

Indian Institute of Technology Hyderabad [ARI-U-0013][U-0013]

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 31st October 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	Yes
Institute has Action Plans for Implementation of the I&E Policy	Yes

Contact:

Faculty Name:	Prof. S. Suryakumar
Designation:	Professor
Email ID:	ssurya@mae.iith.ac.in
Mobile No.	8331036052
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1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	1,2
IIC 2.0 (2019-20)	0
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	0 (On Progress)

Contact:

IIC President of the Institute:	B.S. Murty
Designation:	Director
Email ID:	director@iith.ac.in
Mobile No.	8331036001
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1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Dr.Deepak John Mathew	Basic	0
2	Mudrika Khandelwal	Basic	1
3	Meduri Praveen	Basic	0
4	Sayak Banerjee	Basic	0
5	Suhanya Duraiswamy	Basic	1
6	Dr. Sudarsanam Putla	Basic	0
7	Sandipan Ray	Basic	0
8	Srikar A V R	Basic	0
9	Abhinav Kumar	Basic	0
10	Abhinav Kumar	Basic	0

1.4) Participation in KAPILA/SIH Program		
HEI Registered in the KAPILA Portal	U-0013	Yes
HEI Participated in the Smart India Hackathon (2022)	U-0013	No
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Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date
1	Entrepreneurial Risk Management	EM5060	2021-22	Core Course	Master	Entrepreneurship and Management	1	11-02- 2022 00:00:00
2	Operational Entrepreneurship	EM6040	2021-22	Core Course	Master	Entrepreneurship and Management	3	03-01- 2022 00:00:00
3	Strategic Management	EM6010	2021-22	Core Course	Master	Entrepreneurship and Management	3	03-01- 2022 00:00:00
4	International Business	EM5030	2021-22	Core Course	Master	Entrepreneurship and Management	1	28-03- 2022 00:00:00
5	Business Plan Development (Project)	EM4995	2021-22	Core Course	Bachelor	Entrepreneurship and Management	3	03-01- 2022 00:00:00
6	Introduction to Entrepreneurship	EM3020	2021-22	Core Course	Bachelor	Entrepreneurship and Management	1	03-01- 2022 00:00:00
7	Competitive Strategy for Startup	EM5010	2021-22	Core Course	Master	Entrepreneurship and Management	1	16-08- 2021 00:00:00
8	Decision Modelling	EM5050	2021-22	Core Course	Master	Entrepreneurship and Management	1	16-08- 2021 00:00:00
9	Innovation Management	EM5020	2021-22	Core Course	Master	Entrepreneurship and Management	1	22-09- 2021 00:00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date
10	Game Theory for Startups	EM5040	2021-22	Core Course	Master	Entrepreneurship and Management	1	01-11- 2021 00:00:00
11	Introduction to Intellectual Property Rights	EM3030	2021-22	Core Course	Bachelor	Entrepreneurship and Management	1	30-03- 2021 00:00:00
12	Introduction to Entrepreneurship	EM3020	2021-22	Core Course	Bachelor	Entrepreneurship and Management	1	11-01- 2021 00:00:00
13	Organizational Theory	EM6370	2021-22	Core Course	Master	Entrepreneurship and Management	3	11-01- 2021 00:00:00
14	Social Entrepreneurship	EM3010	2021-22	Core Course	Bachelor	Entrepreneurship and Management	1	22-02- 2021 00:00:00
15	Lean Startups	EM4040	2021-22	Core Course	Bachelor	Entrepreneurship and Management	1	30-03- 2021 00:00:00
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2.2	2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR							
Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date		
1	Analog IC design using free Software Tools	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	02-10- 2020 00:00:00		

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	I I I
2	Advanced Pedagogies Active Learning Digital Tools	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	05-10- 2020 00:00:00	(; (
3	Aid of Demo Experiments in Teaching Solid Mechanics	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	26-10- 2020 00:00:00	: : : : : : : : : : : : : : : : : : : :
4	Matrix Analysis using Python	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	03-11- 2020 00:00:00	(; (
5	Probability using Python	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	17-11- 2020 00:00:00	i i (
6	Advanced Algorithms	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	28-11- 2020 00:00:00	(; (
7	3D Printing Design	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	28-11- 2020 00:00:00	(; (
8	Advanced Pedagogies Active Learning Digital Tools	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	14-12- 2020 00:00:00	2 (
9	Cleaner Technologies for Sustainable Environment	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	21-12- 2020 00:00:00	2 2 (

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	1
10	Teaching effectiveness including advanced pedagogy techniques	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	06-11- 2020 00:00:00	(; (
11	Business Model Innovation (BMI) program	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CCE	17-05- 2021 00:00:00	: (
12	Nonlinear Problems in Mechanical and Physical Systems	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CCE	07-06- 2021 00:00:00	; (
13	Nano materials Nano mechanics and their application in devices and sensors	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CCE	28-06- 2021 00:00:00	(; (
14	Energy Conversion and Storage Devices(ECSD21)	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	CCE	01-07- 2021 00:00:00	(; (
15	Essential Softskills for RD	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CCE	19-03- 2022 00:00:00	; (
16	Future Skill Technologies in 3D Printing Design	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CCE	19-06- 2021 00:00:00	2 2 (

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	I I I
17	Deeptech Entrepreneurship Opportunities and Gaps	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	IIT Hyderabad Technology Incubation Center	21-02- 2022 00:00:00	: : (

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schen
1	Startup Cell	E Cell	Shreyansh Agrawal	8979471587	ms20btech11021@iith.ac.in	Mentoring S
2	Innovation Cell	Rural Development Centre	Ramesh G	0402301660	rameshg@math.iith.ac.in	Mentoring S
3	Innovation Cell	TiHAN	Rajalakshmi P	0402301645	raji@ee.iith.ac.in	Mentoring S
4	Innovation Cell	Design Innovation Center	Deepak John Mathew	0402301640	djm@des.iith.ac.in	Mentoring S

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schen
5	Innovation Cell	Central workshop	Karri Badarinath	0402301666	badarinath@mae.iith.ac.in	Pre-Incubati Support (Ide Prototype a Business Pla Developmer
6	Tinkering Lab	Tinkerers lab	Viswanath R R S R Chinthapenta	0402301666	viswanath@mae.iith.ac.in	Mentoring S
7	Innovation Cell	Centre for Continuing Education	Umashankar B	0402301630	buma@ce.iith.ac.in	Mentoring S
8	Innovation Cell	SIC	Kotaro Kataoka	0402301637	kotaro@cse.iith.ac.in	Mentoring S
9	Innovation Cell	Fabless Chip Design Incubator	Siva Rama Krishna Vanjari	0402301646	svanjari@ee.iith.ac.in	Mentoring S
10	Innovation Cell	iTIC incubator	Prof S Surya Kumar	8331036052	fic.incubation@iith.ac.in	Mentoring S Grant Suppor Incubation F Support (Ide Prototype a Business Pla Developmer Facility Supp (Innovative I Model to Sta Market Linka Growth Stage),Inves Angel a

