

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. K. Velmurugan
Designation:	Professor
Email ID:	velmuruganmech@smvec.ac.in
Mobile No.	9585516718

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)	3.5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	2

Contact:

IIC President of the Institute:	Dr. K.VELMURUGAN
Designation:	Professor

Email ID:	velmuruganmech@smvec.ac.in
Mobile No.	9585516718

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.S.Sundararaman	Advance	1
2	Mr.A.Mathiazhagan	Advance	0
3	Dr.V.Bharathi	Advance	2
4	Dr.G.G. Sozhamannan	Advance	0
5	Dr.G.G. Sozhamannan	Advance	0
6	Dr. S. Ganeshkumaran	Basic	0
7	Dr.L.Martin	Basic	0
8	Dr. K.Hemalatha	Basic	0
9	Dr.P.Raja	Basic	0
10	Dr. P. Iyappan	Basic	0
11	Dr.R.Kurinjimalar	Basic	0
12	Dr.V.Vijayakumar	Basic	0
13	Dr. G.Shanmugasundaram	Basic	0
14	R SURESH	Advance	0
15	Dr. T.Gayathri	Advance	1
16	Dr.D.Jaichithra	Advance	1
17	Dr.T.Jayavarthanam	Advance	0
18	Dr.M.ANOUSOUYA DEVI	Advance	1
19	Dr. S. Dhivya	Advance	2
20	Dr. S.B LENIN	Advance	1
21	B. Vijaya kumar	Basic	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
22	P Praveenkumar	Basic	0
23	Dr. Ramachandiran.R	Advance	4
24	Mr.P.Jayakumar	Advance	0
25	Dr. K. Gowrishankar	Advance	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-6553	Yes
HEI Participated in the Smart India Hackathon (2022)	C-6553	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	Cour Start Date
1	Business Basics for Entrepreneur	U19CSP71	2020-21	Core Course	Bachelor	Computer Science and Engineering	1	03-07-2022 00:00
2	Business Basics for Entrepreneur	U19ECP71	2021-22	Core Course	Bachelor	Electronics and Communication Engineering	1	03-07-2022 00:00
3	Business Basics for Entrepreneur	U19EEp71	2021-22	Core Course	Bachelor	Electrical and Electronics Engineering	1	03-07-2022 00:00
4	Business Basics for Entrepreneur	U19MEP71	2021-22	Core Course	Bachelor	Mechanical Engineering	1	03-07-2022 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	Cour Start Date
5	Business Basics for Entrepreneur	U19ICP71	2021-22	Core Course	,Bachelor	Instrumentation and Control Engineering	1	03-07-2022 00:00
6	Business Basics for Entrepreneur	U19ITP71	2021-22	Core Course	Bachelor	Information Technology	1	03-07-2022 00:00
7	Business Basics for Entrepreneur	Ui9CEP71	2021-22	Core Course	Bachelor	Civil Engineering	1	03-07-2022 00:00
8	Intellectual Property and Rights	U19HSO62	2021-22	Elective Course	Bachelor	All the Engineering Department	3	03-07-2022 00:00
9	Marketing Management and Research	U19HSO63	2021-22	Elective Course	Bachelor	All the Engineering Department	3	03-07-2022 00:00
10	Finance for Engineers	U19HSO65	2021-22	Elective Course	Bachelor	All the Engineering Department	3	03-07-2022 00:00
11	Air Pollution and Solid Waste Management	U19CEO54	2021-22	Elective Course	,Bachelor	Civil Engineering	3	03-07-2022 00:00
12	Project Management for Engineers	U19HSO54	2021-22	Elective Course	Bachelor	All Engineering Department	3	03-07-2022 00:00
13	Introduction to Web Technologies	UsoEST112	2020-21	Core Course	,Bachelor	Computer and Communication Engineering	3	01-07-2021 00:00
14	Introduction to Webtechnologies	U20EST112	2021-22	Core Course	,Bachelor	Computer and Communication Engineering	3	03-07-2022 00:00
15	PCB Design	U19ECS32	2021-22	Elective Course	,Bachelor	Electronics and Communication Engineering	3	03-07-2022 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	Cour Start Date
16	Mobile servicing	U19ECS42	2021-22	Elective Course	Bachelor	Electronics and Communication Engineering	3	03-07-2022 00:00
17	Android Medical app development	P20XCCX18	2021-22	Elective Course	Bachelor	All the Engineering Department	3	03-07-2022 00:00
18	Web Programmin	P20XCCX20	2021-22	Core Course	,Bachelor	All software branches	3	03-07-2022 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	Progr Start Date
1	Research Opportunities in Image Processing and Machine Learning	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Computer science and Engineering	05-10-2020 00:00
2	Design thinking	2020-21	Management Development Program (MDP)	Central Govt. Agency	Mechanical Engineering	08-10-2020 00:00
