

S. No.	Name Prefix	Inventor	Organization	Title of technology / invention	Technology readiness level (TRL)	Technological Domain / Target Industry Sector for Technology	Patented Filed (YES / NO)	Source of Information
1	Prof	Praveen Rishi	Panjab University	Development of strips for typhoid testing	TRL3 (Experimental proof of concept)		No	Inventor approached TEC
2	Dr	Subhrendu Guha Neogi	Amity School of Engineering and Technology	Security of SDN using Blockchain	TRL1 (Basic principles observed)	Cyber Security	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
3	Dr	Surinder Singh	Panjab University	waste water treatment	TRL2 (Technology concept formulated)	Chemical, metallurgical and process industries, Municipal corporations	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
4	Dr	Prashant Jindal	Panjab University	Bite force device	TRL7 (System prototype demonstration in operational environment)	Medical	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
5	Dr	Naresh Rakha	IIT Ropar	JivanVayu: Oxygen flow accelerator	TRL7 (System prototype demonstration in operational environment)	Medical device manufacturers	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
6	Dr	Pooja	CSIR-CSIO	Devices for Water Quality and Field Test Kits	TRL5 (Technology validated in relevant environment (industrially relevant environment))	Water or Environmental Industry	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
7	Dr	Pooja	CSIR-CSIO	V-treat: Medic's Breathing Device	TRL4 (Technology validated in lab)			Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
8	Mr	Kunal Singh	Maharaja Agrasen University, Baddi	Contactless wearable sanitizer	TRL7 (System prototype demonstration in operational environment)	Health care	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
9	Dr	Jagdish Rai	Panjab University	RECOMBINANT ANTIBODY AND AFFIBODY BASED DIAGNOSIS/DETECTION KITS	TRL2 (Technology concept formulated)	RECOMBINANT PROTEIN, ANTIBODY BASED DETECTION AND DIAGNOSIS, BIOTECHNOLOGY	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
10	Prof	Naveen Aggarwal	Panjab University	An Oral Healthcare Apparatus	TRL4 (Technology validated in lab)		No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
11	Prof	Rajneesh Talwar	CHANDIGARH ENGINEERING COLLEGE JHANJERI	FOLDABLE ELECTRIC BYCYCLE	TRL4 (Technology validated in lab)	CYCLE INDUSTRY	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
12	Dr	Garima Joshi	Panjab University	Automatic Segregation of Defective Fasteners	TRL4 (Technology validated in lab)	Fastener Industry	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
13	Mr	Avik Chakraborty	IIT Ropar	Medical procedure simulator	TRL3 (Experimental proof of concept)	Med tech	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
14	Prof	Vasundhara Singh	Punjab Engineering College Chandigarh	One pot synthesis of a new series of acyloxy-amide and acylamino-amide dihydropyrimidone derivatives.	TRL4 (Technology validated in lab)	Pharmaceutical Industry	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
15	Dr	Gulab Singh	Maharaja Agrasen University, Baddi	Method for detection milk adulteration	TRL4 (Technology validated in lab)	Dairy industry	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
16	Dr	Bharat Bajaj	Panjab University	Smart Filters for Nox and Sox gases adsorption from food and agrowaste	TRL4 (Technology validated in lab)	Environmental Solutions	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU

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17	Dr	Jayamurugan Govindasamy	Institute of Nano Science and Technology, Mohali	Paper test kit for fluoride detection in water	TRL4 (Technology validated in lab)	drinking water testing domestic and rural, healthcare	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
18	Dr	Jayamurugan Govindasamy	Institute of Nano Science and Technology, Mohali	An industrial friendly, nanotechnology-based scalable synthetic method for the production of low-cost anti-epileptic drug "Rufinamide"	TRL4 (Technology validated in lab)	Pharmaceutical industry	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
19	Dr	Jayamurugan Govindasamy	Institute of Nano Science and Technology, Mohali	A Simplified Process to treat Paracetamol Industrial Effluents	TRL4 (Technology validated in lab)	Pharmaceutical Industry especially paracetamol	Yes	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
20	Er	Parminder Singh	Capteruio Pvt. Ltd.	Internet of things based solutions for Industry 4.0 powered by Artificial Intelligence	TRL6 (Technology demonstrated in relevant environment (industrially relevant environment))	All kind of Manufacturing Industry, Healthcare, Environment, Scaling to industry 4.0, Logistic and Supply chain industry	No	Technology presented in an online showcasing event in October 2021 and organized by TEC - PU
21	Prof	Prince Sharma	Panjab University	An eco-friendly and cost-effective biocide (X) to control bacterial deterioration of paper in paper-mills				Inventor uploaded technology on TEC Website
22	Prof	Yajvender Pal Verma	Panjab University	File Sanitization Box				Inventor uploaded technology on TEC Website
23	Prof	Rajat Sandhir	Panjab University	Non-Invasive Organic Light Emitting Device for screening of Ovarian Cancer Based on Urinary Metabolites	TRL1 (Basic principles observed)			Inventor approached TEC
24	Prof	Naveen Aggarwal	Panjab University	Smart Traffic Vehicles Counting System				Inventor uploaded technology on TEC Website
25	Prof	S.K. Soni	Panjab University	Non-alcoholic sanitizer and disinfectant production				Inventor uploaded technology on TEC Website
26	Prof	Yajvender Pal Verma	Panjab University	IoT Based Smart Switch				Inventor uploaded technology on TEC Website
27	Prof	Naveen Aggarwal	Panjab University	Touchless Face Recognition Attendance System				Inventor uploaded technology on TEC Website
28	Prof	Naveen Aggarwal	Panjab University	IoT based Pollution Analysis of Area				Inventor uploaded technology on TEC Website
29	Prof	Yajvender Pal Verma	Panjab University	Solar Charger				Inventor uploaded technology on TEC Website
30	Prof	Yajvender Pal Verma	Panjab University	Solar_Rickshaw				Inventor uploaded technology on TEC Website
31	Prof	S.K. Soni	Panjab University	Waste Management/ Fermentation Technology				Inventor uploaded technology on TEC Website
32	Prof	Yajvender Pal Verma	Panjab University	Rodent Operant Bucket				Inventor uploaded technology on TEC Website
33	Dr	Prashant Jindal	Panjab University	Wire Extruder Machine				Inventor uploaded technology on TEC Website
34	Dr	Prashant Jindal	Panjab University	Motion Sensing Glove				Inventor uploaded technology on TEC Website

