

## 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 7th November 2022 )	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	No
Institute has Action Plans for Implementation of the I&E Policy	No

#### Contact:

Faculty Name:	Dr Ramesh Hegde
Designation:	Professor and Head
Email ID:	rameshhegde@acharya.ac.in
Mobile No.	9900545520

### 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)	5
IIC 3.0 (2020-21)	3.5
IIC 4.0 (2021-22)	2

#### Contact:

IIC President of the Institute:	Dr.Rajath Hegde MM
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Designation:	PRINCIPAL
Email ID:	principalait@acharya.ac.in
Mobile No.	9901065561

### 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	Suneetha T B	Advance	0
2	Dr Ramesh Hegde	Advance	0
3	Dr.BRUNGESH K V	Basic	0
4	CHARDRASHEKHAR L	Basic	0
5	Harshavardan V K	Basic	0
6	Dr.Virupaksha Goud	Basic	0
7	Sneha M K	Basic	2
8	SUNIL KUMAR A V	Basic	0
9	Ms.Liny P	Advance	3
10	Md. Samiul Haque	Basic	0
11	AKASH N	Basic	0
12	Tejaswini P	Basic	0

### 1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-1319	Yes
HEI Participated in the Smart India Hackathon (2022)	C-1319	Yes

## Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

## 2.1) Academic Courses in Innovation, Entrepreneurship and IPR

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	Management and Entrepreneurship	18EE51	2020-21	Core Course	Bachelor	Electrical and Electronics Engineering	3	01-08-2020 00:00:00
2	Management And Entrepreneurship	18AE51	2020-21	Core Course	Bachelor	Aeronautical Engineering	3	01-09-2020 00:00:00
3	Management and Entrepreneurship	18AU51	2020-21	Core Course	Bachelor	Automobile Engineering	3	01-09-2020 00:00:00
4	Bio-Business and Entrepreneurship	18BT51	2020-21	Core Course	Bachelor	Biotechnology	3	01-09-2020 00:00:00
5	Management and Entrepreneurship for IT Industry	18CS51	2020-21	Core Course	Bachelor	Computer Science and Engineering	3	01-09-2020 00:00:00
6	Construction Management and Entrepreneurship	18CV51	2020-21	Core Course	Bachelor	Civil Engineering	3	01-09-2020 00:00:00
7	Technological Innovation Management and Entrepreneurship	18EC51	2020-21	Core Course	Bachelor	Electronics and Communication Engineering	3	01-09-2020 00:00:00
8	Management and Entrepreneurship for IT Industry	18CS51	2020-21	Core Course	Bachelor	Information Science and Engineering	3	01-09-2020 00:00:00
9	Technological Innovation Management and Entrepreneurship	18MT51	2020-21	Core Course	Bachelor	Mechatronics Engineering	3	01-09-2020 00:00:00
10	Entrepreneurship and Legal Aspects	20MBA26	2020-21	Core Course	Master	Master of Business Administration	4	10-07-2020 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
11	Management and Economics	18ME51	2020-21	Core Course	Bachelor	Mechanical Engineering	3	01-09-2020 00:00:00
12	Management and Entrepreneurship	18AE51	2021-22	Core Course	Bachelor	Aeronautical Engineering	3	15-09-2021 00:00:00
13	Management And Entrepreneurship	18AU51	2021-22	Core Course	Bachelor	Automobile Engineering	3	15-09-2021 00:00:00
14	Bio-Business and Entrepreneurship	18BT51	2021-22	Core Course	Bachelor	Biotechnology	3	15-09-2021 00:00:00
15	Management and Entrepreneurship for IT Industry	18CS51	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	15-09-2021 00:00:00
16	Construction Management and Entrepreneurship	18CV51	2021-22	Core Course	Bachelor	Civil Engineering	3	15-09-2021 00:00:00
17	Technological Innovation Management and Entrepreneurship	18EC51	2021-22	Core Course	Bachelor	Electronics and Communication Engineering	3	15-09-2021 00:00:00
18	Management and Entrepreneurship	18EE51	2021-22	Core Course	Bachelor	Electrical and Electronics Engineering	3	15-09-2021 00:00:00
19	Management and Entrepreneurship for IT Industry	18CS51	2021-22	Core Course	Bachelor	Information and Science Engineering	3	15-09-2021 00:00:00
20	Technological Innovation Management and Entrepreneurship	18MT51	2021-22	Core Course	Bachelor	Mechatronics Engineering	3	15-09-2021 00:00:00
21	Management and Economics	18ME51	2021-22	Core Course	Bachelor	Mechanical Engineering	3	15-09-2021 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
22	Entrepreneurship and Legal Aspects	20MBA26	2021-22	Core Course	Bachelor	Master of Business Administration	4	10-06-2021 00:00:00
23	Innovative and Design Thinking	21IDT19	2021-22	Core Course	Bachelor	Computer Science and Engineering	1	13-12-2021 00:00:00
24	Innovative and Design Thinking	21IDT19	2021-22	Elective Course	Bachelor	Information Science and Engineering	1	13-12-2021 00:00:00
25	Innovative and Design Thinking	21IDT19	2021-22	Elective Course	Bachelor	Artificial Intelligence and Machine Learning Engineering	1	13-12-2021 00:00:00
26	Regulatory Affairs in BT Industry	18BT81	2021-22	Core Course	Bachelor	Biotechnology Engineering	3	08-04-2022 00:00:00
27	Regulatory Affairs in BT Industry	18BT81	2020-21	Core Course	Bachelor	Biotechnology Engineering	3	19-04-2021 00:00:00
28	Bioethics Biosafety and IPR	18BT741	2020-21	Elective Course	Bachelor	Biotechnology Engineering	3	01-08-2020 00:00:00
29	Bioethics Biosafety and IPR	18BT741	2021-22	Elective Course	Bachelor	Biotechnology Engineering	3	15-09-2021 00:00:00
30	research Methodology and IPR	20RMI17	2020-21	Core Course	Master	Computer Science and Engineering	2	01-09-2020 00:00:00

