

## 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	Yes
Institute has Action Plans for Implementation of the I&E Policy	Yes

#### Contact:

Faculty Name:	Dr.L.S.Jayashree
Designation:	Professor

### 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
IIC 2.0 (2019-20)	1
IIC 3.0 (2020-21)	3.5
IIC 4.0 (2021-22)	3.5

#### Contact:

IIC President of the Institute:	Dr. K. Prakasan
Designation:	Principal

### 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 L S Jayashree	Advance	5
2	Dr. K. Vasanthamani	Advance	7
3	Krishna kumar K	Advance	5
4	KRISHNAKUMAR N	Advance	3

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
5	Dr. P. Rani	Advance	2
6	Dr. Priya R	Advance	4
7	Dr. Mariyam Adnan	Advance	5
8	Dr S.Udhayakumar	Advance	5
9	Dr. T. Vairam	Advance	4
10	Dr. K.P. Radhika	Advance	4
11	Dr. M. Parthiban	Basic	0
12	Dr. R. Murugan	Basic	0
13	Dr. M. Karthikeyan	Advance	0
14	Mr. K. Umesh	Basic	0
15	Dr. M R. Nivitha	Basic	0
16	Dr. R. Senthil Kumar	Basic	0
17	Dr. J. Palraj	Basic	0
18	Dr. S. Prabhakaran	Basic	0
19	Dr. R. Thiyagarajan	Basic	0
20	Dr S.Vidyalakshmi	Basic	0
21	Sreepadmini Ragunathan	Advance	3

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

HEI Registered in the KAPILA Portal	C-37013	Yes
HEI Participated in the Smart India Hackathon (2022)	C-37013	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	Course End Date	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Course
1	Internship II and Innovation Practices	15P620	2020-21	Core Course	Bachelor	Production Engineering	2	13-08-2020 00:00:00	12-11-2020 00:00:00	92	60	Online	59
2	Internship II and Innovation Practices	15P620	2020-21	Core Course	Bachelor	Production Engineering	2	16-01-2021 00:00:00	16-04-2021 00:00:00	91	60	Online	64
3	Internship II and Innovation Practices	15P620	2021-22	Core Course	Bachelor	Production Engineering	2	27-07-2021 00:00:00	25-11-2021 00:00:00	122	60	Offline	58
4	Internship and Innovation Practices	15D620	2020-21	Core Course	Bachelor	Biomedical Engineering	2	02-12-2020 00:00:00	16-04-2021 00:00:00	136	60	Online	66

