

## 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. T. Madhusudhan
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Mobile No.	9916101233

### 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)	1,2,3,4
IIC 2.0 (2019-20)	4.5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	4

#### Contact:

IIC President of the Institute:	Dr . T Madhusudhan
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Designation:	Head of the Department
Email ID:	t.madhusudan2015@gmail.com
Mobile No.	9916101233

### 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. MAMATHA MAHESH GOWDA	Advance	0
2	Mr. Chetan R	Advance	0
3	ANIL KUMAR.G	Advance	0
4	Bharath T.S	Advance	0
5	Mr. Naveena Kumar R. R.	Advance	1
6	Mrs. Chaithra B.K.	Basic	0
7	Mrs. Chaitra H K	Basic	0
8	Dr. Varun V L	Basic	0
9	RAHUL R RAI	Basic	0
10	Puneeth H.C	Basic	0
11	Mr. SACHIN B V	Basic	0
12	Mrs.Roopa D R	Advance	0
13	MR.Paramesh M.S.	Basic	0
14	Kiran Kumar V	Basic	0
15	Dr. Chandrashekar M J	Basic	0
16	Mr. Naveena Kumar R. R.	Advance	1
17	H NARENDRA KUMAR	Basic	0

#### 1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-1271	Yes
HEI Participated in the Smart India Hackathon (2022)	C-1271	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	Entrepreneurship And Legal Aspects	20MBA26	2020-21	Core Course	Master	MBA	4	10-05-2021 00:00:00
2	Entrepreneurship And Legal Aspects	20MBA26	2021-22	Core Course	Master	MBA	4	27-06-2022 00:00:00
3	Management and Entrepreneurship	18CS51	2020-21	Core Course	Bachelor	Information Science Engineering	4	01-09-2020 00:00:00
4	Management and Entrepreneurship	18CS51	2021-22	Core Course	Bachelor	Information Science Engineering	4	01-10-2021 00:00:00
5	Construction Management and Entrepreneurship	18CV51	2020-21	Core Course	Bachelor	CIVIL ENGINEERING	4	01-09-2020 00:00:00
6	Construction Management and Entrepreneurship	18CV51	2021-22	Core Course	Bachelor	CIVIL ENGINEERING	4	01-10-2021 00:00:00
7	Management and Entrepreneurship for IT Industry	18CS51	2020-21	Core Course	Bachelor	CSE	4	01-09-2020 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
8	Management and Entrepreneurship for IT Industry	18CS51	2021-22	Core Course	Bachelor	CSE	4	01-10-2021 00:00:00
9	Technological Innovation Management and Entrepreneurship	18ES51	2020-21	Core Course	Bachelor	Electronics and Communication Engineering	3	01-09-2020 00:00:00
10	Technological Innovation Management and Entrepreneurship	18ES51	2021-22	Core Course	Bachelor	Electronics and Communication Engineering	3	01-10-2021 00:00:00
11	Entrepreneurship And Development	18ME46	2020-21	Elective Course	Bachelor	Mechanical Engineering	3	19-04-2021 00:00:00
12	Management and Entrepreneurship	18EE51	2020-21	Core Course	Bachelor	Electrical and Electronics Engineering	3	01-09-2020 00:00:00
13	Management and Entrepreneurship	18EE51		Core Course	Bachelor	Electrical and Electronics Engineering	3	01-10-2021 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	Program Start Date	Program End Date
1	3Ds Max	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Civil Engineering	23-05-2022 00:00:00	28-05-2022 00:00:00

