

VOLUME 2

EDITION - 03



STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR



March 2023

TECHकी बात

“Triumphs & Milestones : Abhivyakti 2023
Annual Startup Fest, Elevating to Global
Standards with Newly Acclaimed Startups and
Flagship Events”



MENTOR MANTRA



Dr. Anshu Agarwal,
Mentor, IIT Kanpur

India has seen rapid growth in the healthcare industry since the COVID-19 pandemic. At present, it is driven by digital advancements, changes in consumer behaviour, and growing demand for accessible and affordable healthcare solutions. Some of the key trends and opportunities in the past few years have been:

- 1. Embracing digital health:** Startups are leveraging digital technologies such as telemedicine, mobile health apps, and wearables to improve access and affordability of healthcare services. Telemedicine has become popular, enabling patients to consult with doctors remotely and reducing the burden on hospitals and clinics. The development of mobile apps have enabled patients to track their health metrics, book appointments, and receive personalised health advice.
- 2. Focusing on preventive care:** Many healthcare startups have shifted their focus from curative care to preventive care. The use of data analytics and AI have helped them to identify health risks and provide personalised preventive care solutions to patients.
- 3. Collaborating with established players:** Healthcare startups are partnering with established healthcare providers such as hospitals and clinics to expand their reach and improve the quality of care. These partnerships also help startups to overcome regulatory hurdles, gain credibility in the market, and access resources that would otherwise be unavailable to them.
- 4. Innovation in diagnostics and therapeutics:** This has a large range from point-of-care diagnostics to gene therapies. These startups are using cutting-edge technologies such as AI and CRISPR to develop new treatments for diseases.
- 5. Addressing social determinants of health:** Healthcare startups in India are addressing social determinants of health, such as nutrition, sanitation, and access to clean water. Some startups are developing solutions to solve the root causes of health problems and aiming to improve the overall health condition.
- 6. Validating Ayurvedic knowledge and online prescriptions:** Healthcare startups in Ayurveda have mobile apps that have started online consultations, prescriptions, and delivery. Ayurvedic practitioners, research organisations, and pharma companies are collaborating to conduct clinical trials of the natural products that are supported by the Ministry of AYUSH.
- 7. Recognizing mental health:** One of the critical areas to be focused on after the COVID-19 pandemic is mental health. Different mental health apps and digital therapeutics are present to destigmatize and raise awareness about seeking care and providing virtual support groups.

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Overall, the advancements in technology and increasing demand for accessible and affordable healthcare will continue to drive innovation in the healthcare industry. An important aspect to keep in mind is the legal issues associated with digital healthcare. Liability and malpractice, data protection, protecting intellectual property, regulatory compliance, licensing and permits are some of the important aspects.

In my opinion, some potential startups in the coming year will be benefited from the Make in India Program by the Government.

1. Virtual and Augmented Reality: These technologies can provide immersive experiences to simulate medical procedures. They also allow medical professionals to practice surgeries or other procedures before performing on patients.

2. Blockchain: Blockchain technology can improve data security, privacy, and interoperability. Blockchain can provide secure and transparent sharing of patients' data among healthcare providers. This can improve the patients' outcome, and trust in the healthcare system.

3. AI and ML: The algorithms can analyse large amounts of healthcare data to identify patterns and provide insights into disease prevention, early diagnosis, and personalised treatment plans. AI can be used to develop predictive models to identify patients who are at risk of developing certain diseases.

4. Biomechanics and motion analysis: Innovative tools and technologies for measuring human movement and analysing biomechanics can be developed. This can help athletes optimise their performance or assist in the rehabilitation of people with injuries or disabilities.

5. Computational drug discovery: Using AI and ML in large amounts can be analysed to develop predictive models of drug discovery, and monitor genomic and proteomic data. This will help to identify the potential drug targets and predict the efficacy and toxicity of the drugs. Cloud computing and High-Performance Computing (HPC) can be used for drug discovery research. Complex simulations can be processed, and datasets can be analysed efficiently.

6. Value-based healthcare: This model focuses on delivering high-quality healthcare services that prioritise patients' outcome and satisfaction. The healthcare providers are given incentives to deliver efficient and effective care with a focus on prevention, early detection, and proactive management of health issues resulting in a patient-centric approach.