Cell Healthcare John Grant Suppor Entrepreneurship Incubation F Support (Ide Prototype a Business Pla Developmer Facility Supp Facility Supp Innovative F Model to Sta Market Linka Growth Innovative F	Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schen
	11		Healthcare		9032316632	contactus@cfhe.iith.ac.in	Business Pla Developmer Facility Supp (Innovative I Model to Sta Market Linka Growth Stage),Inves

_	3.	2) Existence of	Incubation	Facility (>=	1500 Sq. Ft. Floor A	rea)
	Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
	1	i-TIC Foundation IITH	Prof. S. Surya Kumar	8331035052	fic.incubation@iith.ac.in	DST/NSTEDB/NID Resource,Other C

1	i-TIC Foundation IITH	Prof. S. Surya Kumar	8331035052	fic.incubation@iith.ac.in	DST/NSTEDB/NIDHI,MEITY,CSF Resource,Other Central/State
2	TIHAN	Rajalakshmi P	0402301645	raji@ee.iith.ac.in	DST/NSTEDB/NIDHI
3	Center for Healthcare Entrepreneurship	Renu John	0402301610	renujohn@bme.iith.ac.in	DST/NSTEDB/NIDHI
4	Fabless Chip Design Incubator	Siva Rama Krishna Vanjari	0402301646	svanjari@ee.iith.ac.in	DST/NSTEDB/NIDHI
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3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	IPR Cell	IPFC Cell	Dr Pradeep Kumar Y	83749 9399	fic.ipfc@iith.ac.in	Mentoring Support

Section 4: Generation and Support of Ideas / Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curre Enga of Te Lead Insti
1	A Hybrid Charging System for Electric Vehicle	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr Rupesh Wandhare	Facul
2	HAWW- Satirical Boardgame Design	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sandra RS	Alum
3	iV4V (Intelligent Voice for Vision) - An intelligent and reliable audio assistance for visual impairment using AI	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	K Naveen Kumar	Stud

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curre Enga of Te Lead Insti
4	Medicine from the sky - Autonomous vision perception system (AVPS) for medical drone delivery using AI	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	K Naveen Kumar	Stud
5	IITH Smart Parking Solution using AI	Independent Assignment/Non- academic Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre- commercial scale	K Naveen Kumar	Stud
6	Rakshak: A mobile robot platform for emergency situations	Independent Assignment/Non- academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Soham Kulkarni	Stude
7	A Method for Reduction of Residual Stresses in Additively Manufactured Components through Electropulsing	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre- commercial scale	Prof. S. Suryakumar	Facul
8	A Novel Area Filling Approach in Metal Additive Manufacturing for Reducing Substrate Distortion	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Prof. S. Suryakumar	Facul

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curro Enga of Te Lead Insti
9	Estimation of Sequence Component Phasor and Frequency using Transformation	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	C Anirudh	Stud
10	Simple and Efficient control algorithm for Front end converter suitable for Battery charger	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sivakumar gannamraju	Stud
11	Open-world Object Detection	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr Vineeth N Balasubramanian	Facul
12	FeGa based magnetostrictive thin films for cantilever based magnetometry – detection of bovine serum albumin	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	JAMMALAMADAKA SURYANARAYANA	Facul
13	Swatchh Air	Independent Assignment/Non- academic Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Priyabrata Rautray	Stud

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curro Enga of Te Lead Insti
14	A deposition and deformation based additive manufacturing system for fabrication of complex geometries	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 7 : Demonstration system operating in operational environment at pre- commercial scale	Prof. S. Suryakumar	Facul
15	Reusable Respiratory Mask With Disposable Filter Element	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 9 : Full commercial application, technology available for consumers	Prof. S. Suryakumar	Facul
16	Home-based diagnostic kit for identifying Covid19 (SARS- CoV-2 viral infection) from common flu (influenza viral infection) using RT-LAMP technology.	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. Gunjan Mehta	Facul
17	Cervico-vaginal fluid retriever device for the screening of cervical cancer/CIN/vaginal infections by colorimetric technique	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Aravind Kumar Rengan	Facul

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curre Enga of Te Lead Insti
18	Cervico-vaginal fluid retriever device for the screening of cervical cancer/CIN/vaginal infections by colorimetric technique	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Aravind Kumar Rengan	Facul
19	Automated Billing System	Independent Assignment/Non- academic Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sam Mathew Betson	Stud
20	Save Our Species: An experimental stop motion animation film that expresses the harm done to our planets wild life.	Academic Requirement/Study Project	2020-21	TRL 7 : Demonstration system operating in operational environment at pre- commercial scale	Delwyn Jude Remedios	Facul
21	nLite360®, is an Intelligent Phototherapy System that provides customized Phototherapy for Jaundice Newborns.	Independent Assignment/Non- academic Study Project	2019-20	TRL 6 : Prototype system tested in intended environment close to expected performance	Prasad Muddam	Entre

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curre Enga of Te Lead Insti
22	superhydrophobic fly-ash powders	Academic Research Assignment/Industry Sponsored Project	2019-20	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Atul Suresh Deshpande	Facul
23	Fault location Algorithms for power Transmission lines under various divergent conditions	Academic Requirement/Study Project	2019-20	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	C Purushotham Reddy	Stud
24	Memristor Based Device and Method for Detecting Bovine Serum Albumin (BSA)	Academic Research Assignment/Industry Sponsored Project	2019-20	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	JAMMALAMADAKA SURYANARAYANA	Facul
25	Fly ash Geopolymer Stabilized Reclaimed Bases (FRB) for Pavements	Academic Research Assignment/Industry Sponsored Project	2019-20	TRL 7 : Demonstration system operating in operational environment at pre- commercial scale	Prof. Sireesh Saride	Facul
26	Bio-Bricks a sustainable building material	Independent Assignment/Non- academic Study Project	2019-20	TRL 5 : Large scale prototype tested in intended environment	Priyabrata Rautray	Stud

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Curre Enga of Te Lead Insti
27	Grad-CAM++: Improved Visual Explanations for Deep Convolutional Networks	Academic Research Assignment/Industry Sponsored Project	2019-20	TRL 5 : Large scale prototype tested in intended environment	Dr Vineeth N Balasubramanian	Facul

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 31st October 2022)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Reco <u>e</u> DPIIT India
1	Chefcape enterprises Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U93090TG2020PTC139050	null	2021-22	2
2	iHeal HealthTech Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U74999HP2018PTC006859	null	2021-22	1
3	UrbanBrain Technologies Private Limited	Private Limited Firm (Pvt. Ltd.)	U72900KA2020PTC140930	null	2021-22	1
4	Pravega Bio Private Limited	Private Limited Firm (Pvt. Ltd.)	U72900TG2022PTC163126	null	2021-22	2
5	Power Sense Private Limited	Private Limited Firm (Pvt. Ltd.)	U74999TG2021PTC151665	null	2021-22	2

