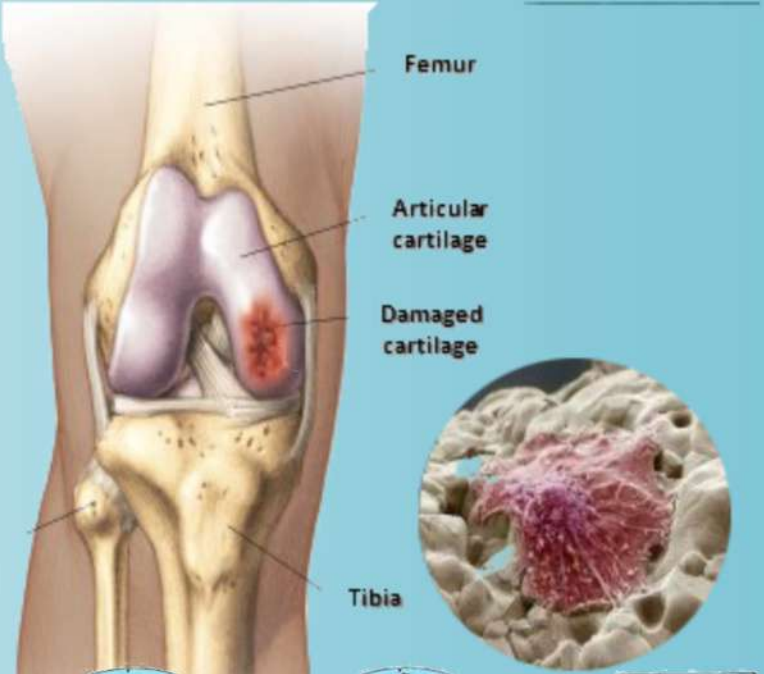




STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR

TECHकी बात

Strengthening innovation
quotient through academic
startup collaboration





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CONTENT

Volume- 01 | Edition - 03 | Mar 2022



2

SUCCESS STORIES

Startups at SIIC IIT Kanpur's technology business incubator are the dynamic force of the incubation ecosystem. The innovators - driving minds behind these entrepreneurial ventures are setting newer records as they expand their participation to bigger platforms.



1

SNAPSHOT MARCH 2022

3 new startups joined the augmenting incubation facility at IIT Kanpur. While the online events and knowledge webinars achieved 600+ participation in the month.



3

INITIATIVES AT SIIC

In March, SIIC achieved newer additions to the public and private partnership to leverage more significant social impact by supporting startups and launching rapid-scale projects.

CONTENT

Volume- 01 | Edition - 03 | Mar 2022



PROGRAM HIGHLIGHTS

The month of March was loaded with exciting outreach with startups, our key stakeholders, and on-boarding of more innovative startups in the incubation ecosystem.



6

FROM THE IPR AND TECH-TRANSFER CELL

The IPR and Tech Transfer Cell at SIIC IIT Kanpur is a facilitating unit of various novel technology licensing. The section covers the major technological innovations in the academic and incubation ecosystem.



7

FIELD STORIES

Tech for Tribals project by Tribal Co-operative Marketing Development Federation of India (TRIFED) implemented by SIIC IIT Kanpur continues to perform remarkably well.



8

FUNTECH

Work-up your mind with an interesting innovation themed cross-word at the end!



SNAPSHOT MAR 2022



SIIC's startups aim to create impact at the bottom of the pyramid leveraged through their path-breaking innovation. IIT Kanpur's technology business incubator has come-of age having developed rich experience base in nurturing early-stage, technology-focused startups in domains of agriculture, healthcare, aerospace, cyber security, and medical devices.

