Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College [ARI-C-16616][C-16616]

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	Yes

Contact:

Faculty Name:	Dr.B.Bharathiraja
Designation:	Associate Dean
Email ID:	innovation@velhightech.com
Mobile No.	9843557513

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)	3.5
IIC 4.0 (2021-22)	0 (On Progress)

Contact:

IIC President of the Institute:	Dr. M. Gopinath

Designation:	Professor
Email ID:	drmgopinath@velhightech.com
Mobile No.	9994041130

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. M. Gopinath	Advance	4
2	Mr. M. Manoj kumar	Basic	0
3	Mr. S. Sivasaravanababu	Basic	0
4	Mrs. R. Hanisha	Basic	0
5	Mr. A. Mohammed Ovaiz	Basic	0
6	Dr. K. Stella	Basic	0
7	Mrs. P. Nandhini	Basic	0
8	Mrs. J. JACULIN JEKA	Advance	0
9	Ms P Brinda	Basic	0
10	Mr. V. Nagarajan	Basic	0
11	Ms. R. Suguna	Basic	0
12	Ms. S. Sunitha	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-16616	Yes
HEI Participated in the Smart India Hackathon (2022)	C-16616	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	Inteclletcual Property Rights	GE8075	2021-22	Elective Course	Bachelor	Biotechnology	3	18-03-2022 00:00:00
2	Total Quality Management	GE8077	2021-22	Elective Course	Bachelor	Biotechnology	3	18-08-2021 00:00:00
3	Inteclletcual Property Rights	GE8075	2020-21	Elective Course	Bachelor	Biotechnology	3	02-01-2020 00:00:00
4	Total Quality Management	GE8077	2020-21	Core Course	Bachelor	Biotechnology	3	22-07-2020 00:00:00
5	Entrepreneurship development	BA5014	2021-22	Elective Course	Master	Department of Management Science	3	04-10-2021 00:00:00
6	Strategic human resource management	BA5019	2021-22	Elective Course	Master	Department of Management Science	3	04-10-2021 00:00:00
7	Strategic management	BA5302	2021-22	Core Course	Master	Department of Management Science	3	04-10-2021 00:00:00
8	Industrial relation and labour welfare	BA5015	2021-22	Elective Course	Master	Department of Management Science	3	04-10-2021 00:00:00
9	Legal aspects of business	BA5104	2020-21	Core Course	Master	Department of Management Science	3	20-11-2020 00:00:00
10	Total quality management	BA5107	2020-21	Core Course	Master	Department of Management Science	3	20-11-2020 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	Operations management	BA5206	2021-22	Core Course	Master	Department of Management Science	3	03-05-2021 00:00:00
12	Brand management	BA5001	2021-22	Elective Course	Master	Department of Management Science	3	04-10-2021 00:00:00
13	Process Engineering Economics	CH8652	2020-21	Core Course	Bachelor	Chemical Engineering	3	24-02-2021 00:00:00
14	Process Equipment design	CH8701	2021-22	Core Course	Bachelor	Chemical Engineering	4	16-08-2021 00:00:00
15	Inteclletcual Property Rights	GE8075	2020-21	Elective Course	Bachelor	Electrical and Electronics Engineering	3	18-02-2021 00:00:00
16	Intellectual Property Rights	GE8075	2021-22	Elective Course	Bachelor	Electrical and Electronics Engineering	3	16-03-2022 00:00:00
17	Design of steel structural elements	CE8601	2021-22	Core Course	Bachelor	Civil Engineering	3	05-03-2022 00:00:00
18	Design of reinforced cement concrete elements	CE7402	2021-22	Core Course	Bachelor	Civil Engineering	3	26-08-2021 00:00:00
19	Product Design Development	OMF551	2021-22	Elective Course	Bachelor	Computer Science and Engineering	3	18-08-2021 00:00:00
20	Product Design Development	OMF551	2020-21	Elective Course	Bachelor	Computer Science and Engineering	3	22-07-2020 00:00:00
21	Total Quality Management	GE8077	2020-21	Elective Course	Bachelor	Mechanical Engineering	3	12-08-2020 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
22	Total Quality Management	GE8077	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	18-08-2021 00:00:00
23	Principles of Management	MG8591	2020-21	Core Course	Bachelor	Electronics and Communication Engineering	3	18-02-2021 00:00:00
24	Principle of Management	MG8591	2021-22	Core Course	Bachelor	Information Technology	3	04-10-2021 00:00:00
25	Supply chain management	OME752	2021-22	Elective Course	Bachelor	Information technology	3	04-10-2021 00:00:00
26	Product design and development	OMF551	2021-22	Elective Course	Bachelor	Information technology	3	04-10-2021 00:00:00
27	Principle of Management	MG8591	2020-21	Core Course	Bachelor	Information technology	3	22-07-2020 00:00:00
28	Supply chain management	OME752	2020-21	Elective Course	Bachelor	Information technology	3	22-07-2020 00:00:00
29	Product design and development	OMF551	2020-21	Elective Course	Bachelor	Information technology	3	22-07-2020 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	Progra Start Date

