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:	Prof. J.Senthil
Designation:	Associate 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
IIC 2.0 (2019-20)	5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	4

Contact:

IIC President of the Institute:	Dr.L.Prabhu
Designation:	Associate Professor

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.K.Boopathy	Advance	6
2	N.Lakshminarayanan	Advance	4
3	L.PRABHU	Advance	7
4	Dr. L. Chitra	Advance	3
5	R Praveen	Advance	2
6	B.SELVA BABU	Advance	0
7	JENSIE ANITA S	Advance	0
8	Kavitha Kumari.K.S	Advance	0
9	SATHIYARAJ.S	Advance	0
10	LEELAVATHY SIVAKUMAR	Advance	0
11	Dr.S.Sangeetha	Advance	1
12	VAIDEVI C	Advance	0
13	D.PARTHIBAN	Advance	0
14	R KARTHIKEYAN	Advance	0
15	S.Prakash	Advance	3
16	R.Mahesh	Advance	0
17	SURIYA PA	Advance	2
18	K.Naveenkumar	Advance	0
19	Jaichandran R	Advance	0
20	Balaji D	Advance	0
21	T. Sudhan	Basic	0
22	Prabhakaran V	Basic	0
23	B. Prabasheela	Basic	0
24	P.Subathra	Basic	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
25	RAJAT KUMAR DWIBEDI	Basic	1
26	VIJAY. J	Basic	1
27	RATTAN KUMAR V	Basic	0
28	B.Parvathi Sangeetha	Basic	0
29	Dr.M.SaravanaKumar	Basic	0
30	D Arul Valan	Basic	0
31	Vijayan D S	Advance	0
32	Kavitha Kumari.K.S	Advance	1
33	Dr.S.Muthuselvan	Advance	0
34	Dr.Solainayagi	Advance	0
35	Dr. P. S. Aravind Raj	Advance	2
36	Dr.R.Divahar	Basic	2
37	Dr.L.K.Hema	Advance	1
38	Dr.R.Mohana Priya	Advance	0
39	Dr.R.NagaLakshmi	Advance	0
40	Dr.R.Devika	Advance	0
41	Dr.M.Prabhahar	Advance	0
42	Dr.Adimoolam	Basic	0
43	Dr.M.SaravanaKumar	Advance	1