63

Applications received

03

startups incubated
at SIIC

600+

attendees reached
through events

NEW INCUBATED STARTUPS



Cyethack Solutions Pvt Ltd Founder - Shivbihari Pandey

Cyethack is a cyber-risk management start-up that helps organizations mitigate cyber risk in real-time. It offers consultancy, training, and solutions to counteract cyber-attacks. The company aims to provide generic and customized products and services to keep Industrial control systems (Operation Technology), web spaces, and networks protected.



napID Cybersec Pvt Ltd Founder - Kulothungaboopathy Vijayarangam

napID, a 'One-Touch authenticator', helps banks and enterprises to authenticate genuine users. Their patent granted solution napID's Fraud Filter System and Sleep mode Technology prevents fraudulent login and payments by enabling the login form, payment form, ATM, POS machine only for genuine users.



Kodeleaf Software Pvt Ltd Founder - Arvind Jain

KodeLeaf Software Pvt Ltd. is a leading information technology, software publishing, consultancy & supply software, operating system software, business & other applications software for all platforms.

SUCCESS STORIES



MS. SUKANYA DIKSHIT
FOUNDER & CEO/CTO,
CURALGIA

Sukanya Dixit, Founder & CEO at WeRehab Technologies presents her innovative product - Smart Insole at the Dubai Expo by Startup India.

SIIC is currently running with a portfolio of 100+ incubated startups across programs and initiatives. The section highlights our innovative startups achieving newer benchmarks as they successfully take their innovations to global platforms.



Rashmi Chandra, Co-founder eGyanamTech, represents the APAC region on 'World Funding Woman'.

Springboard Enterprises and the London Stock Exchange came together to celebrate International Women's Day by lending platform to women entrepreneurs from around the world. Rashmi Chandra, co-founder, Egyanam Technologies Pvt. Ltd. – SIIC incubated startup, was among the panel of 9 women innovators – addressing female empowerment and 'breaking the biases' in innovation and entrepreneurship at length.



SIIC incubated startup Agyns Waste Management has developed advanced & an Automatic Composting Machine that converts waste into manure in just 10 days.

Agyns Waste Management Pvt. Ltd. has developed an automatic composting machine - BHOOMI, in collaboration with Imagineering Lab, IIT Kanpur. Engineer's India Limited supported the R&D of the product. BHOOMI stands for 'Bio-composting of Horticulture & Organic waste into Manure Indigenously'. Its advanced features make it more efficient, user-friendly, and cost-effective, reducing 20-30% of the input cost.



WeRehab Technologies Pvt. Ltd. - deliver their pitch to Angel Investors at the Industrial and MSME Expo.

WeRehab Technologies branded as CurAlgia was selected by startup india to showcase the innovation in Industrial and MSME Expo in Dubai, organized by Startup India. The team has developed an innovative product called 'Smart Insole' that lets the user track their body bio-mechanics. The refined insight-driven feedback from their innovative product can revolutionize the world of rehabilitation.

INITIATIVES

AT SIIC

SIIC IIT Kanpur consistently channelises initiatives towards strengthening country's entrepreneurial ecosystem to achieve the actual vision of an Atmanirbhar Bharat. Initiatives at the incubation centre cater to some of the critical technological and infrastructural gaps at a pan India level.



Manual Harvester and E Tricycle

The REC innovation platform is supporting a diverse portfolio of innovative ideas founded by students across the REC colleges under the collaborative initiative.