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	Progra Start Date
1	Patent Drafting for Beginners	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	25-07-2022 00:00:0
2	Supply chain management - Advance course	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Indian Institute of Materials Management (IIMM)	26-07-2021 00:00:0
3	Basics of supply chain management	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Indian Institute of Materials Management (IIMM)	08-12-2021 00:00:0
4	Intellectual Property Rights	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	The New College Chennai	14-06-2021 00:00:0
5	Exploring entrepreneurship and start up opportunities	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Sri Venkateswara College of Engineering and Technology	05-07-2021 00:00:0
6	Professional development and capabilities enhancement program in Indian accounting standards	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Dwaraka Doss Goverdhan Doss Vaishnav College	15-07-2021 00:00:0
7	Summer research capacity development program	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	University of Buraimi Al Buraimi Oman	07-08-2021 00:00:0
8	Aspen Plus simulation software a basic course for beginner	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0

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	Progra Start Date
9	Biomass Conversion and Biorefinery	2021-22	Short-term Certificate Program	State Govt. Agency	NPTEL	24-01-2022 00:00:0
10	Introduction to process modelling in the membrane separation process	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	21-02-2022 00:00:0
11	Physicochemical processes for waste water treatment	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
12	Polymer reaction engineering	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
13	Fluid flow operations	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
14	Soft nanotechnology	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
15	Waste to energy conversion	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
16	Introduction to Professional Scientific Communication	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
17	Plant Development Biology	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	21-02-2022 00:00:0
18	Human Molecular Genetics	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0

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	Progra Start Date
19	The Joy of computing using python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
20	Basic construction materials	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	14-01-2022 00:00:0
21	Modern materials advanced technologies for infrastructure and modelling of mechanical behavior of composite materials	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College	14-03-2022 00:00:0
22	Road Map for effective research using advanced techniques and tools	2021-22	Short-term Certificate Program	Central Govt. Agency	NIT Calicut	14-02-2022 00:00:0
23	Emerging Trends in Civil Engineering	2021-22	Faculty Development Program (FDP)	Industry/Non-Govt.	BTR Construction	24-01-2022 00:00:0
24	Modelling and Simulation	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College	28-05-2021 00:00:0
25	Composite Materials and Manufacturing Technologies	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College	11-05-2021 00:00:0

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	Progra Start Date
26	Supply Chain Management	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Indian Institute of Materials Management	18-10-2021 00:00:0
27	CNC Turning and Vertical Machining	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Vel Tech Rangarajan Dr Sagunthala R and D Institute of Science and Technology	27-04-2022 00:00:0
28	Programming in Java	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
29	Cloud computing	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
30	Ethical Hacking	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
31	The Joy of computing using python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	14-01-2022 00:00:0
32	Cloud computing and distributed systems	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
33	Data Mining	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
34	Python for data science	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
35	Programming data structure and algorithms using python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0

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	Progra Start Date
36	Data analytics with python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
37	Data science for engineers	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
38	Fundamental algorithms design and analysis	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
39	Ethical Hacking	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
40	Digital system design	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
41	Introduction to IoT	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
42	Fundamentals of MIMO wireless communication	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
43	An introduction to programming through C plus plus	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
44	VLSI Physical design	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	18-01-2021 00:00:0
45	The joy of computing using python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	18-01-2021 00:00:0
46	Database Management system	2020-21	Short-term Certificate Program	Central Govt. Agency	NPTEL	18-01-2021 00:00:0