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-10224	Yes
HEI Participated in the Smart India Hackathon (2022)	C-10224	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	Co St Da
1	REVERSE ENGINEERING	17MESE14	2020-21	Elective Course	Bachelor	Mechanical Engineering	3	20 20 00
2	MICRO AND NANO MACHINING	17MESE23	2020-21	Elective Course	,Bachelor	Department of Mechanical Engineering	3	20 20 00
3	REFRIGERATION AND AIR CONDITIONING	17MESE28	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
4	FAILURE ANALYSIS OF MATERIALS	17MESE34	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
5	ENERGY CONSERVATION AND MANAGEMENT	17MESE02	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
6	AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS	17ATCC04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
7	NEW GENRATION AND HYBRID VEHICLES	17ATEC02	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
8	NON DESTRUCTIVE TESTING	17MEPI04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
9	INDUSTRIAL AUTOMATION	17MECC16	2020-21	Core Course	Bachelor	Department of Mechanical Engineering	3	20 20 00
10	FUEL CELL TECHNOLOGY	17ATEC12	2020-21	Core Course	Bachelor	Department of Mechanical Engineering	3	20 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
11	LEAN MANUFACTURING SYSTEMS AND IMPLEMETATION	40217301	2020-21	Elective Course	Master	Department of Mechanical Engineering	3	20 20 00
12	DESIGN FOR MANUFACTURE AND ASSEMBLY	40217208	2020-21	Elective Course	Master	Department of Mechanical Engineering	3	20 20 00
13	NOISE VIBRATION AND HARSHNESS	17MEPI03	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
14	FAILURE MODE AND EFFECTS ANALYSIS	17MESE11	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
15	PROCESS PLANNING AND COST ESTIMATION	17MESE19	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
16	CRYOGENIC ENGINEERING	17MESE28	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
17	NANOSTRUCTURED MATERIALS AND APPLICATIONS	17MESE35	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
18	VEHICLE MAINTENANCE	17ATSE04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
19	HYDROGEN AND FUEL CELL TECHNOLOGY	17MESE03	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
20	GEOMETRIC MODELLING	17MESE13	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
21	COMBUSTION ENGINEERING	17MESE24	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
22	EMERGING MATERIALS	17MESE33	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
23	LEAN MANUFACTURING SYSTEMS	17MESE39	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
24	AUTOMOTIVE POLLUTION CONTROL	17ATSE02	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
25	RENEWABLE SOURCES OF ENERGY	17MESE04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
26	NEW GENERATION AND HYBRID VEHICLES	17ATEC02	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	07 20 00
27	NON-DESTRUCTIVE EVALUATION	40221P05	2020-21	Elective Course	Master	Department of Mechanical Engineering	3	07 20 00
28	ENGINEERING STARTUPS AND ENTERPREUNERSHIP MANGEMENT	17MBHS01	2020-21	Core Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
29	INDUSTRIAL AUTOMATION	17MECC16	2021-22	Core Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
30	DESIGN FOR MANUFACTURING AND ASSEMBLY	17MESE10	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
31	PROCESS PLANNING AND COST ESTIMATION	17MESE49	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
32	POWER PLANT ENGINEERING	17MESE27	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
33	COMPOSITE MATERIALS	17MESE32	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
34	INDUSTRIAL ENGINEERING	17MESE38	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
35	NUCLEAR POWER ENGINEERING	17MESE07	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
36	NEW GENRATION AND HYBRID VEHICLES	17ATEC02	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
37	NON DESTRUCTIVE TESTING	17MEPI04	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
38	FUEL CELL TECHNOLOGY	17ATEC12	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
39	MODERN AUTOMOBILE ACCESSORIES	17ATCEC03	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
40	INDUTRIAL ROBOTICS	17MEEC24	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	06 20 00
41	NOISE VIBRATION AND HARSHNES	17MEPI03	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
42	HYDROGEN AND FUEL CELL TECHNOLOGY	17MESE03	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
43	FAILURE MODE AND EFFECTS ANALYSIS	17MESE11	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
44	RAPID PROTOTYPING AND TOOLING	17MESE20	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
45	CRYOGENIC ENGINEERING	17MESE28	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
46	NANOSTRUCTURED MATERIALS AND APPLICATIONS	17MESE35	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
47	VEHICLE MAINTENANCE	17ATSE04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
48	NON DESTRUCTIVE TESTING	17MEPI04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