## 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	Prog Start Date
1	Trends Of Millennials Contributions and Challenges in Aerospace Engineering	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Aeronautical Engineering	27-01-2020 00:00:00
2	Robotics and its applications	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	13-01-2020 00:00:00
3	Machine Learning and Computer Vision	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	13-01-2021 00:00:00
4	Embedded Systems and Programming	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	10-01-2021 00:00:00
5	Internship on Python Numpy	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electrical and Electronics Engineering	02-01-2021 00:00:00
6	Embedded Systems and IOT using Raspberry Pi with Python	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	17-01-2022 00:00:00
7	VLSI Design Using Cadence Tools	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	17-01-2022 00:00:00
8	Student Training Program on Robotics Virtual Instrumentation Micro and Smart Systems Technology	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Mechatronics Engineering	27-01-2022 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	Prog Start Date
9	FDP on Recent trends in solar and PV cells and its applications	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Electrical and Electronic Engineering	27-01-2021 00:00
10	Workshop on IPR Awareness and Prior Art Search	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Acharya KSCST IPR Cell	07-01-2021 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	G
1	Tinkering Lab	MEMS Technology Center	Chandrashekar L	9986292083	chandrashekarl@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
2	Innovation Cell	Industrial Robotics	Naveen Kumar S N	8105870136	naveenkumarsn@acharya.ac.in	M G I r S P B D F (I M M G S A
3	Innovation Cell	Industrial Automation	Dr.Devarajaiah R M	9449680516	devarajaiahrm@acharya.ac.in	M G I r S P B D F (I M M G S A
4	Innovation Cell	Smart Grid Simulation Lab	Dr. R Prakash	9448694645	prakashr@acharya.ac.in	M G I r S P B D F (I M M G S A



Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
5	Tinkering Lab	Virtual Instrumentation, PLC and SCADA	Mrs. Bhagirathi V	9742779762	bhagirathi@acharya.ac.in	M G I r S P B D F (I M M G S A
6	Innovation Cell	VLSI Technology	Dr. Jayalaxmi H	7795185674	jayalaxmi@acharya.ac.in	M G I r S P B D F (I M M G S A
7	Tinkering Lab	Exploring IOT Technology	Mr. Ranjan G	9980755444	ranjan_2298@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
8	Tinkering Lab	Plant Tissue Culture lab	Dr. Triveni V	9945120618	thriveniv@acharya.ac.in	M G I r S P B D F (I M M G S A
9	Innovation Cell	Energy Conversion and Energy storage	Dr. Harish M N K	9449951092	harish@acharya.ac.in	M G I r S P B D F (I M M G S A
10	Innovation Cell	Bio Sensor and Devices	Dr. C Muthukumar	9901940345	muthu@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
11	Innovation Cell	3D Modeling and 3D Printing	Mr. Akshay Simha	8147937332	akshaya@acharya.ac.in	M G I r S P B D F (I M M G S A
12	Innovation Cell	Wear Testing - Pin-On-Disc	Dr. Shadakshari	9481242128	shadaksharir@acharya.ac.in	M G I r S P B D F (I M M G S A
13	Innovation Cell	Dynamic Mechanical Analyzer	Mr. Pranesh KG	8970728003	pranesh@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
14	IEDC	AIT_IEDC CELL	Dr. Pakkirappa	9448615407	pakkirappah@acharya.ac.in	M G I r S P B D F (I M M G S A
15	Start-Up Cell	Construction material Quality Assurance Cell	Ms. Vindhya R G	9844331378	vindhya@acharya.ac.in	M G I r S P B D F (I M M G S A
16	Innovation Cell	CADD-Modelling and Design Center	Dr. B. Manjunatha	9481122113	manjunathab@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
17	Innovation Cell	Business Analytics	Dr. Juin Choudhury	974750014	juinchoudhury@acharya.ac.in	M G I r S P B D F (I M M G S A
18	Tinkering Lab	Mobile Application Development Center	Mr. Lokanna Kadakolmath	8150889004	lokanna@acharya.ac.in	M G I r S P B D F (I M M G S A
19	Tinkering Lab	Flight Simulation Lab	Dr. S. K. Maharana	9900094967	hod-ae@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
20	Innovation Cell	Automotive Engine Components lab	Mr.PRAJWAL SANDAYAL	9900300822	prajwalsandayal@acharya.ac.in	M G I r S P B D F (I M M G S A
21	Innovation Cell	Automotive Chassis components lab	Dr.YUVARAJ L	8015113199	yuvarajl@acharya.ac.in	M G I r S P B D F (I M M G S A
22	Tinkering Lab	CADD-Modelling and Design Center	Mr. Ambreshwar	7829366122	ambreshwara@acharya.ac.in	M G I r S P B D F (I M M G S A

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	G
23	Tinkering Lab	Automobile scanning and reconditioning Lab	Chandru M K	9655721006	chnadrumk@acharya.ac.in	M I S P B D

### 3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	Acharya Institute of Technology Business Incubator	Dr.PAKKIRAPPA H	9448615407	pakkirappa@acharya.ac.in	MSME
2	ACHARYA INSTITUTES-TECHNOLOGY BUSINESS INCUBATOR TRUST	Mr.Iqbal Ahmed	984578472	iqbalahmed@acharya.ac.in	Own Resource

### 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	IPR CELL	Dr.C Muthukumar	9901940345	muthu@acharya.ac.in	Mentoring Support, Grant Support, Pre-Incubation Facility Support (Idea to Prototype and Innov Business Plan Development), Incub Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage), Investment - Angel a

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
2	Technology Transfer Centre /TTO	TTO Center	Dr.Pakirappa H	9448615407	pakirappa@acharya.ac.in	Mentoring Support, Grant Support, Pre-Incubation Facility Support (Idea to Prototype and Innov Business Plan Development), Incub Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage), Investment - Angel a