<b>Srno</b>	<b>Title of Course</b>	<b>Academic Year</b>	<b>Type of Certificate Program</b>	<b>Certificate Program/MDP/FDP/EDP Sponsored/Supported by</b>	<b>Certificate Program Offering Department/ Centre/ Unit Name</b>	<b>Program Start Date</b>	<b>Program End Date</b>
2	Project Management Ready	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Civil Engineering	18-04-2022 00:00:00	23-04-2022 00:00:00
3	Autocad for Civil	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Civil Engineering	26-04-2021 00:00:00	03-05-2021 00:00:00
4	AutoCAD for Mechanical	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Mechanical Engineering	21-12-2021 00:00:00	23-12-2021 00:00:00
5	Java Python Android and Cyber Security	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	26-04-2021 00:00:00	03-05-2021 00:00:00
6	Java Python Android and Cyber Security	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Mechanical Engineering	26-04-2021 00:00:00	03-05-2021 00:00:00
7	c Java Python Programming	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Information Science	26-04-2020 00:00:00	03-05-2020 00:00:00
8	Cyber Security	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electrical and Electronics Engineering	18-04-2022 00:00:00	23-04-2022 00:00:00
9	AudoCAD Electrical	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electrical and Electronics Engineering	03-01-2022 00:00:00	08-01-2022 00:00:00
10	Cyber Security	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	18-04-2022 00:00:00	23-04-2022 00:00:00
11	AWS Cloud	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Information Science Engineering	18-04-2022 00:00:00	23-04-2022 00:00:00
12	Microsoft Azure	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Information Science	03-01-2022 00:00:00	08-01-2022 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	Program Start Date	Pr El D.
13	AWS Cloud	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Computer Science Engineering	25-04-2022 00:00:00	30 20 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. Schemes
1	EDC	Entrepreneurship Development Cell	Dr. Gangadhar T G	9535550222	gangadhartg@sjbit.edu.in	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

### 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	NI LABVIEW ACADEMY	Dr. Ravi Kumar A V	9538920010	avravikumar@sjbit.edu.in	Own Resource

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
2	Industrial Automation Centre of Excellence	Gowtham k	9844369153	gowthamk@sjbit.edu.in	Own Resource
3	SJB Incubation Centre	Dr. G Banuprakash	9742988988	gbanuprakash@sjbit.edu.in	Own Resource
4	Advanced Structural Engineering lab	Dr. Sridhar R	9844064286	sridharr@sjbot.edu.in	Own Resource
5	Ethnotech Center of Excellence	Dr. Kiran Rajanna	8067935886	director@ethnotech.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 SJBIT	Dr. G Banuprakash	9742988988	gbanuprakash@sjbit.edu.in	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

## 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	Multipurpose High Voltage Laboratory Assistance Robot	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SANDEEP S R	Faculty
2	SMART VOTING SYTEM USING FINGERPRINT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. M J Chandrashekar	Faculty
3	Smart Voting System Using Fingerprint	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. M J Chandrashekar	Faculty
4	Inductive Coupled Wireless Charging Stations for Electric Vehicles	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Tarakeshwari V	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>nt</sup> of Team Lead in Institute
5	IOT BASED AIR POLLUTION MONITORING SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Vimala C S	Faculty
6	"Face Retection in a multimodel background for a real-time images using open CV"	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Naveena C	Faculty
7	Indian Sign Language recognition and translation	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Naveena C	Faculty
8	Indian Sign Language recognition and translation	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Naveena C	Faculty
9	"Crop Recommendation system using machine learning alogorihms"	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Naveena C	Faculty

<b>Sr. No.</b>	<b>Innovation Name</b>	<b>Developed as part of</b>	<b>FY of Development (FY. 2020-21,2021-22)</b>	<b>TRL Stage</b>	<b>Team Lead/Innovator Name</b>	<b>Current Engagem<sup>t</sup> of Team Lead in Institute</b>
10	"A tool for secure communication using encrypted data embedded in image"	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Naveena C	Faculty
11	VOTING APPLICATION USING BLOCKCHAIN TECHNOLOGY	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	RANJITH J	Faculty
12	IoT BASED ADVANCED VEHICLE ACCIDENT DETECTION, ALERT AND PREVENTION SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rekha P S	Faculty
13	INTELLIGENT SAFE AND SECURE PACKAGING SYSTEM USING IOT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	RANJITH J	Faculty
14	Power Generation on Highways using Vertical Axis Wind Turbine and Solar Energy	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. J P Sridhar	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
15	Development of DESI GOU product for rural development	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	UDAY M	Faculty

## 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	Eduskills	Educational Institute	3	Active	08-10-2021	<a href="#">View (/Uploads/Insti</a>
2	Water Institute University Visveswaraya College of Engineering Bengaluru	Educational Institute	5	Active	29-10-2021	<a href="#">View (/Uploads/Insti</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 UNMANNED AUTOMATIC LAWNMOWER ASSEMBLY	Copy Right	L-109564/2021	21-12-2021	No

