



NATIONAL ENGINEERING COLLEGE
(An Autonomous Institution – Affiliated to Anna University Chennai)
K.R. NAGAR, KOVILPATTI – 628 503

SUSTAINABLE DEVELOPMENT GOALS – 09

INDUSTRY, INNOVATION AND INFRASTRUCTURE





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9.1 Entrepreneurship Development

Start-up and Entrepreneurship activities

Entrepreneurship Development Cell & NewGen IEDC

About ED Cell & NewGen IEDC

Entrepreneurship Development Cell (ED Cell) has been started to create job providers rather than job seekers among our students with the following objectives and activities.

Objectives of Entrepreneurship Development Cell:

- To transform entrepreneurship aspiring students as employment creators immediately after their graduation.
- To promote and maintain the spirit of Entrepreneurship amongst our college students.
- To provide a platform to convert the students' innovative ideas into viable enterprises.

Entrepreneurship Development Cell has been established in our Institute on 22.1.15 with nine faculty members in charge of their respective Engineering disciplines aspiring to promote entrepreneurial activities.

New Generation Innovation and Entrepreneurship Development Center **(NewGen IEDC):**

In view of promoting and supporting student start-ups in science and technology institutions, the Government of India has introduced a scheme, “New Generation Innovation and Entrepreneurship Development Centre” (NewGen IEDC). The NewGen IED centre will function for five academic years to develop 85 numbers students’ projects. Based on the infrastructure facilities and intellectual potential of the faculties, S&T institutions will be awarded by this scheme along with a total grant of Rs.2,87,50,000/-. The budget includes Rs.25,00,000/- as a one-time initial establishment amount and Rs.10,00,000/- as an annual recurring amount to establish



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and function the centre. Further, each student's project will be funded with Rs.2,50,000/- for developing a commercially viable product.

The NewGen IEDC of our institution was established in the academic year 2017-18, with the initial establishment grant of Rs. 25,00,000/-, recurring expenses grant of Rs.10,00,000/- and product development grant of Rs.25,00,000/- to develop 15 number of commercially viable students' projects. The 2nd year grant of Rs. 37,50,000/- & recurring grant Rs.10,00,000/- for developing 15 student projects is released during the year 2018-19 and the 3rd year grant of Rs.50,00,000/- & the recurring grant Rs. 10,00,000/- for developing 20 students' projects is released during the year 2019-20. The 4th year grant for executing the product development of 20 students' projects is about to be released from the government of India shortly. So far, 45 numbers of commercially viable products have been developed by various department student batches through the NewGen IEDC funding, and the 40 numbers of products are yet to be developed.

To know more about the ED Cell and NewGen IEDC facilities and activities, please click here: <https://necnewgeniedc.in/>

Team:

Dr.K.Kalidasa Murugavel. Head
Dr.I.Sankar, Chief Coordinator

NEC AICTE IDEA Lab

The NEC AICTE IDEA (Idea Development, Evaluation & Application) Lab is established to encourage students to apply STEM (Science, Technology, Engineering, and Mathematics) fundamentals through hands-on experience, experiential learning, and product visualization. These labs aim to foster a culture of innovation, creativity, and entrepreneurship among students and faculty.

The IDEA Lab provides a vibrant platform for developing essential 21st-century skills such as critical thinking, problem-solving, and design thinking. It also supports



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students in product development and prototyping, enabling them to transform ideas into practical solutions.

For the establishment of the NEC AICTE IDEA Lab, the All India Council for Technical Education (AICTE) has sanctioned a grant of ₹30 lakhs, which is matched by an equal contribution of ₹30 lakhs from the Management of National Engineering College (NEC), reflecting a strong institutional commitment to innovation and skill development.

Vision

“Learn to design, construct, test and deploy products, systems, and processes to solve real-life problems, along with interpersonal skills with social values”

Equipment and Facilities

- Laser Cutter with engraver (Fiber Type)
- Vinyl Cutter
- 3D- Printer (Single Extruder)
- 3D- Printer (Double extruder)
- 3D- Scanner
- PCB Machine
- Mini desktop lath cum milling machine
- Ceramic clay 3D printer
- Desktop Computers (Intel Core i7 (12th Gen or higher), : 32 GB DDR4 Storage: 512 GB SSD)

Faculty Coordinators and Student Team

Designation	Name of the Faculty & Student
Chief Mentor	Dr.K.Kalidasa Murugavel, Principal
Faculty Coordinator	Dr. I. Padmanaban, Professor, Head/Civil
Faculty Co-Coordinator	Dr.T.S.Arun Samuel, Professor/ECE
Student Ambassador 1	P.Murugan, II ECE
Student Ambassador 2	Jeno Kevin A, II Mechanical
Student Ambassador 3	S.Manu Saila Vasan, I Civil
Tech Guru 1	Mr.K.Marimuthu, Assistant Professor/ Civil
Tech Guru 2	Dr.B.Annaraj, Assistant Professor (Sr.Grade)/ S &H
Tech Guru 3	Mrs.S.Pricilla Mary, Assistant Professor/ECE
Tech Guru 4	Ms.P.Arishenbagam, Assistant Professor/ECE



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Photos of NewGen IEDC Facilities