In conclusion, healthcare startups are making significant strides in addressing the country's healthcare challenges. With the government's support and favourable policies, the Indian startup ecosystem is poised for growth, and we can expect to see more disruptive innovations in the future. However, these startups must continue to address challenges such as regulatory hurdles, talent acquisition, and funding to scale their businesses to make a meaningful impact on the healthcare landscape.

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LATEST INCUBATION

During March, SIIC IIT Kanpur successfully brought a significant number of startups with novel and innovative technologies. Read on to know about their achievements.



SUCCESS AT SIIC IIT KANPUR

SIIC, IIT Kanpur has set new benchmarks in the incubation ecosystem at both national and international levels through its innovative initiatives. Read on to know more.



ABHIVYAKTI '23

Abhivyakti, the Annual Startups Festival was organised by SIIC IIT Kanpur, the technology business incubator at IIT Kanpur. The event witnessed the convergence of entrepreneurs, Government Officials, and mentors. Read on to know the details about this event.

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MONTHLY INITIATIVES AT SIIC IIT KANPUR

During March, the SIIC IIT Kanpur ecosystem established private partnerships to enhance more promising social impact. Refer to the section for more details.



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PROGRAM HIGHLIGHTS

SIIC IIT Kanpur witnessed significant progress across its various program verticals in March. Check out the section to know more about our grantees, their accomplishments and exciting developments.



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FROM THE IPR AND TECH-TRANSFER CELL

This section highlights the major events happening in the IPR domain and Tech-Transfer Cell. It helps us to gain a better understanding of the technology licensing process at SIIC. Head on to this section to know more.

LATEST INCUBATION



STARTUP
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Cute Brains Private Limited

Cute Brains Private Limited, from the Healthtech domain, has developed a touchscreen application to assist children diagnosed with Dyslexia and Dysgraphia. This startup incorporates auditory feedback, haptic sensation, and motor movement, focussing on detection, diagnosis, certification of Specific Learning Disability (SLD), and neuro-developmental disorders.

Founders:

Braj Bhushan, Gyan Prakash and Manas Sinha



C3i Hub 3rd Cohort

XIOTZ
Get Secured

1. Xiotz Private Limited

Xiotz offers a comprehensive solution to the cost and complexity associated with "Distributed DATA CIA"(Confidentiality, Integrity, and Availability). It converges multiple products into a single solution called extended operation centre, which simplifies the complexities and reduces the cost associated with this. Xiotz XOC integrates the security, network, and threat operation centres into a unified platform, providing a centralized approach to data security.

Founder:
Sheltan T



2. BlockStash Intelligence Private Limited

BlockStash Intelligence is a blockchain security startup having expertise in machine learning, cyber security, and application development. They have a team of dedicated, young, and experienced professionals with guidance from high-level technical advisors to create innovative solutions for the crypto industry.

Founder:
Deepesh Chaudhari





3. Vaticinari Technologies Private Limited

Vaticinari Technologies Pvt. Ltd. intends to build a Software Incident and Event Management (SIEM) tool for Small and Medium Businesses (SMB), which needs an easy-to-use, automated, GUI-rich threat intelligence platform along with a security data lake for analytics. Vaticinari provides deep learning-based models that represent threat intelligence mapped to MITRE ATT&CK, National Institute of Standards and Technology (NIST) and cyber kill chain frameworks. This helps to gain real-time visibility, security data retention, and incident response for regulatory purposes, all enhancing the defense posture.

Founder:
Sudheer Vasant Vaidya



4. Censor Black Private Limited

EquiDEI is an SME asset tokenization platform. EquiDEI validates the authenticity and market value of assets with manufacturing companies to arrange software, automation, and financial services.

The SME sector has liquid assets like real estate, machinery, invoices, and raw materials which can produce a lot of data. With the help of the right tools, it can be used to improve operational efficiency and build trust by bringing transparency into their supply chains. EquiDEI designed a scalable protocol to monetise these assets providing low-risk liquidity options to these SMEs.

