Dear Friends and Well-wishers of IIT Delhi,

I am happy to present the August 2021 Issue of the Institute Newsletter to you.

This Issue will give you glimpses of the academic achievements, research & innovations, collaborations and alumni contributions.

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

Warm regards,
V. Ramgopal Rao
Director, IIT Delhi
In the QS World University Rankings 2022, IIT Delhi has shown an improvement in the scores of 5 out of 6 metrics this year thereby witnessing an overall improvement in its ranking. Prof. V Ramgopal Rao, Director, IIT Delhi said, “We shall continue to contribute to India and the World through excellence in scientific and technical education and research; serve as a valuable resource for industry and society; and remain a source of pride for all Indians. We are confident that we will be able to further improve our rankings by focusing on our core strengths”.

IIT Delhi Establishes New Department, Centres and Launches New Programs

a) Department of Energy Science and Engineering: The new department has been established essentially for expanding the scope and depth of activities being undertaken by the 45-year-old Centre for Energy Studies (CES). A new program B.Tech. in Energy Engineering will be offered by the department starting from the academic session 2021-2022.

b) Optics and Photonics Centre: In order to take teaching, research, development, and innovation in different areas of optics and photonics to a higher level while keeping a balance between classical and modern areas, IIT Delhi has created ‘Optics and Photonics Centre’.

c) Transportation Research and Injury Prevention Centre (TRIP-C): TRIP-C has been established by converting the ‘Transportation Research and Injury Prevention Programme (TRIPP). The focus of the new centre will be to produce state-of-the-art knowledge to address road transport and traffic safety in India and regions with similar socio-economic conditions.

d) New academic programs: A new program ‘M. Tech in Electric Mobility’ will be offered from the academic session i.e. 2021-22 by the Centre for Automotive Research and Tribology (CART). Another new program ‘Master of Public Policy’ will also be offered in 2021-22 by the School of Public Policy (SPP) with a focus on Science, Technology, and Innovation (STI) and development. The Institute’s Department of Design will also start a new program i.e. Bachelor of Design (B. Des.) from 2022-23.

Supreme Court Judge Inaugurates UJF Lab Facility on AI for Judiciary

Hon’ble Mr. Justice S. Ravindra Bhat of the Supreme Court chaired a discussion on Modeling, Data and AI based Innovations in Judiciary and inaugurated the Universal Justice Foundation (UJF) lab facility on Artificial Intelligence for Judiciary at IIT Delhi. The prestigious event, organised in July 2021, was attended by Prof. Sri Krishna Deva Rao, Vice Chancellor, National Law University, Delhi; Prof. V Ramgopal Rao, Director, IIT Delhi; Hon’ble Justice (Retd.) K. G. Balakrishnan, former Chief Justice of India and Hon’ble Ms. Justice (Retd.) Poonam Srivastava, who introduced the UJF.

Rapid Antigen Testing Kit for COVID-19 Developed by IIT Delhi Launched

A Rapid Antigen Testing kit for COVID-19 developed by IIT Delhi was launched in June 2021 by the former Minister of State for Education, Shri Sanjay Dhotre. The testing kit was developed by a team led by Prof. Harpal Singh from the Institute’s Centre for Biomedical Engineering. Congratulating the researchers and their manufacturing partners, Shri Dhotre thanked IIT Delhi for helping the nation in becoming Atmanirbhar in fighting the pandemic using indigenously developed technologies and Made in India products.
Institute Lecture Series

Dr. Randeep Guleria, Director, AIIMS, New Delhi delivered an online Institute Lecture titled ‘Covid-19: What the pandemic has taught us and the way forward’. Prof. Shahid Jameel, a noted Indian virologist and Director, Trivedi School of Biosciences, Ashoka University has also delivered an Institute Lecture titled “COVID-19 in India: Past, Present, and Future”.

IIT Delhi Collaborates with Delhi Government to Improve Oxygen Infrastructure and Supply Chain Management

IIT Delhi has provided strategic recommendations to the Delhi government for the improvement of oxygen infrastructure and supply chain management in Delhi. A joint team consisting of experts from IIT Delhi, and the Delhi government (Health, IT Department etc) analysed the issues, which were coming in the way of management of oxygen infrastructure within Delhi and developed practical solutions to resolve them to strengthen the fight against COVID-19. Prof Sanjay Dhir from the Department of Management Studies represented IIT Delhi in this effort.