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Recog DPIIT India
6	Deusexvolt Electric Private Limited	Private Limited Firm (Pvt. Ltd.)	U50400TG2019PTC133045	null	2021-22	1
7	Milatronics Private Limited	Private Limited Firm (Pvt. Ltd.)	U72900AP2021PTC118570	null	2021-22	1
8	AVIAC Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U01100TG2021PTC151268	null	2021-22	1
9	Autonomous Logistics Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U35990TG2016PTC109487	null	2021-22	1
10	UAVIO Labs Private Limited	Private Limited Firm (Pvt. Ltd.)	U31909KA2021PTC145205	null	2021-22	1
11	Rovonize Systems Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U29308KL2018PTC055951	null	2021-22	1
12	Qoptars Private Limited	Private Limited Firm (Pvt. Ltd.)	U31900AS2020PTC020317	null	2021-22	1
13	Adiabatic	Not Yet Registered as an entity	null	null	2021-22	0
14	Healer Hoodie	Not Yet Registered as an entity	null	null	2021-22	0
15	M/s Cortex N Grey Technologies Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U31909TG2022PTC159459	null	2021-22	2
16	CORTEXNGREY TECHNOLOGIES PRIVTAE LIMITED	Limited Liability Partnership Firm (LLP)	U31909TG2022PTC159459	null	2021-22	1
17	Qoptars Private Limited	Private Limited Firm (Pvt. Ltd.)	U31900AS2020PTC020317	null	2021-22	1
18	AVIAC Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U01100TG2021PTC151268	null	2021-22	2

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Reco DPIIT India
19	UAVIO Labs Private Limited	Private Limited Firm (Pvt. Ltd.)	U31909KA2021PTC145205	null	2021-22	1
20	5N8 Health Solutions Private Limited	Private Limited Firm (Pvt. Ltd.)	U33119TG2022PTC164040	null	2021-22	2
21	MEDIG Inventions Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999TG2020PTC146574	null	2020-21	2
22	Stallion Vortex Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999WB2019PTC231728	null	2020-21	1
23	Uyirie Logics	Not Yet Registered as an entity	null	null	2020-21	0
24	Raibo Systems Private Limited	Private Limited Firm (Pvt. Ltd.)	U74999TG2020PTC139746	null	2020-21	1
25	Humus Biosystems LLP	Limited Liability Partnership Firm (LLP)	AAU-5977	null	2020-21	1
26	Healer Hoodie	Not Yet Registered as an entity	null	null	2020-21	0
27	Electra	Not Yet Registered as an entity	null	null	2020-21	0
28	VR Smart Dental Implant	Not Yet Registered as an entity	null	null	2020-21	0
29	Versanova innovations Pvt Ltd.	Private Limited Firm (Pvt. Ltd.)	U73200TG2021PTC154120	null	2020-21	1
30	Affocuris Technologies Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U33127TG2022PTC158444	null	2020-21	2

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Reco DPIIT India
31	MEDIG Inventions Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999TG2020PTC146574	null	2020-21	2
32	SKIoT Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72900TG2017PTC115022	null	2020-21	1
33	Elkemie Materials and Solutions Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74994TG2020PTC145797	null	2020-21	1
34	Navier Machines Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72500TG2020PTC146056	null	2020-21	1
35	Greenpod Labs Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U01100TN2019PTC131954	null	2020-21	1
36	Manali Swing Adventures Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U92419HP2021PTC008510	null	2020-21	2
37	LiqSure Systems Private Limited	Private Limited Firm (Pvt. Ltd.)	U90009TG2022PTC161112	null	2020-21	1
38	Greenspin Sole Proprietorship	Not Yet Registered as an entity	null	null	2020-21	0
39	Learn and Empower Private Limited	Private Limited Firm (Pvt. Ltd.)	U72900GJ2020PTC117249	null	2020-21	1
40	Humus Biosystems LLP	Limited Liability Partnership Firm (LLP)	AAU-5977	null	2020-21	1
41	Meghavarna Strategic Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72900TG2020PTC140862	null	2020-21	1
42	Tag-Hive Inc.	Private Limited Firm (Pvt. Ltd.)	U72900WB2019FTC231614	null	2020-21	2
43	Al-Genix International Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U24299MH2019PTC325773	null	2020-21	1

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Recog DPIIT India
44	Urdhvam Environmental Technologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74995PN2017PTC172957	null	2020-21	1
45	Flic Farm Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U29100TG2017PTC115935	null	2020-21	1
46	Inclusive Science, Technology, Engineering, and Mathematics Foundation	Private Limited Firm (Pvt. Ltd.)	U80902DL2019NPL351194	null	2020-21	2
47	Easy Krishi Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U74995KA2016PTC093660	null	2020-21	2
48	EF Polymer Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U01110RJ2018PTC062566	null	2020-21	1
49	Trestle Labs Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999GJ2017PTC099976	null	2020-21	1
50	MindCrescent Wellness Ventures Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U85191MH2016PTC272582	null	2020-21	1
51	Socratease Edtech India Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72900KA2019PTC120926	null	2020-21	1
52	Klonec Automation Systems Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U01100KA2017PTC101039	null	2020-21	1
53	Anavi Learning LLP	Limited Liability Partnership Firm (LLP)	AAI-7072	null	2020-21	1
54	Marut Dronetech Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999TG2019PTC132342	null	2020-21	1
55	Sascan Meditech Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U33110KL2015PTC068448	null	2020-21	1
56	Ask Techsoft Care Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U85100DL2016PTC309417	null	2020-21	1

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Recog DPIIT India
57	Konexaa HealthcareTechnologies Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U33209TN2020PTC137257	null	2020-21	2
58	Shubu Artificial Intelligence Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72900KA2020PTC139457	null	2020-21	1
59	Neodocs Tech Pvt. ltd.	Private Limited Firm (Pvt. Ltd.)	U74999MH2020PTC343690	null	2020-21	1
60	Anvayaa Kin Care Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U85300TG2016PTC109270	null	2020-21	1
61	Manentia Advisory Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U74999GJ2020PTC118186	null	2020-21	1
62	Medworld Solutions Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U93090MH2018PTC317520	null	2020-21	1
63	4basecare Genomics Pvt. Ltd	Private Limited Firm (Pvt. Ltd.)	U74999KA2018PTC112818	null	2020-21	1
64	Pink Parrot LLP	Not Yet Registered as an entity	null	null	2020-21	0
65	Zedblox Logitech Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72200TG2018PTC128291	null	2020-21	1
66	Carbon Hubs Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U29306KA2020PTC131481	null	2020-21	2
67	SRIDEVI MACHINERY WORKS	Private Limited Firm (Pvt. Ltd.)	U29309TG2021PTC154058	null	2020-21	2
68	Cbai Technologies Private Limited	Private Limited Firm (Pvt. Ltd.)	U72501TG2018PTC126638	null	2020-21	1
69	M/s Jivika Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U85300PN2019PTC208771	null	2019-20	2