Founder:
Raghav Gupta



5. Forensic CyberTech Machines Pvt. Ltd.

This startup is a leading organisation in the field of Digital Forensic and Cyber Technology. FCTM has been establishing cutting-edge forensic labs and providing complete end-to-end investigation services and training. FCTM leverages its extensive experience and expertise to assist both law enforcement agencies and corporations in minimizing risk and obtaining results for investigations of any size or complexity. Their approach involves utilizing the latest technology and information to technically design, develop, and customize tools that provide practical solutions for digital forensics investigations. The organization places great emphasis on innovation and dedicates resources to research and development to provide unique forensic technologies and services.

Founders:
Rushit Soni, Krish Mandaliya

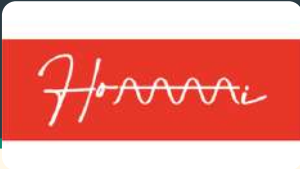


6. Shuk Global Private Limited

The organisation focusses on developing an insider threat dataset. They use the CERT insider threat dataset to exfiltrate and pre-process the data to generate credible machine learning models for insider threat detection. Additionally, the development of Linux-based and Windows-based agents is essential to provide sufficient information to the central machine learning server for insider threat detection results. Finally, the agent is integrated with the central server and the data is displayed in the form of a dashboard-based reporting system.

Founder:
Gaurav Trivedi





7. Hommi Technovation Private Limited

This is a connected home startup, whose mission is to build a completely connected home product ecosystem that is secure, private, reliable, and scalable.

Founders:

Chintalapati Raghava, Krishna Teja



8. Starwinglobals Era Private Limited

Cyber3ra is building the most advanced blockchain-based bug bounty platform that will help the companies and ethical hackers to connect and secure their digital assets in the best possible way through crowdsourcing.

Their mission is to build the world's biggest army of ethical hackers who can support the government and enterprises to fight against cyber attacks, which in turn can support cyber warfare situations.

Founder:

Laxmidhar Vinayakrao Gaopande



Arogyam Medisoft (03.03.23):



Rajiv Mondal, CEO of Arogyam Medisoft received the Agricultural Innovation Award at the Rural Connect program organised by the Bengal Chamber of Commerce (BCC&I).

napID Zero-Factor Authenticator (20.03.23):



This startup has been selected in the top 10 Finalists in the Prestigious Blue Ocean Awards, directly inspired by the Blue Ocean Strategy/ Shift/ Leadership by French Ministry For The Economy.



Agrowsure Products and Innovations Private Limited shortlisted for YOUTH CO: LAB 2023



Agrowsure Products and Innovations Private Limited is shortlisted for 'Gender Equality and Women Economic Empowerment' in YOUTH CO: LAB 2023.

SIIC IIT Kanpur's four startups got selected for the cohort of the Academia-Industry Training (AIT) program, a launchpad for Swiss and Indian startups



Swissnex in India launched the latest edition of its flagship program - Academia-Industry Training (AIT) 2022. The program aims to bridge the gap between entrepreneurs and the international market. This AIT program supports Swiss and Indian early-stage startups looking to tap into the Indo-Swiss market. A one-week intense market discovery camp was organised in India and Switzerland in 2022. SIIC IIT Kanpur's four startups got selected in this cohort.

1. Life and Limb
2. Embright Infotech
3. WeRehab (CurAlgia)
4. NovoEarth

Surobhi Agro Industries Private Limited (Farmology) -



This startup is the winner of the 13th Edition of Aegis Graham Bell Awards in the category of "Innovation in Agriculture".

Saptkrishi (Sabjikothi) -



Hon'ble Shri P. Prasad, Minister of Agriculture, Government of Kerala, launched Saptkrishi (Sabjikothi) at VAIGA 2023. The mission of this startup is - "Empowering farmers through innovative solutions". This is a step towards developing sustainable value chains in agriculture.

Featuring the future

The Annual Event

ABHIVYAKTI 2023



ABHIVYAKTI

Featuring The Future

The two-day Annual Festival, 'Abhivyakti', organized by SIIC, IIT Kanpur, was held on 4th and 5th March 23. SIIC is a leading startup incubator, providing early-stage startups with the necessary support and resources to succeed. This festival provided an exceptional platform for showcasing ideas and innovations, and networking opportunities with industry experts and investors for the necessary support and resources to succeed.