IIT Delhi Launches Grassroots Innovation Programme (GRIP) for Students

Prof K. Vijay Raghavan, Principal Scientific Advisor (PSA), GoI launched ‘Grassroots Innovation Programme (GRIP)’ for students in June 2021, an initiative by IIT Delhi under which the Institute students will work on finding novel solutions to grassroots societal problems identified by them from rural and semi urban areas, including the communities they come from. Lauding the initiative launched by IIT Delhi, Prof K. Vijay-Raghavan expressed hope that GRIP will result in development of several innovative solutions for the society.

IIT Delhi, NLU Delhi Explore Partnership Opportunities in Technology and Law Field

IIT Delhi and the National Law University (NLU), Delhi held a virtual Joint Faculty Workshop in May 2021 to explore research and academic partnerships in the field of technology and law. The workshop was designed as a platform for a meaningful exchange of ideas between the faculty from both institutions. The purpose was also to discuss and work towards specific academic and research projects between IIT Delhi and NLU Delhi.

ISRO to Support Eight Joint Research Projects

The Indian Space Research Organisation (ISRO), GoI, will support eight joint research projects mooted by the Space Technology Cell (STC), IIT Delhi. ISRO will support the projects under its RESPOND program with varying duration of 1-3 years. On the ISRO side, the projects will be coordinated by the agency’s scientists at the Space Applications Centre (SAC), the Liquid Propulsion Systems Centre (LPSC), the Semiconductor Laboratory (SCL) and the Vikram Sarabhai Space Centre (VSSC).
**New Brain-inspired Artificial Neuron for Building Accurate and Efficient Neuromorphic AI Systems Demonstrated**

Researchers at IIT Delhi led by Prof. Manan Suri, Department of Electrical Engineering, have invented a new spiking neuron model named as DEXAT (Double EXponential Adaptive Threshold neuron). The invention is significant as it will help to build accurate, fast and energy-efficient neuromorphic Artificial Intelligence (AI) systems for real world applications like speech recognition. The study was published in Nature Communications. Speaking about the work, Prof. Suri (Principal Investigator) said, “In our research group at IIT Delhi, we extensively work on all aspects of semiconductor memory technology and its emerging applications with academic and industrial partners. Over the last few years, we have successfully demonstrated the utilization of memory technology beyond simple storage. We have efficiently utilized semiconductor memory for applications such as: in-memory-computing, neuromorphic-computing, edge-AI, sensing and hardware-security. This work specifically exploits analog properties of nanoscale oxide-based memory devices for building adaptive spiking neurons.” The research team also included research scholars- Mr Ahmed Shaban and Mr Sai Sukruth Bezugam.

More details: [https://home.iitd.ac.in/show.php?id=29&in_sections=Press](https://home.iitd.ac.in/show.php?id=29&in_sections=Press)

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**IIT Delhi Scientist led Research Team Develops Novel Antifungal Strategy for Fungal Eye Infection**

In an effort to develop a better antifungal strategy for fungal keratitis, an all-women team of IIT Delhi researchers led by Prof. Archana Chugh from Kusuma School of Biological Sciences (along with her PhD students - Dr. Aastha Jain, Harsha Rohira, and Sujithra Shankar) in collaboration with Dr. Sushmita G Shah, Ophthalmologist and Cornea Specialist from Dr. C M Shah Memorial Charitable Trust and Eye Life, Mumbai has successfully developed a novel peptide-based antifungal strategy for enhanced Natamycin penetration. The developed peptide-drug conjugate showed a significant antifungal effect in the lab. Prof Archana Chugh, Kusuma School of Biological Sciences, IIT Delhi said, “These peptides are known to have the ability to carry molecules with them in the cells. Therefore, when poorly permeable Natamycin was attached to the peptide, the formed complex showed better antifungal effect.” In their research study, the scientists found that conjugate drug penetration was 5-fold higher than Natamycin in rabbits, thus enabling lowering of the dosage frequency. Further, 44% of mice showed complete resolution of fungal infection with the novel conjugate as compared with 13% of mice that were treated with Natamycin suspension only.