1. **College:** Rajkiya Engineering College, Mainpuri
Project title: Carbon Black Extraction from Environmental Pollution Agents
Team member: Sidhant Kumar Nishad, Deepshikha Dwivedi, Amit Verma
2. **College:** Rajkiya Engineering College, Mainpuri
Project title: Smart Irrigation System
Team members: Akash Kumar Patel, Poonam, Rajan Singh, Shivam Kumar Tripathi
3. **College:** Harcourt Butler Technical University
Project title: AI-based Rain-Hailstorm Protection Sheet
Team members: Mayank Khanna, Ankit Kumar Tiwari, Shubham Kumar Yadav, Anushree Trivedi
4. **College:** Uttar Pradesh Textile Technology Institute
Project title: A Novel Approach to Produce Bio- Ethanol & Bio-Gas from Textile Wastes
Team members: Mohini Kumari, Komal Tripathi, Shivi Singh, Abhinav Pratap Singh, Apoorv Tripathi
5. **College:** Feroze Gandhi Institute of Engineering and Technology
Project title: Autonomous Drone
Team members: Mohit Kushwaha, Nilesh Upadhyay, Aishwarya Goley, Kshitiz Gupta
6. **College:** Dr. Ambedkar Institute of Technology for Handicapped
Project title: Jal Nivaan: Integrated Waste Water Treatment System
Team members: Anurag Tiwari and Kopal Sharma
7. **College:** Babasaheb Bhimrao Ambedkar University
Project title: A Novel Approach for Producing Thermocol from Rice Stubble
Project team: Mohd Danish Kaleem, Aakanksha Bharati, Gaurav Kumar
8. **College:** Samrat Ashok Technological Institute
Project title: Piezoelectric Carpet: An alternative Way to Produce Electricity
Project team: Vidhan Rathore, Shravan Malviya, Nirbhay Borikar, Subhashini Singh, Siddharth Shiwanshi, Rishika Chouhan, Rajneesh Gurjar, Kanak Dubey
9. **College:** REC Banda
Project title: Developing Affordable E Bicycle & E Tricycle
Project team: Avinyash Singh and Shekhar
10. **College:** REC Banda
Project title: Developing Manual Harvester
Project team: Akash Bharti and Saumya

PARTNER

Innovation
Platform

PROGRAM HIGHLIGHTS

SIIC works each month tirelessly towards becoming a leading technologically and economically driven environment globally. During the month of March, the major highlights across various programs at SIIC are reflective of the same objective.



BIO TECHNOLOGY IGNITION GRANT CALL-19

Six startups have been selected under the 19th call for application for BIRAC's biotechnology Ignition Grant. With the launch of the 20th call for application under BIG, the incubation centre received 110 applications from different regions of the country.

GRANTEES



Asok Malleil
Phraction Scientifics



Parini Kapadia
Henri Innovation



Soubhik Das
Manastik Technologies



Sushil Shelke
Individual



Dr. Aparna Oruganty Das
Jatayu Healthcare Technologies



Dr. Nagasuma Chandra
Healthseq Precision Medicine

TIDE 2.0 Central Zone

STRATEGIC ADVISORY MEET

Supported by:
Ministry of Electronics and Information Technology



TIDE 2.0

SIIC, TIDE 2.0 G-1 centre organized first Central Zone Strategic Advisory Meeting on 10th March 2022 at IIT Kanpur, Outreach Centre, Noida. The event witnessed participation from TIDE G-2 and G-3 centres. This meet aimed to create synergy and sharing of resources and opportunities to maximize the scheme's outcome and create a holistic innovation ecosystem in the country.

In line with the scheme mandates, SIIC also organized three informative virtual webinars.

1. Science & Technology Entrepreneurship Park, TIET
2. ABES Engineering College, Ghaziabad
3. KIET, Ghaziabad
4. IIT Mandi Catalyst
5. TIIC, Atal Bihari Vajpayee IIIT-M Gwalior





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PROGRAM HIGHLIGHTS

SIIC IIT Kanpur & T-Hub have selected 29 disruptive startups working in social sector under the Citi's Social Innovation Lab



The program has on-boarded 29 startups in the domain of Health Tech, AgriTech, and FinTech to leverage technology-driven solutions for greater social good. The program marks Citi's 120th anniversary in India. The launch event organized a distinguished panel to introduce the cohort under the Social Innovation Lab by Citi, joined by Mr. Nandan M. Nilekani, Co-founder, Chairman Infosys and other key officials from Citi.



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iDEX and SIIC IIT Kanpur join hands to create, deploy, and commercialize technologies for the Indian military and defense PSUs

iDEX program, launched by Defence Innovation Organization (DIO), along with Startup Incubation Innovation Center IIT Kanpur, will jointly run programs like accelerators, long-duration incubation, piloting, and prototype investments.

