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LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING [ARI-C-17889][C-17889]

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.A.Narendra Babu
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Designation:	Professor and Convener to Incubation centre
Email ID:	narendraalur@gmail.com
Mobile No.	9160981125

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)	1.5
IIC 3.0 (2020-21)	2.5
IIC 4.0 (2021-22)	0 (On Progress)

Contact:

IIC President of the Institute:	Dr.K.Apparao
Designation:	Principal
Email ID:	principal@lbrce.ac.in
Mobile No.	8333905791

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.A.Narendra Babu	Advance	1
2	Dr.T.Rajasekhar	Advance	1
3	Pinnamaneni dileep kumar	Advance	0
4	M. Sivasankara Rao	Advance	1
5	Dr.P.Rakesh kumar	Basic	1

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
6	P Siva Reddy	Basic	0
7	B. Sivarama Krishna	Basic	1
8	K.Michael Sadgun Rao	Basic	0
9	K.Harish Kumar	Advance	1
10	A.Dhanunjay Kumar	Basic	1
11	A.V.Ravi Kumar	Basic	0
12	T.Kalpana	Basic	1
13	Dr.A.V.G.A.Marthanda	Advance	1
14	Dr Y.S.V.Raman	Basic	1
15	Dr. Kavuluru Venu Gopal	Basic	1
16	SASI BHUSHAN. K	Basic	1
17	Dr.D.Venkata Subbaiah	Basic	1
18	O.Venkata Siva	Basic	1
19	V.Dhana Raju	Basic	1
20	K.V.Viswanadh	Basic	1
21	J.Eeswar Ram	Basic	1
22	S.K.Saida	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-17889	Yes
HEI Participated in the Smart India Hackathon (2022)	C-17889	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
1	Management perspectives and organizational behavior	20MB01	2020-21	Core Course	Master	MBA	4
2	Managerial Economics	20MB02	2020-21	Core Course	Master	mba	4
3	Quantitative analysis for business decisions	20MB04	2020-21	Core Course	Master	MBA	4
4	Legal and Business Environment	20MB05	2020-21	Core Course	,Master	MBA	4
5	Human Resource Management	20MB08	2020-21	Core Course	Master	MBA	4
6	Operations Management	20MB10	2020-21	Core Course	,Master	MBA	4
7	Business Analytics	20MB81	2020-21	Elective Course	,Master	MBA	3
8	Business Policy and Strategic Management	20MB12	2021-22	Core Course	,Master	MBA	4
9	e-Business	20MB13	2020-21	Core Course	Master	MBA	4
10	Strategic Financial Management	20MB16	2020-21	Elective Course	Master	MBA	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
11	Leadership and Team Building	20MB19	2020-21	Elective Course	,Master	MBA	3
12	Service Marketing and Retail Management	20MB20	2020-21	Elective Course	,Master	MBA	3
13	Social Media and Digital Marketing	20MB22	2020-21	Elective Course	,Master	MBA	3
14	Entrepreneurship and Startup Management	20MB29	2020-21	Core Course	Master	MBA	4
15	Business Ethics and Corporate Governance	20MB30	2020-21	Core Course	Master	MBA	4
16	Financial Derivatives	20MB32	2020-21	Elective Course	Master	MBA	3
17	International Human Resource Management	20MB34	2020-21	Elective Course	,Master	MBA	3
18	Management of Change	20MB35	2020-21	Elective Course	Master	MBA	3
19	Sales and Distribution Management	20MB37	2020-21	Elective Course	,Master	MBA	3
20	Management perspectives and organizational behavior	20MB01	2021-22	Core Course	Master	MBA	4
21	Managerial Economics	20MB02	2021-22	Core Course	Master	MBA	4