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**Technology for Hydrogen Utilization in Spark Ignition Engine Generator for Electricity Generation Developed**

Diesel-fuelled internal combustion engine generator for electrical power generation mainly emits carbon monoxide (CO), Hydrocarbon (HC), Smoke, Particulate Matter (PM), Oxides of Nitrogen (NOx) and Carbon dioxide (CO2) emissions resulting in a contribution to air pollution. To tackle this, researchers at the Engines and Unconventional Fuels Laboratory, IIT Delhi developed a new technology and built “Hydrogen fuelled Spark-Ignition Engine Generator” in collaboration with Kirloskar Oil Engines Limited (KOEL), and the Indian Oil R&D Centre for the utilization of hydrogen in internal combustion engines for zero-emission with higher thermal efficiency. “As Hydrogen does not contain carbon, the hydrogen-fuelled engine does not emit any carbonaceous emissions. The emission ‘oxides of nitrogen’ can be controlled to ultra-low level using the appropriate technologies”, said Dr. K. A. Subramanian, Principal Investigator of the project and professor at the Centre for Energy Studies, IIT Delhi.

More details: [https://home.iitd.ac.in/show.php?id=16&in_sections=Press](https://home.iitd.ac.in/show.php?id=16&in_sections=Press)
Nature Experience Helps to Overcome Distractions and Build Focus: Study

Human brain has actually been designed to love nature. This phenomenon is called biophilia (bio=life, Philia = love). Living amid nature and appreciating it not only calms down the mind, but it also improves its performance. In a recent study conducted at the User Experience Lab (UX) Lab, IIT Delhi, it was found that even brief experiences of nature (like a walk in the park, garden; taking care of plants, viewing greenery) can help people to concentrate on their tasks in a better way. The study, ‘Effect of Nature Experience on Fronto-parietal Correlates of Neurocognitive Processes involved in Directed Attention: An ERP study’ has been published in Annals of Neurosciences in April 2021. The research was undertaken by Dr. Pooja Sahni, Research Fellow and Prof. Jyoti Kumar, Dept. of Design, IIT Delhi. Speaking of the study, Prof. Kumar said, “This research is particularly useful where we often feel distracted and fatigued due to overarching demands on our attentional resources posed by our jobs. During such times perhaps a walk in the garden or even viewing nature through our window may help us get back to task in hand in a more focused way.”

More details: https://home.iitd.ac.in/show.php?id=11&in_sections=Press

Startup at IIT Delhi's Incubator Develops Multipurpose Surface Disinfectant

RAMJA Genosensor, a startup incubated at IIT Delhi, has developed a multipurpose organic hybrid surface disinfectant spray known as NANOSHOT. The spray is based on nanoparticles and is completely free of alcohol or hypochlorite. One shot of NANOSHOT will be effective for 96 hours. Dr. Pooja Goswami, Founder, RAMJA Genosensor said, “It has been tested and certified that NANOSHOT starts killing microbes i.e. virus, bacteria, fungi within 30 seconds of its application on the surface and kills 99.9% microbes in 10 minutes. In addition, it is completely non-toxic as there were no allergic reaction, rashes or irritation observed during the test at NABL accredited laboratory.” This one solution comes in three different spray packs for different surfaces. The handy mist spray kit can sterilize car dashboards, car seats, tablets, wallets, books, luggage, lift control panels, TV remotes, microwaves, and other products. Shotgun Spray is suitable for large areas such as receptions, subways, escalators, elevators, sofas, dining areas, meeting halls, metros, buses, schools, washrooms, restaurants, trains, railway stations, airports, and security checks. There is also a regular spray that is useful and simple to use on kitchen slabs, dining tables, bags, bottles, refrigerator surfaces, chairs, keys, showcases, glass objects, etc, and other similar surfaces. Recently, the startup has launched two new fragrances i.e. Lavender and Eukalyptus of NANOSHOT.

More details: https://home.iitd.ac.in/show.php?id=9&in_sections=Press

IIT Delhi Develops Handheld Device for Early and Rapid Diagnosis of Dengue

Common diseases like dengue require a rapid, scalable, and point-of-care diagnosis to be implemented at the community level and to reduce the workload of healthcare professionals. Understanding this, the GLancing Angle Deposition (GLAD) research group at IIT Delhi's Physics Department has developed a handheld Surface Enhanced Raman Spectroscopy (SERS) based platform for early diagnosis of dengue virus. It also gives dengue test result within one hour (rapid diagnosis). The handheld device has been successfully tested on the clinical blood samples collected from hundreds of individuals in collaboration with ICMR-National Institute of Malaria Research (NIMR), New Delhi. The Principal Investigator of the project and professor in the Department of Physics, IIT Delhi, Dr. J.P. Singh said, “This ultrasensitive and handy device has wide range of applications in the early-stage on-site detection of viral diseases and can produce the final report of investigation within an hour.”