Ideation Lab



Creation Lab





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Library



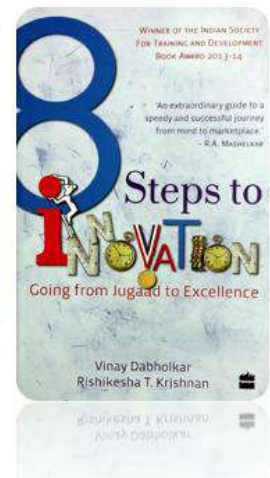
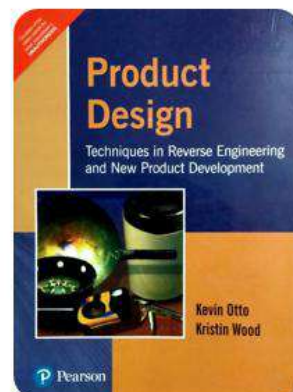
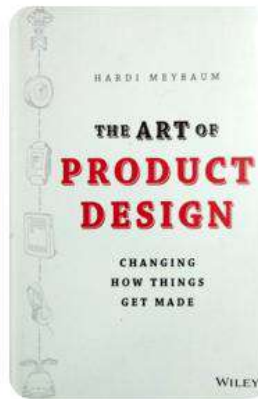
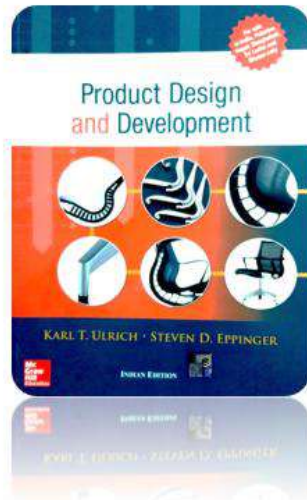
Discussion Hall





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Sample books and Magazines in Library





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Prototype development facility



GAAGS 3D PRINTER-FDM TECHNOLOGY

SPECIFICATIONS:-

- * **Make** : GAAGS TECHNOLOGIES
- * **Build area capacity** : 400 x 400 x 400 mm
- * **User web control** : Phone, Tablet PC, Desktop.
- * **Layer resolution** : 50-300 microns.
- * Wide range of thermoplastic materials, including PLA, ABS, TPU, PETG.
- * Real time IOT based operating system.
- * High speed printing up to 100-150mm/s
- * Live web camera output





SNAPMAKER 3 IN 1 3D PRINTER-FDM TECHNOLOGY

SPECIFICATIONS:-

- * **Heated Bed** : Up to 80°C
- * **Build Volume** : 125 x 125 x 125 mm
- * **Nozzle Temperature** : Up to 250°C
- * **Layer Resolution** : 50 - 300 microns
- * **Supported Materials** : Non-proprietary 1.75 mm PLA, ABS, etc.
- * **Non-supported Materials** : Alumide, graphite, etc
- * **Supported File Types** : STL, OBJ



3D Printing



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SNAPMAKER 3 IN 1 LASER ENGRAVING

SPECIFICATIONS:-

- * **Work Area** : 125 x125 mm
- * **Laser Power** : 200 mW
- * **Wavelength** : 405 nm
- * **Safety Class** : Class 3B
- * **Supported Materials** : Wood, bamboo, leather, plastic, fabric, paper, non-transparent acrylic, etc.
- * **Non-supported Materials** : Metal, glass, gem, transparent material, reflective materials, etc.
- * **Supported File Types** : SVG, JPEG, PNG, etc.



3D Printing
Laser Engraving
CNC Carving



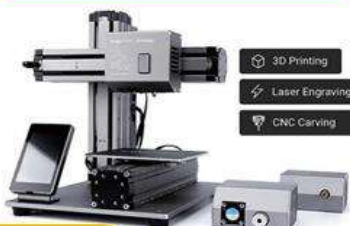
Laser Engraving



SNAPMAKER 3 IN 1 CNC CARVING

SPECIFICATIONS:-

- * **Work Area** : 90 x90 x50 mm
- * **Shank Diameter** : 3.175 mm
- * **Spindle Speed** : 19,000 RPM.
- * **Supported Materials** : Wood, acrylic, PCB, carbon fiber sheet, jade, etc.
- * **Non-supported Materials** : Metal, glass, gem, etc.
- * **Supported File Types** : SVG, STEP, IGES, IGS, DWG, DXF, etc.



3D Printing
Laser Engraving
CNC Carving



CNC Carving and Cutting



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ANYCUBIC 3D PRINTER

DIGITAL LIGHT PROCESSING TECHNOLOGY



SPECIFICATIONS:-

- * **Technology** : Liquid based 3D printing
- * **Printing area** : 192 x 120 x 250 mm
- * **Raw material** : 405nm UV sensitive resin
- * **XY Resolution** : 0.050mm 3840 x 2400
- * **Z-Axis Accuracy** : 0.01 to 0.15mm



SENSE 3D SCANNER



SPECIFICATIONS:-

- * **Item Dimensions**
LxWxH : 12.9 x 3.2 x 17.8 Cm
- * **Brand** : 3D SYSTEMS
- * **Supported OS** : Windows 8 and Windows 10
- * **Output Format** : STL, PLY, OBJ
- * **Screen Resolution** : 1280 * 1024 minimum screen resolution





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Augmented & Virtual Reality Lab



OCULUS QUEST 3



SPECIFICATIONS :-

Display Type : Pancake lenses with Mini-LED
Resolution : 2064 x 2160 pixels per eye
Refresh Rate : Up to 120Hz (supports 72Hz as well)
Platform : Meta
Field of View : Approximately 110°
Lens Type : Pancake lenses
Focal Length: Fixed lens distance





OCULUS QUEST 2



SPECIFICATIONS :-

- Display Fast-Switch LCD.
- Resolution 1832 x 1920.
- Refresh Rate 90Hz.
- Platform Oculus.
- Field of View 100 °
- Lens Type Fresnel lenses.
- Focal Length fixed lens distance of 63.5 mm.
- IPD Adjustable IPD. 58 – 68mm.