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35	Prof	Manu Sharma	Panjab University	Wood engraving machine				Inventor uploaded technology on TEC Website
36	Dr	Rajesh Kumar	Panjab University	Cost Effective Indigenous Vision Machine for Small and Medium Scale Industries	TRL1 (Basic principles observed)			Inventor approached TEC
37	Dr	Mahesh Thakur	Panjab University	Drone Based Early Warning of Landslide for Operators of Land Excavation Machinery, Infrastructure, and Mining Sector	TRL1 (Basic principles observed)			Inventor approached TEC
38	Prof	Prince Sharma	Panjab University	Novel vaccine candidates against drug resistant bacterial pathogen				Inventor uploaded technology on TEC Website
39	Prof	S.K. Soni	Panjab University	Wine production/Fermentation Technology				Inventor uploaded technology on TEC Website
40	Prof	Deepak Rahi	Panjab University	Mushroom Cultivation Production, Proximate & Microbiological analysis of food and Fungal taxonomy Fungal production.				Inventor uploaded technology on TEC Website
41	Dr	Deepak Salunke	Panjab University	Novel small molecules and formulations to be utilized as Vaccine Adjuvants, Synergistic agents with antimicrobials and chemoimmunotherapeutics			No	Inventor uploaded technology on TEC Website
42	Prof	S.K. Soni	Panjab University	Industrial Enzymes production/Fermentation Technology/Bioethanol production				Inventor uploaded technology on TEC Website
43	Prof	S.K. Soni	Panjab University	Bioethanol Production/ Fermentation Technology				Inventor uploaded technology on TEC Website
44	Dr	Prashant Jindal	Panjab University	Bionic prosthetic arm				Inventor uploaded technology on TEC Website
45	Prof	Vijay Prabha	Panjab University	Microbial Factors as Female and Male Contraceptives				Inventor uploaded technology on TEC Website
46	Prof	Manu Sharma	Panjab University	Engine Sump Cleaning Machine				Inventor uploaded technology on TEC Website
47	Dr	Prashant Jindal	Panjab University	Multi-layered night guard for diagnosing and managing bruxism	TRL1 (Basic principles observed)			Inventor approached TEC
48	Prof	Rupinder Singh	NITTTR CHANDIGARH	Development of innovative stifle prosthesis for canines	TRL1 (Basic principles observed)			Inventor approached TEC
49	Prof	Manoj Kumar Sharma	Panjab University	AN ORAL HEALTHCARE EDUCATIONAL APPARATUS AND A SYSTEM THEREOF				Inventor approached TEC
50	Ms	Ashwita Rattan	Panjab University	Back Supporting Bralette	TRL4 (Technology validated in lab)	Orthopaedics	No	Inventor uploaded technology on TEC Website
51	Dr	Vandita Kakkar	Panjab University	White curcumin and tacrolimus ointment for dermatitis, psoriasis and other skin inflammatory disorders				Inventor approached TEC through Club meeting

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52	Prof	Kashmir Singh	Panjab University	An effective cheapest method of removal of basic--cationic dyes to reduce TDS from textiles industries' effluent waste				Inventor approached TEC through Club meeting
53	Prof	Ganga Ram Chaudhary	Panjab University	Bioethanol Production from waste agricultural crop residue				Inventor approached TEC through Club meeting
54	Prof	Ganga Ram Chaudhary	Panjab University	A bio nano-composite material comprising a natural fiber				Inventor approached TEC through Club meeting
55	Dr	Ramesh K Sharma	Panjab University	UV Sanitization Chamber				Inventor approached TEC through Club meeting
56	Dr	Ramesh K Sharma	Panjab University	Chemical free car boot Sanitizer and Indoor Car Air Purifier				Inventor approached TEC through Club meeting
57	Dr	Manoj Kumar Sharma	Panjab University	Electronic Preferential Voting Machine				Inventor approached TEC through Club meeting
58	Prof	Siddhartha Panda	IIT Kanpur	TacVibes: A Novel Watch for the Visually Impaired				https://iitshowcase.com/tacvibes-a-novel-watch-for-the-visually-impaired/
59	Prof	Deepak Gupta	IIT Kanpur	Low Cost, Anti-counterfeiting labels				https://iitshowcase.com/low-cost-anti-counterfeiting-labels/
60	Prof	Ashish Dutta	IIT Kanpur	Brain Computer Interface based hand exoskeleton for neurorehabilitation of stroke patients				https://www.iitk.ac.in/new/a-bci-operated-hand-exoskeleton-based-neurorehabilitation-system-for-movement-restoration-in-paralysis
61	Prof	Bishakh Bhattacharya	IIT Kanpur	Adaptive Intelligent Pipe Health Monitoring Robots for Fuel Transportation Systems				https://iitshowcase.com/adaptive-intelligent-pipe-health-monitoring-robots-for-fuel-transportation-systems/
62	Prof	Rajesh Zele	IIT Bombay	Global Navigation Receiver Chip (Dhruva) Development for NAVIC				https://iitshowcase.com/adaptive-intelligent-pipe-health-monitoring-robots-for-fuel-transportation-systems/
63	Prof	V. Kamakoti	IIT Madras	SHAKTI class of RISC-V processors				https://iitshowcase.com/shakti-class-of-risc-v-processors/
64	Prof	Udayan Ganguly	IIT Bombay	One-Time Programmable Memory Technology for 180nm CMOS				https://iitshowcase.com/one-time-programmable-memory-technology-for-180nm-cmos/
65	Prof	Yogesh Singh Chauhan	IIT Kanpur	ASM-HEMT: Industry Standard Compact model for Circuit Design				https://iitshowcase.com/asm-hemt-industry-standard-compact-model-for-circuit-design/
66	Prof	Parameswar K. Iyer	IIT Guwahati	Visualization of Latent Fingerprints, Pathogen Sensors, Diagnosis Kits and Optoelectronic Devices				https://iitshowcase.com/visualization-of-latent-fingerprints-pathogen-sensors-diagnosis-kits-and-optoelectronic-devices/
67	Prof	Dipankar Saha	IIT Bombay	Gallium Nitride Technology for RF Power				https://iitshowcase.com/gallium-nitride-technology-for-rf-power/
68	Prof	Leena Vachhani	IIT Bombay	Matsya (Autonomous Underwater Vehicle)				https://iitshowcase.com/matsya-autonomous-underwater-vehicle/
69	Prof	Amit Kumar Singh	IIT Patna	Innovations in Millimeter Wave 5G Communication				https://iitshowcase.com/innovations-in-millimeter-wave-5g-communication/