49	ENERGY CONSERVATION AND MANAGEMENT	17MESE02	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
50	AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS	17ATCC04	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
51	MICRO AND NANO MACHINING	17MESE23	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
52	REFRIGERATION AND AIR CONDITIONING	17MESE28	2020-21	Elective Course	Bachelor	Department of Mechanical Engineering	3	17 20 00
53	NON-DESTRUCTIVE TESTING AND EVALUATION	40221P05	2020-21	Elective Course	Master	Department of Mechanical Engineering	3	07 20 00
54	LEAN MANUFACTURING	40221P02	2020-21	Elective Course	Master	Department of Mechanical Engineering	3	07 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
55	SOFTWARE TESTING (PROGRAMME SPECIFIC ELECTIVE)	17CSEC36	2020-21	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
56	ETHICAL HACKING (PROGRAMME SPECIFIC ELECTIVE)	17CSSE06	2020-21	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
57	DISASTER MITIGATION AND MANAGEMENT (OPEN ELECTIVE)	17CVEC07	2020-21	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
58	MOBILE APPLICATION DEVELOPMENT (INDUSTRY ELECTIVE)	17CSP110	2020-21	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
59	SOFT COMPUTING (PROGRAMME SPECIFIC ELECTIVE)	17CSEC27	2020-21	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
60	AIR POLLUTION MANAGEMENT (OPEN ELECTIVE)	17CVEC37	2020-21	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
61	BUSINESS INTELLIGENCE AND ITS APPLICATIONS (INDUSTRY ELECTIVE)	17CSPI04	2020-21	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
62	BIG DATA ANAYTICS (PROGRAMME SPECIFIC ELECTIVE)	17MECC16	2020-21	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
63	SOFTWARE TESTING (PROGRAMME SPECIFIC ELECTIVE)	17CSEC36	2021-22	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
64	DISASTER MITIGATION AND MANAGEMENT (OPEN ELECTIVE)	17CVEC07	2021-22	Elective Course	Bachelor	Deparement of CSE	3	06 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
65	MOBILE APPLICATION DEVELOPMENT (INDUSTRY ELECTIVE)	17CSP110	2021-22	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
66	SOFT COMPUTING (PROGRAMME SPECIFIC ELECTIVE)	17CSEC27	2021-22	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
67	AIR POLLUTION MANAGEMENT (OPEN ELECTIVE)	17CVEC37	2021-22	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
68	BUSINESS INTELLIGENCE AND ITS APPLICATIONS (INDUSTRY ELECTIVE)	17CSPI04	2021-22	Elective Course	Bachelor	Deparement of CSE	3	06 20 00
69	BIG DATA ANAYTICS (PROGRAMME SPECIFIC ELECTIVE)	17MECC16	2021-22	Elective Course	Bachelor	Deparement of CSE	3	17 20 00
70	ENGINEERING STARTUPS AND ENTREPRENEURIAL MANAGEMENT	17MBHS01	2021-22	Core Course	Bachelor	Management	3	17 20 00
71	MOBILE APPLICATION DEVELOPMENT	17CSEC40	2021-22	Elective Course	Bachelor	Computer Science	3	17 20 00
72	ADVANCED MICROPROCESSOR	17ECPI03	2021-22	Elective Course	Bachelor	Electronics	3	17 20 00
73	EMBEDDED SYSTEMS ARCHITECTURE	17ECSE03	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	17 20 00
74	SYSTEM ON CHIP	17ECSE06	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	17 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
75	IOT FOR INDUSTRIAL SYSTEMS	17ECSE18	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	17 20 00
76	REAL TIME OPERATING SYSTEMS	17ECSE05	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	17 20 00
77	FIBER OPTIC SENSORS AND APPLICATIONS	17ECSE16	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	17 20 00
78	VIRTUAL INSTRUMENTATION FOR ELECTRONICS	17ECPI04	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	06 20 00
79	NON CONVENTIONAL ENERGY SOURCES	17EEEC21	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	06 20 00
80	EMBEDDED CONTROL SYSTEMS	17ECSE02	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	06 20 00
81	RFID AND FLEXIBLE SENSORS	17ECSE19	2021-22	Elective Course	Bachelor	Electronics and communication Engineering	3	06 20 00
82	ENGINEERING STARTUPS AND ENTREPRENEURIAL MANAGEMENT	17MBHS01	2020-21	Core Course	Bachelor	Management	3	07 20 00
83	MOBILE APPLICATION DEVELOPMENT	17CSEC40	2020-21	Elective Course	Bachelor	Computer Science	3	07 20 00
84	ADVANCED MICROPROCESSOR	17ECPI03	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	07 20 00
85	VIRTUAL INSTRUMENTATION FOR ELECTRONICS	17ECPI04	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
86	NON CONVENTIONAL ENERGY SOURCES	17EEEC21	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00
87	IOT FOR INDUSTRIAL SYSTEMS	17ECSE18	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00
88	REAL TIME OPERATING SYSTEMS	17ECSE05	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00
89	EMBEDDED CONTROL SYSTEMS	17ECSE02	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00
90	RFID AND FLEXIBLE SENSORS	17ECSE19	2020-21	Elective Course	Bachelor	Electronics and communication Engineering	3	20 20 00
91	ENERGY CONSERVATION AND MANAGEMENT	17SASE01	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	20 20 00