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

**4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute ( Status as on 7th November 2022 )**

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagem of Team Lead in Institute
1	Design and Implementation of New User Interface to clone Human Behavior To Teach Robot	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Chandrashekhar.L	Faculty



Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagem <sup>e</sup> of Team Lead in Institute
2	PCB Printing Machine With IOT Based Controlling And Monitoring System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	GOPALAREDDY	Faculty
3	"EYE-PEX - smart glass using raspberry pi"	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bhagirathi S Telkar	Faculty
4	Development of a purely IMU based two body relative positional tracking system	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. Shivakumara Swamy R	Faculty
5	DESIGN AND FABRICATION OF SPARYING MACHINE FOR ARECA PLANT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SIBINRAJ R	Faculty
6	Fabrication of multipurpose Agriculture Equipment	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Sharadkumar	Faculty

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute
7	diagnostic system for diabetic ketoacidosis	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	V.Lokesh	Student

## 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 7th November 2022 )**

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Venture Recognized by DPIIT/Startup India
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No Data Found

## 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	Karnataka German Technical Training Institute	Govt. Agency (Central)	2yrs	Active	23-03-2022	<a href="#">View (/Upl</a>
2	Cadmaxx Solutions Pvt. Ltd.	Non Govt. Agency	1 yr	Active	26-02-2020	<a href="#">View (/Upl</a>
3	UiPath	International Agency	1 yr	Active	13-05-2020	<a href="#">View (/Upl</a>
4	BOSCH	Corporate/Industry Association	1 yr	Active	21-10-2021	<a href="#">View (/Upl</a>
5	AI Edge innovations Pvt Ltd	Non Govt. Agency	5 yr	Active	02-09-2021	<a href="#">View (/Upl</a>
6	MSME	Govt. Agency (Central)	1yrs	Active	01-01-2021	<a href="#">View (/Upl</a>
7	NASSCOM/IT-ITeS SECTOR SKILLS COUNCIL NASSCOM	Govt. Agency (Central)	3yrs	Active	25-07-2022	<a href="#">View (/Upl</a>
8	Cadmaxx Solutions Pvt. Ltd.	Non Govt. Agency	2yrs	Active	08-10-2021	<a href="#">View (/Upl</a>
9	Infidata Technologies, Bangalore.	Knowledge/Mentoring Agency	1 yr	Active	02-08-2021	<a href="#">View (/Upl</a>
10	Elements Manufacturing Solutions Private Limited	Corporate/Industry Association	3yrs	Active	18-09-2021	<a href="#">View (/Upl</a>

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
11	MSME	Govt. Agency (Central)	1yrs	Active	01-01-2020	<a href="#">View (/Upl</a>
12	BOSCH	Corporate/Industry Association	1 yr	Active	07-07-2022	<a href="#">View (/Upl</a>
13	Tequed Labs Pvt. Ltd.	Knowledge/Mentoring Agency	3 yr	Active	10-02-2020	<a href="#">View (/Upl</a>
14	Universitas Budi Luhur	Educational Institute	3 yr	Active	06-10-2021	<a href="#">View (/Upl</a>
15	Karnataka German Technical Training Institute	Govt. Agency (State)	3yrs	Active	24-06-2022	<a href="#">View (/Upl</a>
16	Fluxlinx India Private Limited	Corporate/Industry Association	2 yr	Active	26-11-2021	<a href="#">View (/Upl</a>

## Section 7: Intellectually Property (IP) Generated and Commercialization

### 7.1) IPR Filed and Published (Copyrights & Design only)

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	An IOT based Medical Cloud Data Classification System for Smart Health Care	Design	2021104321	26-07-2021	No