INAUGURAL CEREMONY

The 'Abhivyakti' Startup Festival commenced with a grand inaugural session on 4th March. Prof. Ankush Sharma, Professor-in-Charge, Innovation & Incubation, IIT Kanpur welcomed the delegates. Dr. Nikhil Agarwal, CEO, SIIC & AIIDE-CoE, IIT Kanpur, delivered a remark on the importance of innovation and entrepreneurship in the current times. Prof. Abhay Karandikar, Director, IIT Kanpur gave the inaugural address by emphasizing the need to promote startups and entrepreneurship in India.

The event was graced by a host of dignitaries, including Hinduja Group's Shri Ajay Hinduja, who joined virtually; Shri Arun Tiwari, Group President, BFSI, Hinduja Group; Dr. Ajay Kumar, former Defence Secretary, GoI and Shri Sivasubramanian Ramann, Chairman & Managing Director, SIDBI, shared their valuable insights on the startup ecosystem in the country. More than 600 Government Officials, innovators, Venture Capitalists, angel investors, startups, and students gathered on the inaugural day of Abhivyakti 2023.



Prof. Abhay Karandikar, Director, IIT Kanpur, said, "We are proud to host the Abhivyakti Startup Festival at IIT Kanpur, which brings together the brightest minds in the startup ecosystem, including entrepreneurs, investors, mentors, and government officials. Our mission at IIT Kanpur is to foster innovation and entrepreneurship across sectors, and this festival is a testament to our commitment to that mission. We believe that the festival will serve as a launchpad for many promising startups and will contribute significantly to the growth of the startup ecosystem in India."



Prof. Ankush Sharma, Professor-in-Charge, Innovation and Incubation, IIT Kanpur, said, "Abhivyakti is a great initiative that provides a platform for startups to showcase their ideas and connect with investors and mentors. It is heartening to see the passion and energy of these young entrepreneurs, and I am confident that many of them will go on to become successful businessmen."

MoU Signing with Hinduja Group

On the inaugural day of the event, two significant developments took place. SIIC, IIT Kanpur signed an MoU with Hinduja Group to collaborate on promoting and providing crucial support to budding entrepreneurs, fostering innovation and driving growth in the Indian startup ecosystem.



SIDBI Seed Equity Support Scheme (S4-SIIC)

The event also witnessed the launch of the SIDBI Seed Equity Support Scheme (S4-SIIC). SIDBI is setting up a pilot fund of Rs. 50 Crore, 10 Crore each year, which will be used for supporting the hard-tech startups incubated at SIIC, IIT Kanpur.



Shri Sivasubramanian Ramann, Chairman & Managing Director, SIDBI said, "The Vision for Fund of Funds is aligned with the Government's objective of promoting entrepreneurship by providing indirect funding to emerging startups through Venture Capital (VC) Funds".

Shri Ajay Kumar, Former Defence Secretary of India, highlighted the significant role of young innovators in the field of defense, emphasizing the power of their ideas and their potential to transform the sector through the development of cutting-edge technologies.



Innovation Showcase

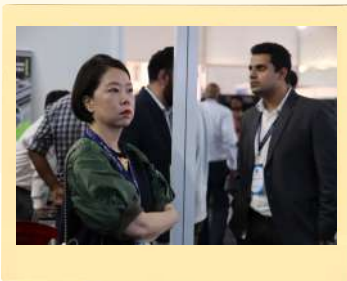
Over 70 startups from various sectors, such as Agritech, Cleantech, Cybersecurity, Fintech, Healthcare, Infrastructure, Defence, Sustainability, the Internet of Things (IoT), and Artificial Intelligence participated. The Showcase provided a platform for startups to present their ideas and products to the audience, gain exposure, connect with potential investors, and receive valuable feedback from industry experts, which would help them to improve their offerings and better meet the needs of their customers.



Along with the overwhelming group of startups, Abhivyakti also attracted over 40 investors from across the country to the event. The investors also got a chance to see and understand the innovations closely and discuss the investment possibilities.

Samvaad with Industry

"Samvaad with Industry", focused on "Catalysing Innovations: Corporate-Startup Partnership". The panelists discussed the importance of building collaborative relationships between large corporations and startups, leveraging each other's strength to drive growth and innovation.