3	Design of Sensor Based System and Exploration of IPR	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Electronics and Communication Engineering	26-01-2022 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	Progr Start Date
4	Overview on Cyber crimes and Cyber Security	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Electronics and Communication Engineering	22-11 2021 00:00
5	Emerging Trends in Mico Nano Sensors and Actuators for Industrial Application	2020-21	Short-term Certificate Program	Central Govt. Agency	Electrical and Electronics Engineering	26-10 2020 00:00
6	Emerging Trends in Mico Nano Sensors and Actuators for Industrial Application	2020-21	Short-term Certificate Program	Central Govt. Agency	Electrical and Electronics Engineering	23-11 2020 00:00
7	Emerging Trends in Mico Nano Sensors and Actuators for Industrial Application	2020-21	Short-term Certificate Program	Central Govt. Agency	Electrical and Electronics Engineering	26-12 2020 00:00
8	Emerging Trends in Mico Nano Sensors and Actuators for Industrial Application	2021-22	Short-term Certificate Program	Central Govt. Agency	Electrical and Electronics Engineering	08-02 2021 00:00
9	Internet of Things	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Instrumentation and Control Engineering	01-02 2021 00:00
10	3D printing and PCB MAKING - Professional skilling program for Polytechnic students	2021-22	Short-term Certificate Program	Self Sponsored/Supported	AICTE IDEA LAB	25-07 2022 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	Progr Start Date
11	Ideation Workshop	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	SMVEC - AICTE - IDEA LAB	06-07 2022 00:00
12	3D PRINTING AND PCB MAKING	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC - AICTE - IDEA LAB	24-06 2022 00:00
13	Product Design and Development	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC - AICTE IDEA LAB	11-04 2022 00:00
14	Design and 3D Printing	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	SMVEC AICTE - IDEA LAB	21-03 2022 00:00
15	Hands-On Training in Additive Manufacturing	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC - AICTE IDEA LAB	01-03 2022 00:00
16	Designing and Modelling of IoT AI and ML Systems	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	01-08 2022 00:00
17	Skilling Programme on ArtCAM and CNC Router Training	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	18-08 2022 00:00
18	Skilling Programme to school students on Electronic Toys	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	22-08 2022 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	Progr Start Date
19	Internship Programme for PG Students on Product Design and Development using Idea Lab Equipments	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	25-08 2022 00:00
20	Skilling Program on Inkscape Art and Laser cutting and Engraving	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	30-08 2022 00:00
21	Professional Skilling Programme on idea lab equipments and tools to Industrial Training Institute students	2021-22	Short-term Certificate Program	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	29-09 2022 00:00
22	Faculty Development Program on Smart Manufacturing to other institute Faculty	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	SMVEC AICTE IDEA LAB	26-09 2022 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. Sch
1	AICTE-IDEALab	Tinkering Lab	Dr. L. Martin	9715636697	martinsudhan@smvec.ac.in	Mentoring Grant Sup Incubation Support (I Prototype Business F Developm Facility Su (Innovativ Model to Market Lir Growth St
2	Innovation Cell	Research and Development Centre	Dr. K. Velmurugan	9585516718	hodmech@smvec.ac.in	Mentoring Grant Sup
3	Innovation Cell	Centre of AutoCAD	Dr. R.Ravishankar	9788273370	ravishankarmech@smvec.ac.in	Mentoring Grant Sup Incubation Support (I Prototype Business F Developm
4	Innovation Cell	Centre of Bentley	Mr.Srinivasan	9003595370	prsath@smvec.ac.in	Mentoring Grant Sup Incubation Support (I Prototype Business F Developm

