer or summer plus a semester. Many students and companies prefer the latter option.

The PhD program is, as it is in most of the top universities of the world, focused around a research thesis. There is a moderate course requirement (of about 8 courses), followed by the thesis. PhD students are required to make a yearly presentation, and submit a yearly progress report. Thesis review requires external examiners. No PhD has yet been granted from IIIT-Delhi.

Award of Degrees and Medals

Master of Technology, CSE (List of Graduating Students)

LIST OF STUDENTS GRADUATING WITH MTECH (CSE)				
MTECH (CSE) WITH SPECIALISATION IN INFORMATION SECURITY				
Sl. No.	**Roll No.**	**Name**	**WITH Specialisation (IS)**	**Completed Course on**
1	MT11001	Abhishek Kumar	Pending	Expected to graduate on 21 December, 2013
2	MT11002	Arpan Jati	Yes	21-Aug-13
3	MT11003	Arun Kumar Jindal	Yes	21-Aug-13
4	MT11004	Megha Agrawal	Yes	21-May-13
5	MT11005	Monika Singh	Yes	21-May-13
6	MT11006	Piyush Yadav	Yes	21-May-13
7	MT11007	Prachi Jain	Yes	Expected to graduate on 21 December, 2013
8	MT11010	Snigdha Sucharita	Yes	21-Aug-13
9	MT11011	Sonia Soubam	Yes	21-May-13
10	MT11012	Srishti Gupta	Yes	Expected to graduate on 21 December, 2013
11	MT11013	Sumesh Manjunath R	Yes	21-May-13
12	MT11014	Tarun Kumar Bansal	Yes	21-Aug-13
13	MT11015	Vartika Srivastava	Yes	21-May-13
14	MT11016	Vidushi Chaudhary	Yes	21-May-13
15	MT11017	Vivekanand	Yes	21-May-13
MTECH (CSE) WITH SPECIALISATION IN DATA ENGINEERING				
1	MT11018	Abhishek Kumar Singh	Yes	21-May-13
2	MT11019	Aditi Sharma	Yes	21-May-13
3	MT11020	Ankita Likhyani	Yes	21-Aug-13

4	MT11021	Annapurna Samantaray	Yes	21-May-13
5	MT11022	Deepti Azad	Yes	21-May-13
6	MT11023	Kritika Rani	Yes	21-May-13
7	MT11024	Megha Gupta	Yes	21-Aug-13
8	MT11025	Neha Bansal	Yes	21-May-13
9	MT11026	Prabha Rathinam M.	Yes	21-Aug-13
10	MT11027	Radhika Tayal	Yes	21-May-13
11	MT11028	Rahul Mishra	Yes	21-May-13
12	MT11029	Rajeev Kumar	Yes	Expected to graduate on 21 December, 2013
13	MT11030	Satadipa Chakraborty	Yes	21-May-13
14	MT11031	Saurabh Shakyawar	Yes	21-May-13
15	MT11032	Shuchi Mala	Yes	21-Aug-13
16	MT11033	Shruti Sharma	Yes	21-May-13
17	MT11034	Swati Agarwal	Yes	21-May-13
18	MT11035	Vandna Sharma	Yes	21-May-13

Bachelor of Technology
CSE (List of Graduating Students)

LIST OF STUDENTS GRADUATING WITH B.TECH. (CSE)				
Sl.No.	**Roll.No.**	**Name**	**DEGREE**	**Completed Course on**
1	2009001	Aadish Gupta		21-May-13
2	2009003	Kumar Abhinav		21-Aug-13
3	2009006	Abhishek Singh		21-May-13
4	2009008	Akashdeep		21-May-13
5	2009009	Akshit Nanda		21-Aug-13
6	2009011	Anish Kumar		21-Aug-13
7	2009013	Anshul Tayal		21-May-13
8	2009014	Anuj Sharma		21-May-13