Battle of Ideas

The next event was the “Battle of Ideas”, where the startups engaged themselves to pitch their innovative solutions to a panel of judges. The best three winning teams with the most compelling pitch were provided with perks powered by India Accelerator, giving them an opportunity to make a mark in the industry by receiving funding for developing their solution. Kuloth Vijay (napID Cybersec Private Limited) was Secured the first position, Subhasis Mukhopadhyay (Treactle Technologies Private Limited) the second position, and Pushaan Singh (Airth Research Private Limited) the third position.



Government se Baat

A plethora of enriching events and activities were organized as part of the Festival. In the event titled “Government se Baat” – a panel discussion on “Government Initiatives for Promoting Deep-Tech Startup Culture in India”, the panelists comprising high-level officials and experts shared their insights and experiences on how the Indian Government is supporting deep-tech startups through various initiatives to foster innovation and entrepreneurship in the country.

“FundSights”, a panel discussion on “Investing in Deep-Tech Startups: Opportunities and Challenges”, had experts emphasizing the need for adequate funding, mentorship, and a supportive ecosystem to nurture startup ventures.



NIRMAN Demo Day

The second day of the event commenced with the NIRMAN Demo Day, which marked the culmination of the first cohort of the NIRMAN Accelerator Program launched by the Startup Incubation and Innovation Centre (SIIC) at IIT Kanpur. The accelerator program is supported by the Department of Science and Technology (DST), Govt. of India, as part of its NIDHI scheme portfolio. The event was solely dedicated to the showcasing of 15 startups and their innovative and indigenous products developed under the NIRMAN Accelerator Program.

NIRMAN Demo Day offered a great chance for entrepreneurs and innovators to display their cutting-edge products to potential investors and mentors. It was taken over by the demonstration of different innovative models of the products designed by the startups under NIRMAN. Four innovative startups, namely Xfinito Biodesigns Pvt Ltd, Primary Healthtech Pvt Ltd, Climec Labs Pvt Ltd, and Meukron Technologies Pvt Ltd, had been awarded a grant of INR 10 lakh under the NIRMAN Accelerator Program by the Department of Science and Technology (DST). The startups' showcase gave ample opportunity to other budding entrepreneurs and innovators to understand the importance of innovation and entrepreneurship. The grant was handed over by Dr. Anita Gupta, Head, NSTEDB, DST, Government of India, as part of Abhivyati 2023.



Charcha with Entrepreneurs

In the event, "Charcha with Entrepreneurs", a panel discussion on "Sustainable Entrepreneurship, Best Practices & Lessons Learnt", the most famous and established entrepreneurs from varied startups presented their journey, challenges, milestones, and secrets of growing their startup. The discussion included entrepreneurs like Nikhil Kurele, Sandip Patil, N. Balaji, Tejas Kusurkar, and Ashish Aggarwal, who emphasised on the importance of promoting startups and entrepreneurship in India, sharing their best practices and lessons learned in the field. The session was moderated by Sarthak Gupta, Co-Founder of NovoEarth. The discussion highlighted the need for sustainable practices in entrepreneurship and the potential for startups to drive innovation and change in the industry.



Celebvyakti

Following the showcase was "Celebvyakti" - "From Startup to Stardom: The Power of Storytelling", another enthralling session inaugurated by the moderators of distinct startups, where they spoke about their preliminary phase of struggle that gave them innumerable opportunities to look at entrepreneurship from a different angle. Celebrity speakers like Shri Gautam Kumar, Co-Founder & COO, Fareye, Shri Anish Popli, Founder and CEO, Procmart, and Ms. Vishakha Singh, Ex-VP, Co-Founder WazirX NFT shared the stage. During the event, the audience was captivated by the speakers' impressive achievements and the paths they took to attain fame. The startups' remarkable journeys and obstacles they surmounted to realize their objectives were also highlighted during the event. The event was followed by a breathtaking Drone Show, where cutting-edge drone technologies were showcased.



The event came to a successful end with a valedictory session featuring keynote speakers Shri Binay Jha, Director of SBM-Urban, Ministry of Housing and Urban Affairs, and Shri Alok Kumar, Principal Secretary, Planning & Programme Implementation, Govt. of Uttar Pradesh, along with closing remarks from Prof. Amitabha Bandyopadhyay, Co-Professor-in-Charge, Innovation & Incubation, IIT Kanpur.



Prof. Amitabha Bandyopadhyay said, "The Abhivyakti startup festival aims to foster a culture of innovation and entrepreneurship in India by supporting and promoting startup ventures. The festival has been successful in attracting top-notch startups and investors and has helped many budding entrepreneurs to secure funding and partnerships."