IIT Kanpur's unparalleled innovation ecosystem and expertise in aerospace engineering, material science engineering, electro-mechanical systems, and design will leverage towards the actualization of this program's vision.

Startup Meet :
Mumbai & Hyderabad edition

SIIC IIT Kanpur organised meet with startups selected under Citi's Social Innovation Lab in March at Mumbai and Hyderabad. The aim of the meet was to understand the challenges faced by startup & come up with strategy to solve those challenges.



Special Recognition for Start-ups
/ MSMEs from IIT Kanpur

Prof. Amitabha Bandyopadhyay, Professor-in-Charge, Innovation & Incubation, IIT Kanpur, gave a detailed presentation on the support received by the Ministry of MSME under various schemes and the impact created by IIT Kanpur.



FROM THE IPR AND TECH-TRANSFER CELL

BUSINESS OPPORTUNITIES FOR STARTUPS AT IIT KANPUR THROUGH LICENSING OF NOVEL TECHNOLOGIES

The vast ecosystem at SIIC IIT Kanpur offers access to world-class mentoring and handholding support for start-ups to succeed in their entrepreneurial ventures. The start-ups receive exposure to business solutions and option of developing and sourcing the technology, granting them an opportunity to explore B2B models within their incubation facility, working with a primary objective to create more use-cases for the start-ups and translate the existing novel technologies into Products. SIIC had an eventful year with eight successful technology transfers of innovative and novel technological solutions, ranging in different sectors like healthcare, agriculture, electronics, cleantech etc. The IPR and Tech-Transfer Cell at SIIC takes immense pride in sharing the successful licensing of another innovative solution in Health-tech.

Technology solution titled "Nano-Hydroxyapatite based porous polymer composite scaffolds for bioactive molecule delivery in musculoskeletal regeneration" developed by Prof. Ashok Kumar and Mr Arun Kumar Teotia from the Department of Biological Sciences and Bioengineering at IIT Kanpur, has been licensed to a healthcare-based company i.e. Ortho Regenics Pvt Ltd. The proposed technology has a potential to overcome the problems related to bone and joint disorders, capable of biocompatible bone regeneration.

The incubation ecosystem at the IIT Kanpur's campus offers the start-ups ready to use novel tech solutions, and catalyse the process of product development. In addition to the multiple sets of services provided to start-ups like handholding and sourcing of technology through licensing, collaborative development of technology is also facilitated at the Institute.



Stemrev Oxygen concentrator



Particulate Sampler by Airshed

LICENSEE	TECHNOLOGY LICENSED	INVENTOR
Ortho Regenics Pvt. Ltd.	Nano-hydroxyapatite based Porous Polymer Composite Scaffolds for Bioactive Molecule Delivery in Musculoskeletal Regeneration	Dr. Ashok Kumar, Mr. Arun Kumar Teotia
AgroNxt Services Pvt. Ltd	Portable soil testing device	Prof. Jayant Kumar Singh
Albot Technologies	Oxygen Concentrator	Prof. J. Ramkumar, Mr. Siddhant Shrivastava (Phd Student, DP), Dr. Shikha K. Jha (MSE)
StemRev Refineries Pvt. Ltd	Oxygen Concentrators	Dr. Shikhar K. Jha (MSE), Mr. Vijay Kumar Yadav (Staff, MSE), Mr. Om Prakash (Staff, MSE)
Likhotronics Tech Pvt. Ltd	A process for creating flexible paper circuitry	Dr. Ashish (SRE, NCFlexE), Prof. Y N Mohapatra (Dept. of Physics) and team at IITK
	Conductive Aquo Nano-ink formulation for a range of writing instruments	
	Eco friendly ink formulation of resistive ink for roller ball pen	
Airshed Planning Professionals Pvt. Ltd.	Air Sampling Device	Dr. Tarun Gupta (CE), Mr. Amit Singh Chauhan (Student, CE)



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FIELD STORIES

Applications are currently open for - The Hackathon on Minor Forest Produce, aiming to support solutions for the identified problem statements.