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	Course End Date	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Course
5	Innovation Practices	19D620	2021-22	Core Course	Bachelor	Biomedical Engineering	2	21-02-2022 00:00:00	17-04-2022 00:00:00	56	60	Offline	60
6	Internship and Innovation Practices	15A512	2020-21	Core Course	Bachelor	Automobile Engineering	2	03-08-2020 00:00:00	31-12-2020 00:00:00	151	60	Blended Mo	64
7	Innovation Practices	19A611	2021-22	Core Course	Bachelor	Automobile Engineering	1	21-02-2022 00:00:00	30-04-2022 00:00:00	69	30	Offline	64
8	Internship and Innovation Practices	15U620	2020-21	Core Course	Bachelor	Department of Instrumentation and Control Engineering	2	28-12-2020 00:00:00	12-04-2021 00:00:00	106	60	Online	67
9	Innovation Practices	19U620	2021-22	Core Course	Bachelor	Department of Instrumentation and Control Engineering	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	61
10	Bioethics IPR and Biosafety	15B604	2020-21	Core Course	Bachelor	Department of Biotechnology	3	28-12-2020 00:00:00	16-04-2021 00:00:00	110	45	Blended Mo	62
11	Internship II and Innovation Practices	15B620	2020-21	Core Course	Bachelor	Department of Biotechnology	2	28-12-2020 00:00:00	16-04-2021 00:00:00	110	60	Blended Mo	62
12	Innovation Practices	19B620	2021-22	Core Course	Bachelor	Department of Biotechnology	1	19-07-2021 00:00:00	13-11-2021 00:00:00	118	30	Offline	50
13	Research Methodology and IPR	21BT05	2021-22	Core Course	Master	Department of Biotechnology	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	15
14	Entrepreneurship	15FD93	2020-21	Core Course	Master	Department of Apparel and Fashion Design	3	14-08-2020 00:00:00	10-11-2020 00:00:00	89	45	Online	37
15	Entrepreneurship	15FD93	2021-22	Core Course	Master	Department of Apparel and Fashion Design	3	19-07-2021 00:00:00	10-11-2021 00:00:00	115	45	Online	35
16	New Product Design	18FDC3	2020-21	Elective Course	Master	Department of Apparel and Fashion Design	3	14-08-2020 00:00:00	10-11-2020 00:00:00	89	40	Online	25
17	New Product Design	15FDAN	2020-21	Elective Course	Master	Department of Apparel and Fashion Design	3	28-12-2020 00:00:00	17-04-2021 00:00:00	111	40	Online	25
18	Zero Waste Fashion Design	18FDD3	2021-22	Elective Course	Master	Department of Apparel and Fashion Design	3	23-02-2022 00:00:00	01-05-2022 00:00:00	68	45	Offline	13
19	Zero Waste Fashion Design	18FDD3	2021-22	Elective Course	PhD	Department of Apparel and Fashion Design	3	23-02-2022 00:00:00	01-05-2022 00:00:00	68	45	Offline	1
20	Research Methodology and IPR	21LC06	2021-22	Core Course	Master	Department of Electronics and Communication Engineering	2	03-02-2022 00:00:00	30-05-2022 00:00:00	117	30	Offline	20
21	Internship II and Innovation Practices	15LS13	2020-21	Core Course	Bachelor	Department of Electronics and Communication Engineering	2	03-02-2022 00:00:00	01-05-2022 00:00:00	88	30	Offline	120
22	Innovation Practices	15C520	2020-21	Core Course	Bachelor	Department of Civil Engineering	2	17-08-2020 00:00:00	11-11-2020 00:00:00	87	60	Online	70
23	Innovation Practices	19C620	2021-22	Core Course	Bachelor	Department of Civil Engineering	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	52	Offline	80
24	Research Methodology and IPR	21CS06	2021-22	Core Course	Master	Department of Civil Engineering	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	17
25	Research Methodology and IPR	21TT06	2021-22	Core Course	Master	Department of Textile Technology	2	02-02-2022 00:00:00	18-05-2022 00:00:00	106	30	Offline	1
26	Innovation Practices	19T620	2021-22	Core Course	Bachelor	Department of Textile Technology	2	22-02-2022 00:00:00	01-05-2022 00:00:00	69	60	Offline	68