Abhivyakti 2023 offered a platform for participants to showcase their products and services, share their ideas, and engage in insightful discussions centred around the theme of innovation and entrepreneurship. The event was hosted to foster conversations and partnerships, paving the way for a brighter future in the country. It helped the startups to connect with potential investors, and showcase their innovations to a wider audience. With the support of SIIC and IIT Kanpur, the startups would be able to receive the necessary mentorship and funding to turn their ideas into successful businesses, driving innovation and economic growth in India.

Glimpses



1. SIIC IIT Kanpur at Aero India 2023



The Startup Incubation and Innovation Centre (SIIC) IIT Kanpur was represented on the global platform from 13th to 17th Feb 23 in Bangalore at Aero India. SIIC IIT Kanpur's startups revolutionised the defence industry with their innovative technologies and creative solutions. SIIC, IIT Kanpur showcased the incubator's cutting-edge defence startups at the IDEX-DIO pavilion. Hacklab Solutions, Arishti Info Labs, Aerosys Aviation, and Asatrobo Technologies got an opportunity to showcase its talents and connect with the key stakeholders in the Indian Defence sector.

Tardid Technologies Pvt. Ltd., was the IDEX-winning startup from SIIC IIT Kanpur startup ecosystem. They got an opportunity to interact with Hon'ble Prime Minister Shri Narendra Modi and actor Suniel Shetty. This incredible opportunity will immensely add to their motivation.

2. Prof. Lourdes Casanova's Visit to Noida

Prof. Lourdes Casanova from Cornell EMI Tech University visited IIT Kanpur's Outreach centre, Noida. Dr. Nikhil Agarwal CEO, SIIC, IIT Kanpur and Mr. Ankit Saxena, AVP, SIIC, IIT Kanpur, interacted with our guest discussing the innovation ecosystem at SIIC IIT Kanpur. During her visit, Prof. Casanova met Offgrid Energy Labs & Life and Limb, two of our incubated startups at SIIC IIT Kanpur.

The two startups have emerged as successful winners at the Cornell Emerging Markets Institute's Mark Mobius Business Pitch Competition in 2020 and 2022 respectively.



3. World Association for Small and Medium Enterprises (WASME) joined hands with SIIC IIT Kanpur



Mr. Ankit Saxena, AVP, SIIC and Mr. Imran Yusuf, Manager, Technical Programs, SIIC interacted with Dr. Sanjiv Layek, Executive Secretary, WASME, to discuss the possible course of action for expanding and strengthening the MSMEs ecosystem at the pan India level. This collective effort will focus on disseminating knowledge sessions for the MSME Innovative Scheme. SIIC, IIT Kanpur, with WASME, will unpack the Design Component under this scheme.

The Design component under MSME innovative scheme is focused to help MSMEs to avail expertise on all elements of design. It enables MSMEs in identifying and accomplishing their design-related objectives.

4. MoU signed between SIIC IIT Kanpur and Indian Bank



SIIC, IIT Kanpur, has exchanged an MoU with Indian Bank on 14th February 23 to extend funding support to the emerging startups.

Prof. Ankush Sharma, PIC, Innovation and Incubation, IIT Kanpur and Mr. Vivek, Zonal Manager, Indian Bank, Kanpur, signed the MoU in the presence of Mr. Piyush Mishra, COO, SIIC IIT Kanpur, Yogi Srivastava, General Manager, SIIC IIT Kanpur, Mr. Saurav Jain, MAPC Head, Indian Bank, Kalyanpur.

The two bodies will work together to identify innovative startups and extend financial support to them under the “Ind Spring Board (Finance for Startups)” scheme, an initiative by the Indian Bank.

Prof. Ankush Sharma, Professor-in-Charge, Innovation & Incubation, IIT Kanpur, said, “SIIC IIT Kanpur has a standard process of identifying promising startups with high-impact potential. This collaboration with Indian Bank will enable us to extend critical support to emerging startups of SIIC IIT Kanpur, enabling them to scale and accelerate their product development journey.”