More details: https://home.iitd.ac.in/show.php?id=6&in_sections=Press
Industrial Research and Development

Sponsored Projects & Consultancy Jobs Undertaken Through IRD Unit Between April-June 2021

- 57 Sponsored projects with a total sanctioned value of Rs. 63.13 Cr
- 52 Consultancy Jobs with a total sanctioned value of Rs. 4.29 Cr

High Value Sponsored Projects (with Sanctioned Value Rs. 50 Lakhs and Above) Undertaken Between April-June 2021

- High-performance composite fibres- Sponsored by Ministry of Textiles, GoI; Sanctioned Fund- Rs 2752.00 Lakhs.
- Portable and High Precision Compact Gravimeter for Field Applications- Sponsored by Office of the Principal Scientific Adviser, GoI; Sanctioned Fund Rs 970.93 Lakhs.
- Integrated study on emission inventory development, source apportionment and carrying capacity of environment for Durgapur and Asansol-Raniganj, West Bengal- Sponsored by West Bengal Pollution Control Board; Sanctioned Fund Rs 445.13 Lakhs.
- Scientific Management of Natural Resources for Sustainable Development in UBA Clusters of Shivalik Region- Sponsored by DST, India; Sanctioned Fund Rs 295.29 Lakhs.
- Wireless single contact Electrical Power Transmission on conducting surfaces (under DRDO-IITD JATC)- Sponsored by Department of Defence Research & Development, India; Sanctioned Fund Rs 292.94 Lakhs.
- Strengthening Energy and Environmental Research and Teaching Infrastructure through the FIST Programme- Sponsored by DST, India; Sanctioned Fund Rs 184.00 Lakhs.
- Space Technology Cell (STC) activities at IIT Delhi (Main COE project under STC Programme)- Sponsored by ISRO, Department of Space, India; Sanctioned Fund Rs 89.65 Lakhs.
- Centre for Advanced Research and Excellence in Disability and Assistive Technology (CARE-DAT)- Sponsored by ICMR, India; Sanctioned Fund Rs 75.99 Lakhs.
- Urban Water Management to address Water Security of NCT Delhi- Sponsored by Northern Benevolent Fund, India; Sanctioned Fund Rs 69.50 Lakhs.
- Real-time measurement and assessment of ground vibrations induced by metro and high-speed trains moving over elevated viaducts- Sponsored by SERB, India; Sanctioned Fund Rs 69.11 Lakhs.
- Metamaterial impregnated high-speed railway track: A novel approach towards ultra-modulation of vibration- Sponsored by SERB, India; Sanctioned Fund Rs 61.41 Lakhs.
- FIST Project for Department of Mathematics- Sponsored by DST, India; Sanctioned Fund Rs 54.50 Lakhs.
- A wearable system for quantitative assessment and recovery prediction during gait restoration in Parkinson’s and Cerebral Ataxia Patients- Sponsored by DST, India; Sanctioned Fund Rs 54.07 Lakhs.
- Adaptive Credit Policy - Application of Reinforcement learning in Order and Credit Management- Sponsored by BASF SE Germany; Sanctioned Fund Rs 53.04 Lakhs.
- To develop low-cost Indigenous Magnetic Growth Rod for early-onset Scoliosis patients- Sponsored by ICMR, India; Sanctioned Fund Rs 51.54 Lakhs.
- Does PM2.5 composition matter (in comparison to PM2.5 mass) in health impact assessment for the Indian population? - Sponsored by SERB, India; Rs 50.45 Lakhs.
Other Significant Research Activities

• Faculty Interdisciplinary Research Project (FIRP)

Twenty-two joint project proposals were approved between the faculty members of science departments collaborating with engineering and other disciplines.

• Multi-Institutional Faculty Interdisciplinary Research Project (MFIRP)

Regional Centre of Biotechnology (RCB)-IITD MFIRP
Four project proposals were selected for seed funding support based on merit in areas of biotechnology, structural biology, molecular medicine, and therapeutics.