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	Progra Start Date
47	Computer integrated manufacture	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
48	Manufacturing automation	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	24-01-2022 00:00:0
49	Inspection and quality control in manufacturing	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	21-02-2022 00:00:0
50	Advanced application in composite materials	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College	17-05-2021 00:00:0
51	Short Term Training Program on High Intense Course on Machine learning with MATLAB	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Grant supported by AICTE and Organized by Electronics and Communication Engineering	07-12-2020 00:00:0
52	Challenge and opportunity in IT industry in post COVID 19	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College	16-06-2020 00:00:0
53	Joy of computing with python	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	26-06-2021 00:00:0
54	Programming in Java	2021-22	Short-term Certificate Program	Central Govt. Agency	NPTEL	26-07-2021 00:00:0
55	Pursuing data analytics with python	2020-21	Short-term Certificate Program	Central Govt. Agency	NPTEL	18-01-2021 00:00:0

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	Progra Start Date
56	Data analytics with python	2020-21	Short-term Certificate Program	Central Govt. Agency	NPTEL	18-01-2021 00:00:0

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. Schem
1	Innovation Cell	Institutions Innovation Council	Dr. M. Gopinath	9994041130	drmgopinath@velhightech.com	Mentoring Su Incubation Fa Support (Idea Prototype an Business Plan Development Facility Suppo (Innovative B Model to Star Market Linka Growth Stage
2	EDC	Institutions Innovation Council	Dr. M. Gopinath	9994041130	drmgopinath@velhightech.com	Mentoring Su Incubation Fa Support (Idea Prototype an Business Plan Development Facility Suppo (Innovative B Model to Star Market Linka Growth Stage

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schem
3	Start-Up Cell	Start up cell	Mr. M. Manoj kumar	9600859335	manojkumar@velhightech.com	Mentoring Su Incubation Fa Support (Idea Prototype an Business Plan Development Facility Suppc (Innovative B Model to Star Market Linka Growth Stage
4	Tinkering Lab	Tinkering lab	Dr. N. Duraichi	9884442608	duraichi@velhightech.com	Mentoring Su
5	New Gen IEDC	New gen IEDC	Dr. R. Suresh	9600406671	drsureshr@velhightech.com	Mentoring Su
6	IEDC	IEDC	Dr. A. Suresh Kumar	8124668834	sureshkumara@velhightech.com	Mentoring Su Incubation Fa Support (Idea Prototype an Business Plan Development
7	EDC	Makers space	Dr. S. Durgadevi	9445943542	cse@velhightech.com	Mentoring Su
8	Tinkering Lab	Design centre	Dr. N. Gayathri	7904153587	gayathri@velhightech.com	Mentoring Su

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	MSME Facilitation Centre	Dr. A. Suresh Kumar	8124668834	sureshkumara@velhightech.com	MSME

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
2	Centre of Excellence in Artificial Intelligence funded by AICTE	Dr. V. R. Ravi	9600181628	drvrravi@velhightech.com	Own Resource,Other Central/State Government
3	Centre of Excellence in Aspen, funded by AICTE	Dr. J. B. Veeramalini	9789657001	veeramalini@velhightech.com	Own Resource,Other Central/State Government
4	Centre of Research on Ground water Augmentation, funded by AICTE	Dr. S. Govindasami	9486244517	govindasami@velhightech.com	Own Resource,Other Central/State Government
5	Centre of Excellence in Red Hat Linux	Mr. R. Karthikeyan	9884495925	karthikeyanr@velhightech.com	Own Resource
6	Centre for IoT	Dr. V. R. Ravi	9600181628	drvrravi@velhightech.com	Own Resource
7	Centre of Excellence on Sales Force Technology through ICT Academy	Dr. S. Durgadevi	9445943542	cse@velhightech.com	Own Resource
8	Centre of Stability of Structures/ Buildings	Mr. M. Manoj kumar	9600859335	manojkumar@velhightech.com	undefined
9	Centre of Excellence in Bioprocess Technology	Dr. R. Gnanasekaran	8608803902	gnanasekaranr@velhightech.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