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70	Prof	Raghendra Kumar Chaudhary	IIT(ISM) Dhanbad	Integration of Interweave-Underlay Operations in MIMO Cognitive Radio System for 5G Applications				Details shared by inventor during meeting in IIT R&D Fair held during Oct 2022 at IIT Delhi
71	Prof	Kiran Kumar Kuchi	IIT Hyderabad	5G Technology NB-IoT System on Chip				https://iitshowcase.com/5g-technology-nb-iot-system-on-chip/
72	Prof	Kalidas Yeturu	IIT Tirupati	ShreeAkshara - A general purpose algorithm and platform for digital document sub-region annotation and retrieval through subregion level models, model pooling and annotation as a service				https://iitshowcase.com/shreeakshara-a-general-purpose-algorithm-and-platform-for-digital-document-sub-region-annotation-and-retrieval-through-subregion-level-models-model-pooling-and-annotation-as-a-service/
73	Prof	Shanmuganathan Raman	IIT Gandhinagar	Digital Preservation and Restoration of Indian Cultural Heritage				https://iitshowcase.com/digital-preservation-and-restoration-of-indian-cultural-heritage/
74	Prof	Nisheeth Srivastava	IIT Kanpur	Adaptive routing system for physical delivery services				https://iitshowcase.com/adaptive-routing-system-for-physical-delivery-services/
75	Prof	Mayank Vatsa	IIT Jodhpur	Deepfake Detection in Images and Videos				https://iitshowcase.com/deepfake-detection-in-images-and-videos/
76	Prof	Girija Shankar Mahobia	IIT (BHU) Varanasi	'Nickel' free stainless steel for biomedical applications				https://iitshowcase.com/nickel-free-stainless-steel-for-biomedical-applications/
77	Prof	Debjani Paul	IIT Bombay	Portable digital inverted microscopes with single and variable magnifications				https://iitshowcase.com/portable-digital-inverted-microscopes-with-single-and-variable-magnifications/
78	Prof	Manas Mohan Mahapatra	IIT Bhubaneswar	Portable Emergency Ventilator (Battery/AC operated)				https://iitshowcase.com/portable-emergency-ventilator-battery-ac-operated/
79	Prof	Jyotsnendu Giri	IIT Hyderabad	DuroKea Technology				https://iitshowcase.com/durokea-technology/
80	Prof	Shiru Sharma	IIT (BHU) Varanasi	Design and Development of Affordable Myoelectric Prosthetic Hand				https://iitshowcase.com/design-and-development-of-affordable-myoelectric-prosthetic-hand/
81	Prof	S. Kanagaraj	IIT Guwahati	Affordable Lower Limb Prostheses				https://iitshowcase.com/affordable-lower-limb-prostheses/
82	Prof	Sourabh Ghosh	IIT Delhi	3D Bio printed skin disease models				https://iitshowcase.com/3d-bio-printed-skin-disease-models/
83	Prof	Anurag Rathore	IIT Delhi	Continuous Processing for Production of Biotech Therapeutics				https://iitshowcase.com/continuous-processing-for-production-of-biotech-therapeutics/
84	Prof	V.V. Raghavendra Sai	IIT Madras	Plasmonic Fiberoptic Absorbance Biosensor for low-cost and ultrasensitive tuberculosis diagnosis				https://iitshowcase.com/plasmonic-fiberoptic-absorbance-biosensor-for-low-cost-and-ultrasensitive-tuberculosis-diagnosis/
85	Prof	Jayaraj Joseph	IIT Madras	ARTSENS® : Early Vascular Ageing Health Assessment through Image-less Ultrasound				https://iitshowcase.com/artsens-early-vascular-ageing-health-assessment-through-image-less-ultrasound/
86	Prof	Shubhajit Roy Chowdhury	IIT Mandi	A device to estimate the concentration of albumin in urine through fluorescence spectroscopy				https://iitshowcase.com/a-device-to-estimate-the-concentration-of-albumin-in-urine-through-fluorescence-spectroscopy/

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87	Prof	Mahesh Raveendranatha Panicker	IIT Palakkad	Automated Lung Ultrasound Video Analysis Tool				https://iitshowcase.com/automated-lung-ultrasound-video-analysis-tool/
88	Prof	Rajaram Swaminathan	IIT Guwahati	PRATIDIPT: A low cost, portable, indigenous fluorometer for bio-analytical laboratories				https://iitshowcase.com/pratidipt-a-low-cost-portable-indigenous-fluorometer-for-bio-analytical-laboratories/
89	Prof	Suman Chakraborty	IIT Kharagpur	COVIRAP for Rapid Detection of Covid1				https://iitshowcase.com/covirap-for-rapid-detection-of-covid1/
90	Prof	Arzad Alam Kherani	IIT Bhilai	System for Artificial Insemination prediction in remotely located dairy farm cows				https://iitshowcase.com/system-for-artificial-insemination-prediction-in-remotely-located-dairy-farm-cows/
91	Prof	Renu John	IIT Hyderabad	ArmAble				https://iitshowcase.com/armable/
92	Prof	Renu John	IIT Hyderabad	nLite360TM				Details shared by inventor during meeting in IIT R&D Fair held during Oct 2022 at IIT Delhi
93	Prof	Emila Panda	IIT Gandhinagar	Highly reactive, Transparent and Environment-friendly Antimicrobial Surface Coating Technology				https://iitshowcase.com/highly-reactive-transparent-and-environment-friendly-antimicrobial-surface-coating-technology/
94	Prof	Smita Srivastava	IIT Madras	Sustainable production of plant derived anti-cancer drug- lead Camptothecin via microbial fermentation route				Details shared by inventor during meeting in IIT R&D Fair held during Oct 2022 at IIT Delhi
95	Prof	Alok Kumar Das	IIT(ISM) Dhanbad	Hybrid micro machining technology using chemical assisted spark machining processes				https://iitshowcase.com/hybrid-micro-machining-technology-using-chemical-assisted-spark-machining-processes/
96	Prof	Kabeer Jasuja	IIT Gandhinagar	A new class of boron-based nanomaterials as alternative fuel additives for solid-propellants				https://iitshowcase.com/a-new-class-of-boron-based-nanomaterials-as-alternative-fuel-additives-for-solid-propellants/
97	Prof	Abhishek	IIT Kanpur	High efficiency compact VTOL UAVs for multitude of applications				https://iitshowcase.com/high-efficiency-compact-vtol-uavs-for-multitude-of-applications/
98	Prof	C. Venkatesan	IIT Jodhpur	Indigenous Onboard Autopilot System for Autonomous Aerial Vehicle				https://iitshowcase.com/indigenous-onboard-autopilot-system-for-autonomous-aerial-vehicle/
99	Prof	Anil Agarwal	IIT Hyderabad	Rapidly deployable lightweight bridge system for army deployment and rescue operations				https://iitshowcase.com/rapidly-deployable-lightweight-bridge-system-for-army-deployment-and-rescue-operations/
100	Prof	Sunil Jha	IIT Delhi	Advanced CNC Micromachining System with integrated tool head				https://iitshowcase.com/advanced-cnc-micromachining-system-with-integrated-tool-head/
101	Prof	Ashwini Agrawal	IIT Delhi	Continuous Electrospinning machine				https://iitshowcase.com/continuous-electrospinning-machine/
102	Prof	Amitava Ghosh	IIT Madras	High performance chemically bonded superabrasive tools				https://iitshowcase.com/high-performance-chemically-bonded-superabrasive-tools/