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Reco DPIII India
70	M/s Aerobiosys Innovation Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U85320TG2019PTC136552	null	2019-20	2
71	M/s Kvayat Medical Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U33309TG2018PTC125627	null	2019-20	2
72	M/s Beablehealth Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U33100TG2017PTC120457	null	2019-20	2
73	M/s Chemioptics Healthcare Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U85100PTC2019136544	null	2019-20	2
74	M/s Nemocare Wellness Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U33309TG17PTC118262	null	2019-20	2
75	M/s Hemac Healthcare Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U74999TG2018PTC125253	null	2019-20	2
76	Tekra Solutions Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U85100MH2019PTC325065	null	2019-20	1
77	Illenium AI Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U72900TG2019PTC138086	null	2019-20	1
78	Amicrobe Herboceutical	Not Yet Registered as an entity	null	null	2019-20	0
79	EaffoCare Innovation Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U73100TG2019PTC131376	null	2019-20	1
80	In5n8 Health Tech LLP	Limited Liability Partnership Firm (LLP)	AAW-9997	null	2019-20	2
81	Skelregen Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U24111TG2019PTC129760	null	2019-20	1
82	Medoja Health Pvt. Ltd.	Private Limited Firm (Pvt. Ltd.)	U73200TG2020PTC145154	null	2019-20	1

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Start Reco <u>s</u> DPIIT India
83	Greenspin Sole Proprietorship	Not Yet Registered as an entity	null	null	2019-20	0
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Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	Japan's National Institute of Advanced Industrial Science and Technology (AIST)	International Agency	5	Active	23-12-2021	View (/Upload
2	Commissionerate of Collegiate Education Telangana State (CCETS)	Educational Institute	3	Active	28-04-2022	View (/Upload

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
3	Centre for Development of Adanced Computing (CDAC)	Govt. Agency (Central)	5	Active	12-09-2020	View (/Upload:
4	NMICPS TiHAN Foundation	Incubation Unit	10	Active	12-02-2021	View (/Upload:
5	DRDO	Govt. Agency (Central)	5	Active	03-07-2020	View (/Upload
6	Greenko School Of Sustainable Science & Technology	Corporate/Industry Association	5	Active	02-07-2022	View (/Upload:
7	ESIC Medical College and Hospital	Educational Institute	5	Active	09-11-2020	View (/Upload:
8	IISc Bangalore	Educational Institute	5	Active	29-07-2021	View (/Upload
9	Kepler Aerospace	Corporate/Industry Association	5	Active	16-09-2021	View (/Upload
10	New Frontier Capital Management	International Agency	5	Active	24-04-2020	View (/Upload:
11	PharmCADD Co. Ltd	Corporate/Industry Association	5	Active	09-06-2021	View (/Upload
12	Photonics Valley Corporation, Govt of Telangana	Corporate/Industry Association	5	Active	16-06-2021	View (/Upload:
13	Indian Institute of Technology Madras	Educational Institute	5	Active	03-12-2020	View (/Upload:

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
14	National Highway Authority of India	Govt. Agency (Central)	5	Active	17-08-2020	View (/Upload
15	University of Hyderabad	Educational Institute	5	Active	11-09-2020	View (/Upload
16	CSIR – North East Institute Of Science And Technology (NEIST)	Govt. Agency (Central)	5	Active	13-06-2022	View (/Upload
17	I'm beside you Inc.	International Agency	5	Active	23-11-2021	View (/Upload
18	NIT Agartala	Educational Institute	5	Active	21-06-2022	View (/Upload
19	NIT Nagaland	Educational Institute	5	Active	11-06-2022	View (/Upload
20	NIT Sikkim	Educational Institute	5	Active	17-05-2022	View (/Upload
21	Kathumandu University, COMS Nepal, IIIT Hyderabad	Educational Institute	5	Active	02-06-2022	View (/Upload
22	Kathmandu University	International Agency	5	Active	02-06-2022	View (/Upload
23	RGUKT	Educational Institute	3	Active	25-08-2021	View (/Upload
24	CfHE Chair Professorship	Corporate/Industry Association	2	Active	01-03-2022	View (/Upload
25	BNV Japan	International Agency	5	Active	01-09-2022	View (/Upload

Section 7: Intellectually Property (IP) Generated and Commercialization

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Respiratory Mask	Design	329983001	12-06-2020	No
2	Respiratory Mask	Design	329984001	12-06-2020	No
3	Spindle Based Seating Furniture	Design	360489001	23-03-2022	No