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	IPR Cell	Patent facilitation unit	Dr. A. Saravanaraj	9952653257	a.saravanaraj@velhightech.com	Mentoring Support,Pre Incubation Facility Support (Ide to Prototyp and Innovative Business Pla Developme
2	Technology Transfer Centre /TTO	Technology Transfer Centre	Dr. B. Bharathiraja	9843557513	bharathiraja@velhightech.com	Mentoring Support,Pre Incubation Facility Support (Ide to Prototyp and Innovative Business Pla Developme
3	IPR Cell	IPR cell	Dr. D.Yuvaraj	9944099550	yuvaraj@velhightech.com	Mentoring Support,Pre Incubation Facility Support (Ide to Prototyp and Innovative Business Pla Developme

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
1	RECLAMATION OF WASTE WATER TO POTABLE WATER	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sesvi. D	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
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	Holistic Investment Planners Pvt Ltd	Corporate/Industry Association	Five	Active	14-01-2020	View (/Uplc
2	Aaranya Biosciences Pvt Ltd Chennai	Corporate/Industry Association	5	Active	09-02-2022	View (/Uplc
3	Deepam Hospitals, Chennai	Corporate/Industry Association	5	Active	07-10-2021	View (/Uplc
4	ARMATS Biotek Training and Research Institute, Chennai	Corporate/Industry Association	5	Active	05-08-2022	View (/Uplc
5	Bioneemtec Pvt. Ltd., Chennai	Corporate/Industry Association	5	Active	05-08-2022	View (/Uplc
6	Geomarine Biotechnologies, Chennai	Corporate/Industry Association	5	Active	07-10-2021	View (/Uplc
7	Tejas networks	Corporate/Industry Association	5	Active	13-09-2021	View (/Uplc
8	CSS corp	Corporate/Industry Association	5	Active	24-09-2020	View (/Uplc
9	ICT Academy	Corporate/Industry Association	2	Active	31-03-2021	View (/Uplc
10	Balmer Lawries and Co Ltd	Govt. Agency (Central)	2	Active	25-04-2022	View (/Uplc

Section 7: Intellectually Property (IP) Generated and Commercialization

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

				Has this IP(Copyright &

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
No Data Found					

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	Mitigating illegal technology of online loans through strategic financial planning	2021103364	21-07-2021
2	An analytical method for health risk prediction of patient's health in real time using machine learning	202041021783	24-05-2020
3	A method of air pollution monitoring system using internet of things	202141037389	18-08-2021
4	A method of smart vehicle safety and security system using internet of things	202141034638	02-08-2021
5	Areca leaf shredding machine	202141007807	24-02-2021
6	A MORPHOLOGICAL CHARACTERS BASED OIL SPILL DETECTION FROM RADARSAT-2 SAR SATELLITE DATASET	202241027116	11-05-2022
7	POULTRY CHICKEN GENDER CLASSIFICATION USING DEEP LEARNING MODELS	202141009555	08-03-2021
8	DEEP LEARNING BASED ANIMAL TRACKING SYSTEM USING VOICE VOCALIZATION	202141004404	01-02-2021
9	A SYSTEM AND METHOD OF GRAVITATIONAL TRANSPORTATION BETWEEN HILLS / BUILDINGS THROUGH TELESCOPIC HYDRAULIC SYSTEM	202041035348	17-08-2020
10	LEMONGRASS OIL AND ITS BLENDS FOR AGRICULTURAL DIESEL ENGINE	202031036818	26-08-2020
11	PREPARATION AND VALIDATION OF VALUE ADDED BIODEGRADABLE MULCH FILMS DERIVED FROM DOMESTIC WASTE	202241061344	28-12-2021