### 7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	N-(4-FLUOROPHENYL)-5-PHENYL-[1,2,4] TRIAZOLO [1,5-A] PYRIDINE-2-CARBOXAMIDE DERIVATIVES AND THEIR SYNTHESIS THEREOF	: 20204100666	16-02-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
2	INTELLIGENT CLUSTERING DIGITAL DEVICES IN AN INTERNET OF THINGS (IOT)	202041028300	30-07-2020
3	IRBC-SYSTEM: INTELLIGENT RULE-BASED CLASSIFICATION SYSTEMS TO CLASSIFY DISCRETE SETS.	202041027658	30-06-2020
4	ROAD MONITORING DEVICE	202141006356	16-02-2021
5	Flower Briquette-A source of Bio-energy	202141040162	09-04-2021
6	Design of Novel Multi-Purpose Study Table for Educational Institution	202141040166	09-04-2021
7	Implementation of green IoT for efficient resource utilization and the creation of sustainable materials	202141046122	10-10-2021
8	Investigative Studies Of Wilcox Diagram In Irrigation Water Samples	202141056808	24-12-2021
9	IOT BASED VEHICLE THEFT PROTECTION AND ENGINE CONTROL SYSTEM	202041039472	02-10-2020
10	IMPLEMENTATION OF INTELLIGENT CHATBOT USING DEEP LEARNING TECHNIQUES	202141048457	05-11-2021

### 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	202041006661	N-(4-FLUOROPHENYL)-5-PHENYL- [1,2,4] TRIAZOLO [1,5-A] PYRIDINE-2-CARBOXAMIDE DERIVATIVES AND THEIR SYNTHESIS THEREOF	16-02-2020	Granted	2022	Other(Individual)
2	201641041813	A REAL-TIME TIRE PRESSURE MONITORING SYSTEM FOR A VEHICLE	07-12-2016	Granted	2022	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
3	202141056808	INVESTIGATIVE STUDIES OF WILCOX DIAGRAM IN IRRIGATION WATER SAMPLES	07-12-2021	Published	2021	
4	202141052902	Big Data and Cloud Bursting Real- Time Intelligent scheduling using Machine Learning.	17-11-2021	Published	2021	
5	202141049461	Information technology's role in the Indian banking sector's digital transition.	28-10-2021	Published	2021	
6	202141049065	A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR	27-10-2021	Published	2021	
7	202141048457	IMPLEMENTATION OF INTELLIGENT CHATBOT USING DEEP LEARNING TECHNIQUES.	25-10-2021	Published	2021	
8	202141048085	CATEGORICAL RADIAL BASIS FUNCTION BASED NEURAL NETWORK ARCHITECTURES TO HANDLE CATEGORICAL AND MIXED DATA AS INPUTS	22-10-2021	Published	2021	
9	202141046348	Design of a machine learning-based intelligent drowsiness detection system to avoid accidents.	11-10-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
10	202141043271	The contribution of electronic commerce to the reduction of operational costs of an organization	23-09-2021	Published	2021	
11	202141042397	PASSIVE LOCATION TRACKING SYSTEM FOR CROWD MANAGEMENT	20-09-2021	Published	2021	
12	202141041759	AN EXPERIMENTAL STUDY CARRIED OUT IN ORTHOGONAL SECTION ON THE TITANIUM ALLOY TI-6AL-4V USING THE KINEMATI	15-09-2021	Published	2021	
13	202141041223	ARTIFICIAL INTELLIGENCE BASED SMART POWERING TECHNIQUE USING SOLAR TRACKING SYSTEM	14-09-2021	Published	2021	
14	202141040166	DESIGN OF NOVEL MULTIPURPOSE STUDY TABLE FOR EDUCATIONAL INSTITUTIONS	04-09-2021	Published	2021	
15	202141040162	FLOWER BRIQUETTES –A SOURCE OF BIOENERGY	04-09-2021	Published	2021	
16	202141038532	A CLUTCH LEVER RESTRICTION ASSEMBLY	25-08-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
17	202141037949	Image Processing based paddy leaf disease detection using Adaboost classifier.	21-08-2021	Published	2021	
18	202141037721	Real time visual object detection for intelligent video surveillance using IoT	19-08-2021	Published	2021	
19	202141036938	PERSON RE-IDENTIFICATION USING MACHINE LEARNING APPROACHES IN VIDEO SURVEILLANCE	15-08-2021	Published	2021	
20	202141035802	APPARATUS AND A METHOD FOR BEAMFORMING USING PHASED ARRAY ANTENNA	09-08-2021	Published	2021	
21	202141033400	AN AUXILARY RAILWAY PLATFORM BRIDGE AND AN IOT BASED METHOD TO OPERATE THE SAME	26-07-2021	Published	2021	
22	202141030571	MACHINE LEARNING AND IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS	07-07-2021	Published	2021	
23	202141029268	AN ENERGY-EFFICIENT THERMODYNAMICS CYCLE TO LIQUIFY BIOMETHANE ON A MICRO SCALE	29-06-2021	Published	2021	