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	TRIGATRO CLUB	Dr.A.G. Ganesh kumar	7871774888	agganeshkumar@smvec.ac.in	Own Resource

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
2	MECHMASTERS CLUB	Dr.A.Thiagarajan	9092608765	thiagusmvec@gmail.com	Own Resource
3	Elektor Club	Dr.S.B.Lenin	8825030255	lenin@smvec.ac.in	Own Resource
4	Robotic Club	Dr.A.G.Ganesh Kumar	7871774888	agganeshkumar@smvec.ac.in	Own Resource
5	Center for 3D printing	Dr.K.Velmurugan	9585516718	vkvarunee@gmail.com	Own Resource
6	Centre of Embedded Systems	Dr. A. Vijayalakshmi	9486985430	vijilakshan@gmail.com	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	Product Design and Development	Dr.A.Thiyagarajan	9092608765	thiagusmvec@gmail.com	Mentoring Support,Seed Grant 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 Engagement of Team Lead in Institute	Contact No	Email
No Data Found								

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
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	SRI MURALIDHARA MOULDS	Corporate/Industry Association	2	Active	26-07-2021	View (/U)
2	L&T EduTech	Non Govt. Agency	2	Active	05-05-2022	View (/U)
3	KC OVERSEAS EDUCATION PVT LTD PUDUCHERRY	Knowledge/Mentoring Agency	1	Active	18-04-2022	View (/U)
4	ELEATION	Corporate/Industry Association	2	Active	22-09-2021	View (/U)
5	TalentSprint	Knowledge/Mentoring Agency	5	Active	08-06-2020	View (/U)
6	Autocoils and Electricals	Corporate/Industry Association	5	Active	15-08-2020	View (/U)
7	Benlab , Pondicherry	Non Govt. Agency	2	Active	07-10-2020	View (/U)
8	Microchip Technology	Corporate/Industry Association	3	Active	09-04-2021	View (/U)
9	Blue Hora University	Educational Institute	5	Active	14-07-2021	View (/U)
10	Magronic Contrivance Pvt Ltd	Corporate/Industry Association	5	Active	28-08-2021	View (/U)
11	DMS INEFRA	Non Govt. Agency	3	Active	30-12-2020	View (/U)
12	ADHISAKTHI PROJECTS PRIVATE LIMITED	Corporate/Industry Association	2	Active	26-07-2021	View (/U)
13	LagozonEdutech Private Limited	Corporate/Industry Association	2	Active	25-08-2021	View (/U)

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	SCHNEIDER PROTOTYPING INDIA PRIVATE LIMITED	Corporate/Industry Association	5	Active	22-10-2021	View (/U)
15	Blue Prism Academia Program	Knowledge/Mentoring Agency	2	Active	08-06-2020	View (/U)
16	BIZTURN TECHNOLOGIES PRIVATE LIMITED	Corporate/Industry Association	2	Active	26-08-2021	View (/U)
17	PETRO GANG PAINTS	Corporate/Industry Association	5	Active	28-03-2022	
18	SREE RAMANUJAR INTELLECT SERVICES	Knowledge/Mentoring Agency	1	Active	16-02-2022	View (/U)
19	National Highways Authority of India	Non Govt. Agency	3	Active	11-11-2020	View (/U)
20	SEJA SINTERS PRIVATE LIMITED	Corporate/Industry Association	2	Active	30-07-2021	View (/U)
21	Great LEarning	Corporate/Industry Association	2	Active	22-01-2021	View (/U)
22	Zaphire Information Technology and Services Pvt Ltd	Knowledge/Mentoring Agency	5	Active	14-05-2022	View (/U)