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	Course End Date	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Course
27	Entrepreneurship	15OH62	2020-21	Elective Course	Bachelor	Department of Humanities	3	28-12-2020 00:00:00	16-04-2021 00:00:00	110	45	Online	3
28	Internship-II and Innovation Practices	15R612	2020-21	Core Course	Bachelor	Department of Robotics and Automation Engineering	2	29-12-2020 00:00:00	01-04-2021 00:00:00	94	60	Online	67
29	Product Design Laboratory	15R711	2020-21	Core Course	Bachelor	Department of Robotics and Automation Engineering	2	19-07-2021 00:00:00	13-11-2021 00:00:00	118	60	Online	70
30	Design Thinking	21GW36	2021-22	Core Course	Master	PSG Institute of Management	1	25-10-2021 00:00:00	28-01-2022 00:00:00	96	30	Offline	27
31	Creativity and Innovation	21GW44	2021-22	Core Course	Master	PSG Institute of Management	3	28-02-2022 00:00:00	01-05-2022 00:00:00	63	45	Offline	27
32	Entrepreneurship in Waste Management	21GW26	2020-21	Core Course	Master	PSG Institute of Management	3	19-03-2021 00:00:00	18-06-2021 00:00:00	92	45	Offline	27
33	Innovation Practices	15I620	2020-21	Core Course	Bachelor	Department of Information Technology	2	26-04-2021 00:00:00	27-08-2021 00:00:00	124	60	Online	135
34	Research Methodology and IPR	21NN06	2021-22	Core Course	Master	Department of Information Technology	2	03-02-2022 00:00:00	01-05-2022 00:00:00	88	30	Offline	7
35	Innovation Practices	19I620	2021-22	Core Course	Bachelor	Department of Information Technology	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	130
36	ENTREPRENEURSHIP	15AH08	2021-22	Elective Course	Bachelor	DEPARTMENT OF AUTOMOBILE ENGINEERING	3	27-07-2021 00:00:00	25-11-2021 00:00:00	122	45	Offline	64
37	ENTREPRENEURSHIP ESSENTIALS	15MH08	2020-21	Elective Course	Bachelor	DEPARTMENT OF MECHANICAL ENGINEERING	3	02-12-2020 00:00:00	16-04-2021 00:00:00	136	45	Online	89
38	ENTREPRENEURSHIP	15MXED	2020-21	Elective Course	Master	DEPARTMENT OF COMPUTER APPLICATIONS	3	02-12-2020 00:00:00	16-04-2021 00:00:00	136	45	Online	2
39	INNOVATION AND LEADERSHIP MANAGEMENT	15PH09	2020-21	Elective Course	Bachelor	DEPARTMENT OF PRODUCTION ENGINEERING	3	28-12-2020 00:00:00	16-04-2021 00:00:00	110	45	Online	33
40	ENTREPRENEURSHIP	15TH13	2021-22	Elective Course	Bachelor	DEPARTMENT OF TEXTILE TECHNOLOGY	3	19-07-2021 00:00:00	13-11-2021 00:00:00	118	45	Offline	3
41	ENTREPRENEURSHIP IN WASTE MANAGEMENT	18GW26	2020-21	Core Course	Master	MASTER OF BUSINESS APPLICATION	3	22-02-2021 00:00:00	01-05-2021 00:00:00	69	45	Online	28
42	INNOVATION PRACTICES	19A612	2021-22	Core Course	Bachelor	DEPARTMENT OF AUTOMOBILE ENGINEERING	1	21-02-2022 00:00:00	01-05-2022 00:00:00	70	30	Offline	64
43	INNOVATION PRACTICES	19E620	2021-22	Core Course	Bachelor	DEPARTMENT OF ELCTRICAL AND ELECTRONICS ENGINEERING	1	21-02-2022 00:00:00	01-05-2022 00:00:00	70	30	Offline	71
44	INNOVATION PRACTICES	19H620	2021-22	Core Course	Bachelor	DEPARTMENT OF FASHION TECHNOLOGY	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	64
45	INNOVATION PRACTICES	19L620	2021-22	Core Course	Bachelor	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	136
46	INNOVATION PRACTICES	19M612	2021-22	Core Course	Bachelor	DEPARTMENT OF MECHANICAL ENGINEERING	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	140
47	INNOVATION PRACTICES	19Y611	2021-22	Core Course	Bachelor	DEPARTMENT OF METALLURGICAL ENGINEERING	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	65
48	INNOVATION PRACTICES	19Z620	2021-22	Core Course	Bachelor	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING	2	21-02-2022 00:00:00	01-05-2022 00:00:00	70	60	Offline	136