<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
24	202111027550	MACHINE LEARNING BASED SMART GRID POWER SYSTEM INTEGRATED WITH WIRELESS COMMUNICATION NETWORKS	19-06-2021	Published	2021	
25	202141027419	INTELLIGENT TEMPORAL EXTRACTION AND ANALYSIS MODEL BASED WEB PERSONALIZED RECOMMENDATION	18-06-2021	Published	2021	
26	202141023568	Kannada Text Detection and Recognition from Natural Scene Images using AksharaNet CNN Model	27-05-2021	Published	2021	
27	202141023368	A compact IOT based Indoor air monitoring system	25-05-2021	Published	2021	
28	202141022963	A Novel Data Security System using Hybrid Cloud Computing	23-05-2021	Published	2021	
29	202111021983	SYSTEM FOR INTEGRATED MONITORING AND MANAGEMENT OF AGRICULTURE AND RELATED PARAMETERS USING INTERNET OF THINGS	16-05-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
30	202141019068	DESIGN OF N-BY-1 RECTANGULAR PATCH ANTENNA FOR 2.45 GHZ AND 5 GHZ GEOMETRY	26-04-2021	Published	2021	
31	202141018627	DESIGN AND DEVELOPMENT OF SOLAR POWER BASED ELECTRIC VEHICLE CHARGING BOOTHS	22-04-2021	Published	2021	
32	202141010921	METHOD FOR DIAGNOSE AND MANAGEMENT OF FAULTS IN SMART CITY CLEANLINESS ADMINISTRATION USING SELF-ADAPTIVE MACHINE LEARNING	15-03-2021	Published	2021	
33	202111009493	TITLE OF INVENTION: ROTATING BIRD FEEDER	07-03-2021	Published	2021	
34	202141006356	ROAD MONITORING DEVICE	16-02-2021	Published	2021	
35	287277	Foldable Helmet	27-09-2016	Granted	2019	
36	201741030809	A Machine for Making Finger Millet Flour Balls	30-09-2017	Published	2019	
37	201941037377	Automatic Product Identification For The Shopping Cart By Using Smart Wireless Technology	17-09-2019	Published	2019	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
38	202041048855 A	Recommendation Models For Big Data Analysis Using Multi-Criteria Andhybrid Collaborative Filter	09-11-2020	Published	2020	
39	202041046240 A	Gaze Controlled Electric Iron Box	23-10-2020	Published	2020	
40	202021038153	Automatic Fruit Sorting Using Image processing	09-04-2020	Published	2020	
41	202041028300	IPR Patent 2 - "ICD-Devices: Intelligent Clustering Digital Devices in an Internet of Things (IoT)".	07-03-2020	Published	2020	
42	202041027658	Intelligent Rule-Based Classification Systems To Classify Discrete Sets	30-06-2020	Published	2020	
43	202041006661 A	: N-(4-Fluorophenyl)-5-Phenyl-[1,2,4] Triazolo [1,5-A] Pyridine-2-Carboxamide Derivatives And Their Synthesis Thereof	16-02-2020	Published	2020	
44	202141056808	INVESTIGATIVE STUDIES OF WILCOX DIAGRAM IN IRRIGATION WATER SAMPLES	12-07-2021	Published	2021	
45	202141052902	Big Data and Cloud Bursting Real- Time Intelligent scheduling using Machine Learning.	17-11-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
46	202141049532	AI- BASED ADVANCED TECHNIQUE TO TREAT DOMESTIC SEWAGE IN WATER BODIES AND REAL TIME MONITOR USING SENSOR INTEGRATED USV (UNMANNED SURFACE VEHICLE)	29-10-2021	Published	2021	
47	202141049461	Information technology's role in the Indian banking sector's digital transition.	28-10-2021	Published	2021	
48	202141049065	A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR	27-10-2021	Published	2021	
49	202141048457	IMPLEMENTATION OF INTELLIGENT CHATBOT USING DEEP LEARNING TECHNIQUES.	25-10-2021	Published	2021	
50	202141048085	CATEGORICAL RADIAL BASIS FUNCTION BASED NEURAL NETWORK ARCHITECTURES TO HANDLE CATEGORICAL AND MIXED DATA AS INPUTS	22-10-2021	Published	2021	
51	202141046348	Design of a machine learning-based intelligent drowsiness detection system to avoid accidents.	10-11-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
52	202141043271	The contribution of electronic commerce to the reduction of operational costs of an organization	23-09-2021	Published	2021	
53	202141042397	PASSIVE LOCATION TRACKING SYSTEM FOR CROWD MANAGEMENT	20-09-2021	Published	2021	
54	202141041759	AN EXPERIMENTAL STUDY CARRIED OUT IN ORTHOGONAL SECTION ON THE TITANIUM ALLOY TI-6AL-4V USING THE KINEMATI	15-09-2021	Published	2021	
55	202141041223	ARTIFICIAL INTELLIGENCE BASED SMART POWERING TECHNIQUE USING SOLAR TRACKING SYSTEM	14-09-2021	Published	2021	
56	202141040166	DESIGN OF NOVEL MULTIPURPOSE STUDY TABLE FOR EDUCATIONAL INSTITUTIONS	09-04-2021	Published	2021	
57	202141040162	FLOWER BRIQUETTES –A SOURCE OF BIOENERGY	09-04-2021	Published	2021	
58	202141038532	A CLUTCH LEVER RESTRICTION ASSEMBLY	25-08-2021	Published	2021	