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INTEL SENSE D455

(Depth Camera)

SPECIFICATIONS :-

- Depth Resolution:** 1280 x 720 pixels
- Depth Range:** 0.5 to 10 meters
- Color Camera Resolution:** 1920 x 1080 pixels
- Depth FOV:** 87° x 58°
- Color FOV:** 69.4° x 42.4°
- Interface:** USB 3.1 Gen 1 Type-C
- Power Consumption:** 2.5W
- Dimensions:** 156.7 x 38.0 x 29.5 mm
- Weight:** 120 grams

Activities of year 2023-24

S.N	Name of the event	Remarks
1	AgriTech 2023	NEC ED Cell and NewGen IEDC exhibited the agriculture related innovative products in the National Level Expo “15 th Edition of United AgriTech 2022”-A largest exhibition on Agriculture & Horticulture technology, 25 ^h -28 th August 2023.
2	International Conference on Research Trends in AI and IoT for Infrastructure and Industry AIIII-2024	NEC ED Cell and NewGen IEDC exhibited the AI based innovative products in the International Conference on Research Trends in AI and IoT for Infrastructure and Industry AIIII-2024 organized by Anna University Chennai, from 6 th - 8 th March 2024
3	Orientation programs on Entrepreneurship	NEC ED Cell hosted orientation programs on Entrepreneurship development to the 2 nd year students of various departments during the Odd semester at convenient dates
4	Orientation programs on New Product Development	NEC ED Cell hosted orientation programs on New Product development to the 3 rd year students of various departments during the Even semester at convenient dates



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Activities of year 2024-25

S.N	Name of the event	Remarks
1	AgriTech 2024	NEC ED Cell and NewGen IEDC exhibited the agriculture related innovative products in the National Level Expo “16 th Edition of United AgriTech 2024”-A largest exhibition on Agriculture & Horticulture technology, 16 ^h -18 th August 2024.
2	Patentability review meeting	a peer review meeting to validate the patentability of the products developed through the 3rd year-product development laboratory course across various departments. 7 th to 9 th June 2024
3	Product Expo during NEC Ideathon	ED ED Cell & NewGen IEDC organized a Product Expo during the NEC Ideathon event by exhibiting the innovative and commercially viable product developed by the NEC students on 22 nd to 24 th August 2024.
4	Product Development Process Steering Committee meeting	To enhance the effectiveness of guiding new product development projects and bridge the gap between academic approaches and industrial practices, our college ED Cell and NewGen IEDC established the Product Development Process Steering Committee (PDPSC) on 10-01-2025. This committee will facilitate collaboration between select faculty members and industry experts from our campus partner, M/s Mistral Solutions Pvt. Ltd., to align our product development methodologies with contemporary industrial standards.
5	Orientation programs on Entrepreneurship	NEC ED Cell hosted orientation programs on Entrepreneurship development to the 2 nd year students of various departments during the Odd semester at convenient dates
6	Orientation programs on New Product Development	NEC ED Cell hosted orientation programs on New Product development to the 3 rd year students of various departments during the Even semester at convenient dates
7	Business Expo 2025	ED Cell & NewGen IEDC hosted a Business Expo as part of the "Alumni General Body Meeting 2025" on May 11, 2025. The expo will showcase products and services from alumni entrepreneurs, with 35 stalls
8	Business Internship 2025	ED Cell & NewGen IEDC offered a Certified Business Internship through the K.R. Innovation Centre for the final year entrepreneurship aspirant students from various departments (14 numbers) to guide them in preparing and executing their proposed business plans and support for startup registration. As immediate outcome, 2 student



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		startup companies registered at the end of the internship. The following are the details of the companies registered 1. Mr. ABHISHEK B, CSE 2. Ms. S.MOHANAMBIKA, CSE
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EDC & NewGen IEDC – Student Start-up Achievements 2024-25

Sl.No	Name of the student	Department	Startup company name
1	Mr. ABHISHEK B	CSE	Synnoviq Technologies Pvt., Ltd
2	Ms. S.MOHANAMBIKA	CSE	NextGenvirtual

Activities of year 2025-26

S.N	Name of the event	Remarks
1	How to Kick start an Entrepreneurial Journey	Held on 19.07.2025, this alumnus-led talk by Mr. Gobinath, Founder of UG Solar Products, Tirunelveli (Batch 2015 – Mech), shared practical insights on starting an entrepreneurial journey, motivating students to explore startup opportunities and understand the realities of building a business from scratch.
2	Startup Ideation Boot camp (Phase - I)	Conducted on 11.08.2025, this hands-on bootcamp led by Mr. Rajendran, CEO of Adroit Soft India Private Ltd (Batch 1992 – Mech), guided students through the startup ideation process, helping them identify real-world problems and develop early-stage business ideas under alumni mentorship.
3	Inauguration of student wing “Innoverse”	On 31.01.2026, the student innovation wing ‘Innoverse’ was formally inaugurated by Mr. S. Vignesh Ponmurugan, Director of Ponmurugan & Co (Batch 2015 – Mech), marking a new initiative to drive entrepreneurship and innovation among students.
4	INNOTHON – STARTUP IDEA PITCHING CHALLENGE	Held on 18.08.2025 with Dr. I. Sankar, Dr. J. Naskath, Dr. C. Balamurugan, and Dr. B. Shunmugapriya as speakers, this startup idea pitching event encouraged students to present innovative concepts and receive mentorship for incubation, fostering multidisciplinary collaboration and constructive feedback from evaluators.
5	SPINOVATE	Held on 30.08.2025 with Ms. B. Revathe and Dr. S. Karthik as speakers, this prototype development event focused on hands-on innovation challenges across multiple domains, encouraging cross-disciplinary teamwork and helping students translate creative ideas into tangible product designs.