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103	Prof	I. A. Palani	IIT Indore	Laser Assisted μ -3D printer for fabricating miniature device and structures				https://iitshowcase.com/laser-assisted-%CE%BC-3d-printer-for-fabricating-miniature-device-and-structures/
104	Prof	Ramesh Singh	IIT Bombay	Ultra-High-speed Micromachining Center				https://iitshowcase.com/ultra-high-speed-micromachining-center/
105	Prof	Somashekara M.A.	IIT Dharwad	Design and Development of 4D Printing Technology				https://iitshowcase.com/design-and-development-of-4d-printing-technology/
106	Prof	M. Ravi Shankar	IIT Tirupati	Abrasive Flow Finishing of Additive Manufactured Complex Features				https://iitshowcase.com/abrasive-flow-finishing-of-additive-manufactured-complex-features/
107	Prof	Dheeraj Kumar	IIT(ISM) Dhanbad	Self-Advancing (Mobile) Goaf Edge Supports (SAGES 200T)				https://iitshowcase.com/self-advancing-mobile-goaf-edge-supports-sages-200t/
108	Prof	Manas Mohan Mahapatra	IIT Bhubaneshwar	Indigenous DHD setup for residual stress measurement				https://iitshowcase.com/indigenous-dhd-setup-for-residual-stress-measurement/
109	Prof	Jayant K. Singh	IIT Kanpur	Hand-held tool-based soil health monitoring of Agricultural Land				https://iitshowcase.com/hand-held-tool-based-soil-health-monitoring-of-agricultural-land/
110	Prof	Ashis K. Datta	IIT Kharagpur	Continuous Refractance-Window Dryer				https://iitshowcase.com/continuous-refractance-window-dryer/
111	Prof	Sudipta Mukhopadhyay	IIT Kharagpur	KlearVisen™: Real-time Fog and Rain Removal from Video				https://iitshowcase.com/klearvisen-real-time-fog-and-rain-removal-from-video/
112	Prof	Shihabudheen	IIT Tirupati	Bio-derived sealant (Eco-Nanoseal) for the repair of micro-cracks in concrete				https://iitshowcase.com/bio-derived-sealant-eco-nanoseal-for-the-repair-of-micro-cracks-in-concrete/
113	Prof	Sujatha Srinivasan	IIT Madras	NeoBolt (motorized add-on that converts the NeoFly wheelchair into a road-worthy vehicle)				https://iitshowcase.com/neobolt-motorized-add-on-that-converts-the-neofly-wheelchair-into-a-road-worthy-vehicle/
114	Prof	Nomesh Bolia	IIT Delhi	Smart Public Transport Toolkit				https://iitshowcase.com/smart-public-transport-toolkit/
115	Prof	N. S. Rajput	IIT (BHU) Varanasi	An Intelligent Cyber-Physical System for Low-cost Air Quality Monitoring				https://iitshowcase.com/an-intelligent-cyber-physical-system-for-low-cost-air-quality-monitoring/
116	Prof	Ranjan Kumar Behera	IIT Patna	A Novel Induction Motor for EV Propulsion Applications				https://iitshowcase.com/a-novel-induction-motor-for-ev-propulsion-applications/
117	Prof	Dipankar Debnath	IIT Kharagpur	Integrated Motor Control Unit and Vehicle Control Unit For Low Speed Electric Vehicle				https://iitshowcase.com/integrated-motor-control-unit-and-vehicle-control-unit-for-low-speed-electric-vehicle/
118	Prof	Rajeev Kumar Singh	IIT (BHU) Varanasi	Mix Energy Source EV Charging System Design and Its Impact on Indian Smart Distribution Grid				https://iitshowcase.com/mix-energy-source-ev-charging-system-design-and-its-impact-on-indian-smart-distribution-grid/
119	Prof	Soobhankar Pati	IIT Bhubaneshwar	Charging Lithium Ion Battery with Nanoporous Silicon Anodes for electric vehicles (EVs)				https://iitshowcase.com/fast-charging-lithium-ion-battery-with-nanoporous-silicon-anodes-for-electric-vehicles-evs/
120	Prof	Anil Verma	IIT Delhi	Replacement of diesel generators with vanadium redox flow battery for sustainable environment				https://iitshowcase.com/replacement-of-diesel-generators-with-vanadium-redox-flow-battery-for-sustainable-environment/