92	CONVENTIONAL AND ALTERNATIVE ENERGY SYSTEMS	17EESE09	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	20 20 00
93	NON-CONVENTIONAL ENERGY SOURCE AND ITS APPLICATIONS	17EESE06	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	20 20 00
94	ELECTRIC VEHICLES	17EEEC16	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	20 20 00
95	SOLAR COLLECTORS AND THERMAL ENERGY CONVERSION	17SASE07	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	20 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
96	NON-CONVENTIONAL ENERGY SOURCE AND ITS APPLICATIONS	17EESE06	2020-21	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	06 20 00
97	ENERGY CONSERVATION AND MANAGEMENT	17SASE01	2021-22	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	06 20 00
98	ELECTRIC VEHICLES	17EEEC16	2021-22	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	06 20 00
99	CONVENTIONAL AND ALTERNATIVE ENERGY SYSTEMS	17EESE09	2021-22	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	06 20 00
100	SOLAR COLLECTORS AND THERMAL ENERGY CONVERSION	17SASE07	2021-22	Elective Course	Bachelor	Department of Electrical and Electronics Engineering	3	06 20 00
101	ECO-FRIENDLY MULTI-STOREY BUILDING	17BTEC26	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
102	ENVIRONMENT FRIENDLY PRACTICS IN CIVIL ENGINEERING	17BTEC28	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
103	HOUSING PLANNING AND MANAGEMENT	17CVEC09	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
104	TRAFFIC ENGINEERING AND MANAGEMENT	17CVEC05	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
105	PREFABRICATED STRUCTURES	17CVPI06	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
106	DISASTER MITIGATION AND MANAGEMENT	17CVEC07	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
107	WASTE WATER ENGINEERING	17CVEC36	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	20 20 00
108	ECO-FRIENDLY MULTI-STOREY BUILDING	17BTEC26	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
109	ENVIRONMENT FRIENDLY PRACTICS IN CIVIL ENGINEERING	17BTEC28	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
110	DISASTER MITIGATION AND MANAGEMENT	17CVEC07	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
111	MUNICIPAL SOLID WASTE MANAGEMENT	17CVEC57	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
112	HOUSING PLANNING AND MANAGEMENT	17CVEC09	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
113	TRAFFIC ENGINEERING AND MANAGEMENT	17CVEC05	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
114	MUNICIPAL SOLID WASTE MANAGEMENT	17CVEC35	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
115	PREFABRICATED STRUCTURES	17CVPI06	2021-22	Elective Course	Bachelor	Department of Civil Engineering	3	06 20 00
116	ENERGY EFFICIENT BUILDINGS	41421P02	2021-22	Elective Course	Master	Department of Civil Engineering	3	06 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
117	MANAGEMENT INFORMATION SYSTEM	41421O01	2021-22	Elective Course	Master	Department of Civil Engineering	3	06 20 00
118	CONSTRUCTION PERSONNEL MANAGEMENT	41421P01	2021-22	Elective Course	Master	Department of Civil Engineering	3	06 20 00
119	Health Technology Management and Economics	17BMSE05	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	02 20 00
120	MEDICAL WASTE MANAGEMENT	17BMSE23	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	02 20 00
121	INTERNET OF THINGS FOR ELECTRONICS	17ECCC18	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	02 20 00
122	WEARABLE TECHNOLOGY	17BMSE16	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	05 20 00
123	BIOMATERIALS AND ARTIFICIAL ORGANS	17BMSE15	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	05 20 00
124	OPERATION THEATRE AND ANESTHESIA TECHNOLOGY	17BMPI07	2020-21	Elective Course	Bachelor	Department of Biomedical Engineering	3	05 20 00
125	INTERNET OF THINGS FOR ELECTRONICS	17ECCC18	2021-22	Elective Course	Bachelor	Department of Biomedical Engineering	3	20 20 00
126	HOSPITAL ENGINEERING	17BMSE02	2021-22	Elective Course	Bachelor	Department of Biomedical Engineering	3	20 20 00
127	QUALITY MANAGEMENT IN HEALTHCARE	17BMSE01	2021-22	Elective Course	Bachelor	Department of Biomedical Engineering	3	15 20 00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Co St Da
128	ROBOTICS AND AUTOMATION IN MEDICINE	17BMSE18	2021-22	Elective Course	Bachelor	Department of Biomedical Engineering	3	15 20 00
129	Stem cell biology and tissue engineering	17BTEC06	2020-21	Elective Course	Bachelor	Department of Biotechnology	3	16 20 00
130	Principles of Bioifnformatics	17BTEC03	2020-21	Elective Course	Bachelor	Department of Biotechnology	3	16 20 00
131	Municiple solid waste management	17CVEC35	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	16 20 00
132	Stem cell biology and tissue engineering	17BTEC06	2020-21	Elective Course	Bachelor	Department of Biotechnology	3	17 20 00
133	Municipal solid waste management	17CVEC35	2020-21	Elective Course	Bachelor	Department of Civil Engineering	3	17 20 00