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6	UNMUTE LET'S MAKE A CHANGE	Conducted on 06.09.2025 with Ms. S. Jeba and Ms. P. Swarna Gowsalya as speakers, this platform empowered students to confidently express their ideas, opinions, and entrepreneurial aspirations, nurturing leadership and communication skills through open dialogue.
7	FRESHER'S INTRODUCTION	Held on 20.09.2025 with Dr. I. Sankar as speaker, this orientation session welcomed newly admitted students, introducing them to the institution's innovation ecosystem and inspiring early engagement in entrepreneurial and creativity-driven activities.
8	MINDSET MIRRORS	Conducted on 04.10.2025 with Dr. I. Sankar as speaker, this self-reflection session promoted personal growth and awareness of individual strengths, helping students develop a growth-oriented, entrepreneurial mindset essential for innovation and future leadership.
9	BuildX	Held on 27.12.2025 with Dr. I. Sankar as speaker, this hands-on session focused on building and prototyping innovative ideas, encouraging students to convert concepts into practical, working models under expert guidance.
10	ECELL-Recruitment	Conducted on 10.01.2026 with Dr. I. Sankar as speaker, this recruitment drive onboarded enthusiastic student volunteers into the E-Cell team, inviting participation across departments to strengthen entrepreneurship and innovation initiatives.
11	Business Internship 2026	ED Cell & NewGen IEDC offered a Certified Business Internship through the K.R. Innovation Centre for the final year entrepreneurship aspirant students from various departments (9 numbers) to guide them in preparing and executing their proposed business plans and support for startup registration. 9 student startup companies registered at the end of the internship. The following are the details of the companies registered 1. S.KUMARANATARAJAN (Civil) 2. P.MANOJ BALAMURUGAN (Civil) 3. S.MURALI KRISHNA (Civil) 4. SUKUMAR V (Civil) 5. SHREE VARSHAN K (Civil) 6. MELKI NICOLAS S (Civil) 7. VISHAL S (Civil) 8. SIVARAM (CSE) 9. ALWIN A (ECE)



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EDC & NewGen IEDC – Student Start-up Achievements 2025-26

Sl.No.	Reg. No.	Name	Dept	Company Details
1	2216008	S.KUMARANATARAJAN	Civil	SN Constructions, Kovilpatti.
2	2216011	P.MANOJ BALAMURUGAN	CIVIL	PPM Construction, Tirunelveli.
3	2216012	S.MURALI KRISHNA	CIVIL	Apex Chemicals, Tirunelveli.
4	2216053	SUKUMAR V	CIVIL	MVS Infra Equipment Service, Ambasamudram.
5	2216403	SHREE VARSHAN K	CIVIL	KSS Construction and Materials, Ettaiyapuram.
6	2216405	MELKI NICOLAS S	CIVIL	AS Consultancy, Tirunelveli.
7	2216408	VISHAL S	CIVIL	Bens Life Science Private Limited, Coimbatore.
8	2212042	SIVARAM	CSE	R.K. STORE, Kovilpatti
9	2211101	ALWIN A	ECE	APEX FREIGHT SYSTEM, Thoothukudi



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9.2 Entrepreneurship Development and Innovation Council and its various centres

NEC Business Incubation

VISION

To nurture entrepreneurs through startups towards economic and industrial growth creating employment opportunities for engineering graduates.

MISSION

- To provide state of the art infrastructure to the incubatees to innovate in the field of engineering and technology
- To conduct innovation and entrepreneurial activities to convert innovative ideas into minimal viable startup business.
- To offer seed fund/grant to support the early stage startups
- To collaborate with industries, investors, government, academia and other reputed business incubators for knowledge sharing, co-incubation and technology transfer.

ABOUT NEC BUSINESS INCUBATION

NEC, the most prominent landmark of Kovilpatti, has been the crowning glory of this Matchless City of Matches. Its celebrated ‘Son of the Soil’ Thiru.K.Ramasamy transformed the entire social and cultural scenario in and around this small town by establishing the excellent educational institution popularly referred as “NEC”. By wielding the magical wand of social commitment and munificence this foresighted philanthropist transformed a strip of barren land into a magnificent academic complex that has been consistently producing infallible engineers of high competence right from the day of its inception in 1984. This much-acclaimed temple of erudition was established under the self-financing scheme sanctioned by the Government of Tamilnadu G.O. No. 939 dated 20.07.1984 by the National Educational and Charitable Trust, Kovilpatti, Thoothukudi district.



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NEC'S INCUBATION SERVICE

The Incubation is divided into three main phases:

The startup incubation program is structured across three distinct phases totaling up to two years, designed to guide companies from concept to graduation. **Phase I** (1 to 6 months) focuses on testing market hypotheses, refining the business model, and achieving Product-Market Fit with a functional MVP and beta clients. **Phase II** (12 months) shifts toward commercial viability, requiring an active marketing and sales engine to prove product profitability with paying customers. **Phase III** (6 months) serves as the maturity stage, where the startup optimizes its sales channels, increases revenue volume to reach break-even, and secures investment to prepare for exit as a post-incubated entity. Throughout this journey, all activities and deliverables are executed across five core operational pillars: the entrepreneur and team, product or service development, overall management, market and commercial strategy, and financial planning.

Facilities at NEC Business Incubator

- MSME Approved Incubation Center
- Our Incubator is set up to provide support and help in the growth of our incubatees in all dimensions
- We invite startups in agritech, waste management, IoT, IT, Mechanical, Robotics to join our incubator and reap the benefits of
 - Handholding support
 - Trainings
 - Mentoring
 - Market Research & Survey
 - Business Plan
 - Marketing Plan



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➤ 3D Prototyping

Incubation Facilities

Digital Fabrication Lab



Institution Innovation Council Hall





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NEC Business Incubator - Cubical



Internet of Everything Lab





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EVENTS Organized : Academic year 2024-25