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121	Prof	Shantanu Roy	IIT Delhi	Methanol Production from Indian Coal: Pilot Plant Demo, Catalysis and Scale-up Technologies				https://iitshowcase.com/methanol-production-from-indian-coal-pilot-plant-demo-catalysis-and-scale-up-technologies/
122	Prof	Rajesh K. Upadhyay	IIT (BHU) Varanasi	Membrane Reformer for On-Site Generation of Ultra-Pure Hydrogen Production				https://iitshowcase.com/membrane-reformer-for-on-site-generation-of-ultra-pure-hydrogen-production/
123	Prof	Prodyut Ranjan Chakraborty	IIT Jodhpur	Cascaded Latent Heat Thermal Storage for High temperature applications				https://iitshowcase.com/cascaded-latent-heat-thermal-storage-for-high-temperature-applications/
124	Prof	Avinash Kumar Agarwal	IIT Kanpur	Methanol (M15/ M85) Fuelled Two-Wheeler Developed at ERL, IIT Kanpur				https://iitshowcase.com/methanol-m15-m85-fuelled-two-wheeler-developed-at-erl-iit-kanpur/
125	Prof	Apeksha Madhukar	IIT Goa	Mitigation of air pollutants with Electrical Discharge based plasma-catalysis using industrial waste				https://iitshowcase.com/mitigation-of-air-pollutants-with-electrical-discharge-based-plasma-catalysis-using-industrial-waste/
126	Prof	Thamida Sunil Kumar	IIT Tirupati	Production of 2G Bioethanol by a Continuous Process				https://iitshowcase.com/production-of-2g-bioethanol-by-a-continuous-process/
127	Prof	Sagar Mitra	IIT Bombay	Lithium-ion and Sodium-ion battery Prototyping at IIT Bombay				https://iitshowcase.com/lithium-ion-and-sodium-ion-battery-prototyping-at-iit-bombay/
128	Prof	P. Muthukumar	IIT Guwahati	Energy Efficient and Eco-friendly Porous Radiant Burner for Cooking and Industrial Applications				https://iitshowcase.com/energy-efficient-and-eco-friendly-porous-radiant-burner-for-cooking-and-industrial-applications/
129	Prof	Indra Sekhar Sen	IIT Kanpur	Instant Water Quality Probe				https://iitshowcase.com/instant-water-quality-probe/
130	Prof	Shihabudheen	IIT Tirupati	Capacitive Deionization unit for clean drinking water				https://iitshowcase.com/capacitive-deionization-unit-for-clean-drinking-water/
131	Prof	Sachchida Nand Tripathi	IIT Kanpur	IoT-based Sensors for Industrial Emissions and Air Quality monitoring				https://iitshowcase.com/iot-based-sensors-for-industrial-emissions-and-air-quality-monitoring/
132	Prof	Abhijit Maiti	IIT Roorkee	Arsenic and other heavy metal removal from arsenic contaminated water				https://iitshowcase.com/arsenic-and-other-heavy-metal-removal-from-arsenic-contaminated-water/
133	Prof	Navin Kumar	IIT Ropar	Development of agro waste based microbial proof industrial viable particleboards				https://iitshowcase.com/development-of-agro-waste-based-microbial-proof-industrial-viable-particleboards/
134	Prof	Debraj Bhattacharyya	IIT Hyderabad	An Improved Sequential Batch Reactor for Wastewater Treatment				https://iitshowcase.com/an-improved-sequential-batch-reactor-for-wastewater-treatment/
135	Prof	Vimal Katiyar	IIT Guwahati	Heat Stable Biodegradable plastic for Day to Day applications				https://iitshowcase.com/heat-stable-biodegradable-plastic-for-day-to-day-applications/
136	Dr	Abhishek Tiwari	IIT Ropar	Design of CPM device and implants	TRL4 (Small Scale Prototype Built in a Lab Environment)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

S. No.	Name Prefix	Inventor	Organization	Title of technology / invention	Technology readiness level (TRL)	Technological Domain / Target Industry Sector for Technology	Patented Filed (YES / NO)	Source of Information
137	Dr	NAFIS UDDIN KHAN	Jaypee University of IT, Solan	ESP 8266 based Web server for Relay Control for smart homes and industrial automation	TRL3 (Experimental proof of concept)	IT / Software / Web / App Development; Automation	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
138	Dr	GD Puri	PGIMER	Low-cost Indigenous Alarm System for Monitoring of Intravenous Infusion	TRL9 (Full commercial application, technology available for consumers)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
139	Dr	Naveen Sankhyan	PGIMER	Motor Rehabilitation of Children with Cerebral Palsy using Virtual Intelligence	TRL6 (Prototype System Tested in intended environment close to expected performance)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
140	Prof	Shyam Sundar Pattnaik	NITTR CHANDIGARH	Magic Dross Machine	TRL9 (Full commercial application, technology available for consumers)	Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
141	Dr	Shiv Lal Soni	PGIMER	Indigenously developed High Flow Nasal Canula (HFNC) TrueOxy Device for Non-Invasive Ventilation	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
142	Dr	Shiv Lal Soni	PGIMER	Indigenously developed CPAP Helmet	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
143	Ms	Anita Budhiraja	National Institute of Elec. & IT (NIELIT)	Certifications in Blockchain	TRL3 (Experimental proof of concept)	IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
144	Prof	Preethy J Mathew	PGIMER	Cricoid Pressure Sensor Device	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
145	Prof	Rakesh Goyal	Chitkara University	Counterfeit Detector System	TRL4 (Small Scale Prototype Built in a Lab Environment)	IT / Software / Web / App Development; Supply Chain	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
146	Dr	Khushboo Rakha	IIT Ropar	Jivan Vayu	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
147	Dr	Khushboo Rakha	IIT Ropar	Technology to Improve Shelf Life of Locally Produced Fruits and Vegetables	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Agriculture and Allied Industries	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
148	Dr	Khushboo Rakha	IIT Ropar	UV Safe - Room Disinfection Device (used in IPL 2020)	TRL9 (Full commercial application, technology available for consumers)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
149	Dr	Khushboo Rakha	IIT Ropar	Currency Sanitizer - Quick sanitization of currency notes, documents and cards	TRL8 (First of a kind commercial system. Manufacturing issues solved)	Consumer Durables; Medical Devices / Surgical Equipment / Healthcare; Paper & Pulp Industry	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
150	Dr	Khushboo Rakha	IIT Ropar	Doffing Station - Technology for safe removal of PPE in hospitals	TRL6 (Prototype System Tested in intended environment close to expected performance)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
151	Prof	Rakesh Goyal	Chitkara University	Thermal Spray Technology	TRL4 (Small Scale Prototype Built in a Lab Environment)	Electroplating / Advanced Coatings	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
152	Prof	Surinder Rana	PGIMER	Integrated Puncturing and Dilating Endoscopic Ultrasound (EUS) Needle	TRL5 (Large Scale Prototype tested in intended environment)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