The Hebrew University of Jerusalem, Israel (HUJI)-IITD MFIRP
Five projects were approved for support in areas of Computer Science, Biomedical Science/Life Science, Environment, and Chemistry.

University of Southern Denmark-IITD Joint Workshop

The University of Southern Denmark (SDU), Denmark and IRD, IIT Delhi (India) jointly organized an online workshop on April 7, 2021, to explore future research collaborations. The Consulate for Research & Higher Education, Danish Embassy, New Delhi, also attended the workshop. Faculty members from both sides made presentations on Nanotechnology, Photonics, Materials, Green Technology, Energy Devices, etc. The workshop recommended signing of an MoU on the MFIRP mode between the two institutions.

Interaction-cum-Orientation Meet for New Faculty Members

The IRD Unit organized an Interaction-cum-Orientation session on June 25, 2021, for about 70 new faculty of the Institute. They were provided an interactive opportunity with the senior officials from sponsoring agencies like DST, SERB, O/o PSA (GoI) besides familiarizing them with the IRD processes and guidelines for project, submission, initiation & implementation. The event was chaired by Prof. V. Ramgopal Rao, Director, IIT Delhi.

IIIT-Delhi Ties Up with IIT Delhi to Establish Common Research Programme

Indraprastha Institute of Information Technology Delhi (IIIT-D) has tied up with IIT Delhi for establishing a common research programme to benefit academics and the research arena of both institutions. As part of a Memorandum of Understanding (MoU) signed in July 2021, both institutions will collaborate for joint research in the area of computer science, engineering, management, and social sciences.

IIPE, Visakhapatnam and IIT Delhi Sign MoU

Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam and IIT Delhi signed an MoU in July 2021 to collaborate for research and education in one or more disciplines of science, engineering, management, and social sciences.

For information about COVID-19 research at IIT Delhi, pl visit: [https://home.iitd.ac.in/covid19-response.php](https://home.iitd.ac.in/covid19-response.php)
Faculty Awards & Academic Positions

Prof. Amit Mehndiratta
Centre for Biomedical Engineering, IIT Delhi

Received the “Technology Translation Award (TETRA) 2021” from Science and Engineering Research Board (SERB)

Prof. Smruti Ranjan Sarangi
Computer Science and Engineering Dept., IIT Delhi

Received the “Qualcomm Faculty Award 2021”

Prof. Anupam Dewan
Applied Mechanics Dept., IIT Delhi

Joined the Editorial Board of “Engineering Science and Technology, an International Journal”

Prof. Vasant Matsagar
Civil Engineering Dept., IIT Delhi

Received the “CDRI Fellowship 2021” by the Coalition for Disaster Resilient Infrastructure (CDRI)

Prof. N M Anoop Krishnan
Materials Science and Engineering Dept., IIT Delhi

Received the BRNS Young Scientist Research Award 2021
Advisory Board of Corporate Relations, IIT Delhi

A 7-member advisory board of Corporate Relations was formed in June 2021. The board will provide strategic advice to the Corporate Relations Office (CRO) to help maximise the impact of Industry engagement programmes and review & refine new initiatives taken up by the CRO.

The Board will also help in the implementation of global best practices that enable acceleration of research programmes, establishment and growth of world-class research centres, encouragement of innovation and entrepreneurship, among others.

The first virtual meeting of the advisory board was held on 4th June, 2021, where all the members interacted with the Corporate Relations team and got an overview of the Corporate Relations as it stands today. Prof. Anurag S. Rathore, Dean, Corporate Relations held a brief discussion with the board members around vision and expectations.

Dr. Manan Suri, Assoicate Professor, IIT Delhi signed a consultancy project with TCS (TCS lab: Embedded Device and Intelligent Systems, Kolkata) in June 2021 in the area of research, which include Cognitive Robotics, SNN-based algorithms, corrections, improvement, modification on new algorithms, Implementing and testing the algorithms on BindsNet for Neuromorphic platforms.