2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Pr Er Da
1	Introduction to Digital twin technology using DCS and COMOS software	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Electrical and Electronics Engineering	07-06-2021 00:00:00	11 20 00

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Pr Er D
2	Innovation-3D Printing	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Electrical and Electronics Engineering	14-06-2021 00:00:00	18 20 00
3	Grid connected and standalone PV solar plant design using PVSYST	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Electrical and Electronics Engineering	26-05-2022 00:00:00	30 20 00
4	Sustainable Energy and Clean Technology	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Electrical and Electronics Engineering	24-06-2022 00:00:00	28 20 00
5	ADVANCED LAND SURVEYING TECHNIQUES	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Dept of Civil Engineering	20-06-2022 00:00:00	24 20 00
6	VEHICLE ELECTRONIC CONTROL SYSTEM	2020-21	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF MECHANICAL ENGINEERING	08-04-2021 00:00:00	12 20 00
7	Start-Up opportunities in Additive Manufacturing	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	16-11-2020 00:00:00	20 20 00
8	Employability Enhancement Skill Development Course on ENERGY AUDITING BIO FUELS AND SOLAR ENERGY	2020-21	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF MECHANICAL ENGINEERING	13-05-2021 00:00:00	21 20 00

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Pr En Da
9	NON DESTRUCTIVE TESTING BIO FUELS AND SOLAR ENERGY	2021-22	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF MECHANICAL ENGINEERING	20-06-2022 00:00:00	24 20 00
10	PRODUCTIVE TOOLS IN AUTOCAD	2021-22	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF MECHANICAL ENGINEERING	24-06-2022 00:00:00	30 20 00
11	CLOUD DATABASE MANAGEMENT AND SECURITY	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Computer Science and Engineering	12-04-2022 00:00:00	16 20 00
12	Employability Enhancement course on Basics on Electronic Gadgets components Assembling and soldering	2021-22	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF BIOMEDICAL ENGINEERING	18-04-2022 00:00:00	22 20 00
13	Employabiltity Enhancement Course on Data Science and Analytics	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Computer Science and Engineering	15-12-2021 00:00:00	18 20 00
14	Introduction to Digital Twin Technology using DCS and COMOS Software	2020-21	Short-term Certificate Program	Self Sponsored/Supported	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	07-06-2021 00:00:00	11 20 00
15	Advanced Cyber Security	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Computer Science and Engineering	10-05-2021 00:00:00	17 20 00

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Pr En Da
16	MACHINE LEARNING APPLICATIONS	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Computer Science and Engineering	07-05-2021 00:00:00	14 20 00

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Govt. Schemes
1	Innovation Cell	AVIT Pre Incubation centre	Dr.S.Prakash	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)
2	EDC	EDC	Dr. Bubesh Kumar	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage)
3	Innovation Cell	Innovation Cell	Ms. Subapriya	
4	Startup Cell	Startup Cell	Mr. N. Lakshminarayanan	
5	Tinkering Lab	Tinkering Lab	Mr. D. Arulvalan	

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

Sr. No.	Name of Unit	In-charge Name	Govt. Schemes
1	AVIT Business Incubator	Prof.L.Prabhu	MSME,Own Resource
2	Ganesan Incubation and Entrepreneurship center	Dr.Adil A.A	CSR/Private,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	Govt. Schemes
1	IPR Cell	AVIT IPR CELL	Dr.K.Boopathy	Mentoring Support,Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage)

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
1	EASY PADS	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rajaprakash

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
2	GenAura Private Limited	Independent Assignment/Non-academic Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	Dr. Janani
3	Jaga Entreprises	Independent Assignment/Non-academic Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Mr.Jagatheesh
4	RFID INDOOR NAVIGATION SYSTEM FOR THE BLIND	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	R KARTHIKEYAN
5	Smart saline monitoring using IoT	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Ponraj M
6	INTELLIGENT WALKING STICK	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	Kavitha Kumari.K.S