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153	Dr	Neelkanth Nirmalkar	IIT Ropar	Nanobubble generator	TRL5 (Large Scale Prototype tested in intended environment)	Agriculture and Allied Industries;Biotechnology; Chemicals;Clean Energy / Renewable Energy /Energy Storage;Food and Beverages;Metals and Mining;Paper & Pulp Industry; Pharmaceuticals;Textiles / Garments Design; Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
154	Dr	Neelkanth Nirmalkar	IIT Ropar	IoT for water quality monitoring	TRL5 (Large Scale Prototype tested in intended environment)	Waste Management / Effluent Treatment / Stubble Management	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
155	Dr	Malkeet Singh	IIT Ropar	Technology and Process For Coating A Substrate With Swarf Particles	TRL4 (Small Scale Prototype Built in a Lab Environment)	Materials and Metallurgy (Alloy, Steel, Polymers, etc.);Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
156	Dr	Ekta Singla	IIT Ropar	Modular and Reconfigurable Robotic Design	TRL4 (Small Scale Prototype Built in a Lab Environment)	Agriculture and Allied Industries;Automation / AI / SPM / Industry 4.0;Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
157	Dr	Nisha Tayal	Panjab University	Electronic Preferential Voting Machine for Facilitating an Election Based On Single Transferable Vote Method	TRL6 (Prototype System Tested in intended environment close to expected performance)	Automation / AI / SPM / Industry 4.0;IT / Software / Web / App Development	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
158	Mr	Mandeep Singh	IIT Ropar	Semi-Automatic Seeder Machine	TRL9 (Full commercial application, technology available for consumers)	Agriculture and Allied Industries	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
159	Mr	Sandeep Kumar	IIT Ropar	STUBBLE REMOVING AND CONVEYING MACHINE	TRL9 (Full commercial application, technology available for consumers)	Agriculture and Allied Industries	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
160	Dr	Prabhat K Agnihotri	IIT Ropar	Synthesis of carbon nanomaterials from walnut shell waste.	TRL4 (Small Scale Prototype Built in a Lab Environment)	Materials and Metallurgy (Alloy, Steel, Polymers, etc.);Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
161	Dr	Prabhat K Agnihotri	IIT Ropar	Synthesis of vertically aligned graphene sheets on different substrates using edible or non-edible oils	TRL4 (Small Scale Prototype Built in a Lab Environment)	Materials and Metallurgy (Alloy, Steel, Polymers, etc.);Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
162	Dr	Prabhat K Agnihotri	IIT Ropar	Structural composites from waste tyre rubber.	TRL4 (Small Scale Prototype Built in a Lab Environment)	Materials and Metallurgy (Alloy, Steel, Polymers, etc.);Waste Management / Effluent Treatment / Stubble Management	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
163	Prof	Sarbjeet Singh	Panjab University	Autonomous 5G enabled Air and Ground based vehicles for surveillance and mapping.	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Agriculture and Allied Industries;Automation / AI / SPM / Industry 4.0;Aviation;IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
164	Dr	Sanjeev Soni	CSIR-CSIO	Near infrared light Source cum Photothermal Device	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
165	Dr	Sanjeev Soni	CSIR-CSIO	Plasmonic photothermal Sterilization	TRL4 (Small Scale Prototype Built in a Lab Environment)	Chemicals;Medical Devices / Surgical Equipment / Healthcare;Microbiology	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
166	Dr	Sanjeev Soni	CSIR-CSIO	Intravenous infusion monitoring device	TRL4 (Small Scale Prototype Built in a Lab Environment)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
167	Dr	Sanjeev Soni	CSIR-CSIO	Hand motion measurement system	TRL4 (Small Scale Prototype Built in a Lab Environment)	Automation / AI / SPM / Industry 4.0;Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

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168	Dr	Sanjeev Soni	CSIR-CSIO	Plasmonic photothermal cancer therapeutics	TRL4 (Small Scale Prototype Built in a Lab Environment)	Biotechnology;Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
169	Prof	Navin Kumar	IIT Ropar	Mechanical characterisation of a soft tissue	TRL4 (Small Scale Prototype Built in a Lab Environment)	Biotechnology;Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
170	Mr	Gopal Mengi	CCET, Chandigarh	Domain adaptable & Self-supervised classification based built-up detection from medium resolution satellite images	TRL3 (Experimental proof of concept)	Agriculture and Allied Industries;Automation / AI / SPM / Industry 4.0;IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
171	Mr	Akash sharma	CCET, Chandigarh	Smart Event Management Cross Platform App	TRL4 (Small Scale Prototype Built in a Lab Environment)	IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
172	Mr	Vaibhav Kushwaha	CCET, Chandigarh	Slotted Wheel Microstrip Patch Antenna Based RF Energy Harvesting System	TRL4 (Small Scale Prototype Built in a Lab Environment)	Clean Energy / Renewable Energy /Energy Storage	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
173	Mr	Tarun	CCET, Chandigarh	Group Attendance using Face Recognition	TRL4 (Small Scale Prototype Built in a Lab Environment)	Automation / AI / SPM / Industry 4.0;IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
174	Dr	Garima Joshi	Panjab University	Smart Surface Defect Detection	TRL3 (Experimental proof of concept)	Automation / AI / SPM / Industry 4.0	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
175	Dr	Garima Joshi	Panjab University	Spectroplotter	TRL3 (Experimental proof of concept)	Biotechnology;Chemicals;Medical Devices / Surgical Equipment / Healthcare; Pharmaceuticals	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
176	Dr	Garima Joshi	Panjab University	Real-time Object Dimensionality Checker	TRL3 (Experimental proof of concept)	Auto Components;Automobiles;Automation / AI / SPM / Industry 4.0;Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
177	Dr	Garima Joshi	Panjab University	FTIR Graphical Analysis	TRL3 (Experimental proof of concept)	Biotechnology;Chemicals;Microbiology; Pharmaceuticals	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
178	Dr	Garima Joshi	Panjab University	PCB Defect Detection	TRL3 (Experimental proof of concept)	Automation / AI / SPM / Industry 4.0;Consumer Durables;IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
179	Dr	Garima Joshi	Panjab University	Component Detection	TRL3 (Experimental proof of concept)	Automation / AI / SPM / Industry 4.0;IT / Software / Web / App Development	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
180	Dr	Garima Joshi	Panjab University	Indian Sign Language	TRL3 (Experimental proof of concept)	Automation / AI / SPM / Industry 4.0;IT / Software / Web / App Development;Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
181	Prof	Ganga Ram Chaudhary	Panjab University	Membrane Technology for 2G Bioethanol Production from crop residue	TRL4 (Small Scale Prototype Built in a Lab Environment)	Biotechnology;Clean Energy / Renewable Energy /Energy Storage;Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
182	Prof	Anmol Goyal	RBU, Mohali	Water Purifier	TRL3 (Experimental proof of concept)	Clean Energy / Renewable Energy /Energy Storage	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
183	Dr	Mandeep Kaur Sandhu	RBU, Mohali	Smart Air Purifier	TRL3 (Experimental proof of concept)	Clean Energy / Renewable Energy /Energy Storage	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