S.No	Event Name	Event Date
1	Global NELA Alumni Meet & Alumni Get-together Meeting – Dec 2024	13-12-2024
2	Celebrating Four Years of National Education Policy (NEP) 2020: Advancing SDG Goal 4 through Entrepreneurship Education for Polytechnics Students	24–26.07.2024
3	Inter-Institutional Business Plan Competition	10.10.2024
4	Conference on Waste Reduction and Its Impact on Environment and Human Health	23.09.2024
5	Lean Start-up & Minimum Viable Product (Business)	22.08.2024
6	Inter-Institutional Ideathon Competition: Waste to Wealth – Moving Towards Circular Economy	22–24.08.2024
7	Startupathon – Waste to Wealth Idea Pitching Event	23.08.2024
8	Exhibition of Startup: Waste to Wealth – Moving Towards Circular Economy	22–23.08.2024
9	Panel Discussion with Innovation and Startup Ecosystem Enablers from the Region	24.08.2024
10	Empowering Women Entrepreneurs: Interactive Session	23.08.2024
11	NECSS 2.0	22–24.08.2024
12	Demo Day	12-12-2024
13	Compliance Management Training for Incubators	17-12-2024
14	Workshop on Design Thinking... Innovation Design for Innovators	17-12-2024
15	Workshop on Design Thinking... Innovation Design for Innovators	17-12-2024
16	Social Innovation: Perspective and Pathway	20-01-2025
17	Workshop on Problem Solution Fit & Product Marketing Fit	03-03-2025
18	IDEATHON 2025 – Turning Waste into Wealth	14–16.03.2025
19	Early-Stage Startup Valuation & Fundraising	27–28.03.2025



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	Workshop	
20	WOW – Wonders of Women Entrepreneur	29-03-2025

<https://necincubator.org/events.html>

Social Innovation: Perspective and Pathway

A session on "Social Innovation: Perspective and Pathway" was organized by the K.R. Innovation Centre (KRIC), National Engineering College (NEC), Kovilpatti, with the support of the Department of Science and Technology (DST) under the DST NIDHI initiative. Held at the IIC Hall, the programme featured Mr. Ravi Kannan, Founder of NativeLead, as the keynote speaker, while Mr. Ramesh Loganathan, Vice President of Innovation at NativeLead, served as the convener. The session emphasized social innovation, rural entrepreneurship, and sustainable development, inspiring participants to create innovative, community-driven solutions and leverage government-supported innovation ecosystems for societal impact.

Organized by

 **K.R. INNOVATION CENTRE**
K.R. Nagar, Kovilpatti

Supported by

 **DEPARTMENT OF
SCIENCE & TECHNOLOGY**

Catalyzed by

 **DST NIDHI**

Hosted by NEC, Kovilpatti



**Social innovation :
Perspective and pathway**

Monday **20** MON 2025

Time : 10:30 am
Venue : IIC Hall , KRIC .NEC

 **NATIVELEAD**
Nurturing Nativepreneurs

Empowering Rural Entrepreneurs

Our Speaker



Convener





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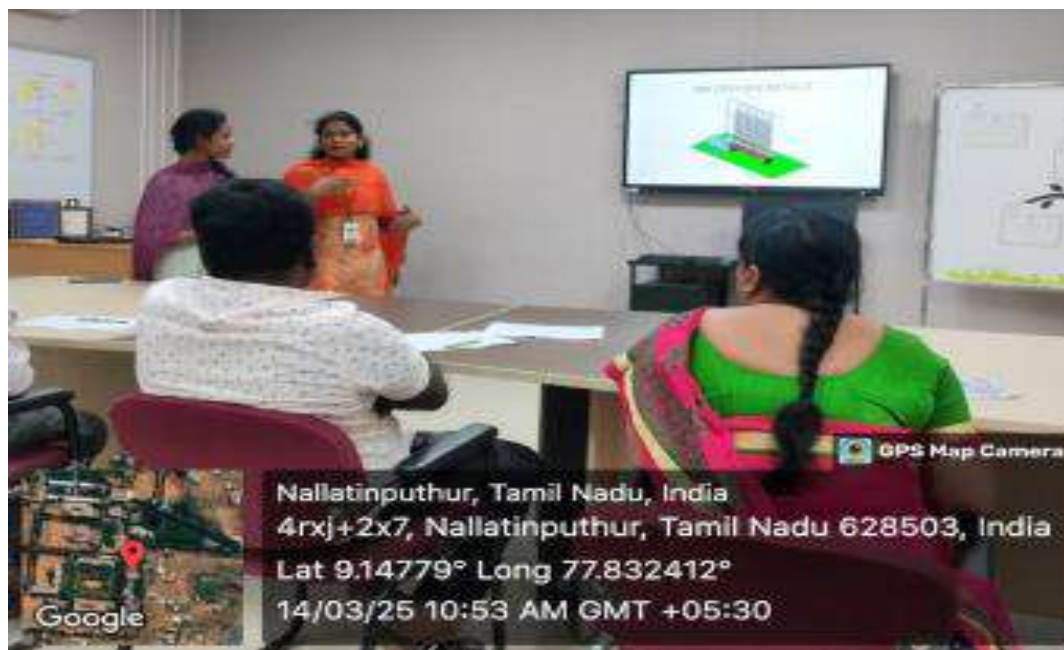
IDEATHON 2025 – Turning Waste into Wealth

IDEATHON 2025 – Turning Waste into Wealth was conducted on 14th and 15th March 2025 at the IIC Hall, K.R. Innovation Centre, National Engineering College (NEC). The two-day innovation event focused on promoting sustainable waste management through creative ideas and entrepreneurial solutions. Students, innovators, and faculty members actively participated by presenting innovative concepts to transform waste into valuable products and resources. The event encouraged environmental awareness, circular economy practices, and sustainable entrepreneurship. Expert mentors evaluated the participants' ideas and provided valuable guidance for further development. Overall, IDEATHON 2025 successfully inspired participants to develop innovative, eco-friendly solutions for a cleaner and more sustainable future.





