Dear IITD friends and well-wishers,

I am happy to present the July 2019 issue of the institute’s quarterly newsletter to you.

It highlights the major academic achievements, research work, collaborations and extra-curricular activities in the institute. It also showcases the accolades our alumni have received.

Your comments and suggestions are welcome to make the next issue of the newsletter more interactive.

Warm regards,

V Ramgopal Rao  
Director, IIT Delhi
Institute lecture by Dr. G. Satheesh Reddy, Chairman, DRDO

Dr. G Satheesh Reddy, Secy, Department of Defence R&D and Chairman, DRDO delivered an institute lecture on April 25, 2019. The topic was “Migration to Indigenous Defence Technologies: Contributions from DRDO”. The lecture was jointly organised by IIT Delhi, Aeronautical Society of India (ASI) and DRDO-IITD Joint Advanced Technology Centre (JATC).

ITD’s Deep Technology Incubator Program facilitates PhD, Masters students to become entrepreneurs

IIT Delhi invited applications from innovators/startups working in deep technology domains for admission to PHD Incubator Program through its autonomous body FITT. The Platform for Harnessing Deep technologies (PHD) incubation program intends to support emerging futuristic technologies (few examples are Connected Intelligent Systems, mixed reality, advanced materials, nanorobotics, drugs and vaccines; drug delivery systems) requiring advanced R&D.

IIT Delhi, O/o PSA sign MoU to set up Centre of Excellence for Waste to Wealth Technologies

Principal Scientific Advisor to the Govt of India, Prof K. Vijay Raghavan and Director, IIT Delhi, Prof V. Ramgopal Rao signed an MoU on May 02, 2019 for setting up a Centre of Excellence for Waste to Wealth Technologies for implementation of sustainable, scientific and technological solutions for waste management, through validation and deployment of available technologies for transformation of waste to wealth.

Centre of Excellence for Promotion of Computational Fluid Dynamics inaugurated

Under a CSR Agreement signed between IIT Delhi and Pune headquartered ANSYS Software, a Centre of Excellence (CoE) for Promotion of Computational Fluid Dynamics (CFD) has been set up at IIT Delhi. ANSYS Software, an Indian subsidiary of ANSYS Inc, one of the largest CFD software developers, has agreed to fund the CoE as a CSR project. The Centre was inaugurated on May 02, 2019 in the presence of IITD Director Prof V. Ramgopal Rao; Mr. Rafq Somani, Area Vice President, India & South Asia, ANSYS; Prof Vivek Buwa, Coordinator of the Centre and other senior functionaries from both sides.

PTC launches its Industry 4.0 technology suite at IITD-AIA Foundation for Smart Manufacturing

PTC launched its Industry 4.0 technology suite at IITD-AIA Foundation for Smart Manufacturing (FSM), at IIT Delhi to the Manufacturing Industry on May 9, 2019. This marked the beginning of a strong relationship between private technology companies like PTC, academia (IIT & FSM) and government initiatives (SAMARTH UDITYOG). The event showcased live demonstrations of PTC’s solutions - Industrial IoT and Augmented Reality (AR) technologies.

India Today’s Best Colleges Survey: IIT Delhi declared No.1 Engineering Institute

The India Today Group’s Survey of the Best Colleges in Education in India has declared IIT Delhi as No.1 Engineering Institute in the country. The survey was conducted by Marketing and Development Research Associates (MDRA), a reputed Delhi-based market research agency between November 2018 and April 2019.

Welcoming the findings of the Survey, IITD Director Prof Rao said that the primary focus at IIT Delhi is to encourage a culture of entrepreneurship and research, right from the B.Tech to the PhD level.
IIT Delhi initiates industry funded Joint PhD Programme with National Chiao Tung University (NCTU), Taiwan

IIT Delhi and National Chiao Tung University (NCTU), Taiwan signed a Memorandum of Understanding (MoU) on May 17, 2019 to establish and offer a Joint Doctoral Degree Program (JDP). An academic and student exchange will be developed through the JDP whereby students who successfully complete all the requirements of the program will be awarded a joint degree for the thesis by both institutions.