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	Course End Date	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Course
49	RESEARCH METHODOLOGY AND IPR	21AE06	2021-22	Core Course	Master	DEPARTMENT OF AUTOMOBILE ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	4
50	RESEARCH METHODOLOGY AND IPR	21EA06	2021-22	Core Course	Master	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	2
51	RESEARCH METHODOLOGY AND IPR	21EE06	2021-22	Core Course	Master	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	14
52	RESEARCH METHODOLOGY AND IPR	21ED06	2021-22	Core Course	Master	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	8
53	RESEARCH METHODOLOGY AND IPR	21LN06		Core Course	Master	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	7
54	RESEARCH METHODOLOGY AND IPR	21LV06	2021-22	Core Course	Master	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	12
55	RESEARCH METHODOLOGY AND IPR	21MD06	2021-22	Core Course	Master	DEPARTMENT OF MECHANICAL ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	18
56	RESEARCH METHODOLOGY AND IPR	21MN06	2021-22	Core Course	Master	DEPARTMENT OF MECHANICAL ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	2
57	RESEARCH METHODOLOGY AND IPR	21SE06	2021-22	Core Course	Master	DEPARTMENT OF MECHANICAL ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	4
58	RESEARCH METHODOLOGY AND IPR	21NB06	2021-22	Core Course	Master	DEPARTMENT OF INFORMATION TECHNOLOGY	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	6
59	RESEARCH METHODOLOGY AND IPR	21PP61	2021-22	Core Course	Master	DEPARTMENT OF PRODUCTION ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	3
60	RESEARCH METHODOLOGY AND IPR	21YN06	2021-22	Core Course	Master	DEPARTMENT OF METALLURGICAL ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	4
61	RESEARCH METHODOLOGY AND IPR	21ZC06	2021-22	Core Course	Master	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING	2	02-02-2022 00:00:00	01-05-2022 00:00:00	89	30	Offline	3

## 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	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Certificate Program
1	Value Added Course on Life skills for Youth	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Biomedical Engineering	21-02-2022 00:00:00	12-03-2022 00:00:00	20	30	Online	17
2	SPARC Sponsored Online Faculty Development Programme on Circular and Sustainable Textile Design Processing and Products	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Textile Technology - Automobile Engg - PSGCT - Institute for Frontier Materials - Deakin University - Australia	28-02-2022 00:00:00	04-03-2022 00:00:00	5	40	Online	33
3	Robot Operating Systems	2020-21	Short-term Certificate Program	Self Sponsored/Supported	PSG Centre for Non formal and Continuing Education	10-10-2020 00:00:00	01-11-2020 00:00:00	23	45	Online	44
4	New Product Development and Innovation	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	PSG Institute of Management	01-06-2022 00:00:00	05-06-2022 00:00:00	5	30	Online	32