### Board Members

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<td>1</td>
<td>Mr. Venkata N. Padmanabhan</td>
<td>Deputy Managing Director, Microsoft Research India</td>
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<td>2</td>
<td>Prof. Soumitra Dutta</td>
<td>Professor, Cornell University</td>
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<td>3</td>
<td>Ms. Punita Kumar-Sinha</td>
<td>Board Member and Investment Professional</td>
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<td>4</td>
<td>Mr. Vishvesh Prabhakar</td>
<td>Managing Director, Accenture</td>
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<td>5</td>
<td>Mr. Abheek Singhi</td>
<td>Senior Partner and Managing Director, BCG</td>
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<td>6</td>
<td>Mr. Vinay Piparsania</td>
<td>CEO, IIT Delhi Endowment Management Foundation</td>
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<td>7</td>
<td>Mr. Ajay Bhardwaj</td>
<td>CEO, Anthem Biosciences Private Limited</td>
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**TCS Consultancy Project**

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Alumni Affairs & International Programmes

International Meetings (Online/ In-person)
- Meeting with Cultural attaché Dr. Khader (Iraq Embassy) on 01/04/21.
- Meeting with Ms. Orly Goldschmidt- Head of Public Diplomacy, Embassy of Israel on 05/04/21.
- Online meeting with Delegation from TU Delft, Netherlands on 07/04/21.
- Meeting with Delegation led by Prof. Chin Tsan Wang, Director of Science and Technology Division, Taipei Economic and Cultural Center (TECC), Taiwan Embassy on 14/04/21.
- Online meeting with Dr. Sanchari Roy from Department of International Development at King's College London on 27/04/21.
- Online meeting with International Relations Director, Eugenia Cannata, and Dolores Smuclir, Coordinator for International Cooperation at ITBA, Argentina on 25/06/21.

Events
UQ-IIT Delhi Workshop on Agriculture Technology: The purpose of the workshop was to identify areas of complementarity within the broad area of agriculture technology that IIT Delhi and University of Queensland (UQ) could collaborate on and partner with other organizations such as the Indian Council of Agricultural Research (ICAR) in India and an organization in Australia. Recognizing the huge potential in the agriculture technology space, both UQ and IIT Delhi are exploring the concept of co-creating a new agriculture technology campus/school in India to expand the current engagement through the UQ-IITD Academy of Research (UQIDAR) with expanded opportunities across research, teaching and learning, entrepreneurship, innovation, and commercialisation. Through the workshop, the institutions are keen to explore potential models and tangible activities including the following: Joint PhD Projects through UQIDAR, Collaborative research activities, Joint Master's program in agriculture technology, Industry engagement.

Memorandum of Understanding (MoUs) signed with
- Korea Advanced Institute of Science and Technology (KAIST) International, South Korea on 10th June 2021 (Renewal)
- University of Waterloo, Canada on 10th June 2021 (Renewal)
- Graduate School of Management, Kyoto University, Japan on 01st June 2021 (Renewal)

Chairs Endowed by Alumni
- Professors Narendra and Chandra Singhi Chair” in Public Policy

IIT Delhi alumnus Mr Abheek Singhi (B.Tech, Chemical Engineering, 1995) has endowed the “Professors Narendra and Chandra Singhi Chair” in Public Policy in the honour of his academician parents Prof. Narendra Kumar Singhi and Prof. Chandralata Singhi. Prof. Narendra Kumar Singhi had a long and distinguished career focusing on Sociological Theory, Sociology of Development, Education, Health and Gender. Prof. Chandralata Singhi taught Chemistry for nearly 35 years focusing on organic chemistry at Maharani College and Kanoria College, Jaipur. She did her PhD on Chemical studies on Indian medicinal plants and published several papers on the topic.
More details: https://home.iitd.ac.in/show.php?id=20&in_sections=Press

Jaswinder and Tarvinder Chadha Chair in Data Analytics
IIT Delhi alumnus Jaswinder (Jassi) Chadha, (B.Tech, Mechanical Engineering, 1990) has endowed a Chair in Data Analytics. The goal of setting up this Chair is to attract the best researchers and practitioners in the area of Data Analytics and Data Science, which is fast becoming a key driver of business productivity and economic growth. Jaswinder's mother, Dr Tarvinder Kaur Chadha was the first woman to get a PhD in Mathematics from IIT Delhi in 1968 and Tarvinder and Jassi are the first parent-child graduates of IIT Delhi. Dr Tarvinder Kaur had a distinguished career in academics and is a widely recognized scholar in fluid dynamics.
More details: https://home.iitd.ac.in/show.php?id=26&in_sections=Press