Young Researchers Symposium 2019

Young Researchers Symposium, a 3rd in the series of ambitious gathering of young minds, was organized by the Department of Textile Technology, IIT Delhi from May 15 to 17, 2019. The symposium aspired to bring all young researchers and students affiliated to Textiles, Fibers and Polymers together for a mutual exchange of ideas and opportunities to pursue a scientific career and future collaborations.

IIT Delhi joins Heritage Network: An Indo-European network of Technical Higher Education Institutions

IIT Delhi was inducted as a member of the Heritage Network on May 27, 2019. Prof Sanjeev Sanghi, Dean, International Programmes represented the institute in the General Assembly meeting of the network that was held at Instituto Superior Tecnico, Lisbon, Portugal. Ecole Centrale Nantes is currently running the “Heritage Network” with 19 leading Technical institutions - represented both by the EU and Indian partners.

The Heritage Network is a consortium of 25 leading technical Higher Education Institutions jointly engaged in cooperations through academic activities addressing common priorities of national interest and well-being.

CART to promote interdisciplinary research in Electric Vehicles and related areas

IIT Delhi inaugurated the Centre for Automotive Research and Tribology (CART) on May 31, 2019, with a vision to become an internationally recognized centre in teaching, research, and technological service in the area of Electric Vehicles, Energy Storage & Monitoring, Automotive Health Monitoring, Calibration & Diagnostics and Tribology. CART has emerged from ITMMEC, a centre established in the 70’s that focused on Industrial Tribology and was nationally and internationally an acclaimed research centre in its focus area. Prof B K Panigrahi from Dept. of Electrical Engineering has been appointed CART’s first Head.

IIT Delhi organised Open House for females who qualified in JEE (Advanced) 2019

A special Open House was organised on June 23, 2019 for female candidates who qualified in JEE (Advanced) - 2019. During the counselling process the female candidates got an opportunity to discuss their choices of branch/institute with faculty, current students, and alumni. Representatives from IIT Mandi also joined the Open House and shared information about their campus. The Open House was organised under the aegis of Initiative for Gender Equity and Sensitization (IGES), a unit of IITD that was created on March 08, 2018.

CERCA organises workshop on air quality

The Centre of Excellence for Research on Clean Air (CERCA) organized a workshop on air quality “The Path to Clean Air - Reducing Fine Particulate Matter (PM) Concentrations” at IIT Delhi in association with the US Embassy in India on June 25, 2019. A unique feature of the workshop was sharing of the US success story in tackling air pollution by the US Science Envoy Dr. James Schauer, Professor of Civil and Environmental Engineering at the University of Wisconsin-Madison.
Development of nanofibers to improve the capacity and cycle life of lithium-sulfur batteries

The increasing power demand of modern portable electronics and electric vehicles spurred the development of energy-dense lithium-sulfur batteries. However, the low sulfur utilization caused by the insulating nature of sulfur and the dissolution of LiPS (intermediate products formed during the electrochemical reaction) into the liquid electrolyte, respectively, lead to the low capacity and short cycle life of the batteries. To address these challenges a team of researchers from IIT Delhi led by Prof. Bhanu Nandan, Department of Textile Technology, have developed nanofibers, which could be directly incorporated in the sulfur cathode of lithium-sulfur batteries at very low concentration to improve the specific capacity as well as cycle life of the batteries. The work has appeared in Journal of Power Sources, 2019, 431, pp. 250-258.

Heartfulness meditation may improve well-being and health: Study

Dr. Narendra Kumar Arya, the first PhD graduate from IIT Delhi in the area of Yogic Sciences, in his PhD thesis that was awarded in November 2018, found heartfulness meditation based programs to have a significant impact on human well-being.

His thesis comprised of three sub-studies. These were conducted under the guidance of Prof. Kamlesh Singh and Prof. Anusree Malik at the National Resource Centre for Value Education in Engineering (NRCVEE), IIT Delhi. The first study, published in International Journal of Research in Management & Social Science in 2017, was conducted at CREST Bengaluru. The findings showed a significant improvement in the mental health, flourishing, positive experiences and Sat-Chit-Ananda of the participants.