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	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Certificate Program
5	PLC HMI and SCADA Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	PSG Centre for Non Formal and Continuing Education	01-03-2021 00:00:00	05-04-2021 00:00:00	36	45	Online	44
6	Certificate Programme in WELDING AND QUALITY ENGINEERING	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Metallurgical Engineering	01-08-2022 00:00:00	30-12-2022 00:00:00	152	345	Offline	8
7	Certificate Programme in WELDING AND QUALITY ENGINEERING	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Metallurgical Engineering	03-08-2020 00:00:00	30-12-2020 00:00:00	150	345	Offline	9
8	Industrial Robot Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Robotics and Automation Engineering	30-12-2021 00:00:00	02-01-2022 00:00:00	4	30	Offline	9
9	Industrial Robot Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Robotics and Automation Engineering	02-03-2022 00:00:00	11-03-2022 00:00:00	10	30	Offline	10
10	Industrial Robot Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Robotics and Automation Engineering	14-03-2022 00:00:00	23-03-2022 00:00:00	10	30	Offline	13
11	Robo Fun	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Robotics and Automation Engineering	23-05-2022 00:00:00	03-06-2022 00:00:00	12	50	Offline	6
12	Virtual Reality and Augmented Reality Technologies and Applications	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	ECE and MCA Departments	15-11-2021 00:00:00	20-11-2021 00:00:00	6	30	Online	25
13	The value of analytics and security in healthcare	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	IT and CSE Departments	29-11-2021 00:00:00	04-12-2021 00:00:00	6	30	Online	23
14	Waste Managemen and Sustainable Development	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	PSG CARE	05-10-2020 00:00:00	16-10-2020 00:00:00	12	30	Online	25
15	Internet of Things for Beginners	2020-21	Short-term Certificate Program	Self Sponsored/Supported	PSG CARE	12-04-2021 00:00:00	21-04-2021 00:00:00	10	30	Online	20
16	Design Approaches for Modern Electric Motors	2020-21	Short-term Certificate Program	Self Sponsored/Supported	PSG CARE and EEE Department	22-11-2021 00:00:00	09-12-2021 00:00:00	18	30	Online	20
17	Ethical Hacking and Cyber Security	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	PSG CARE	03-01-2022 00:00:00	07-01-2022 00:00:00	5	30	Offline	15
18	LabVIEW Programming and Hardware Interface	2021-22	Short-term Certificate Program	Self Sponsored/Supported	PSG-NI Virtual instrumentation Centre	27-09-2021 00:00:00	01-10-2021 00:00:00	5	30	Offline	7
19	Data Analytics and Management in Bioinformatics	2020-21	Short-term Certificate Program	Central Govt. Agency	Biotechnology Computer Science and Biomedical Engineering Departments	24-12-2020 00:00:00	24-12-2021 00:00:00	366	200	Blended Mo	14
20	Block Chain Course	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Computer science and Engineering	17-05-2021 00:00:00	18-06-2021 00:00:00	33	30	Online	33
21	Executive Program in Data Analytics	2021-22	Short-term Certificate Program	Self Sponsored/Supported	PSG Institute of Management and PSG CARE	12-06-2021 00:00:00	12-06-2022 00:00:00	366	200	Online	15
22	Developing Industrial IoT dashboards using Thingworx and Kepware	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Mechanical Engineering and PSG CARE	12-04-2022 00:00:00	21-04-2022 00:00:00	10	30	Online	5
23	System Based Approach To sCO2 Waste Heat Recovery	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	PSG CARE	24-01-2022 00:00:00	28-01-2022 00:00:00	5	30	Online	18
24	Systems Approach to Pump Design and Manufacturing	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Deptment of Mechanical Engineering and PSG CARE	04-05-2021 00:00:00	22-05-2021 00:00:00	19	30	Online	35
25	Cyber Security	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Information Technology and PSG CARE	14-03-2020 00:00:00	28-11-2020 00:00:00	260	60	Blended Mo	20

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	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery	Total Numbers of Beneficiaries/Participants Undergone the Certificate Program
26	Data Science	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Computer Science Engineering and PSG CARE	14-03-2020 00:00:00	28-11-2020 00:00:00	260	60	Blended Mo	20
27	Introduction to Electromagnetic compatibility - EMI and EMC Testing	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	PSG CARE in association with PSG STEP	18-09-2020 00:00:00	22-09-2020 00:00:00	5	30	Online	14
28	Building Deep Learning Models Using Python	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Computer Science Engineering and Computer Applications Department	06-09-2021 00:00:00	11-09-2021 00:00:00	6	30	Online	27
29	Developing 3D modeling using Creo and Creo Illustrator	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Mechanical Engineering and PSG CARE	06-06-2022 00:00:00	10-06-2022 00:00:00	5	30	Offline	5
30	Cyber Security and Data Science	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Information Technology and Computer Science Engineering in association with PSG CARE	13-02-2021 00:00:00	09-10-2021 00:00:00	239	150	Online	20