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	Ferroelectric Polymer (?-Pvdf) For Control And Mitigation Of Microbes Under Small Voltage Signals	202041050666	03-12-2020
2	High Entropy Alloy And Quinary Alloy Nanowires	202043041990	28-09-2020
3	Method Of Receiving Signal Stream And A Receiver	US 17/058,273	24-11-2020
4	Decellularized Corneal Matrix Based Hydrogel, Bioink Formulation And Methods Thereof	US 16/981,957	17-09-2020
5	"Non-Invasive System For Detection Of At Least One Severe Acute Respiratory Syndrome Coronavirus 2 "	202043039581	14-09-2020
6	A Non-Invasive System For Detection Of At Least One Analyte	202041037641	01-09-2020
7	Method And System For Dynamic Selection Of Functional Split For Cloud Radio Access Network	202041036210	22-08-2020
8	An Improved Sequential Batch Reactor For Wastewater Treatment	202041031706	24-07-2020
9	Methods And Systems For Improving Coverage Of A Cellular Network	202041034036	08-07-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
10	Hybrid Polymeric Nanoformulations For The Treatment Of Retinoblastoma By Chemo/Photothermal Therapy	202041001986	16-01-2020
11	A Footwear And A Method Of Manufacturing Thereof	202041047879	03-05-2021
12	A Device Configurable In A Microscope For Real Time Testing And Imaging Of A Sample	202041053912	11-12-2020
13	Method And System Of Pre-Coding A Waveform For Synchronization In A Communication Network	202042045110	16-10-2020
14	Method And System For Transmitting And Receiving A Waveform With Low Papr	202042025341	16-06-2020
15	"Reusable Respiratory Mask With Disposable Filter Element"	202041023866	06-07-2020
16	Method And System For Transferring Data Between Distributed Unit And Radio Unit	202041021530	20-05-2020
17	Method And System For Designing A Waveform For Data Communication	202148016050	05-04-2021
18	Method And System For Classifying Speed Of A User Equipment	US 17/257,967	01-05-2021
19	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	US 17/264,067	28-01-2021
20	Pharmaceutical Compositions And Delivery Systems For Prevention And Treatment Of Candidiasis	US 17/276,478	15-03-2021
21	System And Method For Performing Efficient Scheduling In Cloud Radio Access Network	202141020062	01-05-2021
22	Techniques For Real Time Aquarate Geo Referencing Objects Using Lidar	202141020099	03-05-2021
23	Metal - Co2 Battery With Co2 As An Energy Carrier For Mars Exploration	202041016948	20-04-2020
24	Hierarchical Three-Dimensional Hybrid Carbon Microelctrode Arrays As An Anode For Energy Storage Devices	202041023243	06-03-2020
25	A Methodology For Transfer Of Knowledge From Data-Rich Domains For Thermal Image Processing .	202011032663	30-07-2020
26	Miniaturized Microscope Device And Method Thereof.	202041030727	18-07-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
27	Reconfigurable Unmanned Aerial Vehicle (Uav) Within Flight Adaptive Multimotor And Method Thereof	202141027004	17-06-2021
28	Autonomous Uav Design For Detection And Tracking Of Beyond Visual Range Non-Stationary Targets	202141032206	16-07-2021
29	Methods Of Production Of Pencil Needle Powder Based Graphite- Silica Composite Electrode	202141012545	23-03-2021
30	Microfluidic Platform For Three-Dimensional Cell Culture And Multi- Drug Testing And Methods Of Fabrication Thereof (Provisional Patent)	202141030041	05-07-2021
31	A Hybrid Charging System	202111023691	27-05-2021
32	A System And Process For Segregation Of Low Ash Clean Coal From Coal Tailings	202031005007	05-02-2020
33	Method For Wireless Communication Using Beamformed Physical Downlink Control Channel (Pdcch)	US 17/290,290	30-04-2021
34	Method Of Determining Modulation And Coding Scheme (Mcs) And A System Thereof	US 17/284,230	09-04-2021
35	Method And System For Generating A Transmit Waveform For Reference Sequences	US 17/284,050	09-04-2021
36	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	US 17/264,067	28-01-2021
37	Method And System For Designing A Waveform For Data Communication	US 17/333,650	28-05-2021
38	Method And System For Designing A Waveform For Data Communication	US 17/333,654	28-05-2021
39	Fabrication Of Pcb Sunstrate Based Low Cost Multichannel Device For Bio Sensing	202141053633	22-11-2021
40	Conductive Nanofiber Based Chemiresistive Sensors For Blosensing	202141053627	22-11-2021
41	A Chemi Capacitive Non Invasive System For Detection Of Atleast One Analyste	202141053604	22-11-2021
42	A Chemi Capacitive Non Invasive System For Detection Of Atleast One Analyste	202141054695	29-11-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
43	Method And System For Designing A Waveform For Data Communication	202148016040	05-04-2021
44	Method For Allocating Resources To A Plurality Of Users By A Base Station	US 17/172,404	10-02-2021
45	A Novel Algal-Bacterial Photo-Bio Tower For Waste Water Treatment	202141059299	20-12-2021
46	Silk Fibroin Microfiber Reinforced Polycaprolactone Composites	202141055556	30-11-2021
47	Reconfigurable Logic Via Gate Controlled Skyrmion Motion	202141057701	11-11-2021
48	Znsno3/In2O3 Core-Shell Nanofibers, Method Of Preparing Them And Their Uses	202141056630	06-12-2021
49	Nb-lot And Gnss Chip Design And Architecture	202141034798	02-08-2021
50	Method And System For Generating A Waveform In A Communication Network	US 17/601785	06-10-2021
51	Chemiresistive-Paper-Based Biosensor For Detection Of A Biomarker	202141054721	26-11-2021
52	Electreospun Macroenapsulation Devices For Islet Cell Transplantation In The Treatment Of Diabetes Mellitus	202141039638	01-09-2021
53	Modified Peg-400 (Mpeg-Aa Complex) And Uses Thereof	202141003895	28-01-2021
54	System And Method For Hyperspectral Imager Interface On Uav For Data Acquisition	202141042862	22-09-2021
55	Optimum Strain Gradient For Strong Electro-Mechanical Coupling	202111048321	22-10-2021
56	Method And System For Generating A Waveform Using A Precoder	201941038805	26-03-2021
57	A Deposition And Deformation Based Additive Manufacturing System For Fabrication Of Complex Geometries	201941016062	25-12-2020
58	A Method For Discrimination Of Filled And Unfilled Grains Of Rice Using Thermal Images	201941019196	20-11-2020
59	Lora Mote	201941030150	29-01-2021
60	Method And System For Generating A User Equipment (Ue) And A Base Station (Bs)	201941009771	11-01-2021
61	Plant Derived Fluorescent Nanoparticles For Treatment Of Cancer	201941030649	03-02-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
62	Platelet-Rich Plasma Based Formulations For Treating Wounds And A Method For Preparation Thereof	201841042298	17-07-2020
63	Polycaprolactone-Bioactive Glass Composite Scaffolds And 3D Printable Filaments, Applications And Preparation Methods Thereof	201841041833	08-05-2020
64	Detection Kit For Diagnosis Of Cervical Cancer By Quantification Of Visual Inspection Of Acetic Acid	201841016604	08-05-2020
65	Pharmaceutical Compositions And Delivery Systems For Prevention And Treatment Of Candidiasis	201841034939	20-03-2020
66	5G New Radio Physical Random Access Channel (Nr-Prach) Receiver	201841034881	20-03-2020
67	Liposomal Nanoformulations For Treatment Of Cancer	201841032747	06-03-2020
68	Non-Invasive Iot Enabled Power Monitoring Using A Split Architecture For Centralized Voltage Measurement	201841029505	31-07-2020
69	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S Fully Non-Invasive Self-Sustaining Current Monitoring Device Using Magnetic Flux Based Energy Harvesting	201841029885	14-02-2020
70	Fully Non-Invasive Self-Sustaining Current Monitoring Device Using Magnetic Flux Based Energy Harvesting	201841029504	31-07-2020
71	Fluorescent Polyethylene Glycol	201841030149	14-02-2020
72	High Energy Lithium Ion Cell	201841024810	07-02-2020
73	Method And System For Classifying Speed Of A User Equipment	201841028421	31-01-2020
74	Corrosion Protected Positive Grid For A Lead-Acid Battery	201841025931	17-01-2020
75	Domain Wall Tunnelling And Logic Operations In Ferromagnetic Nanostructures	201941048936	28-05-2021
76	Memristor Based Device And Method For Detecting Bovine Serum Albumin (Bsa)	201941034084	26-02-2021
77	A System For A Sheet Metal Working And A Process Thereof	201941008005	04-09-2020
78	Single Step Electrochemical Synthesis Of Nanocrystalline Multicomponent Alloy Thin Films/Coatings In An Aqueous Medium	201941013178	09-10-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
79	System And Method For Generating Reference Signals With Low Peak-To-Average Power Ratio (Papr) Waveform	201841040625	01-05-2020
80	Method And System For Generating A Waveform In A Communication Network	PCT/IN2020/05	25-09-2020
81	Method For Wireless Communication Using Beamformed Physical Downlink Control Channel (Pdcch)	PCT/IN2020/05	06-05-2020
82	Method Of Determining Modulation And Coding Scheme (Mcs) And A System Thereof	PCT/IN2019/05	22-05-2020
83	Method And System For Generating A Transmit Waveform For Reference Sequences	PCT/IN2019/05	07-05-2020
84	Pharmaceutical Compositions And Delivery Systems For Prevention And Treatment Of Candidiasis	PCT/IB2019/05	26-03-2020
85	Method And System For Detecting Physical Random Access Channel (Prach) Transmission From Multiple User Equipment'S	PCT/IN2019/05	19-03-2020
86	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	PCT/IN2019/05	13-02-2020
87	Method And System For Classifying Speed Of A User Equipment	PCT/IN2019/05	06-02-2020
88	A QR-CODE, BLOCKCHAIN AND GEO-FENCED SELF LEARNING SMART MEDICAL IOT SYSTEM FOR ESTIMATING THE AVAILABILITY OF HOSPITAL BEDS, AN EMERGENCY HUMAN LOGISTIC VEHICLE ROUTING & THEREOF.	202141038429	25-08-2021
89	DETECTION OF ANONYMOUS ACTIONS IN VIDEO SURVEILLANCE USING CONVOLUTIONAL NEURAL NETWORKS	202141030798	09-07-2021
90	A CONTACTLESS MOBILE-HEALTH SYSTEM OF DIGITAL MEDICAL/VACCINATION RECORDS & MOBILIVITY OF TRAVELERS WITH MULTILAYER BIOMETRIC ENABLED COULD BLOCKCHAIN.	202141013898	29-03-2021
91	THERMOSENSITIVE HYDROGEL FOR CANCER THERAPEUTICS AND METHODS OF PREPARATION THEREOF	202041021283	20-05-2020
92	Method for 3d-ic design using dynamic libraries and a system therefor	201711015607	18-10-2021
93	Partitioning and placement method and system for 3d-ic design	201711015615	17-02-2022
94	Method and a system for fault tolerance in 3d-ics	201711038800	17-05-2021