Frequency and sensitivity enhancement for signal detection

Researchers led by Dr P K Muduli at Spin Dynamics Lab, IIT Delhi has proposed a new design strategy for developing a novel Spin Diode for Radio Frequency (RF) detection by utilizing an effect known as Voltage Controlled Magnetic Anisotropy (VCMA). The spin diode consists of two thin ferromagnets separated by an ultrathin insulating layer. The proposal allows these devices to operate at very high frequencies (~5 GHz) with an unprecedented high detection sensitivity of 3×105 mV/mW, that exceeds the commercial semiconductor diode based RF detectors which has a maximum sensitivity of around 3,800 mV/mW.

IIT Delhi’s CAS to develop India-specific heat stress tolerance thresholds

The Centre for Atmospheric Sciences (CAS, IIT Delhi) is conducting a study to develop India-specific heat stress tolerance thresholds. This study is part of a project “Heat Stress Index for India: projection for near future (HIIPROF)” undertaken by IIT Delhi, in partnership with 5 other institutes of India. Heat stress is felt by the body when exposed to heat in the summer. The project will help in formulating a better and efficient heat management plan across the country as heat stress is expected to increase due to global warming. Prof. Sagnik Dey from CAS is the project’s Principal Investigator.
RESEARCH & INNOVATION

Flexmotiv develops Flexmo™, a first self-standing crutch

IIT Delhi incubated startup Flexmotiv has developed Flexmo™, a first self-standing crutch with novel non-slip tip design. Flexmo™ has been designed to provide ultra-stability in all types of terrain, unlike what is currently available. So, it won’t get stuck in sand and slip in mud or smooth surfaces. The crutch is made of aircraft-grade aluminum material and the cushion is of EVA which is more durable. Flexmo has a sleek, lightweight body unlike other crutches which are heavy and hard to handle. Srinivas Adepu, Chief Technology Officer, Flexmotiv said, “The crutch is a direct replacement for existing axillary crutches. Temporary or permanent, Flexmo can greatly improve their mobility, which enhances their quality of life.”

TouchVision SmartStand for visually impaired

IIT Delhi incubated startup TouchVision’s SmartStand enables affordable independent access to printed text for visually impaired people. It is a foldable and portable scanning stand that holds smartphone in proper position for fast, precisely aligned scans for any form of print i.e. documents, books, cheques, newspapers, tickets and business cards. Ankita Gulati, TouchVision’s Founder & CEO, said, “Its easy and intuitive mechanism enables visually impaired to use any smartphone application to scan their documents in real time and listen to the scanned text in their preferred language as compared to conventional imported scanners which are bulky, expensive and are only for English text.”

Nanostructured thin-film electrodes for solid oxide fuel cells

Mechanistic elucidations of the rate-limiting processes in solid oxide fuel cells (SOFCs) are leading the rational design of the electrode materials for a high performance SOFC. In a geometrically well-defined combined experimental and theoretical study, researchers at the Renewable Energy and Chemicals (REC) group have shown cation segregation to the surface of layered perovskite electrode materials, responsible for limiting the SOFC performance. Consequently, this is acting as a stumbling block in the commercial success of the SOFCs. The researchers are therefore investigating a mechanism to control cation segregation at the molecular level, so as to significantly improve upon the performance of the SOFC. This is thoughtfully conducted in nanostructured fabrication of the electrode material in the form of a thin-film or a nanoparticle. The scientific results are expected to address the technological breakthroughs required for the materials discovery in the development of a commercial SOFC device. Research findings are recently published in ACS Applied Materials & Interfaces, a high impact journal of the American Chemical Society (ACS).
INDUSTRIAL RESEARCH & DEVELOPMENT (IRD)

Sponsored Research Projects & Consultancy Jobs undertaken through IRD Unit during April - June 2019

- 64 Sponsored Projects with sanctioned value to the tune of Rs. 29.22 Crores.
- 82 Consultancy Jobs with a total sanctioned value of Rs. 3.87 Crores.