### 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	Govt. Schemes
1	Tinkering Lab	Tinkering Lab	Dr Sridhar R	
2	EDC	Advanced Machine Tool Research Centre	Mr K Sadesh	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	Govt. Schemes
1	Focus Incubation Centre	Dr. G. Thilagavathi	Other Central/State Government
2	BioNEST	Dr. K. Sureshkumar	DBT/BIRAC
3	NIDHI CoE	Dr. K Sureshkumar	DST/NSTEDB/NIDHI
4	Nanotechnology Research Innovation and Incubation Centre	Dr. K. Sureshkumar	DST/NSTEDB/NIDHI
5	PSG - STEP	Dr. K Sureshkumar	DBT/BIRAC,DST/NSTEDB/NIDHI,Other Central/State Government

#### 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	Govt. Schemes
1	IPR Cell	IPR Cell	Dr. G. Thilagavathi	Mentoring Support

### 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	Total Grants Received (from all sources)	Grant Support Received from Institution/Incubation	Awards/Acknowledgement (National/International level) Received
1	Development of Aluminium-based in-situ metal matrix composites reinforced with SiOC ceramic particles	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Krishna kumar K	Faculty	0	0	No
2	STUDIES ON THE PROPERTIES OF KENAF AND BAGASSE FIBERS REINFORCED COMPOSITES	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr Sakthivel J C	Faculty	0	0	No
3	Maps for Detection of Change in Waterbodies of Chennai City (IITB-AICTE Maphathon 2022)	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rhini R	Student	0	0	Yes
4	Design and development of non-woven structures for thermal insulation application	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	THILAGAVATHI G	Faculty	0	0	No
5	Home Automation using Google Assistant	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mr Mohan A	Faculty	0	0	No
6	MONITORING OF PHOTOVOLTAIC SYSTEM WITH SMART HYBRID INVERTER USING RASPBERRY PI	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Harish Mathura Vell	Alumni	0	0	No
7	Gait Watch - A Fall Risk Prediction and Gait Assessment Device for Elderly	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	L S Jayashree	Faculty	5900000	0	Yes
8	UPCYCLING OF FURNITURE TO INCREASE THE LIFESPAN AND DIVERSIFY ITS APPLICATION	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Dr Mariyam Adnan	Faculty	0	0	No
9	Design and Development of nonwoven corrugated structure for thermal insulation	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	THILAGAVATHI G	Faculty	0	0	No
10	Educational Content Management Using REST API	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Gayathri K	Faculty	0	0	No
11	PRODUCTION OF COTTONISED BANANA/COTTON BLENDED YARN IN ROTOR SPINNING	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	THILAGAVATHI G	Faculty	0	0	No
12	DESIGN OF LOWER LIMB REHABILITATION SYSTEM USING A SINGLE PNEUMATIC AIR MUSCLE	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	S.Udhayakumar	Faculty	0	0	No
13	"Cost effective dot-blot TAS ELISA based diagnostic kit for the simultaneous screening of multiple viruses in banana plants"	Independent Assignment/Non-academic Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Dr. P. Rani	Faculty	0	0	No
14	Predicting component failures (Caterpillar Hackathon 2022)	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr.S.Sangeetha	Faculty	0	0	Yes
15	Development of a Soot Adsorbent layer for Automobiles	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	R Murugan	Faculty	0	0	No