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59	202141037949	Image Processing based paddy leaf disease detection using Adaboost classifier.	21-08-2021	Published	2021	
60	202141037721	Real time visual object detection for intelligent video surveillance using IoT	19-08-2021	Published	2021	
61	202141036938	PERSON RE-IDENTIFICATION USING MACHINE LEARNING APPROACHES IN VIDEO SURVEILLANCE	15-08-2021	Published	2021	
62	202141035802	APPARATUS AND A METHOD FOR BEAMFORMING USING PHASED ARRAY ANTENNA	08-09-2021	Published	2021	
63	202141033400	AN AUXILIARY RAILWAY PLATFORM BRIDGE AND AN IOT BASED METHOD TO OPERATE THE SAME	26-07-2021	Published	2021	
64	202141030571	MACHINE LEARNING AND IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS	07-07-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
65	202141029724	ARTIFICIAL INTELLIGENCE IOT BASED RESPIRATION RATE, OXYGEN VOLUME AND SLEEP MONITORING WEARABLE DEVICE FOR COVID PATIENTS USING SENSORS	07-02-2021	Published	2021	
66	202141029268	AN ENERGY-EFFICIENT THERMODYNAMICS CYCLE TO LIQUIFY BIOMETHANE ON A MICRO SCALE	29-06-2021	Published	2021	
67	202111027550	MACHINE LEARNING BASED SMART GRID POWER SYSTEM INTEGRATED WITH WIRELESS COMMUNICATION NETWORKS	19-06-2021	Published	2021	
68	202141027419	INTELLIGENT TEMPORAL EXTRACTION AND ANALYSIS MODEL BASED WEB PERSONALIZED RECOMMENDATION	18-06-2021	Published	2021	
69	202141027064	STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES	17-06-2021	Published	2021	