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
22	Quantitative analysis for business decisions	20MB04	2021-22	Core Course	Master	MBA	4
23	Legal and Business Environment	20MB05	2021-22	Core Course	Master	MBA	4
24	Human Resource Management	20MB08	2021-22	Core Course	Master	MBA	4
25	Operations Management	20MB10	2021-22	Core Course	Master	MBA	4
26	Business Analytics	20MB81	2021-22	Elective Course	Master	MBA	3
27	Business Policy and Strategic Management	20MB12	2021-22	Core Course	Master	MBA	4
28	e-Business	20MB13	2021-22	Core Course	Master	MBA	4
29	Strategic Financial Management	20MB16	2021-22	Elective Course	Master	MBA	3
30	Leadership and Team Building	20MB19	2021-22	Elective Course	Master	MBA	3
31	Service Marketing and Retail Management	20MB20	2021-22	Elective Course	Master	MBA	3
32	Social Media and Digital Marketing	20MB22	2021-22	Elective Course	Master	MBA	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
33	Entrepreneurship and Startup Management	20MB29	2021-22	Core Course	Master	MBA	4
34	Business Ethics and Corporate Governance	20MB30	2021-22	Core Course	Master	MBA	4
35	Financial Derivatives	20MB32	2021-22	Elective Course	Master	MBA	3
36	International Human Resource Management	20MB34	2021-22	Elective Course	Master	MBA	3
37	Management of Change	20MB35	2021-22	Elective Course	Master	MBA	3
38	Sales and Distribution Management	20MB37	2021-22	Elective Course	Master	MBA	3
39	Numerical Methods and Fourier Analysis	17FE07	2020-21	Core Course	Bachelor	AEROSPACE ENGINEERING	3
40	Engineering Fluid Mechanics	17AE01	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
41	Engineering Thermodynamics	17AE02	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
42	Environmental Science	17FE03	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
43	Probability and Statistics	17FE08	2020-21	Core Course	,Bachelor	Aerospace Engineering	4