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
1	107075173	Cellulose acetate based non-woven nanofiber matrix with high absorbency properties for female hygiene products	28-06-2019	Granted	2019	Applicant	Vie
2	11153891	Method for scheduling data by network node aggregated with lte and wi-fi protocol stacks	19-10-2021	Granted	2021	Applicant	Vie
3	2548707	Cellulose acetate based non-woven nanofiber matrix with high absorbency properties for female hygiene products	16-09-2020	Granted	2020	Applicant	Vie
4	386021	A method of producing lipid-based nanocapsules without temperature cycling and the product thereof	07-01-2022	Granted	2022	Applicant	Vie
5	11012263	Method and apparatus for a cluster specific cloud radio transmission and reception	18-05-2021	Granted	2021	Applicant	Vie
6	10257776	Method of performing cell search by user equipment (UE)	09-04-2019	Granted	2019	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
7	388842	CELLULOSE ACETATE BASED NON-WOVEN NANOFIBER MATRIX WITH HIGH ABSORBENCY PROPERTIES FOR FEMALE HYGIENE PRODUCTS	09-02-2022	Granted	2022	Applicant	Vie
8	10812300	Method and transmitter for generating a waveform with optimized papr	20-10-2020	Granted	2020	Applicant	Vie
9	6668454	Method and system for designing a waveform for data communication	18-03-2020	Granted	2020	Applicant	Vie
10	EP 3 289 739	Method and system for designing a waveform for data communication	19-08-2020	Granted	2020	Applicant	Vie
11	10374843	Method and system for designing a waveform for data communication	06-08-2019	Granted	2019	Applicant	Vie
12	388018	Lateral reinforcement system and method for concrete structures	31-01-2022	Granted	2022	Applicant	Vie
13	10448407	Interference cancellation enhancement in HetNets through coordinated SIMO/MIMO interference codes	15-10-2019	Granted	2019	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
14	10191943	Decorrelation of user- defined function invocations in queries	29-01-2019	Granted	2019	Applicant	Vie
15	368357	Interference management for a distributed spatial network	02-06-2021	Granted	2021	Applicant	Vie
16	342262	AN ORDERED REDUCED SET SUCCESSIVE DETECTOR FOR LOW COMPLEXITY, QUASI- ML MIMO DETECTION	31-07-2020	Granted	2020	Applicant	Vie
17	202141038429	A QR-CODE BLOCKCHAIN AND GEO-FENCED SELF LEARNING SMART MEDICAL IOT SYSTEM FOR ESTIMATING THE AVAILABILITY OF HOSPITAL BEDS, AN EMERGENCY HUMAN LOGISTIC VEHICLE ROUTING & THEREOF.	03-09-2021	Published	2021	Applicant	Vie
18	202141030798	DETECTION OF ANONYMOUS ACTIONS IN VIDEO SURVEILLANCE USING CONVOLUTIONAL NEURAL NETWORKS	23-07-2021	Published	2021	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
19	202141013898	A CONTACTLESS MOBILE-HEALTH SYSTEM OF DIGITAL MEDICAL/ VACCINATION RECORDS & MOBILITY OF TRAVELERS WITH MULTILAYER BIOMETRIC ENABLED CLOUD BLOCKCHAIN	09-04-2021	Published	2021	Applicant	Vie
20	202041021283	THERMOSENSITIVE HYDROGEL FOR CANCER THERAPEUTICS AND METHODS OF PREPARATION THEREOF	26-11-2021	Published	2021	Applicant	Vie
21	201711015607	Method for 3d-ic design using dynamic libraries and a system therefor	18-10-2021	Published	2021	Applicant	Vie
22	201711015615	Partitioning and placement method and system for 3d-ic design	17-02-2022	Published	2022	Applicant	Vie
23	201711038800	Method and a system for fault tolerance in 3d-ics	17-05-2021	Published	2021	Applicant	Vie
24	201741042270	Composition, method and kit for rapid risk stratification of traumatic brain injury	31-05-2019	Published	2019	Applicant	Vie
25	201811020381	3d stacked multifuctional flexible sensor device	06-12-2019	Published	2019	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
26	201841009835	Decellularized corneal matrix based hydrogel, bioink formulation and methods thereof	20-09-2019	Published	2019	Applicant	Vie
27	201841011114	An airborne vacuum cleaner	27-09-2019	Published	2019	Applicant	Vie
28	201841013261	Apparatus and methods for label-free morphological evaluation of human sperm	11-10-2019	Published	2019	Applicant	Vie
29	201841015128	Method and electronic device for gender detection of humans in one or more images	25-10-2019	Published	2019	Applicant	Vie
30	201841020438	A method of receiving signal stream and a receiver thereof	06-12-2019	Published	2019	Applicant	Vie
31	201841023467	Dense medium cyclone for near gravity coal fraction separation	27-12-2019	Published	2019	Applicant	Vie
32	201947006811	System And Method to Generate a Waveform In a Communication Network	01-03-2019	Published	2019	Applicant	Vie
33	410014	Biopolymer-based nanoparticles and a method of preparing the same	27-10-2022	Granted	2022	Applicant	Vie
34	3443714	Method and transmitter for generating a waveform with optimized papr	02-02-2019	Published	2019	Applicant	Vie
Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
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35	3497828	System and method to generate a waveform in a communication network	19-08-2019	Published	2019	Applicant	Vie
36	11381437	System and Method to Generate a Waveform in a Communication Network	05-07-2022	Granted	2022	Applicant	Vie
37	202043041990	HIGH ENTROPY ALLOY AND QUINARY ALLOY NANOWIRES	28-09-2020	Published	2020	Applicant	Vie
38	202043039581	Non-Invasive System For Detection of At Least One Severe Acute Respiratory Syndrome Coronavirus 2	14-09-2020	Published	2020	Applicant	Vie
39	202041037641	A Non-Invasive System for Detection of At Least One Analyte	01-09-2020	Published	2020	Applicant	Vie
40	202041001986	HYBRID POLYMERIC NANOFORMULATIONS FOR THE TREATMENT AND MANAGEMENT OF RETINOBLASTOMA	16-01-2020	Published	2020	Applicant	Vie
41	202042045110	METHOD AND SYSTEM OF PRE- CODING A WAVEFORM FOR SYNCHRONIZATION IN A COMMUNICATION NETWORK	16-10-2020	Published	2020	Applicant	Vie
42	202042025341	Method And System for Transmitting And Receiving A Waveform With Low PAPR	16-06-2020	Published	2020	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
43	202041023866	REUSABLE RESPIRATORY MASK WITH DISPOSABLE FILTER ELEMENT	06-07-2020	Published	2020	Applicant	Vie
44	202041021530	METHOD AND SYSTEM FOR TRANSFERRING DATA BETWEEN DISTRIBUTED UNIT AND RADIO UNIT	20-05-2020	Published	2020	Applicant	Vie
45	202148016050	METHOD AND SYSTEM FOR DESIGNING A WAVEFORM FOR DATA COMMUNICATION	05-04-2021	Published	2021	Applicant	Vi
46	202041023243	HIERARCHICAL THREE-DIMENSIONAL HYBRID CARBON MICROELECTRODE ARRAYS AS AN ANODE FOR ENERGY STORAGE DEVICES	06-03-2020	Published	2020	Applicant	Vi
47	202141032206	AUTONOMOUS UAV DESIGN FOR DETECTION AND TRACKING OF BEYOND VISUAL RANGE NON- STATIONARY TARGETS	16-07-2021	Published	2021	Applicant	Vi
48	202031005007	A SYSTEM AND PROCESS FOR SEGREGATION OF LOW ASH CLEAN COAL FROM COAL TAILINGS	05-02-2020	Published	2020	Applicant	Vi