<b>Sr. No.</b>	<b>Patent Registration Application No</b>	<b>Patent Title</b>	<b>Patent Application Date</b>	<b>Status of Patent Applications</b>	<b>Patent Published / Granted Calendar Year</b>	<b>Institute applied the Patent as</b>
70	202141023568	Kannada Text Detection and Recognition from Natural Scene Images using AksharaNet CNN Model	27-05-2021	Published	2021	
71	202141023368	A compact IOT based Indoor air monitoring system	25-05-2021	Published	2021	
72	202141022963	A Novel Data Security System using Hybrid Cloud Computing	23-05-2021	Published	2021	
73	202141022163	A POWER QUALITY AND DEMAND SIDE MANAGEMENT SYSTEM FOR A SMART GRID USING MACHINE LEARNING FOR PROVIDING EFFICIENT RESOURCE UTILIZATION AND THE METHOD THEREOF	17-05-2021	Published	2021	
74	202111021983	SYSTEM FOR INTEGRATED MONITORING AND MANAGEMENT OF AGRICULTURE AND RELATED PARAMETERS USING INTERNET OF THINGS	16-05-2021	Published	2021	
75	202141019068	DESIGN OF N-BY-1 RECTANGULAR PATCH ANTENNA FOR 2.45 GHZ AND 5 GHZ GEOMETRY	26-04-2021	Published	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
76	202141018627	DESIGN AND DEVELOPMENT OF SOLAR POWER BASED ELECTRIC VEHICLE CHARGING BOOTHS	22-04-2021	Published	2021	
77	202141010921	METHOD FOR DIAGNOSE AND MANAGEMENT OF FAULTS IN SMART CITY CLEANLINESS ADMINISTRATION USING SELF-ADAPTIVE MACHINE LEARNING	15-03-2021	Published	2021	
78	202111009493	TITLE OF INVENTION: ROTATING BIRD FEEDER	03-07-2021	Published	2021	
79	202141006356	ROAD MONITORING DEVICE	16-02-2021	Published	2021	
80	202041042387	SYNTHESIS AND CHARACTERIZATION OF (S)-3-(5-FLUOROPYRIDIN-2-YL)-5-(PIPERIDIN-3-YL)-1,2,4-OXADIAZOLE DERIVATIVES AND THEIR SECRETORY PHOSPHOLIPASE A2 (SPLA2) INHIBITOR ACTIVITY	29-09-2020	Published	2021	
81	202041048855 A	Recommendation Models For Big Data Analysis Using Multi-Criteria Andhybrid Collaborative Filter	11-09-2020	Published	2020	
82	202041046240 A	Gaze Controlled Electric Iron Box	23-10-2020	Published	2020	

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
83	201941039384 A	Eco-Friendly Synthesis Of Pyrrolo [1,2-A] Quinoline-3-Carboxylate Derivatives & Their Study Of Antibacterial And Antioxidant Properties	29-09-2019	Published	2020	
84	202021038153	Automatic Fruit Sorting Using Image processing	04-09-2020	Published	2020	
85	202041028300	IPR Patent 2 - "ICD-Devices: Intelligent Clustering Digital Devices in an Internet of Things (IoT)".	03-07-2020	Published	2020	
86	202041027658	Intelligent Rule-Based Classification Systems To Classify Discrete Sets	30-06-2020	Published	2020	
87	202041006661 A	: N-(4-Fluorophenyl)-5-Phenyl-[1,2,4] Triazolo [1,5-A] Pyridine-2-Carboxamide Derivatives And Their Synthesis Thereof	16-02-2020	Published	2020	

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	Details
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No Data Found



# Declaration

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

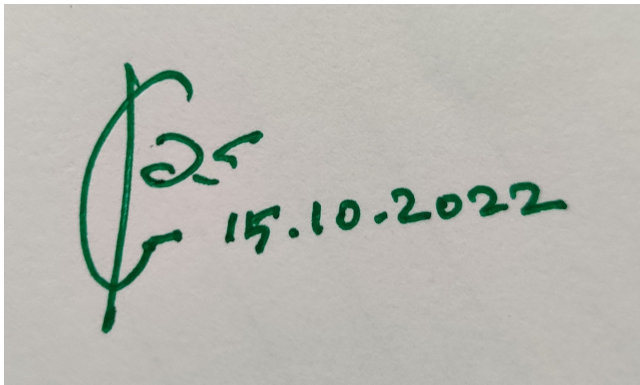
## Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. Mahendra Prashanth K V** (Head of Institute) and **Mr. H Narendra Kumar** (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

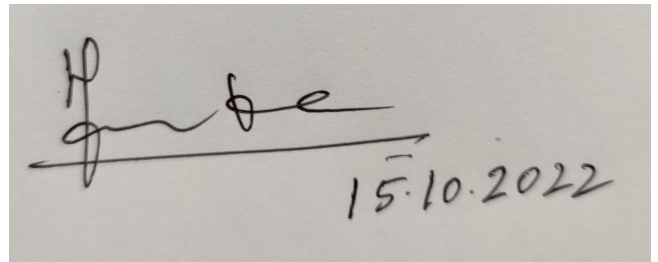
The Head of Institute



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Dr. Mahendra Prashanth K V ,  
Head of the Institution,  
SJB INSTITUTE OF TECHNOLOGY,  
Bengaluru, Karnataka

Nodal officer



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Mr. H Narendra Kumar,  
Nodal Officer,  
SJB INSTITUTE OF TECHNOLOGY,  
Bengaluru, Karnataka