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
7	CORROSION AND SURFACE MORPHOLOGICAL BEHAVIOR OF HYDROXYAPATITE COATED USING ELECTRODEPOSITION PROCESS	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr S PRAKASH
8	LOW COST SMART DUAL FUNCTION BOVINE HEAT DETECTORS	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Chitra K
9	Portable ECG	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. B.PARVATHI SANGEETHA
10	Robot For Agricultural Cutting And Weeding Purposes	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Boopathy Kannan
11	Artificial Intelligence based Rescue Robot	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	R Mohana Priya

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
12	MODIFICATION OF TWO-WHEELER ELECTRIC VEHICLE	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Dr.M.Saravana kumar
13	RAILWAY TRACK CRACK DETECTION SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	S.ASHOKKUMAR
14	GPS Based Smart Stick To Assist Sightless People	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	R Mohana Priya
15	DESIGNING AND TESTING OF SIGNAL JAMMER	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Ganesh Kumar.P
16	SELF-HEALING IN SELF COMPACTING CONCRETE USING SPECIAL BACTERIA	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	VAIDEVI C

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
17	WASTE MANAGEMENT SYSTEM IN VEHICLES	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	M.K.MANOBALA
18	Design and Implementation of a Stress Detection Technique using Bio Signals and Machine Learning Algorithms	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	P SOLAINAYAGI
19	DESIGN OF LOW COST PORTABLE MECHANICAL VENTILATOR	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Selva Babu B
20	comprehensive study on Respiratory parameters using Bluetooth enabled multi-layered COVID mask; A preventive measure	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mohana S
21	Chronic Kidney Disease Prediction By Using Different Feature Selection And Machine Learning Techniques	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	P SOLAINAYAGI

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
22	Design and fabrication of an affordable E-Cycle	Academic Requirement/Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	RATTAN KUMAR V
23	Smart Farming Technology	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	S Prakash
24	Robot for ploughing	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	A ELANTHIRAIYAN
25	LIFI based Data Transmission	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	AJIT KUMAR YADAV
26	Remote controlled solar power grass cutting machine	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	Dr. B.PARVATHI SANGEETHA

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
27	IOT ENABLED CONTROL VALVE	Academic Requirement/Study Project	2020-21	TRL 5 : Large scale prototype tested in intended environment	ponraj
28	Portable solar tree	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 9 : Full commercial application, technology available for consumers	Ponraj M
29	SMART CONTACTLESS COVID SCREENING AND DATA ACQUISITION SYSTEM	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	R Mohana Priya
30	Drainage pipe cleaning equipment	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	KALYANAKUMAR S
31	NOVEL TORCHLIGHT USING RENEWABLE SOURCE FOR RURAL AREA	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	veeramuneeswaran

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
32	SUSTAINABLE SEWAGE CLEANING SYSTEM	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	P.Kumaran
33	Kinetic modelling and experimental study on Split Injection Strategies for ECU Controlled CI engines	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr M Prabhahar
34	Anti-cancer activity of Rhinacanthus nasutus	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	NIRMALA A
35	DESIGN AND FABRICATION OF FMS BASED LINE FOLLOWER GUIDED VEHICLE	Academic Requirement/Study Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	SAMUVEL MICHAEL.B
36	Preparation of collagen particles from fish waste infused with cassia auriculata for wound healing	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	NIRMALA A

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
37	Developing Machine Learning Models for Breast Cancer Prediction and Classifications	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rajaprakash
38	DESIGN AND FABRICATION OF AUTOMATIC SQUEEZING MACHINE FOR FOOD INDUSTRIES	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	A.IMTHIYAS
39	Automatic Anaesthesia Regulation System (Aars) With Patient Monitoring Module using Multitask Feedback Network	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sakthi.G
40	Ultra Violet Sanitizing Robot	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr.L.Prabhu
41	Manufacturing of Eco-Friendly Vegetable extract Edible cups	Independent Assignment/Non-academic Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Suriya Pa

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
42	RANKING THE FACTORS FOR SUICIDE AMONG PEOPLE IN INDIA USING INTUITIONISTIC FUZZY SET	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rajaprakash
43	LOW COST VENTILATOR WITH ADJUSTABLE HEART RATE MONITORING SYSTEM	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mohana S
44	AFFORDABLE COMMERCIAL 3D PRINTER BASED ON FILAMENT FABRICATION	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SARAVANAN M