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	GREEN PEAS SHELLER WITH COLLECTING TRAY	Design	350541-001	05-11-2021	No
2	GREEN PEAS DEPODING MACHINE	Design	350541-004	05-11-2021	No
3	SMART AGRO WEEDING MACHINE	Design	350541-003	12-11-2021	No
4	POMEGRANATE DESEEDER WITH COLLECTING DUCT	Design	350938-001	20-11-2021	No
5	PORTABLE MAIZE DEHUSKNG MACHINE	Design	350547-001	19-11-2021	No
6	BAGGAGE WEIGHT ANALYZER WITH CONVEYER FOR AIRCRAFT LOADING	Design	350936-001	26-11-2021	No
7	MAIZE DEHUSKER	Design	350541-002	26-11-2021	No
8	COTTON GINNING MACHINE	Design	350932-001	03-12-2021	No
9	PORTABLE COTTON GINNING MACHINE	Design	350933-001	03-12-2021	No
10	SHOE FOR VISUALLY IMPAIRED	Design	350939-001	03-12-2021	No
11	BAMBOO BICYCLE FRAME	Design	350543-001	03-12-2021	No
12	POMOGRANATE DESEEDER	Design	350546-001	03-12-2021	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?
13	SMART SHOE FOR VISUALLY IMPAIRED	Design	350939-002	10-12-2021	No
14	DOUBLE BEAMED BAMBOO BICYCLE FRAME	Design	350937-001	10-12-2021	No
15	FISH TANK LID WITH SOLAR OPERABLE FISH FEEDER	Design	350545-001	10-12-2021	No
16	ACCIDENT NOTIFYING DEVICE FOR VEHICLES	Design	350544-001	10-12-2021	No
17	ACCIDENT NOTIFYING SYSTEM FOR VEHICLES	Design	350940-001	10-12-2021	No
18	FISH TANK LID WITH AUTOMATIC FISH FEEDER	Design	350934-001	24-12-2021	No
19	STRETCHER CUM WHEEL CHAIR	Design	354167-001	28-01-2022	No
20	SMART COOKING APPLIANCE	Design	354164-001	04-02-2022	No
21	SMART GARBAGE BIN WITH GARBAGE LEVEL MONITORING SYSTEM	Design	354165-001	04-02-2022	No
22	AIR CONDITIONER DUCT CLEANING ROBOT	Design	354168-001	04-02-2022	No
23	AUTOMATED MANO AND METATE	Design	354169-002	04-02-2022	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?
24	SOLAR POWERED SMART GARBAGE BIN GARBAGE LEVEL MONITORING SYSTEM	Design	354939-001	04-02-2022	No
25	AUTOMATIC BATTER MAKING GRINDER	Design	354943-001	04-02-2022	No
26	PORTABLE AUTOMATED MANO AND METATE	Design	354943-002	04-02-2022	No
27	PORTABLE SMART COOKING DEVICE	Design	354938-001	11-02-2022	No
28	STRETCHER CUM WHEEL CHAIR WITH SIDE SUPPORTING FRAME	Design	354941-001	11-02-2022	No
29	ROBOTIC AIR CONDITIONER DUCT CLEANING DEVICE	Design	354942-001	11-02-2022	No
30	PORTABLE CHAPATI MAKING MACHINE	Design	354943-004	11-02-2022	No
31	AUTOMATIC HEADLIGHT BEAM CONTROLLER FOR VEHICLES	Design	354166-001	11-02-2022	No
32	SMART ENERGY CONSUMPTION MONITORING METER	Design	354166-002	11-02-2022	No