High Value Sponsored Research Projects (with sanctioned value Rs. 100 Lacs and above) undertaken during April - June 2019

- “Design and demonstration of sustainable building infrastructure” sponsored by Yardi Systems, USA under CoE for Sustainable Infrastructure (Sanctioned Value: Rs. 670.97 Lacs).
- “Design, fabrication and testing of a High Efficiency Vertical Axis Wind Turbine (VAWT) and optimization of VAWT Farm” sponsored by MHRD, MNRE & Industrial Boilers Ltd. under UAY scheme (Sanctioned Value: Rs. 365.40 Lacs).
- “Direct 3D Bioprinting strategies to study articular cartilage development, degeneration and regeneration” sponsored by DBT (Sanctioned Value: Rs. 144.07 Lacs).
- “Virtual Immersion in Under-Water Sites” sponsored by DST (Sanctioned Value: Rs. 138.60 Lacs).
- “Physical Unclonable Function (PUF) based Application Specific IC (ASIC) by Technology-Circuit-System Co-Development for Strategic Applications” sponsored by the Office of the Principal Scientific Adviser, GoI (Sanctioned Value: Rs. 132.30 Lacs).
- “High-resolution climate scenarios for basin-scale water resource management applications” sponsored by the Ministry of Water Resources, River Development & Ganga Rejuvenation (Sanctioned Value: Rs. 131.00 Lacs).

Realisation of Inter-institutional Interdisciplinary and Collaborative Research Projects

- Ongoing 25 research projects on health care between IIT Delhi and AIIMS, New Delhi (Sanctioned Value: Rs 10 lakh by IITD and Rs 10 lakh by AIIMS per project).
- Seven research projects on Agricultural Research are under review between IIT Delhi and ICAR, New Delhi
- Call for Collaborative Research Project Proposals between IIT Delhi and NIT, New Delhi in pipeline

Significant achievements of 37 Faculty Interdisciplinary Research Projects-Call 2016

- Journal publications (jointly by the team) - 16 + 24 (under review)
- List of patents filed (jointly) - 8
- Technology transferred (jointly) - 3
- Projects approved by external agencies (jointly) - 10
- Projects under review by external agencies (jointly) - 14
- Total expenditure by IRD on 37 Projects - Rs 3.56 Cr
- Funds generated through external agency - Rs 25 Cr (from 10 projects)
Corporate Relations

Corporate Social Responsibility (CSR) Funding

IIT Delhi continues to receive financial contribution from its long standing industry partners- Ansys Software Pvt. Ltd and Tower Research Capital. Ansys Software Pvt. Ltd contributed INR 10 Lacs and Tower Research Capital- INR 40 Lacs, respectively towards the CSR activities. Ansys will be collaborating to conduct a technical research project while Tower Research would be sharing the area of interest for spend the CSR contribution made. Corporate Relations is also exploring prospective opportunities to partner with various other Corporates under the CSR umbrella. We expect many meaningful collaborations in the near future panning out and emerging from these continued efforts.

Huawei’s Seeds for the Future Program

IIT Delhi continues to strengthen its relationship with Huawei Technologies Co. Ltd. as Corporate Relations facilitates the second edition of Huawei’s Seeds for the Future Program. Huawei Seeds for the Future is a global initiative which has been successfully operating since 2008. The program has been implemented in 108 countries worldwide and over 4,700 students have participated. It is a scholarship program that sends selected ICT students from top colleges on a fully sponsored two-week study trip to China, wherein they visit Huawei HQ in Shenzhen and research facilities in Beijing, take Mandarin classes and go on cultural excursions to iconic sites such as the Great Wall and Forbidden City.

IIT Delhi Industry Day 2019 - IIIrd Edition

Corporate Relations is proud to announce Industry Day 2019 - the annual flagship event of IIT Delhi, scheduled to be held on 21st September 2019. The event aims to harness and promote the power of Industry-Academia collaborations and showcase cutting edge technology development being conducted by our research community in the pursuit to deliver impactful techno-social and techno-commercial solutions with a global approach. IIT Delhi enjoys strong ties with its leading industry partners, and its talented community is successfully working with over 200 corporates towards furnishing effective technical solutions our nation yearns and create an ecosystem to drive innovation from concept to mass.