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	202141007807	ARECA LEAF SHREDDING MACHINE	24-02-2021	Published	2021	Co-Applicant	
2	202141037389	A METHOD OF AIR POLLUTION MONITORING SYSTEM USING IOT	18-08-2021	Published	2021	Co-Applicant	
3	202141034638	A METHOD OF SMART VEHICLE SAFETY AND SECURITY SYSTEM USING IOT	02-08-2021	Published	2021	Co-Applicant	
4	202041053689	Foot Ulcer Detection Using Deep Learning Models	10-12-2020	Published	2020	Co-Applicant	
5	202041035348	A SYSTEM AND METHOD OF GRAVITATIONAL TRANSPORTATION BETWEEN HILLS/BUILDINGS THROUGH TELESCOPIC HYDRAULIC SYSTEM	17-08-2020	Published	2020	Co-Applicant	
6	202031036818	LEMONGRASS OIL AND ITS BLENDS FOR AGRICULTURAL DIESEL ENGINE	26-08-2020	Published	2020	Co-Applicant	
7	202141029267	Design and fabrication of emergency stretcher using spring linkage suspension system.	29-06-2021	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	
8	201941045072	A PROCESS OF REMOVAL OF POLLUTANTS FROM WASTEWATER USING LIGNITE	06-11-2019	Granted	2021	Co-Applicant	[
9	202041021783	AN ANALYTICAL METHOD FOR HEALTH RISK PREDICTION OF PATIENT'S HEALTH IN REAL TIME USING MACHINE LEARNING	24-05-2020	Published	2020	Co-Applicant	[
10	202241008530	ARTIFICIAL INTELLIGENCE-BASED LIFETIME PREDICTION AND DEPLOYMENT STRATEGY FOR WIRELESS SENSOR NETWOR	18-02-2022	Published	2022	Other(Individual)	[
11	202241017480	Real Time Agriculture Field Monitoring System Using IOT	26-03-2022	Published	2022	Other(Individual)	[
12	202211025479	5G NETWORK SECURITY SYSTEM USING MACHINE LEARNING	01-05-2022	Published	2022	Other(Individual)	[
13	202241025478	Improve Learning Possibilities Using Block chain & AI	01-05-2022	Published	2022	Other(Individual)	[
14	202241024357	Smart Parking System Using AI of Things (AIOT)	25-04-2022	Published	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	
15	202241030064	SELF DIAGNOSIS OF LIVER DISEASE SYMPTOMS USING MACHINE LEARNING	25-05-2022	Published	2022	Other(Individual)	
16	2021106424	PREDICT TRAFFIC FLOW USING ARTIFICIAL INTELLIGENCE BASED ON GCN	17-11-2021	Published	2021	Other(Individual)	
17	202241027850	APPLIANCES FOR SOLAR ENERGY GENERATION AND SAVING USING TENT ENERGY STORING	14-05-2022	Published	2022	Other(Individual)	
18	202241024691	AUTOMATIC BABY CRADLE SWING	27-04-2022	Published	2022	Other(Individual)	
19	202241044105	TECHNOLOGY TRANSFORMATION & WORK LIFE BALANCE	02-08-2022	Published	2022	Other(Individual)	
20	202221029356	PLATFORM FOR SEAMESS AND ON DEMAND IOT DEVICE INTEGRATION IN INDUSTRIAL IOT SYSTEMS	21-05-2022	Published	2022	Other(Individual)	
21	202241001971	AN EFFICIENT FMMS FOR FISHERIES CATCHMENT IN OCEAN USING UWSN	13-01-2022	Published	2022	Co-Applicant	

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	
No Data Found						

Declaration

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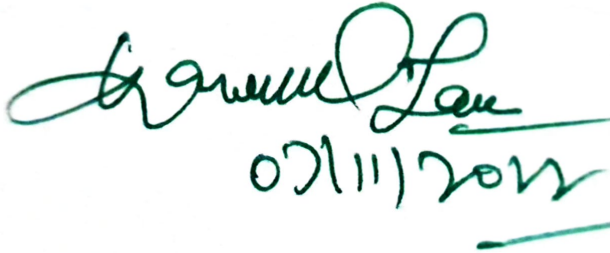MHRD's Innovation Cell
New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer
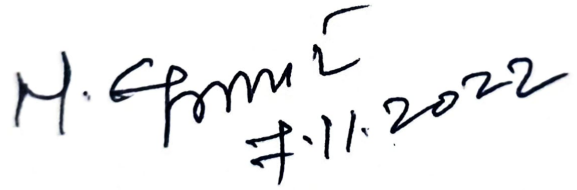
Dear Sir,

Herewith, myself **Dr. KAMALANABAN. E** (Head of Institute) and **Dr. Gopinath M** (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   Nodal officer

Dr. KAMALANABAN. E,   Dr. Gopinath M,
Head of the Institution,   Nodal Officer,
Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala   Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala
Engineering College,   Engineering College,
Morai, Tamil Nadu   Morai, Tamil Nadu