33	CHAPATHI MAKING MACHINE	Design	354169-003	11-02-2022	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?
34	SEMI AUTOMATED COCONUT SHELL BREAKING AND GRATING MACHINE	Design	354169-004	11-02-2022	No
35	SAFETY HELMET WITH CAMERA AND SOLAR POWERED FAN FOR CONSTRUCTION WORKERS	Design	355937-001	11-02-2022	No
36	SMART TABLET VENDING MACHINE	Design	355943-001	11-02-2022	No
37	SMART AUTOMATED MEDICINE VENDING MACHINE	Design	355943-002	11-02-2022	No
38	SMART SAFETY HELMET FOR CONSTRUCTION WORKERS	Design	355944-001	11-02-2022	No
39	ELECTRIC COCONUT SHELL BREAKING AND GRATING MACHINE	Design	354943-003	18-02-2022	No
40	SMART ORGANIC WASTE COMPOSTER	Design	355941-002	18-02-2022	No
41	SMART COOKING DEVICE	Design	354164-002	25-02-2022	No
42	AUTOMATIC COOKING MACHINE	Design	354938-002	25-02-2022	No
43	ENERGY METER WITH WIRELESS MESSAGE	Design	354940-002	25-02-2022	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?
44	SMART BIOMETRIC CONTROL SYSTEM FOR MONEY ACCESS IN BANKS	Design	355940-001	25-02-2022	No
45	PORTABLE ORGANIC WASTE COMPOSTER	Design	355941-001	25-02-2022	No
46	BATTER MAKING MACHINE	Design	354169-001	04-03-2022	No
47	AUTOMATIC HEADLIGHT INTENSITY CONTROLLER	Design	354940-001	04-03-2022	No
48	SMART STAND FOR SUN TRACKING SOLAR PANEL	Design	355936-001	04-03-2022	No
49	PORTABLE MOUNT STAND FOR SUN TRACKING SOLAR PANEL	Design	355939-001	04-03-2022	No
50	AUTOMATED RAIL TRACK INSPECTION TROLLEY	Design	355942-001	04-02-2022	No
51	AUTONOMOUS FLOOR CLEANING ROBOT	Design	355939-001	04-03-2022	No
52	DRIVER DROWSINESS DETECTING AND ALERTING DEVICE	Design	356035-001	04-03-2022	No
53	ZIG BEE BASED SMART SAFETY HELMET FOR COAL MINE WORKERS	Design	356037-001	04-03-2022	No
54	SMART SAFETY HELMET FOR COAL MINERS	Design	356037-002	04-03-2022	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?
55	FERROUS AND NONFERROUS WASTE SORTING MACHINE	Design	356038-001	04-03-2022	No
56	IOT BASED AUTOMATED RAIL TRACK INSPECTION TROLLEY	Design	355942-002	11-03-2022	No
57	GARBAGE SEGREGATING DEVICE USING IMAGE PROCESSING	Design	356033-001	11-03-2022	No
58	SMART FLOOR CLEANING ROBOT	Design	356034-002	11-03-2022	No
59	DRIVER DROWSINESS DETECTING AND WARNING SYSTEM	Design	356035-002	11-03-2022	No
60	AUTOMOBILE FUEL ADULTERATION DETECTOR	Design	356036-002	11-03-2022	No
61	AUTOMATIC FLOOR MOPPING MACHINE	Design	356034-003	25-03-2022	No
62	FLOOR MOPPING ROBOT	Design	356034-001	01-04-2022	No