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
49	202141053633	FABRICATION OF PCB SUBSTRATE BASED LOW COST MULTICHANNEL DEVICE FOR BIOSENSING	22-11-2021	Published	2021	Applicant	Vie
50	202141053627	CONDUCTIVE NANOFIBER BASED CHEMIRESISTIVE SENSORS FOR BLOSENSING	22-11-2021	Published	2021	Applicant	Vie
51	202141053604	A CHEMI-CAPACITIVE NON-INVASIVE SYSTEM FOR DETECTION OF AT LEAST ONE ANALYTE	22-11-2021	Published	2021	Applicant	Vie
52	202141054695	A CHEMI-CAPACITIVE NON-INVASIVE SYSTEM FOR DETECTION OF AT LEAST ONE ANALYTE	29-11-2021	Published	2021	Applicant	Vie
53	202148016040	METHOD AND SYSTEM FOR DESIGNING A WAVEFORM FOR DATA COMMUNICATION	05-04-2021	Published	2021	Applicant	Vie
54	202141056630	"ZnSnO3/In2O3 CORE- SHELL NANOFIBERS, METHOD OF PREPARING THEM AND THEIR USES"	06-12-2021	Published	2021	Applicant	Vie
55	202141054721	CHEMIRESISTIVE- PAPER-BASED BIOSENSOR FOR DETECTION OF A BIOMARKER	26-11-2021	Published	2021	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
56	201941016062	A Deposition and Deformation Based Additive Manufacturing System For Fabrication Of Complex Geometries	25-12-2020	Published	2020	Applicant	Vie
57	201941019196	A method for discrimination of filled and unfilled grains of rice using thermal images	20-11-2020	Published	2020	Applicant	Vie
58	201841042298	Platelet-rich plasma based formulations for treating wounds and a method for preparation thereof	17-07-2020	Published	2020	Applicant	Vie
59	201841041833	Polycaprolactone- bioactive glass composite scaffolds and 3d printable filaments, applications and preparation methods thereof	08-05-2020	Published	2020	Applicant	Vie
60	201841016604	Detection kit for diagnosis of cervical cancer by quantification of visual inspection of acetic acid	08-05-2020	Published	2020	Applicant	Vie
61	201841034939	Pharmaceutical compositions and delivery systems for prevention and treatment of candidiasis	20-03-2020	Published	2020	Applicant	Vie
62	201841034881	5g new radio physical random access channel (nr-prach) receiver	20-03-2020	Published	2020	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
63	201841032747	Liposomal nanoformulations for treatment of cancer	06-03-2020	Published	2020	Applicant	Vie
64	201841029505	Non-Invasive IOT Enabled Power Monitoring Using A Split Architecture For Centralized Voltage Measurement	31-07-2020	Published	2020	Applicant	Vie
65	201841029885	Method And System for Scheduling A Pool of Resources To A Plurality Of User Equipment's	14-02-2020	Published	2020	Applicant	Vie
66	201841029504	Fully Non-Invasive Self- Sustaining Current Monitoring Device Using Magnetic Flux Based Energy Harvesting	31-07-2020	Published	2020	Applicant	Vie
67	201841030149	Fluorescent polyethylene glycol	14-02-2020	Published	2020	Applicant	Vie
68	201841024810	High energy lithium ion cell	07-02-2020	Published	2020	Applicant	Vie
69	201841028421	Method And System For Classifying Speed of A User Equipment	31-01-2020	Published	2020	Applicant	Vie
70	201841025931	Corrosion protected positive grid for a lead-acid battery	17-01-2020	Published	2020	Applicant	Vie
71	201941008005	A System for a Sheet Metal Working and a Process Thereof	04-09-2020	Published	2020	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
72	201941013178	Single Step Electrochemical Synthesis of Nanocrystalline Multicomponent Alloy Thin Films/Coatings In An Aqueous Medium	09-10-2020	Published	2020	Applicant	Vie
73	202041050666	Ferroelectric Polymer (?-Pvdf) For Control And Mitigation Of Microbes Under Small Voltage Signals	10-06-2022	Published	2022	Applicant	Vie
74	202041036210	Method And System For Dynamic Selection Of Functional Split For Cloud Radio Access Network	25-02-2022	Published	2022	Applicant	Vie
75	202041034036	Methods And Systems For Improving Coverage Of A Cellular Network	11-02-2022	Published	2022	Applicant	Vie
76	202041053912	A Device Configurable In A Microscope For Real Time Testing And Imaging Of A Sample	17-06-2022	Published	2022	Applicant	Vie
77	202041016948	Metal - Co2 Battery With Co2 As An Energy Carrier For Mars Exploration	22-10-2021	Published	2021	Applicant	Vie
78	202011032663	A Methodology For Transfer Of Knowledge From Data- Rich Domains For Thermal Image Processing .	04-02-2022	Published	2022	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
79	202041030727	Miniaturized Microscope Device And Method Thereof.	04-02-2022	Published	2022	Applicant	Vie
80	202141055556	Silk Fibroin Microfiber Reinforced Polycaprolactone Composites	08-04-2022	Published	2022	Applicant	Vie
81	202141057701	Reconfigurable Logic Via Gate Controlled Skyrmion Motion	28-01-2022	Published	2022	Applicant	Vie
82	202141003895	Modified Peg-400 (Mpeg-Aa Complex) And Uses Thereof	29-07-2022	Published	2022	Applicant	Vie
83	201941038805	Method And System For Generating A Waveform Using A Precoder	26-03-2021	Published	2021	Applicant	Vie
84	201941030150	Lora Mote	29-01-2021	Published	2021	Applicant	Vie
85	201941009771	Method And System For Generating A User Equipment (Ue) And A Base Station (Bs)	11-06-2021	Published	2021	Applicant	Vie
86	201941030649	Plant Derived Fluorescent Nanoparticles For Treatment Of Cancer	05-02-2021	Published	2021	Applicant	Vie
87	201941048936	Domain Wall Tunnelling And Logic Operations In Ferromagnetic Nanostructures	28-05-2021	Published	2021	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
88	201941034084	Memristor Based Device And Method For Detecting Bovine Serum Albumin (Bsa)	26-02-2021	Published	2021	Applicant	Vie
89	201841040625	System And Method For Generating Reference Signals With Low Peak-To- Average Power Ratio (Papr) Waveform	01-05-2020	Published	2020	Applicant	Vie
90	WO/2021/059297	Method And System For Generating A Waveform In A Communication Network	01-04-2021	Published	2021	Applicant	Vie
91	WO/2020/225825	Method For Wireless Communication Using Beamformed Physical Downlink Control Channel (Pdcch)	12-11-2020	Published	2020	Applicant	Vie
92	WO/2020/100170	Method Of Determining Modulation And Coding Scheme (Mcs) And A System Thereof	22-05-2020	Published	2020	Applicant	Vie
93	WO/2020/089931	Method And System For Generating A Transmit Waveform For Reference Sequences	07-05-2020	Published	2020	Applicant	Vie
94	WO/2020/058836	Pharmaceutical Compositions And Delivery Systems For Prevention And Treatment Of Candidiasis	26-03-2020	Published	2020	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
95	WO/2020/053900	Method And System For Detecting Physical Random Access Channel (Prach) Transmission From Multiple User Equipment'S	19-03-2020	Published	2020	Applicant	Vie
96	WO/2020/031210	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	13-02-2020	Published	2020	Applicant	Vie
97	WO/2020/026266	Method And System For Classifying Speed Of A User Equipment	06-02-2020	Published	2020	Applicant	Vie
98	US 17/058,273	Method Of Receiving Signal Stream And A Receiver	24-11-2020	Published	2021	Applicant	Vie
99	US 16/981,957	Decellularized Corneal Matrix Based Hydrogel, Bioink Formulation And Methods Thereof	17-09-2020	Published	2021	Applicant	Vie
100	US 17/257,967	Method And System For Classifying Speed Of A User Equipment	01-05-2021	Published	2021	Applicant	Vie
101	US 17/264,067	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	28-01-2021	Published	2021	Applicant	Vie
102	US 17/276,478	Pharmaceutical Compositions And Delivery Systems For Prevention And Treatment Of Candidiasis	15-03-2021	Published	2022	Applicant	Vie