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
1	3E POWERFLY PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	U31909TN2022PTC151760 **View Document (https://api.mic.gov.in//uploads/institutes/innovationconte Place8904904.PDF)**
2	K3L2CANDLELIGHT INDIA PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	GIEC-K3-SD-03 **View Document (https://api.mic.gov.in//uploads/institutes/innovationconte**
3	GeneAura Pvt LTd	Private Limited Firm (Pvt. Ltd.)	U85100TN2021PTC14186 **View Document (https://api.mic.gov.in//uploads/institutes/innovationconte**

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	ICT ACADEMY	Govt. Agency (State)	2021	Active	01-04-2021

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on
2	Tesla Minds Research and Training Company - Chennai	Educational Institute	2021	Active	07-06-2021

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	Drone for fire extinguisher	Design	339286-001	18-02-2021	Yes
2	Spherical shape vibration isolator	Design	344329-001	07-06-2021	Yes
3	GO KART	Design	334631-001	26-10-2020	Yes
4	IOT ENABLED CONTROL VALVE	Design	351975-001	25-10-2021	Yes
5	SERVICE ROBOT FOR COVID 19 ISOLATION WARD	Design	348402-001	26-08-2021	Yes

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	DISSOVING COVER BLOCK FOR CONCRETE	202141012648	24-03-2021
2	OUTER THREAD COUPLER FOR REINFORCEMENT BARS	202141012652	24-03-2021
3	PREGAID-A WEARABLE DEVICE FOR CONTINUOUS HEALTH MONITORING OF PREGNANT WOMAN AND FETUS	202141012658	24-03-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
4	IOT BASED HANDHELD DATA LOGGER DEVICE FOR COVID-19	202141012653	24-03-2021
5	CORRUGATED COMPOSITE CORBEL	202141012649	24-03-2021
6	AI and IOT Sensor based portable vacuum swing adsorption nano zeolite oxygen concentrators	202141033637	27-07-2021
7	Nanocomposite helmet for Military application	202141012656	07-03-2021

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	201941044563	Solar Powered Unmanned Aerial Vehicle (UAE) for coconut Cutting	04-11-2019	Published	2019	Applicant
2	201941044567	Design of Repellent stick to safe Guard Humans in Farming Land from Snakes	04-11-2019	Published	2019	Applicant
3	201941044584	E-Green Tower	04-11-2019	Published	2019	Applicant
4	201941044591	Non-Structural Crack Arresting Mini Brick	04-11-2019	Published	2019	Applicant
5	201941044572	Solar PV FED Portable UPS using switched auxiliary resonant converter	04-11-2019	Published	2019	Applicant
6	201941044569	Geometrical Modifications of Switched Reluctance Motor for an Electric Vehicle	04-11-2019	Published	2019	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
7	202141006550A	Utilization of Burr Wastes as Micro-Reinforcements in Concrete to Overcome Disposal of Hazardous Materials in Global Environment	17-02-2021	Published	2021	Other(Individual)
8	202141009032	Smart Contact Lens for Monitoring Glucose and Eye Pressure	04-03-2021	Published	2021	Other(Individual)
9	202041056676	IoT based smart device for pollution control and traffic management system	28-12-2020	Published	2020	Other(Individual)
10	202141020435	Semi Automatic paper cutting machine using Geneva mechanism and Industrial (IIOT)	05-05-2021	Published	2021	Other(Individual)
11	202041053460	The middleware in Internet of Things (IoT) for Bridging Heterogeneity between Devices Connected in Network	08-12-2020	Published	2020	Other(Individual)
12	202041030656	A System and Method for Scheming Water Sustainability Index of Water Bodies Through Satellite Imagery	18-07-2020	Published	2020	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
13	2021-102319	Electric Hybrid power source for vehicles using weightless internal combustion engine	14-07-2021	Granted	2021	Other(Individual)
14	2021100664	Quasi-Static Cyclic Load Performance Testing Method of Encased Concrete-Filled Steel Tubular with Steel Loops Joint	07-04-2021	Granted	2021	Applicant
15	2020104412	Manufacture of green concrete by partial replacement of ferrock powder as an alternative to conventional cement	31-03-2021	Granted	2021	Applicant
16	2021100172	IOT based solar energy detection with crescent dunes	01-10-2021	Granted	2021	Other(Individual)
17	2021102089	Estimation of Biomarkers for adaptive immunity in infectious diseases using smart IoT sensors and deep learning	26-05-2021	Granted	2021	Other(Individual)
18	2021101539	System and method for indoor clothes dryer using direct transportation of solar light	28-04-2021	Granted	2021	Other(Individual)