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
No Data Found			

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	View
1	202041029720 A	AUTOMATIC PNEUMATIC WELDING BY ROBOT	31-07-2020	Published	2020	Co-Applicant	v
2	202041030668 A	DESIGN OF SOLAR POWERED MINI RICE MILL	31-07-2020	Published	2020	Co-Applicant	v
3	202041033396 A	SMART REFRIGERATOR USING PELTIER PLATE	21-08-2020	Published	2020	Co-Applicant	v
4	202041033397 A	A FURROWER	21-08-2020	Published	2020	Co-Applicant	v
5	202041033566 A	AD-HOC NETWORK WITH INTEL GALILEO GEN2 BASED POWER DEMAND CONTROL	21-08-2020	Published	2020	Co-Applicant	v
6	202041037094 A	SMART PORTABLE AUTOMATED PANEER MAKING DEVICE	04-09-2020	Published	2020	Co-Applicant	v
7	202041037095 A	DEVICE FOR TERMITE TRACKING USING MOISTURE SENSOR AND THERMAL IMAGING	04-09-2020	Published	2020	Co-Applicant	v
8	202041036571 A	END TO END FOOD SAFETY AND QUALITY CONTROL SYSTEM	11-09-2020	Published	2020	Co-Applicant	v
9	202041038421 A	FOOD PRODUCT BASED ON HOME REMEDIES FOR PREVENTION AND CURING OF CANCER	11-09-2020	Published	2020	Co-Applicant	v
10	202041039073 A	OXYGEN ANALYZER	18-09-2020	Published	2020	Co-Applicant	v
11	202041039291 A	IOT FOR ELDERLY HEALTHCARE	18-09-2020	Published	2020	Co-Applicant	v

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
12	202041039774 A	SOLAR ACETONE POWER GENERATOR (ACESOL) AND METHOD OF GENERATING POWER	25-09-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
13	202041040041 A	DEVICE FOR CATALYSED DRYING OF FOOD BASED MATERIALS	25-09-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
14	202041040791 A	SMART BED FOR PHYSIOLOGICAL PARAMETERS MEASUREMENT	02-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
15	202041038725 A	CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT WITH METAKAOLIN	02-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
16	202041041657 A	MULTI-PURPOSE SKIN PEELER	09-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
17	202041042021 A	SUBSTANTIATING WEB SERVICES CHOREOGRAPHY BASED ON AUTOMATA MODEL	09-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
18	202041042028 A	GENERIC SMART AUTOMATION SYSTEM	09-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
19	202041042033 A	SMART ELECTRICAL SENSING IN INFRASTRUCTURE	09-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
20	202041042471 A	PEARL MILLET DEHUSKER AND ASPIRATOR	09-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
21	202041043123 A	SMART BEAKER FOR URNE ANALYSIS	16-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>
22	202041044031 A	SMART SECURITY SYSTEM-THEFT DETECTION AND SURVEILLANCE	16-10-2020	Published	2020	Co-Applicant	<input checked="" type="checkbox"/>

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
23	202041044035 A	CASS BASED SECURE AUTHENTICATION SYSTEM	16-10-2020	Published	2020	Co-Applicant	v
24	202041044321 A	AUTOMATIC EPIDURAL REGULATOR	16-10-2020	Published	2020	Co-Applicant	v
25	202041044255 A	MECHANISM OF BIODETERIORATION OF MARINE CONCRETE BY GREEN ALGAECHAETOMORPHA ANTENNINA	23-10-2020	Published	2020	Co-Applicant	v
26	202041045087 A	MECHANIZED SYSTEM OF INTEGRATED SHOE CLEANSING AND POLISHING	30-10-2020	Published	2020	Co-Applicant	v
27	202041045102 A	COST EFFECTIVE SMART SEWAGE TREATMENT TO AGRICULTURE FIELDS	30-10-2020	Published	2020	Co-Applicant	v
28	202041045939 A	INTELLIGENT TRACKING SYSTEM FOR VEHICLES	30-10-2020	Published	2020	Co-Applicant	v
29	202041046598 A	DEVICE FOR DETECTION AND PREVENTION OF LIGAMENT INJURIES IN JOINTS	06-11-2020	Published	2020	Co-Applicant	v
30	202041047668 A	PORTABLE EGG QUALITY ASSESSMENT AND MONITORING SYSTEM USING IOT	13-11-2020	Published	2020	Co-Applicant	v
31	202041048951 A	UNIVERSAL MOTOR DRIVE FOR THREE PHASE INDUCTION MOTOR AND BLDC MOTOR	20-11-2020	Published	2020	Co-Applicant	v
32	202041048954 A	SMART AQUA GEN	20-11-2020	Published	2020	Co-Applicant	v