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	Total Grants Received (from all sources)	Grant Support Received from Institution/Incubation	Awards/Recognition (National/International level) Received
16	MICROCONTROLLER BASED SMART HELMET FOR COAL MINER'S SAFETY	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	DIVIYA BHARATHI M	Alumni	0	0	No
17	Toilet Cleaning Robot	Independent Assignment/Non-academic Study Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	Dr. Suresh M	Faculty	403000	0	No
18	SYSTEM AND METHOD FOR ENHANCED MATERIAL FLOW IN TWO POINT INCREMENTAL FORMING	Independent Assignment/Non-academic Study Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	MOHANRAJ R	Faculty	0	0	No
19	Biodegradable films for wound dressing Applications	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr.P.Ganesan	Faculty	0	0	No
20	Design and development of pre and post maternity wear with Geo cut technique	Academic Requirement/Study Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	Subathra.B	Faculty	0	0	No
21	MIND CONTROLLED PROSTHETIC ARM FOR THE UPPER LIMB AMPUTEES	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)			4	0	Yes
22	A sustainable approach of infusing glass painting with terracotta	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Thenmoz R	Faculty	0	0	No
23	Development of Squeeze Cast Pneumatic Components using Self-Lubricating Composites	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	KRISHNAKUMAR N	Faculty	0	0	No
24	Fabrication of novel Biocellulose based face mask	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	sindhu	Faculty	0	0	Yes
25	Waste Management in Textile Industry	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Subathra.B	Faculty	0	0	No
26	Sustainable Bio material for fashion application	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. R. Rathinamoorthy	Faculty	0	0	No
27	Design And Development Of Innovative Craft Products Using Bamboo	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Nirmala Varghese	Faculty	0	0	No

## 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 of 7th November 2022 )**

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No
1	COGNATICA AI Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U72900TZ2018PTC031185 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810674_cin_copy_Product8929444.PDF">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810674_cin_copy_Product8929444.PDF</a> )	<b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )
2	BOATLOAD MINDS PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	U29269TZ2018PTC030747 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810043_cin_copy_Product1795235.JPG">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810043_cin_copy_Product1795235.JPG</a> )	<b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )
3	LAMS Automation Pvt. Ltd	Private Limited Firm (Pvt. Ltd.)	U73200TZ2021PTC036343 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product4810646.JPG">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product4810646.JPG</a> )	<b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )
4	COGNATICA AI Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U72900TZ2018PTC031185 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product9243244.PDF">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product9243244.PDF</a> )	<b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )
5	AGNA INC	SME Registered Unit (Valid GST No.)	null	33AEGPS0775J1Z9 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/id">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/id</a> )
6	Embedded Shastra Solutions	SME Registered Unit (Valid GST No.)	null <b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )	33ANOPK7734L1ZH <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/id">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/id</a> )
7	Switch Mobility Pvt Ltd	Private Limited Firm (Pvt. Ltd.)	U31909KA2019PTC124998 <b>View Document</b> ( <a href="https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product6340319.pdf">https://api.mic.gov.in/uploads/institutes/innovationcontest/images/innovationcontest/idea/IC201810412_cin_copy_Product6340319.pdf</a> )	<b>View Document</b> ( <a href="https://api.mic.gov.in/null">https://api.mic.gov.in/null</a> )

**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
1	SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCE & TECHNOLOGY, TRIVANDRUM	Govt. Agency (Central)	2	Active	31-01-2022
2	HIKO TECHNOLOGIES	Corporate/Industry Association	3	Active	05-03-2021
3	THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA	Corporate/Industry Association	3	Active	12-08-2021
4	GENOMATICS PVT LTD	Corporate/Industry Association	3	Active	27-07-2021

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on
5	TERRACARB PRIVATE LIMITED	Non Govt. Agency	1	Closed	30-03-2021
6	ALAGAR RESINS PVT LTD	Corporate/Industry Association	1	Inactive	01-12-2021
7	BEST COLOUR SOLUTIONS INDIA PVT LTD	Corporate/Industry Association	3	Active	01-12-2021
8	AGNA INC	Corporate/Industry Association	5	Active	25-09-2021
9	LAKSHMI ENVIROTECH SYSTEMS PRIVATE LTD	Corporate/Industry Association	3	Active	11-12-2021
10	NASSCOM Foundation	Corporate/Industry Association	01	Closed	02-12-2020
11	Maxbyte Technologies Pvt Ltd	Non Govt. Agency	1	Active	27-08-2021

## 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	MATERIAL CRASH TESTING MACHINE	Design	326848-001	06-02-2020	No

### 7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	AUTOMATED PERIPHERAL NEUROANALYSER (PNA)	202141000834	08-01-2021