Training session on production management at Korrai VDVK

Tech for Tribals project by TRIFED implemented by FIRST IIT Kanpur continues to empower Tribal communities enabling them to earn their livelihood through MFPS.

BACKGROUND

FIRST IIT Kanpur is successfully implementing the Tech for Tribals project in the state of Andhra Pradesh under the ESDP-VDY Scheme (Entrepreneurship and Skill Development Program). The ESDP program is creating a significant impact on the livelihood of the tribals and contributing to their social and economic development.

THE INTERVENTION

The training enables the members to run micro-enterprises producing value-added products from Minor Forest Produces (MFPS). The members of Girijana VDVK under ITDA Sethampeta and Korrai VDVK under ITDA Paderu have started supplying value-added products to the market. In particular, products such as finger millet laddu, finger millet powder, millet biscuits, organic turmeric powder, and other value-added products of different MFPS have massive demand. The successful disruption of training has enabled the members of the VDVK to run their VDVKs efficiently. ITDA Paderu has also given an amount worth Rs. 5,50,000 for the renovation of the Korrai VDVK building.



FoxTail millet laddos & biscuits produced by tribal women during training.



FIRST IIT team with ITDA official at Korrai VDVK

Call for Applications

HACKATHON

<p>PRIZE</p> <p>UPTO ₹1 LAKH to each winners</p> <p>Winners will get a chance to secure work orders up to ₹50 lakhs</p>	<p>APPLY BY</p> <p>9th APRIL 2022</p>	<p>Golden opportunity for People / Startups / Companies with following background:</p> <p>Food Technology / Agriculture / Mechanical / Ayurvedic / Botany or Pharmacy / Forestry / Chemical Engineering</p>
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FIRST IITK in collaboration with CGMFPfed launched Hackathon on minor forest produce.
 For any queries contact -
Ankit Saxena - 9911684182 | ankit@iitkfirst.com



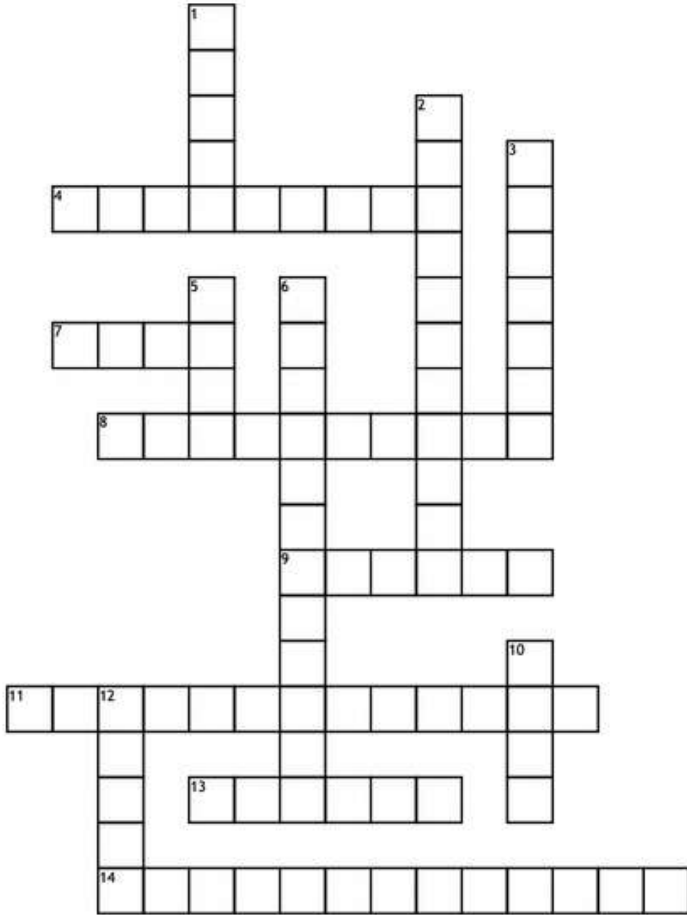
Business Plan development training to VDVK members