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
19	2021103546	Hybrid network for real time tracking using machine to machine communication	21-07-2021	Granted	2021	Other(Individual)
20	2020102967	A parallel series electric hybrid vehicles based on geometry formulation	09-12-2020	Granted	2020	Other(Individual)
21	2020102663	Cooperative sensing, Communication and control of IoT Network using machine learning algorithms	23-12-2020	Granted	2020	Other(Individual)
22	2020102681	Effective Communication System for Disabled Person using Neuro Signals	23-12-2020	Granted	2020	Other(Individual)
23	2020101786	Indoor Channel Statistic Properties Prediction using Radial Basis Function Neural Network (RBF-NN) for 5G and Beyound (B5G) Networks	09-09-2020	Granted	2020	Other(Individual)
24	202041048454 A	Ship Detection System from the SAR images by Saliency Segmentation	13-11-2020	Published	2020	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
25	202041047525 A	Improved Energy - Efficient faulty information extraction system and method	06-11-2020	Published	2020	Other(Individual)
26	202041047385 A	Conversion Based Fault Identifier in Three Phase Transformer using Wavelet Transform Technique	06-11-2020	Published	2020	Other(Individual)
27	202041048505 A	Imlementation of Smart Farming of Irrigation, Weed and Pesticide Detecting Cyborg	13-11-2020	Published	2020	Applicant
28	202041034656 A	New composition and making of bricks from plant-fibres and waste byproducts	04-09-2020	Published	2020	Other(Individual)
29	201841036198	ECO friendly solid Mosquito Repellent	03-04-2020	Published	2020	Applicant
30	201841036214	Wearable Technology for Blind People commutation using Ultrasonic Mapping	03-04-2020	Published	2020	Applicant
31	201841036193	Energy Scavenging using NIFTY Floor Tiles	03-04-2020	Published	2020	Applicant
32	201841036204	Design of Hybrid wind Turbine using Magnato Resistive Technique	03-04-2020	Published	2020	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
33	201841036210	Self Power Generation in normal cycling system with out battery using Novel Converter	03-04-2020	Published	2020	Applicant
34	201841036196	Hand Driven Car for the Differently abled and Elderly people	03-04-2020	Published	2020	Applicant
35	201841036213	Speedballs Manufacturing Process	03-04-2020	Published	2020	Applicant
36	201841036201	Nanocarbon Based Highly Flexible Electrodes for Energy storage devices	03-04-2020	Published	2020	Applicant
37	201841036209	Prototype to Monitor and Display Energy units consumed with period of consumption and Energy cost	03-04-2020	Published	2020	Applicant
38	202141054669	DIGITALIZATION OF HIGHWAY ROADS FOR SUSCEPTIBLE ROAD SAFETY EXPANSION WITH INTELLECTUAL IOT SENSORS AND MACHINE LEARNING	26-11-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
39	202141038055	Collaborative network security for massive Machine Type Communications using ultra-dense cellular networks	23-08-2021	Published	2021	

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
1	Portable Solar Powered UPS	IP/Patented Technology	Dr. Parvathi Sangeetha	Industry	M/s Selva Engineering Enterprises
2	Remote Controlled Solar Powered Grass Cutting Machine	IP/Patented Technology	Dr. Parvathi Sangeetha	Industry	M/s Selva Engineering Enterprises
3	Ultra Violet Light Sanitizing Robot	Non-IP/Non-Patented Technology	Mr. R. Praveen	Industry	M/s. Corner Stone
4	Voice Enabled Thermometer and Sanitizer Console	Non-IP/Non-Patented Technology	Dr. L.Chitra	Industry	M/s Corner Stone