### 7.3 & 7.4) 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	3563/CHE/2013	ADVANCED TAMIL KEYBOARD	08-09-2013	Granted	2021	Applicant
2	3442/CHE/2014	A FOLDABLE MECHANISM FOR A BICYCLE	07-11-2014	Granted	2021	Co-Applicant
3	3751/CHE/2014	INTELLIGENT METERING AND CONTROLLING SYSTEM FOR TRANSFORMERS	31-07-2014	Granted	2021	Co-Applicant
4	1938/CHE/2014	APPARATUS FOR MONITORING AND CONTROLLING DIMENSIONAL VARIATIONS IN MACHINING PROCESS OF A WORKPIECE	13-04-2014	Granted	2020	Co-Applicant
5	2288/CHE/2012	ONION PEELER	06-07-2012	Granted	2020	Co-Applicant
6	793/CHE/2014	NETTLE POLYMER HYBRID COMPOSITE	19-02-2014	Granted	2020	Co-Applicant
7	1072/CHE/2012	AUTOMATIC INFUSION MONITORING SYSTEM	23-03-2012	Granted	2020	Co-Applicant
8	1386/CHE/2014	A WHEELCHAIR ASSEMBLY FOR CLIMBING A STAIRCASE	15-03-2014	Granted	2020	Co-Applicant
9	646/CHE/2014	AUTOMATED SYSTEM AND METHOD FOR CONTROLLING A VALVE OF A LPG CYLINDER	02-11-2014	Granted	2021	Co-Applicant
10	202141006604	SYSTEM AND METHOD FOR ENHANCED MATERIAL FLOW IN TWO POINT INCREMENTAL FORMING	17-07-2021	Published	2021	Applicant
11	202141046225	POWDER HANDLING SYSTEM FOR DIRECT LASER METAL DEPOSITION	11-10-2021	Published	2021	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	201841036435	PORTABLE ENERGY CONVERSION DEVICE	03-04-2020	Published	2020	Applicant
13	201841040852	WOUND DRESSING MATERIAL USING BIO-SYNTHESIZED ZINC OXIDE (ZNO) NANOPARTICLES	01-05-2020	Published	2020	Applicant
14	201941008849	A WELDING APPARATUS	19-09-2020	Published	2020	Applicant
15	201941042928	DEVICE AND METHOD OF CREATING A THREE DIMENSIONAL (3D) CIRCULAR MICROCHANNEL	23-04-2021	Published	2021	Applicant
16	201941029510	TOOL EQUIPPED WITH A FLOATING MECHANISM FOR DEBURRING A WORK PIECE	29-01-2021	Published	2021	Applicant
17	201941053600	SYSTEM AND METHOD FOR PREDICTING A FALL STATE AND A GAITWELLNESS OF A PERSON	31-01-2020	Published	2020	Applicant
18	202041007455	ALUMINIUM NANO-HYBRID COMPOSITE PISTON RINGS FOR DIESEL ENGINES	28-02-2020	Published	2020	Other(Individual)
19	202041041171	A DEVICE FOR LOW POWER SIGNAL ACQUISITION AMPLIFIER METHOD FOR BIOMEDICAL APPLICATIONS	02-10-2020	Published	2020	Other(Individual)
20	202041009311 A	ARTIFICIAL INTELLIGENCE BASED ASSISTIVE DEVICE FOR FITNESS AND REHABILITATION APPLICATIONS	04-03-2020	Published	2021	Applicant

### 7.5) 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	Date of Transferred Technology
1	Gait Watch - A Gait Assessment and Fall Prediction Device	IP/Patented Technology	PSG College of Technology	Industry	Mr P Sureshkumar	07-01-2022
2	Smart Energy IoT meter and Energy Management System with Energy Audit software package	Non-IP/Non-Patented Technology	PSG College of Technology	Industry	Dr R Chitra	12-05-2022