Mr. Vivek, Zonal Manager, Indian Bank, Kanpur, added, “As a key stakeholder in the finance industry, we are proud to be supporting the modern Indian vision for an inclusive financial ecosystem nationally through this collaboration with SIIC IIT Kanpur. It is indeed inspiring to understand how innovations refine the user experience for a better and self-sustainable nation.”

The parties also engaged in an in-depth discussion about the incubation model and the diverse startup portfolio at SIIC IIT Kanpur. This joint venture will felicitate the exchange of startups working across sectors with disruptive technology solutions.



1. The Advanced Entrepreneurship Skill Development Program (ESDP) & Management Development Program (MDP)

SIIC, IIT Kanpur organized sixty batches under Advanced ESDP & MDP with the support of the Ministry of MSME in various locations. Each batch featured distinguished sector experts who delivered engaging and informative lectures to the beneficiaries. These sessions provided the participants with valuable insights and knowledge from leading industry professionals on the following topics:

- Biotech- Entrepreneurship Development
- Agri-tech- Entrepreneurship Development
- Food Processing- Entrepreneurship Development
- Artificial Intelligence- Entrepreneurship Development
- Advanced Marketing Strategy
- Sales and Distribution
- Risk Management
- Strategic Management

This prestigious initiative has created a huge impact on the entrepreneurship ecosystem by offering significant benefits to the participants. This program has benefited a broad range of individuals and highlighted several crucial elements of entrepreneurship across multiple sectors.



2. Small Industries Development Bank of India (SIDBI) Seed Equity Support Scheme (S4-SIIC)

SIIC, IIT Kanpur recently launched the 'SIDBI Seed Equity Support Scheme' (S4-SIIC), at the Abhivyaakti Startup Festival. The scheme is specifically designed to assist the incubated companies at IIT Kanpur, who have the potential and need funding to scale up their business activities. This program is an important step towards addressing the funding constraints faced by Indian startups and it is expected to have a significant impact on their growth and success.



3. Uttar Pradesh Global Investors Summit 2023 (UPGIS)

The Innovative ecosystem of SIIC participated in the much-awaited UPGIS 2023 with its incubated startups. The newly incubated startup Space Philic's semi-reusable launch vehicle named 'Rupak' was showcased at the event. Team Space Philic successfully showcased their first prototype semi-cryogenic bi-propellant liquid rocket engine powered by an indigenous "Green Propellant", at the event. The team got an opportunity to interact with Hon'ble Prime Minister Shri Narendra Modi.

The summit gave a platform to 120 startups to present their innovations in front of over 20 national and international companies. The summit was inaugurated by Hon'ble Prime Minister Shri Narendra Modi, Hon'ble Defence Minister Shri Rajnath Singh and Hon'ble Chief Minister Shri Yogi Adityanath. Leading industrialists including Mr. Mukesh Ambani, Tata Group, and Birla Group were among the other notable attendees.

The AIIDE CoE of IIT Kanpur also set up an exhibition stall at the summit. The founders got an opportunity to speak to Technical Education Minister Ashish Patel and Principal Secretary, Technical Education Subhash Chand Sharma. Awanish Awasthi, Yogi Adityanath's advisor in Uttar Pradesh was also present. He encouraged them and inquired about their startup.



Bio Programs Highlights

1. SIIC IIT Kanpur hosted the Outreach Webinars for the 22nd call on the BIRAC's BIG Grant

SIIC IIT Kanpur hosted the outreach webinars in partnership with Bioridh, Kalinga University, Raipur, Vellore Institute of Technology, and Oriental University, Indore on the 22nd call of the Biotechnology Industry Research Assistance Council (BIRAC)'s Biotechnology Ignition Grant (BIG).

SIIC, IIT Kanpur has been conducting webinars for BIG-22 outreach. It has managed to mentor over 1000 students, faculties, and innovators, to refine their proposals to help with the grant application. Professors and Scientists from institutes like VIT, Vellore, K.J. Somaiya, Mumbai, NIPER, Mohali, and Guwahati actively

participated in the webinars. Interactive sessions with student innovators from universities across India, like the University of Kerala, SKUAST, the University of Kashmir, Oriental University, Indore, and Kalinga University, Raipur, participated to discuss ideas for future development.

The SIIC team also conducted live query-solving sessions over Zoom from 1st to 15th Feb 23, with the title -

'BIG Questions, Quick Answers'.