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EVENTS Organized : Academic year 2024-25

S.No	Event Name	Event Date
1	Session on Incubation – Opportunities for Students & Faculties – Early-Stage Entrepreneurship	26-06-2023
2	Awareness Program on Technical Entrepreneurship for CSE Students – Phase 2	06-07-2023
3	Awareness Program on Innovation & Entrepreneurship for Mechanical Engineering Students	07-07-2023
4	Innovation & Entrepreneurship Outreach Program for LAPC Students	17-07-2023
5	Innovation & Entrepreneurship Outreach Program for LAPC Students – Phase 1	18-07-2023
6	Innovation & Entrepreneurship Outreach Program for LAPC Students – Phase 2	19-07-2023
7	Innovation & Entrepreneurship Outreach Program for LAPC Students – Phase 3	20-07-2023
8	Outreach Program on Innovation & Entrepreneurship for K.R. Arts & Science College	24-07-2023
9	Outreach Program on Innovation & Entrepreneurship for PSR Engineering College Students	03-08-2023
10	Outreach Program on Innovation & Entrepreneurship for Mangayarkarasi College of Arts & Science, Madurai	09-08-2023
11	Workshop on MSME Schemes and Opportunities for Startups	10-08-2023
12	Awareness Program on Innovation & Entrepreneurship for 2nd ECE Students – Phase 1	17-08-2023
13	NEC – IIC Celebrating World Entrepreneurs Day	18-08-2023
14	Awareness Program on Innovation & Entrepreneurship for 2nd ECE Students – Phase 2	21-08-2023



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15	Awareness Program on Innovation & Entrepreneurship for 2nd ECE Students – Phase 3	22-08-2023
16	Awareness Program on Innovation & Entrepreneurship for 2nd EEE Students – Phase 2	23-08-2023
17	Workshop on How to Plan for Startup and Legal & Ethical Steps	24-08-2023
18	Awareness Program on Innovation & Entrepreneurship for EEE Students	25-08-2023
19	Awareness Program on Innovation & Entrepreneurship for 2nd AI & DS Students	26-08-2023
20	Workshop on Entrepreneurship as a Career Opportunity	21-10-2023
21	One-day Workshop on "The Edition of Women Entrepreneurship Conclave"	09-01-2024
22	Startups and Ecosystems Enablement Meet	20-01-2024
23	Session on Achieving Problem–Solution Fit & Product–Market Fit	10-02-2024
24	Expert Talk on "Process of Innovation Development – Technology Readiness Level"	27-02-2024
25	Organizing Innovation & Entrepreneurship Outreach Program – AAA College of Engineering & Technology	26-02-2024

<https://necincubator.org/events.html>

IDEAS SUPPORTED BY MINISTRY OF MSME

S.No	Startup Name	Incubation Theme	Idea No.	Co-Founder(s)
1	COCONUT DHESUKER WITH CROWN	Coconut Dhesuker with Crown	NI-DL/IDCA/214	Mr. S. Pandiaraj
2	INTUGENT PROSTHESIS	Intelligent Prosthesis	NI-DL/IDCA/224	Mr. S. Manohar; SVS Transformers, Chennai
3	AUTOMATED	Automated	NI-	Ms. Michal Nivitha



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	SALT HARVESTER	Salt Harvester	TRM/IDCA/463	Antony; Mr. Sithnesh Chandiran
4	TENDER COCONUT TRIMMER	Tender Coconut Trimmer	NI-DL/IDCA/222	Mr. R. Prem Kumar
5	NSR-NIMNSV MEDICAL DIAGNOSTICS	Innovative NSR-NIMNSV for Medical Diagnostics	NI-DL/IDCA/237	Mr. G. Marimuthu; MIOT Technologies, Chennai
6	AIRCURE	Intelligent Air Filtration through Air Purifier	NI-TRM/IDCA/461	Mr. G. Sundar
7	ACTCARB	Eco-Friendly Activated Carbon and Charcoal Production Unit	NI-DL/IDCA/244	Mr. M. Vivekanandan; ATC Pvt. Ltd., Trichy; Consultant for Advanced Engineering, Tiruchirappalli
8	CASTALK	A Smart Cloud Device for Hearing Speech Translation	NI-TRM/IDCA/197	Mr. M. Muthu Mariappan
9	XYHARMONY	A Natural Contraceptive and Fertility Tracker	NI-TRM/IDCA/511	Ms. B. Preethi

<https://necincubator.org/portfolio.html>

Graduated Startups

S.No	Incubatee Name	Status	Co-Founder
1	AUTOWELKIN PRIVATE LIMITED	Graduated Start-up	Mr. S. Shunmuga Sundaram
2	M/S. RAMJ AGRO IMPLEMENTS	Graduated Start-up	Mr. Raja Kumar



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<https://necincubator.org/portfolio.html>

Incubated Startups

S.No	Incubatee Name	Co-Founder
1	M/s. Cogniot Technology Private Limited	Dr. S. Tamil Selvi, Mr. B. Ganapathy Ram.
2	M/s. LEOZUSE Private Limited	Ms. Kalaipriyaa Sivalingam
3	M/s. JaarDeliveryan Private Limited	Mr. Javeeth,
4	M/s. Karyoun Innovation Private Limited	Mr. Arunvenkatesh,
5	M/s. Rala Digital Hub Private Limited	Mr. Ram & Lakshmanan
6	CIRPPI	Mr. M Valluvan
7.	ADTECH	Mr. Mohammed Risvi
8.	M/s. LAKSJOBS Private Limited	Mr. Manimaran
9.	M/s. Mass Mama E- Commerce Private Limited	Mr. R Dinesh
10.	A2Z Rental	Dr.Amutharaj J
11.	Medimoni (IOT SaaS)	Mr. Alagesan
12.	M/s. Zeekers Employment Private Limited	Dr. S.A. Pasupathy
13.	M/s. Caprimac Technolocrats Private Limited	Mrs. Kannan Revathi
14.	DryToi System	Mr.Bala Subbarayalu
15.	For(O) Tshirts LLP	Mrs. Suba Sundari
16.	Gunny Webs	Mrs.Surekha