9	2009015	Anupam Singhal		21-May-13
10	2009018	Chirag Gupta		21-Aug-13
11	2009019	Daksha Yadav	With Honors	21-May-13
12	2009021	Jatin Kumar		21-May-13
13	2009022	Lakshay Gupta		21-Aug-13
14	2009023	Lakshay Pandey		21-Aug-13
15	2009025	Mayank Pundir		21-May-13
16	2009026	Mudita Khurana		21-May-13
17	2009027	Naman Kohli	With Honors	21-May-13
18	2009028	Naved Alam		21-Aug-13
19	2009029	Nikhil Mahajan		21-May-13
20	2009030	Nikita Dagar		21-May-13
21	2009031	Nishtha Khanna		21-May-13
22	2009032	Pranav P Raj	Expected to graduate on 21 December, 2013	
23	2009033	Prashant Singh		21-May-13
24	2009034	Priyanshi Mittal		21-May-13
25	2009035	Raghav Sethi		21-May-13
26	2009036	Rahul Bhatnagar		21-Aug-13
27	2009038	Ramjot Singh Sandhu		21-Aug-13
28	2009039	Rohit Dixit		21-Aug-13
29	2009040	Rushil Khurana	With Honors	21-May-13
30	2009041	Sanchit Garg		21-May-13
31	2009042	Saurav Bose		21-May-13
32	2009043	Shashwat Goel		21-May-13
33	2009044	Shiva Lawaria		21-May-13
34	2009047	Surbhi Jain		21-May-13
35	2009048	Suvan Raj		21-Aug-13
36	2009049	Swetank Kumar Saha	With Honors	21-May-13

37	2009050	Tarang Chugh	Expected to graduate on 21 December, 2013	
38	2009051	Tarun Vashisth	With Honors	21-May-13
39	2009052	Vani Sivasankar	With Honors	21-May-13
40	2009053	Varun Gandhi		21-May-13
41	2009054	Varun Sachdeva		21-May-13
42	2009055	Aayush Jain	With Honors	21-May-13
43	2009057	Akash Vanjani		21-Aug-13
44	2009058	Mannika Solanki		21-May-13
45	2009059	Mehak Soni		21-May-13
46	2009062	Sanchit Sharma		21-Aug-13
47	2009065	Divya Bansal		21-May-13
48	2009066	Saloni Jain		21-May-13
49	2009067	Srishty Grover		21-May-13
50	2009069	Surabhi Kabra		21-May-13
51	2008004	Adesh Verma		21-Aug-13
52	2008036	Naman Ladha		21-Aug-13

Medals & Prizes

THE CHANCELLOR'S GOLD MEDAL for the best academic record and highest CGPA of all the graduating students in the entire B.Tech. program to:

Mayank Pundir
2009025

ALL ROUND PERFORMANCE MEDAL for the overall performance in curricular and extracurricular activities in the B. Tech. program to:

Raghav Sethi
2009035

Best M.Tech. Thesis Award for the best M. Tech. thesis to :

Sumesh Manjunath R
MT11013

Faculty

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Unmanned Vehicle (aerial, underwater, and surface), Multi-robot systems, Guidance and Control
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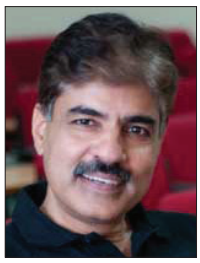

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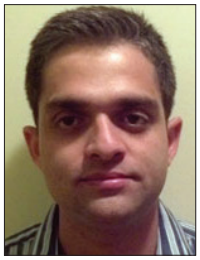

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Dr. Avinash Chander (Head, DRDO, SA to RM & Secretary Defense R&D and DG R&D)	**Member**
Dr. Rajiv Sharma (Executive Director, Indo-U.S. Science and Technology)	**Member**
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Mr. A. Mohan (Director General, National Informatics Centre, DIT, Min of Communications)	**Member**
Mr. Kiran Karnik	**Chairman, BOG, IIIT Delhi**

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Mr. Arun Seth (Chairman, Alcatel-Lucent India Ltd.)	**Member**
Mr. S. Mahalingam (Chief Financial Officer(CFO) & Executive Director, Tata Consultancy Services)	**Member**
Prof. Ranjit Roy Chaudhury (President, Delhi Medical Council)	**Member**
Prof. Surendra Prasad (Former Director, IIT Delhi)	**Member**
Prof. Narendra Ahuja (Director, ITRA)	**Member**
Mr. Shakti Sinha (Principal Secretary (Fin))	**Member**
Mr. Rajendra Kumar (Secretary (TTE))	**Member**
Prof. Pankaj Jalote	**Director, IIIT Delhi**

Oath

I hereby pledge that it shall be my constant endeavor :

to be scrupulously honest in the discharge of my duties as Engineer and Scientist;

to uphold the dignity of the individual and the integrity of the profession;

to utilize my knowledge of Technology and Science for the glory of the Institute and in the service of the country & mankind at large.