Bio Programs Highlights

2. Three applicants from SIIC IIT Kanpur got selected for the BIG's 21st grant

- **Amdus Technologies Pvt. Ltd. (Ghaziabad, UP)**- It has developed cost-effective medical diagnostic laboratories, which will automate the current process of manual slide staining.
- **Ms. Sameena Lone (Srinagar, Kashmir)** - Ms. Sameena Lone has developed a proprietary technology for the production of a novel Coon's Tail Media from the Dal Lake seaweeds. It is a chemical-free substitute for the available plant culture mediums. This can be used to propagate potato micro plants, which will be helpful for the production of organic, disease-free, and low-cost quality planting materials. The farmers will be highly benefited from this technology regarding the mass production of potatoes.
- **Dhenoo Tech Solutions Private Limited (Pune, Maharashtra)** - It has built a unique platform specifically targeting dairy farmers' problems and needs. It provides free access to knowledge related to dairy farming and best animal husbandry practices. Online connections to a network of experts, fellow farmers, animal traders, and other stakeholders are also provided. Dhenoo Pvt. Ltd. also provides animal management tools in different regional languages.

3. SIIC IIT Kanpur attended Innovators Connect-Tandem 2023

SIIC, IIT Kanpur is one of the partners of DWIH for its flagship program called the Indo-German Innovator Tandem Program. A meeting to finalize the agenda for this year was organised. The program aims at providing cultural innovation exposure to early-stage innovators.



4. Mentor Prof. Ganapathy guides future HealthTech entrepreneurs

Dr. Ganapathy is a renowned Neurosurgeon and a member of the Board of Directors from Apollo Telemedicine. He met the SIB-SHInE fellows and helped them to refine their current problem statements by enlightening them with his great work experience and sharing valuable insights into the medical industry. The meeting included a discussion of several ideas and possible suggestions that can help the fellows with their innovations.



1). IIT Kanpur signs an MoU with Ambrane India for the technology transfer of a smartwatch developed for the blind and the visually impaired



IIT Kanpur developed a technology, “Haptic smartwatch for the blind and the visually impaired”. The technology has been transferred to Ambrane India Private Limited for mass manufacturing and sales. It is a novel touch-sensitive haptic smartwatch for visually impaired and blind persons. The watch has two variants, developed by Prof. Siddhartha Panda and Mr. Vishwaraj Srivastava, National Centre for Flexible Electronics at IIT Kanpur.

Around 49 million blind and 285 million visually impaired persons in the world face difficulty in interacting with devices due to the absence of a tactile interface. The existing smartwatches for the blind and the visually impaired have audio-based output and are expensive. As India is home to about 20% of the total blind people in the world, it is necessary to address these conventional drawbacks. So the team at IIT Kanpur has developed a smartwatch that operates in haptic mode and has a technology that stimulates the sense of touch.

The haptic watch has 12 touch-sensitive hour markers arranged on the dial. The user needs to scan the markers with his/her fingers. The complexity of a vibration watch generating more than 20 pulses has been reduced to 2 pulses, and the fragile nature of a tactile watch is eliminated. The other variant of the smartwatch is equipped with smart features to indicate health parameters such as heart rate, step count, hydration reminder, and smart timer.

The use of innovative haptic icons makes it easy to navigate the menu. A simple gesture like the double tap can open a particular health monitoring app. Thus, smartwatches become simple to use, affordable, and robust.



1). Technology Transfer Cell, IIT Kanpur meets Institute Innovation Council (IIC):



The technologies that are transferred to our industry partners at IIT Kanpur is approximately 13.8% which is exceptionally good compared to any other Institutes in India. Mr. Ravi Pandey, Research Establishment Officer, SIIC, IIT Kanpur presented the achievements of the IPR Cell. He mentioned that the number of IPRs filed and technology transferred in one financial year at IIT Kanpur is quite high.

Filing 930 IPRs, out of which 128 technologies licensed to

date is an achievement for IIT Kanpur. The technology transfer office provides handholding support to the industry partners, post-licensing of a technology. We, at IPR Cell, SIIC, IIT Kanpur promote innovations and entrepreneurial culture. It helps to translate the research from a laboratory to the market, for commercial benefit.



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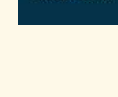
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