Themes of Industry Day 2019
- Sustainable Medical Technologies
- Clean Energy for Sustainable Economy and Environment
- Sustainable Environment
- Emerging Nano and Advanced Materials
- Make in India

Nutanix MoU Signing

Nutanix Technologies, a unicorn and a global cloud computing software company, signed a Memorandum of Understanding with Foundation for Innovation and Technology Transfer (FITT) for long term collaboration between the global R&D teams of Nutanix and Faculty of IIT Delhi in the field of Distributed Systems, Virtualized systems, Artificial Intelligence and Machine Learning for Data Center Management. Under the MoU, Nutanix Technologies has awarded two projects on Learned Index Structures and Network Efficient VM scheduling, to a group of faculty members of the Department of Computer Science Engineering, IIT Delhi.

IIT Delhi - TCS 5G workshop

IIT Delhi - TCS 5G workshop was organised on 13th May’19, with an aim to brainstorm on the key areas of collaboration under 5G that can be pursued forward, in the form of joint research to leverage on the expertise of IIT Delhi. The workshop enabled a broad level of interactions between the TCS Business Units and the faculty members at IIT Delhi. Both the teams endeavored to foster a free flowing cross pollination of ideas and requirements. Some of the key topics, which were discussed and presented jointly, include Application Layer Services (ALS) standards, ALS protocols, SDN/NFV, Network Slicing, Cloud RAN, Fault Management, Planning and Design etc.

Workshop was jointly attended by IIT Delhi faculties like Prof. Anurag S Rathore - Associate Dean, Corporate Relations, Prof. Brejesh Lall (EE), Prof. Monika Aggarwal (CARE), Prof. Huzur Saran (CSE) and key luminaries from TCS, like Mr. Debashis Mitra- CTO Industry Forum and Standards Cell, Mr. Rajeev Shorey- Principal Scientist and many other TCS business unit heads.
FACULTY NEWS

Prof. M. Balakrishnan, Computer Science & Engineering Dept, was conferred the prestigious ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics for research, development, and deployment of cost-effective embedded-system and software solutions addressing mobility and education challenges of the visually impaired in the developing world. The ACM Eugene L. Lawler Award recognises an individual or group who has made a significant contribution through the use of computing technology. It is given once every two years, assuming that there are worthy recipients. Prof. Balakrishnan received the award at the ACM annual awards event on 15th June in San Francisco. The award is accompanied by a cash prize of $5,000.

Prof. Sanjiva Prasad, HoD, Computer Science & Engineering, was appointed Editor-in-Chief of ACM Books (worldwide) in May 2019 for a 3-year term.

In the period April-June 2019, faculty and students from the CSE department published over five major papers in major international journals, and over 15 papers in the top international peer-reviewed conferences such as ASPLOS, DAC, ICDE, EDBT, SIGMOD, WWW, NAACL-HIT, AI-STATS, FORTE, ECIR, TAMC, SpringSim.

ALUMNI NEWS

Alumni contribution

The IIT Delhi alumni community has come forward in large numbers to support their alma mater’s initiatives. A list of major contributions received during April 2019 to June 2019 are as follows:

1. 1983 Pearl Reunion Endowment Fund* Rs 74.91L
2. 1984 Pearl Reunion Endowment Fund* Rs 64.35L
3. 1994 Silver Jubilee Reunion Endowment Fund* Rs 1.96 Cr
4. 1969 Golden Jubilee Reunion Endowment Fund* Rs 1.05 Cr
5. Arun Duggal Contribution Rs 2.00 Cr
6. Prof. P.K. Katti Award Rs 1.50L
7. Rahul Giri Memorial Award Rs 1.50L
8. Prof. J. Nanada Cash Award Rs 3.00L
9. CSE Acceleration Fund Rs 7.76L
10. H. R. Gulati Scholarship Rs 2.00L
11. Buti Foundation Award Rs 3.50L
12. Nirmal Prasad Jain Scholarship Rs 1.00L
13. O.P. Gupta Gold Medal Rs 4.70L
14. CSE Anshul Kumar Chair Rs 7.60L