FOUNDATION FOR
INNOVATION & RESEARCH
IN SCIENCE & TECHNOLOGY
IIT KANPUR

FUNTECH THEME - Innovation

For the below crossword, answers will be given in the next edition of the newsletter.



ACROSS

4. A new idea that has never been thought of before (9)
7. An image often associated to a company (4)
8. The ability to imagine, think-out-of-the-box (10)
9. The last name of a famous Roman dictator (6)
11. The ability to work with other people (13)
13. A visual drawing / plan to show what a new product or function would look like (6)
14. The ability to converse and speak with others (13)

DOWN

1. A tall, swan like bird with a long neck and long necks (5)
2. The subject of inventing and creating new concepts and products (11)
3. An organised business of people dedicated to do something (7)
5. A round 3D, hemisphere like structure often used like a roof in buildings (4)
6. A set of rules telling you what to do (12)
10. A secret message / system of communicating (4)
12. A systematic way to understand and explain something (5)

Feb 2022 CROSSWORD Answers

ACROSS

3. Malware 5. Firewall 10. Font 11. Download 12. Browser
13. Chat 17. Cryptography 19. USB 20. Cookie

DOWN

1. Plugin 2. Byte 4. Cyberbullying 6. IP address 7. Clockspeed
8. Monitor 9. hypertext 14. Troll 15. URL 16. Upload 18. Phishing

QUICK FACTS

Facts About Innovation Source : huffpost

1. **YOUR EARS CHOPPED OFF** -- In the 1600s, the punishment for being an "innovator" was getting your ears chopped off. You were seen as a troublemaker.
2. **FIVE YEAR OLD INVENTOR** -- In 2008, a British five year old was issued a patent for a "Sweeping Device With Two Heads" invention.
3. **CHINA ON THE MOVE** -- In 2012, China's State Intellectual Property Office (SIPO) granted more patents than any other patent office in the world, including the U.S. Patent and Trademark Office.
4. **WOMEN INVENTORS RISE (LEAN IN)** -- While men still file many more patents than women, female inventors are increasing their share of U.S. Women were listed as inventors on 18 percent of all patents issued to U.S. inventors.
5. **LIPITOR WINS** -- Lipitor, a cholesterol-lowering drug used to help reduce heart attack and stroke risk, represents the most valued patent in history.
6. **WORD INNOVATION OVERUSED** -- In 2011 the SEC shows companies mentioned some form of the word "innovation" 33,528 in annual reports, which was a 64 percent increase from five years before that.

7. **WORST INNOVATIONS** -- TIME's 50 worst innovations listed in 2010 include Foursquare, Farmville and the Segway. Go figure.
8. **MOST INNOVATIVE COMPANY** -- Salesforce.com does not even make the well-respected top 20 most innovative companies in the world list published by Booz & Co.
9. **PATENT WARS HEAT UP** -- In 2012 both Google and Apple spent more on patent litigation than on R&D -- 20 Billion in smartphone industry alone in two years.
10. **FIRST PATENT EVER** -- On July 31, 1790 Samuel Hopkins was issued the first patent for a process of making potash, an ingredient used in fertilizer.





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ECO-SYSTEM ENABLERS

CSR



FUNDING & MONITORING



NIDHI BY DST



SINE
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Entrepreneur-in-Residence
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INTERNATIONAL



KNOWLEDGE



INDUSTRY



AIMED
Encouraging Responsible Manufacturing
Association of Indian Medical Device Industry

SERVICE



AI ENABLEMENT



CLINICAL





CELEBRATING
100
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