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?
2	A Novel Method For Automated Plant Disease Detection And Diagnostic System Using Parallel ANN	Design	202041010556	03-12-2020	No
3	BROADBAND SOUND ABSORBER - A NOISE CONTROL DEVICE USING INTEGRATED PASSIVE ELEMENTS	Design	202041035046	28-08-2020	No
4	AN ARTIFICIAL INTELLIGENCE BASED SYSTEM TO IDENTIFY THE MEDICAL CONDITION PRIOR TO DOCTOR CONSULTATION	Design	2020103509	18-11-2020	No
5	SECURED SYSTEM TO IDENTIFY ILLEGAL DISPOSAL OF WASTE USING IOT AND METHODS THEREOF	Design	202041051558	26-11-2020	No
6	INTENSIFICATION OF MECHANICAL PROPERTIES OF CEMENT COMPOSITES USING CARBON MATERIALS	Design	202141006514	16-02-2021	No
7	LOW-COST DEVICE FOR MEASURING TRANSPORT PROPERTIES OF POROUS MATERIAL	Design	202041054231	18-12-2020	No

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?
8	A PROCESS FOR PREPARING ENZYME-FREE ELECTROCHEMICAL GLUCOSE SENSOR	Design	2021104445	27-07-2021	No
9	OPTIMIZATION OF HUMAN MANPOWER USING ROBOTICS-BASED IOT SYSTEM IN THE FIELD OF AGRICULTURE	Design	202121029673	07-07-2021	No
10	A NOVEL ENCAPSULATION FEEDING TECHNIQUE TO PRODUCE QUALITY COMPOSITES	Design	202141030279	07-06-2021	No
11	DYE DESIGN FOR POWDER METALLURGY PROCESS	Design	353858-001	29-11-2021	No
12	DIRECT DRIVE OCEAN WAVE POWERED FRESH WATER PRODUCTION USING REVERSE OSMOSIS TECHNOLOGY	Design	202141053543	03-12-2021	No
13	UAV OBSTACLE AVOIDANCE USING VISION BASED DEEP REINFORCEMENT LEARNING ALGORITHM	Design	202111057510	10-12-2021	No
14	AN IOT BASED MILK VENDING MACHINE	Design	355397-001	23-12-2021	No

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?
15	IOT BASED ARTIFICIAL INTELLIGENCE ROBOT SYSTEM USING OBJECT AND VOICE RECOGNITION	Copy Right	L-115675/2022	04-01-2022	No
16	FERROUS AND NON FERROUS WASTE SORTING MACHINE	Design	364326-001	07-05-2022	No
17	An artificial intelligence and deep learning method for detecting impressions using internet of things	Design	202141042625	21-09-2021	No
18	POWER QUALITY IMPROVEMENT OF DISTRIBUTION NETWORK RECONFIGURATION USING DYNAMIC RULE SOFT SWITCHING OPTIMIZATION METHOD	Design	202241011242	02-03-2022	No
19	WSN-IOT CLUSTERING FOR SECURE DATA TRANSMISSION IN E-HEALTH SECTOR USING GREEN COMPUTING	Design	202141047948	21-10-2021	No

## 7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	An IOT based Medical Cloud Data Classification System for Smart Health Care	2021104321	27-07-2021
2	Two Wheeler Containment and Charging Apparatus	202241055670	02-09-2022

## 7.3) Patent Published / Granted Data

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
1	2020103509	AN ARTIFICIAL INTELLIGENCE BASED SYSTEM TO IDENTIFY THE MEDICAL CONDITION PRIOR TO DOCTOR CONSULTATION	18-11-2020	Granted	2022	Other(Individual)
2	2021104321	An IOT based Medical Cloud Data Classification System for Smart Health Care	20-07-2021	Granted	2022	Other(Individual)
3	202041051558	SECURED SYSTEM TO IDENTIFY ILLEGAL DISPOSAL OF WASTE USING IOT AND METHODS THEREOF	20-11-2020	Published	2020	Other(Individual)
4	202141006514	INTENSIFICATION OF MECHANICAL PROPERTIES OF CEMENT COMPOSITES USING CARBON MATERIALS	16-02-2021	Published	2021	Other(Individual)