Total Rs. 6.73 Cr

*Cumulative Fund

Interactive session with esteemed alumni of 1995 batch, IPS Mr. Amit Lodha

The Alumni Affairs and International Programmes (AAIP), IIT Delhi organized an interactive talk session with IPS officer Mr. Amit Lodha, an esteemed alumnus of 1995 Batch. Bestowed with the President’s Police Medal for Meritorious Service, the Police Medal for Gallantry and the Internal Security Medal, Mr. Lodha has recently released a collection of his memoirs in the form of a book, titled “Bihar Diaries: The True Story of Catching Bihar’s Most Dangerous Criminal”. The book shall soon be adopted in a Bollywood movie, to be directed by Mr. Neeraj Pandey.

During the event, IIT Delhi Alumni Association presented a cheque of Rs 150,000/- to Mr. Amit Lodha to support the government’s initiative ‘Bharat Ke Veer’.
OPEN HOUSE 2019

IIT Delhi organised the 15th Open House exhibition for demonstration of new and ongoing research work to the school students on 20th April, 2019. More than 3500 students from about 100 Delhi-NCR schools attended the one-day event.

The idea was to inspire and motivate especially the young students towards science and provide them exposure to the latest research and innovation related activities at IIT Delhi, which is impacting the society and industry. Prof. J.P. Singh, Dept of Physics, was the Chairman of Open House 2019.

The students witnessed more than 60 demonstrations presenting the ongoing research by various departments at IIT Delhi.

There were around 300 posters in the area of health, energy, clean air & water, artificial intelligence, robotics, and nanotechnology for the visitors.

Speaking on the occasion of Open House 2019, Prof. V. Ramgopal Rao, Director, IIT Delhi said: “On a campus like IIT Delhi, there is so much happening. It is a campus buzzing with activity day-in and day-out. Projects range from agriculture to security to healthcare to atmospheric sciences. It is important to expose children to some of these research activities early on. They may not understand everything, but they will have life long memories of what they see or hear during their day long interactions and visits to the research labs. Sometimes it is these small triggers or casual interactions that shape one’s future career.”
INTERNATIONAL DELEGATIONS

Malawi High Commission (April 09, 2019)
A 3-member delegation from Malawian High Commission, Department of Human Resource Management and Development, Malawi visited the institute.

Abuja Graduate School, Nigeria (April 16, 2019)
Dr. E.J. Okoli, Ex-Vice Chairman, Abuja Graduate School, Garki, Abuja, Nigeria visited IIT Delhi with a strong interest in Cyber Security Training and Software Development Skills.

University of Hong Kong (April 18, 2019)
A 6-member delegation led by Director Dr. David Cheng Global Engagement Office, University of Hong Kong visited the institute to explore research collaboration opportunities between the two institutions.

Industrial Bank of Korea, South Korea (April 18, 2019)
A delegation from Industrial Bank of Korea visited to sign an MoU with IITD.

Taipei Economic and Cultural Centre (April 23, 2019)
A 4-member delegation from four different universities in Taiwan visited IIT Delhi and discussed latest academic development in mechanical engineering and introducing some programs and scholarships between IIT Delhi and various universities in Taiwan.

St. Mary’s University, Canada (May 1, 2019)
Dr. Malcolm Butler, VP Academic & Research, St. Mary’s University, Halifax, Canada visited the institute to explore the opportunities and possibilities of establishing academic & research partnership between IIT Delhi and St. Mary’s University.

Embassy of Republic of Iraq (May 3, 2019)
Dr. Mushtaq Shakir Al Shibani, Cultural Office, Embassy of Republic of Iraq visited the institute to discuss about educational cooperation between India and Iraq.