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
103	US 17/290,290	Method For Wireless Communication Using Beamformed Physical Downlink Control Channel (Pdcch)	30-04-2021	Published	2021	Applicant	Vie
104	US 17/284,230	Method Of Determining Modulation And Coding Scheme (Mcs) And A System Thereof	09-04-2021	Published	2021	Applicant	Vie
105	US 17/284,050	Method And System For Generating A Transmit Waveform For Reference Sequences	09-04-2021	Published	2022	Applicant	Vie
106	US 17/264,067	Method And System For Scheduling A Pool Of Resources To A Plurality Of User Equipment'S	28-01-2021	Published	2021	Applicant	Vie
107	US 17/333,650	Method And System For Designing A Waveform For Data Communication	28-05-2021	Published	2021	Applicant	Vie
108	US 17/333,654	Method And System For Designing A Waveform For Data Communication	28-05-2021	Published	2021	Applicant	Vie
109	US 17/172,404	Method For Allocating Resources To A Plurality Of Users By A Base Station	10-02-2021	Published	2021	Applicant	Vie
110	US 17/601,785	Method And System For Generating A Waveform In A Communication Network	06-10-2021	Published	2022	Applicant	Vie

7.4	4) IP Commercialized and Transfe	erred to Inc	lustry/Startup		
Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co- ownership is Must)	Technology Transferred to	Name of Licensee
1	5G Stack licended on July 2021	IP/Patented Technology	IIT Hyderabad (Inventor: Prof. Kiran Kumar Kuchi)	Start-up	WiSig Networks Pvt Ltd
2	IIT Hyderabad (Inventor: Dr. Debraj Bhattacharyya) Kaashyap Envergy Infrastructure Pvt Ltd (Inventor: Mr. Kiran Kumar Kurilla)	IP/Patented Technology	IIT Hyderabad (Inventor: Dr. Debraj Bhattacharyya)	Start-up	Kaashyap Envergy Infrastructures Private

Kaashyap

Envergy Infrastructure

Pvt Ltd

(Inventor: Mr. Kiran Kumar Kurilla)

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Declaration

To, The ARIIA Committee MHRD's Innovation Cell New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Prof. B. S. Murty** (Head of Institute) and **Mr. Priyotosh Bandyopadhay** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute

-10-22-Prof. B S Murty

Prof. B. S. Murty, Head of the Institution, Indian Institute of Technology Hyderabad, Hyderabad, Telangana Nodal officer



Mr. Priyotosh Bandyopadhay, Nodal Officer, Indian Institute of Technology Hyderabad, Hyderabad, Telangana