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	
5	202041054231	LOW COST DEVICE FOR MEASURING TRANSPORT PROPERTIES OF POROUS MATERIALS	14-12-2020	Published	2020	Other(Individual)	
6	202121029673	OPTIMIZATION OF HUMAN MANPOWER USING ROBOTICS-BASED IOT SYSTEM IN THE FIELD OF AGRICULTURE	06-08-2021	Published	2021	Other(Individual)	
7	353858-001	DYE DESIGN FOR POWDER METALLURGY PROCESS	29-11-2021	Published	2021	Other(Individual)	
8	202141053543	DIRECT DRIVE OCEAN WAVE POWERED FRESH WATER PRODUCTION USING REVERSE OSMOSIS TECHNOLOGY	03-12-2021	Published	2021	Other(Individual)	
9	202111057510	UAV OBSTACLE AVOIDANCE USING VISION BASED DEEP REINFORCEMENT	10-10-2021	Published	2021	Other(Individual)	
10	355397-001	AN IOT BASED MILK VENDING MACHINE	23-12-2021	Published	2021	Other(Individual)	
11	202141042625 A	An artificial intelligence and deep learning method for detecting impressions using internet of things	21-09-2021	Published	2021	Co-Applicant	

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	
12	202141047948 A	: WSN-IOT CLUSTERING FOR SECURE DATA TRANSMISSION IN E-HEALTH SECTOR USING GREEN COMPUTING	21-10-2021	Published	2021	Co-Applicant	
13	2021104445	A PROCESS FOR PREPARING ENZYME-FREE ELECTROCHEMICAL GLUCOSE SENSOR	22-07-2021	Granted	2021	Other(Individual)	
14	202141030279	A NOVEL ENCAPSULATION FEEDING TECHNIQUE TO PRODUCE QUALITY COMPOSITES	06-07-2021	Published	2021	Co-Applicant	
15	202041010556	A NOVEL METHOD FOR AUTOMATED PLANT DISEASE DETECTION AND DIAGNOSTIC SYSTEM USING PARALLEL ANN	12-03-2020	Published	2021	Other(Individual)	

#### 7.4) IP Commercialized and Transferred to Industry/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	D T T
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No Data Found



## Declaration

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

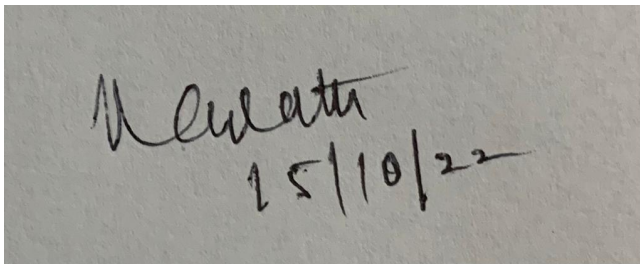
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr Rajath Hegde M M** (Head of Institute) and **Dr. ASHA C. N.** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

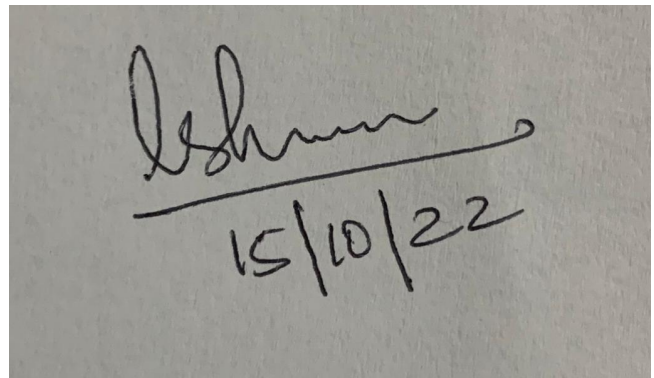
Thank you

The Head of Institute



Dr Rajath Hegde M M,  
Head of the Institution,  
Acharya Institute of Technology,  
Bengaluru, Karnataka

Nodal officer



Dr. ASHA C. N.,  
Nodal Officer,  
Acharya Institute of Technology,  
Bengaluru, Karnataka