YUVA NGO (May 6, 2019)
A 3-member delegation led by Jawahar Lall Athal (Executive Director) YUVA NGO, Mauritius visited the institute to learn about the latest events at IIT Delhi.
INTERNATIONAL DELEGATIONS

University of Porto, Portugal (May 20, 2019)
A 3-member delegation led by Director of Communication and Cooperation, Prof. Carlos Oliveira, Faculty of Engineering, University of Porto, Portugal visited the institute to discuss the mobility agreement for student exchange.

University College of Dublin, Ireland (May 21, 2019)
Prof. Gerardine Doyle, Associate Dean, UCD College of Business, University College of Dublin, Ireland visited IIT Delhi to explore the collaboration opportunities.

National Cheng Kung University, Taiwan (May 21, 2019)
A 4-member delegation from National Cheng Kung University, Taiwan visited the institute to enhance interaction between IIT Delhi and NCKU, Taiwan.

Cardborigami, Los Angeles, CA, USA (May 23, 2019)
Ms. Tina Hovsepian, an Architect and founder of Cardborigami visited IIT Delhi to share her work and interests.

Weizmann Institute of Science, Israel (June 6, 2019)
Dr. Iris Good, Chairman and MD, Good Relations India represented the Weizmann Institute of Science, Israel during her visit. She discussed the possible collaboration for student exchange and research between IIT Delhi and Weizmann Institute of Science.

Embassy of China (June 21, 2019)
A 3-member delegation led by Dr. Bai Jie, Counsellor, Embassy of China visited the institute to learn about IIT Delhi’s expertise in science, technology, research and innovation. The delegation also visited Nano Research Facility and Assistech laboratory at IIT Delhi.

MoUs / Agreements signed with Foreign Universities / Institutes

- Agreement between IITD and Macquarie University, Australia (April 03, 2019) to establish a student exchange program.

- IITD and Arab Academy for Science Technology Egypt signed an MoU on April 25, 2019 to facilitate sustainable innovation through collaboration/partnership aiming at providing high educational standards, transferring knowledge, Science and technology including entrepreneurship and joint activities.

- IITD and University Newcastle Upon Tyne, UK signed an MoU on May 15, 2019 for Student Exchange, Joint Research Activities, Staff and Teaching Exchange and Joint Conferences.

- IITD and National Formosa University Taiwan signed MoU on June 10, 2019 and agreed for academic cooperation in various areas of mutual interest.
SPORTS & CULTURE

BSA NIGHT organised to felicitate outgoing captains and vice-captains

‘BSA NIGHT’ was organized in April to felicitate the outgoing captains and vice-captains of the various teams for their excellent work in leading their teams throughout the year, ‘Institute Tie’ and ‘Institute Blazer’ were awarded to the outgoing seniors for their significant contribution to sports at IIT Delhi. The PG players of the IITD contingent were also facilitated on this occasion.

Annual Summer Camp

The annual summer camp was organized in May to prepare the athletes for the upcoming Inter IIT and various other tournaments. Freshers were trained under the watchful eyes of the coach and senior players to take the place of outgoing players. Summer camp also provided time for the new teams to gel and plan new strategies.

IITD ties up with Go Speed Sprint Academy

IIT Delhi has tied up with Go Speed Sprint Academy to provide world class athletic training under the guidance of experienced coaching staff consisting of former International Athletes in Sprints/Hurdles and US certified Track and Field coach. The sessions were conducted under Mr. Amit Khanna, an International Athlete and fastest man of India from 1995-1998.

International Day of Yoga 2019 celebrations at IITD

The International Day of Yoga 2019 was celebrated on the campus with faculty, staff and students participating in various events organised by the Wellness Club, IITD.

- Run for Yoga.
- Morning Yoga session was conducted under the guidance of Yogi Haimanti Mukhopadhyay.
- Yoga competition: Participants were tested for five Yoga Asanas - Halasana, Naukasana, Natarajsana, Sarvang asana and Ardha Matsyendrasana.
- Panel Discussion on 'Yoga: Science or Pseudoscience'.
- Dr. Krishna Kant Shukla filled the atmosphere in the colors of bhakti yoga.