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
33	202041048956 A	HEARTSEASE - THE STRESS RELIEVING APPLICATION	20-11-2020	Published	2020	Co-Applicant	v
34	202041049644 A	SKATING PLATE BY DISCARDED PCB WITH CARBON FIBER REINFORCED	27-11-2020	Published	2020	Co-Applicant	v
35	202041049647 A	AN EDGE COMPUTING BASED SMART ASSISTIVE GLASS FOR VISUALLY INCAPACITATED PEOPLE	27-11-2020	Published	2020	Co-Applicant	v
36	202041050321 A	DATA AUTHENTICATION AND SECURITY IN ATM SYSTEM	04-12-2020	Published	2020	Co-Applicant	v
37	202041051662 A	DESIGN AND FABRICATION OF FLOWER STRINGING MACHINE	04-12-2020	Published	2020	Co-Applicant	v
38	202041052231 A	NOVEL SUPERCONTINUUM GENERATION USING PCF WITH NON - UNIFORM HONEYCOMB CLADDING FOR 35KW PUMP PULSE	11-12-2020	Published	2020	Co-Applicant	v
39	202041054878 A	SMART BELT FOR HEALTH MONITORING OF PREGNANT WOMEN	01-01-2021	Published	2021	Co-Applicant	v
40	202041054921 A	A STRUCTURAL HEALTH MONITORING (SHM) SYSTEM BASED ON INTERNET OF THINGS	01-01-2021	Published	2021	Co-Applicant	v
41	202041055716 A	PATTERN ORIENTED PATIENT ASSISTANT SYSTEM	01-01-2021	Published	2021	Co-Applicant	v

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42	202041055969 A	AN ANALYSIS OF COMPUTATIONAL FLUID DYNAMICS FOR HEAT TRANSFER PROBLEMS	01-01-2021	Published	2021	Co-Applicant	<input checked="" type="checkbox"/>
43	201941004973 A	CHEF-O-MATIC	29-01-2021	Published	2021	Co-Applicant	<input checked="" type="checkbox"/>
44	202141009065 A	A SECURE ROUTING ALGORITHM (ACOECD SA) IN VANET BASED ON BIO-INSPIRED APPROACH	12-03-2021	Published	2021	Co-Applicant	<input checked="" type="checkbox"/>
45	2020101595	DIGITAL SIGNAL PROCESSING TECHNIQUE IN WIRELESS SENSOR AND ACTUATOR NETWORKS FOR LONG-RANGE ENVIRONMENTAL MONITORING	26-08-2020	Granted	2020	Co-Applicant	<input checked="" type="checkbox"/>
46	2020101724	A REINFORCED ABS COMPOSITE MATERIAL OF SPIDER SILK AND ARAMID FIBER ALONG WITH GRAPHENE FOR FABRICATION OF UNMANNED AERIAL VEHICLES	09-09-2020	Granted	2020	Co-Applicant	<input checked="" type="checkbox"/>
47	2020101867	DESIGN AND IMPLEMENTATION OF A DISASTER MANAGEMENT SYSTEM USING IOT AND CLOUD COMPUTING TECHNIQUES FOR A CONNECTED BUILDINGS TO SAVE LIVES WITH EARLY WARNINGS	09-09-2020	Granted	2020	Co-Applicant	<input checked="" type="checkbox"/>
48	2020102382	AN ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR COVID PREVENTION	21-10-2020	Granted	2020	Co-Applicant	<input checked="" type="checkbox"/>

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	2020102956	METHOD FOR MANAGING THE SAR VALUE, QOS, AND ENERGY CONSUMPTION IN WIDEBAND CODE DIVISION MULTIPLE ACCESS NETWORKS	22-10-2020	Granted	2020	Co-Applicant	View
50	2020103014	COST EFFECTIVE FASTENING BRICKS	09-12-2020	Granted	2020	Co-Applicant	View

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	DTT
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. V.S.K. Venkatachalapathy@smvec.ac.in** (Head of Institute) and **Dr. RAJA. P** (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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