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184	Dr	Anmol Goyal	RBU, Mohali	Humidifier	TRL3 (Experimental proof of concept)	Clean Energy / Renewable Energy /Energy Storage	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
185	Dr	Anmol Goyal	RBU, Mohali	Tiles from Waste	TRL3 (Experimental proof of concept)	Clean Energy / Renewable Energy /Energy Storage;Materials and Metallurgy (Alloy, Steel, Polymers, etc.)	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
186	Dr	Anmol Goyal	RBU, Mohali	Atmospheric Water Generator	TRL3 (Experimental proof of concept)	Clean Energy / Renewable Energy /Energy Storage	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
187	Mr	Rahul Narang	CCET, Chandigarh	Development of Green, Low Cost Smart crop health monitoring system using IoT	TRL4 (Small Scale Prototype Built in a Lab Environment)	Agriculture and Allied Industries	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
188	Prof	Inderdeep Singh	IIT Roorkee	Development of Modular Accessory for Mobility Enhancement of Manual Wheelchairs	TRL4 (Small Scale Prototype Built in a Lab Environment)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
189	Prof	Inderdeep Singh	IIT Roorkee	A Four-Way Valve for Directional Control and Mixing of Fluids	TRL4 (Small Scale Prototype Built in a Lab Environment)	Light Engineering (Hand Tools etc.)	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
190	Prof	Inderdeep Singh	IIT Roorkee	A Device for Rotary Disc Grinding with Adaptive Feeding for Electrochemical Discharge Machining Process and a Method Thereof	TRL4 (Small Scale Prototype Built in a Lab Environment)	Chemicals	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
191	Prof	Inderdeep Singh	IIT Roorkee	Adaptive feedback controlled electric hydro-dissection device	TRL5 (Large Scale Prototype tested in intended environment)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
192	Prof	Inderdeep Singh	IIT Roorkee	Briquetting Machine	TRL5 (Large Scale Prototype tested in intended environment)	Clean Energy / Renewable Energy /Energy Storage	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
193	Dr	Prashant Kumar	CSIR-CSIO	Building Energy Management System, Energy sense	TRL6 (Prototype System Tested in intended environment close to expected performance)	Automation / AI / SPM / Industry 4.0;Clean Energy / Renewable Energy /Energy Storage	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
194	Mr	Akshit Kamboj	CCET, Chandigarh	Automatic Electromagnetic Clutch using Ultrasonic sensor	TRL4 (Small Scale Prototype Built in a Lab Environment)	Auto Components;Automobiles	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
195	Dr	Mamta Juneja	Panjab University	Motion and Grip Sensing Glove	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
196	Dr	Mamta Juneja	Panjab University	Dental Aligners/Night Guards	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
197	Dr	Mamta Juneja	Panjab University	MaxilloCranioFacial Reconstruction	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
198	Dr	Mamta Juneja	Panjab University	3D printer	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Medical Devices / Surgical Equipment / Healthcare	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
199	Mr	HARSH BASSAL	CCET, Chandigarh	Low force heavy duty stapler, Top Loading Stapler	TRL2 (Technology concept formulated)	Light Engineering (Hand Tools etc.)	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

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200	Dr	Vijayender bhalla	CSIR-IMTECH	pH based test for detection of bacteria + MTCC facility and + BERPDC	TRL4 (Small Scale Prototype Built in a Lab Environment)	Biotechnology;Food and Beverages	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
201	Dr	Ankit Dubey	IIT Jammu	Open Analytics for Resource Monitoring	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)	Automation / AI / SPM / Industry 4.0;Clean Energy / Renewable Energy /Energy Storage; IT / Software / Web / App Development;Waste Management / Effluent Treatment / Stubble Management	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
202	Mr	Rajnish Yadav	CCET, Chandigarh	Electromagnetic Braking system	TRL1 (Basic principles observed)	Automobiles	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
203	Mr	Krishan Chandra	CCET, Chandigarh	Autonomous Fire Fighting System	TRL1 (Basic principles observed)	Automation / AI / SPM / Industry 4.0	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
204	Mr	Shaurya Khosla	St. John's High School, Sector 26, Chandigarh	EyeShift : Eye Care and Posture Control Device.	TRL4 (Small Scale Prototype Built in a Lab Environment)	Medical Devices / Surgical Equipment / Healthcare	Yes	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
205	Prof	Rajendra Madhukar Belokar	Punjab Engineering College Chandigarh	Duel chamber variable flow exhaust muffler	TRL4 (Small Scale Prototype Built in a Lab Environment)	Automobiles	yes	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
206	Mr	Mohammad Riyaz	Panjab University	Hydroponic and Nanosuspension	Products in Market	Agriculture and Health Care	No	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
207	Mr	Ritik Srivastava	Panjab University	Recyteq: Human hair based Plant Booster	TRL8 (First of a kind commercial system. Manufacturing issues solved)	Agriculture and Allied Industries	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
208	Mr	Abhay Singh Rana	Panjab University	Optimally designed machine tool using cast gantry	TRL9 (Full commercial application, technology available for consumers)	Automation / AI / SPM / Industry 4.0	NO	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
209	Mr	Apurav Sharma	Panjab University	BIOPROCESSING OF BIODEGRADABLE MUNICIPAL SOLID WASTE FOR PREPARATION OF MULTIPLE HYDROLYTIC ENZYMES AND BIOFERTILIZER FORMULATIONS	TRL4 (Small Scale Prototype Built in a Lab Environment)	Waste Management / Effluent Treatment / Stubble Management	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
210	Mr	Arjun Mittal	Panjab University	Smart Solar Tree, Eco friendly Products	TRL5 (Large Scale Prototype tested in intended environment)	Clean Energy / Renewable Energy /Energy Storage		Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
211	Mr	H S Cheema	Cheema Boilers Limited, Mohali	Eco-Friendly Method and Device for on Site Generation of Hydrogen Fuel	TRL8 (First of a kind commercial system. Manufacturing issues solved)	Paper & Pulp Industry	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
212	Mr	H S Cheema	Cheema Boilers Limited, Mohali	A System and Method for Feeding Water into a Boiler Vessel	TRL8 (First of a kind commercial system. Manufacturing issues solved)	Paper & Pulp Industry	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
213	Mr	H S Cheema	Cheema Boilers Limited, Mohali	A Portable Multi-Tier Vehicle Parking System	TRL8 (First of a kind commercial system. Manufacturing issues solved)	Automation / AI / SPM / Industry 4.0	YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU

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214	Prof	Joseph L Mathew	PGIMER	Artificial Breathing Device (ABCD)	TRL7 (System prototype demonstration in operational environment at pre-commercial scale)		YES	Technology Exhibited in CRIKC Exhibition held in November 2022 and organized by TEC - PU
215	Dr	S. Manikandan	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum	HRIDAY : PORTABLE LOW COST DISPOSABLE DEFIBRILLATOR FOR CARDIAC ARREST MANAGEMENT	TRL4 (Small Scale Prototype Built in a Lab Environment)	Medical Devices / Surgical Equipment / Healthcare	YES	DST Shared Technology
216	Dr	Jaya Shukla	PGIMER	mDesmo Cold kit				BID Hub PGIMER approached TEC
217	Prof	B. K. Chakravarthy	IIT Bombay	Window Mounted Solar Oven				https://diciitb.wordpress.com/projects/
218	Prof	Purba Joshi	IIT Bombay	Low Cost Vein Tracer for blood extraction				https://diciitb.wordpress.com/projects/
219	Prof	B. K. Chakravarthy	IIT Bombay	Water Filter Bottle for CRPF Jawans				https://diciitb.wordpress.com/projects/
220	Prof	B. K. Chakravarthy	IIT Bombay	Palki for Shri Mata Vaishno Devi Shrine				https://diciitb.wordpress.com/projects/
221	Prof	B. K. Chakravarthy	IIT Bombay	Anti- Riot helmet				https://diciitb.wordpress.com/projects/
222	Prof	B. K. Chakravarthy	IIT Bombay	Ladies Helmet				https://diciitb.wordpress.com/projects/
223	Prof	B. K. Chakravarthy	IIT Bombay	Kids Helmet				https://diciitb.wordpress.com/projects/
224	Prof	B. K. Chakravarthy	IIT Bombay	Maintenance Free Letterbox for India Post				https://diciitb.wordpress.com/projects/
225	Prof	B. K. Chakravarthy	IIT Bombay	Arsenic Water Filter				https://diciitb.wordpress.com/projects/
226	Prof	B. K. Chakravarthy	IIT Bombay	Stretcher for Indian Army				https://diciitb.wordpress.com/projects/
227	Prof	B. K. Chakravarthy	IIT Bombay	Design of Soil Moisture Sensor				https://diciitb.wordpress.com/projects/
228	Prof	B. K. Chakravarthy	IIT Bombay	Design of Frugal Harvesting Tools Sorghum				https://diciitb.wordpress.com/projects/
229	Prof	Purba Joshi	IIT Bombay	Design and Development of Water Carrying aid				https://diciitb.wordpress.com/projects/
230	Prof	B. K. Chakravarthy	IIT Bombay	Portable Patient Chair for Dental Camps				https://diciitb.wordpress.com/projects/
231	Prof	B. K. Chakravarthy	IIT Bombay	Solar Steam Generator based Rice Cooker				https://diciitb.wordpress.com/projects/
232	Prof	B. K. Chakravarthy	IIT Bombay	Seat Prop for Police Stick				https://diciitb.wordpress.com/projects/
233	Prof	R.K. Asthana	Banaras Hindu University, Varanasi	A Prototype Bioreactor for Kitchen Waste Disposal				https://diciitbhu.com/singleproject/a-prototype-bioreactor-for-kitchen-waste-disposal/
234	Dr	Kamlesh Manohar Planadurkar	Banaras Hindu University, Varanasi	Designing & Fabricating a novel Bilirubin interface removal device for clinical laboratories				https://diciitbhu.com/singleproject/designing-fabricating-a-novel-bilirubin-interface-removal-device-for-clinical-laboratories/
235	Dr	Prashant Kr Srivastava	Banaras Hindu University, Varanasi	Developing Android app for real time estimation and visualization of irrigation water demand				https://diciitbhu.com/singleproject/developing-android-app-for-real-time-estimation-and-visualization-of-irrigation-water-demand/

S. No.	Name Prefix	Inventor	Organization	Title of technology / invention	Technology readiness level (TRL)	Technological Domain / Target Industry Sector for Technology	Patented Filed (YES / NO)	Source of Information
236	Dr	Sanjay Yadav	Banaras Hindu University, Varanasi	Development of Indigenous low cost expandable cage system for spine surgery in Indian population				https://dicitbhu.com/singleproject/development-of-indigenous-low-cost-expandable-cage-system-for-spine-surgery-in-india-population-3/
237	Dr	Sudhankar Sivastava	Banaras Hindu University, Varanasi	Development of algal consortium and prototype for arsenic form rice field				https://bhu.ac.in/Site/FacultyProfile/2_171?FA000039#section-3
238	Dr	Aditya Bandopadhyay	IIT Kharagpur	Abrasion Resistance coating				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
239	Dr	Anirudha Deshpande	Savitribai Phule Pune University	Utilization of agriculture waste				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
240	Mr	Gopal Srivastva	Savitribai Phule Pune University	Nano Herbal Kavach				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
241	Mr	Gopal Srivastva	Savitribai Phule Pune University	Haema adhaar				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
242	Mr	Sweta Patnayak		E Klpa Tool				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
243	Mr	Arya Yudhveer Singh	IIT Roorkee	Machine Actuated Syringe				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
244	Mr	Arya Yudhveer Singh	IIT Roorkee	Machine for bricket Fabrication				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
245	Mr	Arya Yudhveer Singh	IIT Roorkee	Handloom Machine				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
246	Dr	Usha Kiran	IIT Hyderabad	Rice Husk Brick				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
247	Dr	Usha Kiran	IIT Hyderabad	Sugarcane fiber Brick				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
248	Dr	Usha Kiran	IIT Hyderabad	Single Passanger Drone				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
249	Dr	Usha Kiran	IIT Hyderabad	Air Purifier				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
250	Mr	Gulshan Kumar	IIT Delhi	Outdoor air quality monitoring				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi
251	Mr	Gulshan Kumar	IIT Delhi	Indoor air quality monitoring				Details shared by inventor during meeting in DIC Meet held during Feb 2023 and organized by SPA New Delhi