<https://necincubator.org/portfolio.html>



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9.3 Intellectual Propery Rights

Patents Granted:

Academic Year 2025-26

S.No	Name of the Invention	Date of Filing	Date of Grant
1.	DEVICE FOR SCREENING HEARING IMPAIRMENTS	14/02/2020	01/08/2025
2.	AN APPARATUS FOR DETECTING THE WETNESS OF AN ABSORBENT ARTICLE	14/02/2020	03/06/2025

INTELLECTUAL PROPERTY INDIA
MINISTRY OF EDUCATION

पेटेंट कार्यालय, भारत सरकार
पेटेंट प्रमाण पत्र
(पेटेंट नियमावली का नियम 74)

The Patent Office, Government Of India
Patent Certificate
(Rule 74 of The Patents Rules)

इन सं/Sl. No- 044199840

पेटेंट सं. / Patent No. : 569532

आवेदन सं. / Application No. : 202041006562

खाद करने की तारीख / Date of Filing : 14/02/2020

पेटेटी / Patentee : NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

प्रमाणित किया जाता है कि पेटेटी को, उपरोक्त आवेदन में यथाप्रकटित **DEVICE FOR SCREENING HEARING IMPAIRMENTS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2020 के चौदहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **DEVICE FOR SCREENING HEARING IMPAIRMENTS** as disclosed in the above mentioned application for the term of 20 years from the 14th day of February 2020 in accordance with the provisions of the Patents Act, 1970.

अनुदान की तारीख : 01/08/2025
Date of Grant : 01/08/2025

नियम - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, फरवरी 2022 के बीसवें दिन को और उसके पचास प्रत्येक वर्ष में उचित देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 14th day of February 2022 and on the same day in every year thereafter.

पेटेंट नियंत्रक
Controller of Patents



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INTELLECTUAL PROPERTY INDIA
PATENT OFFICE, GOVERNMENT OF INDIA

क्रम सं./SL No : 044198974

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमवली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 567111

आवेदन सं. / Application No. : 202041006565

फाइल करने की तारीख / Date of Filing : 14/02/2020

पेटेंटी / Patentee : NATIONAL ENGINEERING COLLEGE – NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN APPARATUS FOR DETECTING THE WETNESS OF AN ABSORBENT ARTICLE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2020 के चौदहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुवत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **AN APPARATUS FOR DETECTING THE WETNESS OF AN ABSORBENT ARTICLE** as disclosed in the above mentioned application for the term of 20 years from the 14th day of February 2020 in accordance with the provisions of the Patents Act, 1970.

अनुदान की तारीख : 03/06/2025

Date of Grant : 03/06/2025

पेटेंट नियंत्रक : 
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, फरवरी 2022 के चौदहवें दिन को और उसके पश्चात प्रत्येक वर्ष में उन्नीस दिन देव होगा।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 14th day of February 2022 and on the same day in every year thereafter.



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Academic Year 2024-25

S.No	Name of the Invention	Date of Filing	Date of Grant
1.	A DEVICE FOR AUTHENTICATING A PERSON	28/02/2022	04/07/2024
2.	A TABLETOP APPARATUS FOR THE POUNDING OF CEREAL GRAINS	14/02/2022	09/07/2024
3.	SMART CARRY-ON LUGGAGE	14/02/2020	16/07/2024
4.	A STEERING AND UNBARRING DEVICE	14/02/2022	11/10/2024
5.	A METHOD FOR REMOVING DYES FROM EFFLUENTS	21/06/2022	09/12/2024
6.	AN APPARATUS FOR DISPENSING LIQUIDS	20/02/2020	13/02/2025

पेटेंट कार्यालय, भारत सरकार
पेटेंट प्रमाण पत्र
(पेटेंट नियमों की धारा 74)

The Patent Office, Government Of India
Patent Certificate
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 544248

आवेदन सं. / Application No. : 202241010734

प्राप्त करने की तारीख / Date of Filing : 28/02/2022

पेटेंटी / Patentee : NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में विवक्षित **A DEVICE FOR AUTHENTICATING A PERSON** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख करवरी 2022 के अष्टादसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **A DEVICE FOR AUTHENTICATING A PERSON** as disclosed in the above mentioned application for the term of 20 years from the 28th day of February 2022 in accordance with the provisions of the Patents Act, 1970.

अनुदान की तारीख : 04/07/2024

Date of Grant : 04/07/2024

नियम - इस पेटेंट के मालिकान के लिए वार्षिक फीस देना होगा, जो 2024 के अष्टादसवें दिन की और उसके पश्चात प्रत्येक वर्ष से उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall on 28th day of February 2024 and on the same day in every year thereafter.



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पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमवली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 544531

आवेदन सं. / Application No. : 202241007607

फाइल करने की तारीख / Date of Filing : 14/02/2022

पेटेंटी / Patentee : NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में वर्णित **A TABLETOP APPARATUS FOR THE POUNDING OF CEREAL GRAINS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2022 के चौदहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुवत किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **A TABLETOP APPARATUS FOR THE POUNDING OF CEREAL GRAINS** as disclosed in the above mentioned application for the term of 20 years from the 14th day of February 2022 in accordance with the provisions of the Patents Act, 1970.

अनुदान की तारीख : 09/07/2024

Date of Grant : 09/07/2024

नियम - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, वर्ष 2024 के चौदहवें दिन को और उसके पश्चात प्रत्येक वर्ष से उसी दिन देय होगी।

Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 14th day of February 2024 and on the same day in every year thereafter.



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Academic Year 2023-24

S.No	Name of the Invention	Date of Filing	Date of Grant
1.	FINE DUST COLLECTOR, A NOVEL METHOD OF COLLECTING PARTICULATE MATTER USING WET SCRUBBING TECHNIQUE	09/04/2019	07/07/2023
2.	SMART THEFT PREVENTION SYSTEM USING GSM AND CLOUD	05/10/2018	07/11/2023
3.	AN APPARATUS FOR THE DECLUTTERING OF REFUSE FROM FREE-FLOWING GARBAGE	24/12/2021	29/11/2023
4.	A PORTABLE OPHTHALMIC APPARATUS	21/02/2020	11/12/2023
5.	WATER TANK CLEANING DEVICE	05/10/2018	22/12/2023
6.	TRACTOR REAR LOADER	21/02/2020	22/12/2023
7.	AN APPARATUS FOR SURVEILLING AIR DISSEMINATING MEMBERS	28/02/2022	21/12/2023
8.	AUTOMATIC FLOOR CLEANING AND MOPPING DEVICE	20/02/2020	26/12/2023
9.	AN APPARATUS FOR DERIVING A NATURAL SWEETENER	24/12/2021	22/12/2023
10.	A PORTABLE APPARATUS FOR MAKING NIBBLES	28/02/2022	11/01/2024
11.	SOLAR DRYER FOR AGRICULTURAL PRODUCTS	21/02/2020	11/01/2024
12.	GAS STOVE	14/02/2020	11/01/2024
13.	NON-INVASIVE DIABNOSIS DEVICE	05/10/2018	17/01/2024
14.	AUTOMATIC WASTE SEGREGATING BIN	14/02/2020	08/02/2024
15.	BLOCKS WITHOUT CEMENT FOR PAVING APPLICATIONS	24/12/2021	09/02/2024
16.	A SYSTEM FOR DETECTING ZERO-DAY AND SPEAR PHISHING ATTACK, AND METHOD OF WORKING	21/12/2019	14/02/2024



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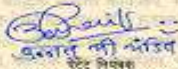
	THEREOF		
17.	SMART WASTE COLLECTING BIN	21/02/2020	15/02/2024
18.	AN APPARATUS FOR LOCATION TRACKING AND MONITORING THE OCCUPANCY STATUS OF A PUBLIC COMMUTING VEHICLE	19/01/2022	29/02/2024
19.	AN APPARATUS FOR ATTRACTING AND TRAPPING INSECTS IN DARK CONDITIONS	20/07/2021	22/02/2024
20.	AN APPARATUS FOR INJECTING PLANT GERMINATING MEMBERS	24/12/2021	28/03/2024
21.	A DEVICE FOR THE SURVEILLING OF A LEVEL OF INTRAVENOUS FLUID	14/02/2022	22/04/2024
22.	AN APPARATUS FOR THE SURVEILLING OF WATER FROM A POTABLE WATER SOURCE	19/01/2022	26/04/2024
23.	A PRODUCTIVITY SYSTEM	01/01/2022	29/04/2024
24.	AN APPARATUS FOR SLASHING AQUATIC MEMBERS HAVING FINS AND GILLS	14/02/2022	02/05/2024
25.	A DEVICE FOR CONTROLLING THE ILLUMINATION LEVEL OF A VEHICLE HEADLAMP	19/01/2022	07/05/2024
26.	AN APPARATUS FOR THE LOCOMOTION OF VISUALLY IMPAIRED PERSONS	20/02/2020	27/05/2024



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 INTELLECTUAL PROPERTY INDIA PATENTS COPYRIGHTS TRADE MARKS CIVILIAN SERVICE REGISTRATION	 १९५१	पेटेंट सं./SL No. : 044188527 
पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India पेटेंट प्रमाण पत्र Patent Certificate (पेटेंट नियमवली का नियम 74) (Rule 74 of The Patents Rules)		
पेटेंट सं. / Patent No.	539298	
आवेदन सं. / Application No.	202041007308	
घासल करने की तारीख / Date of Filing	20/02/2020	
पेटेंटी / Patentee	NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE	
प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में बधाप्रकटित AN APPARATUS FOR THE LOCOMOTION OF VISUALLY IMPAIRED PERSONS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2020 के बीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है। It is hereby certified that a patent has been granted to the patentee for an invention entitled AN APPARATUS FOR THE LOCOMOTION OF VISUALLY IMPAIRED PERSONS as disclosed in the above mentioned application for the term of 20 years from the 20th day of February 2020 in accordance with the provisions of the Patents Act, 1970.		
		
अनुदान की तारीख / Date of Grant	27/05/2024	 पेटेंट नियंत्रक Controller of Patents
नियम - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, फरवरी 2022 के बीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उन्ही दिन रखा होगा। Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 20th day of February 2022 and on the same day in every year thereafter.		



 INTELLECTUAL PROPERTY INDIA PATENT & TRADE MARKS REGISTRATION & PROTECTION		 भारत सरकार		क्रम सं./Sl. No.: 044178516 	
पेटेंट कार्यालय, भारत सरकार पेटेंट प्रमाण पत्र		The Patent Office, Government Of India Patent Certificate			
पेटेंट विधायकता का विषय (74)		(Rule 74 of The Patents Rules)			
पेटेंट सं. / Patent No. :	511059				
आवेदन सं. / Application No. :	202041007420				
प्रारंभ करने की तारीख / Date of Filing :	21/02/2020				
पेटेंटी / Patentee :	NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE				
प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित SMART WASTE COLLECTING BIN नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2020 के इक्कीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है। It is hereby certified that a patent has been granted to the patentee for an invention entitled SMART WASTE COLLECTING BIN as disclosed in the above mentioned application for the term of 20 years from the 21st day of February 2020 in accordance with the provisions of the Patents Act, 1970.					
					
अनुदान की तारीख / Date of Grant :	15/02/2024	 पेटेंट नियंत्रक Controller of Patents			
टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, फरवरी 2022 के इक्कीसवें दिन को और उसके पचास अंशक वर्ष में उसे तीन रूप लेगी। Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 21st day of February 2022 and on the same day in every year thereafter.					


SDG Member


SDG Co-Ordinator

Principal _____