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
44	Thermal Engineering	17AE05	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
45	Manufacturing Technology	17AE06	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
46	Engineering Economics and Accountancy	17HS01	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
47	Elements of Heat Transfer	17AE09	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
48	Aircrafts Systems and Instruments	17AE12	2020-21	Core Course	,Bachelor	Aerospace Engineering	3
49	Finite Elements Methods in Engineering	17AE19	2020-21	Elective Course	,Bachelor	Aerospace Engineering	3
50	Aerodynamics of Missiles and Launch Vehicles	17AE20	2020-21	Elective Course	,Bachelor	Aerospace Engineering	3
51	Experimental Stress Analysis	17AE22	2020-21	Elective Course	,Bachelor	Aerospace Engineering	3
52	Numerical Methods and Fourier Analysis	17FE07	2021-22	Core Course	,Bachelor	Aerospace Engineering	4
53	Engineering Fluid Mechanics	17AE01	2021-22	Core Course	,Bachelor	Aerospace Engineering	3
54	Engineering Thermodynamics	17AE02	2021-22	Core Course	,Bachelor	Aerospace Engineering	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
55	Environmental Science	17FE03	2021-22	Core Course	Bachelor	Aerospace Engineering	3
56	Thermal Engineering	17AE05	2021-22	Core Course	Bachelor	Aerospace Engineering	3
57	Manufacturing Technology	17AE06	2021-22	Core Course	Bachelor	Aerospace Engineering	3
58	Engineering Economics and Accountancy	17HS01	2021-22	Core Course	Bachelor	Aerospace Engineering	3
59	Elements of Heat Transfer	17AE09	2021-22	Core Course	Bachelor	Aerospace Engineering	3
60	Aircraft Systems and Instruments	17AE12	2021-22	Core Course	,Bachelor	Aerospace Engineering	3
61	Finite Element Methods in Engineering	17AE19	2021-22	Core Course	Bachelor	Aerospace Engineering	3
62	Aerodynamics of Missiles and Launch Vehicles	17AE20	2021-22	Elective Course	Bachelor	Aerospace Engineering	3
63	Experimental Stress Analysis	17AE22	2021-22	Elective Course	Bachelor	Aerospace Engineering	3
64	Numerical Methods and Fourier Analysis	17FE07	2020-21	Core Course	Bachelor	Mechanical Engineering	3
65	Operations Research	17ME06	2020-21	Core Course	,Bachelor	Mechanical	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
66	Applied Thermodynamics	17ME09	2020-21	Core Course	,Bachelor	Mechanical Engineering	3
67	Industrial Management	17ME11	2020-21	Core Course	Bachelor	Mechanical Engineering	3
68	IC Engines and Gas Turbines	17ME12	2020-21	Core Course	,Bachelor	Mechanical Engineering	3
69	Mechanical Engineering Design-II	17ME21	2020-21	Core Course	,Bachelor	Mechanical Engineering	3
70	Managing Innovation and Entrepreneurship	17ME27	2020-21	Core Course	Bachelor	Mechanical Engineering	3
71	Operations Research	17ME06	2021-22	Core Course	Bachelor	ME	3
72	Applied Thermodynamics	17ME09	2021-22	Core Course	Bachelor	ME	3
73	Industrial Management	17ME!1	2021-22	Core Course	Bachelor	ME	3
74	IC Engines and Gas Turbines	17ME12	2021-22	Core Course	,Bachelor	ME	3
75	Mechanical Engineering Design-I	17ME13	2021-22	Core Course	,Bachelor	ME	3
76	Mechanical Engineering Design-II	17ME21	2021-22	Core Course	Bachelor	ME	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
77	Managing Innovation and Entrepreneurship	17ME27	2021-22	Elective Course	Bachelor	ME	3
78	OOPS through Java	17CI07	2020-21	Core Course	Bachelor	IT	3
79	Digital logic design	17CI02	2020-21	Core Course	Bachelor	IT	3
80	Python programming	17CIO4	2020-21	Core Course	Bachelor	CSE	3
81	Data Structures	17CI05	2020-21	Core Course	,Bachelor	CSE	3
82	OOPs Through Java	17CI07	2020-21	Core Course	Bachelor	CSE	3
83	Linux Programming	17CS01	2020-21	Core Course	Bachelor	CSE	3
84	Software Engineering	17CI10	2020-21	Core Course	Bachelor	CSE	3
85	Advanced Database Management system	17CI13	2020-21	Elective Course	,Bachelor	CSE	3
86	UML and Design patterns	17CS03	2020-21	Core Course	Bachelor	CSE	3
87	WEB Technologies	17CI14	2020-21	Core Course	,Bachelor	CSE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
88	Android Technologies	17CS05	2020-21	Core Course	Bachelor	CSE	3
89	Data mining and Data warehousing	17CI16	2020-21	Core Course	Bachelor	CSE	3
90	Scala Programming	17CS07	2020-21	Elective Course	,Bachelor	CSE	3
91	Google Go Programming	17CS09	2020-21	Elective Course	,Bachelor	CSE	3
92	PYTHON Programming	17CI03	2021-22	Core Course	,Bachelor	CSE	3
93	DATA Structures	17CI05	2021-22	Core Course	Bachelor	CSE	3
94	OOPS through Java	17CI07	2021-22	Core Course	Bachelor	CSE	3
95	Design and Analysis of Algorithms	17CI08	2021-22	Core Course	Bachelor	CSE	3
96	LINUX Programming	17CS01	2021-22	Core Course	Bachelor	CSE	3
97	Software Engineering	17CI10	2021-22	Core Course	Bachelor	CSE	3
98	Computer Graphics	17CL11	2021-22	Elective Course	Bachelor	CSE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
99	Advanced Database Management Systems	17CI13	2021-22	Elective Course	Bachelor	CSE	3
100	UML and Design patterns	17CS03	2021-22	Core Course	Bachelor	CSE	3
101	WEB Technologies	17CI14	2021-22	Core Course	Bachelor	CSE	3
102	Automata Theory and compiler design	17CS15	2021-22	Core Course	Bachelor	CSE	3
103	Android Technologies	17CS05	2021-22	Core Course	Bachelor	CSE	3
104	Data Mining and Data Warehousing	17CI16	2021-22	Core Course	Bachelor	CSE	3
105	Data communications and Computer Networks	17CI17	2021-22	Core Course	Bachelor	CSE	3
106	Scala Programming	17CS07	2021-22	Core Course	Bachelor	CSE	3
107	PHP Programming	17CS08	2021-22	Elective Course	Bachelor	CSE	3
108	Google-Go Programming	17CS09	2021-22	Elective Course	Bachelor	CSE	3
109	Big Data Analytics	17CI18	2021-22	Core Course	Bachelor	CSE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
110	Internet of Things	17CI19	2021-22	Core Course	Bachelor	CSE	3
111	Information Security	17CI20	2021-22	Core Course	Bachelor	CSE	3
112	Software Project Management	17CI21	2021-22	Elective Course	Bachelor	CSE	3
113	Artificial Intelligence	17CI23	2021-22	Elective Course	Bachelor	CSE	3
114	Ad-Hoc Networks	17CI31	2021-22	Elective Course	Bachelor	CSE	3
115	Software Requirements Engineering	17CI27	2021-22	Core Course	Bachelor	CSE	3
116	Machine Learning	17CI28	2021-22	Core Course	Bachelor	CSE	3
117	Software Security Engineering	17CS13	2021-22	Core Course	Bachelor	CSE	3
118	Cloud Computing	17CI29	2021-22	Elective Course	Bachelor	CSE	3
119	Big Data Analytics	17CI18	2020-21	Core Course	Bachelor	CSE	3
120	Internet of Things	17CI19	2020-21	Core Course	Bachelor	CSE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
121	Information Security	17CI20	2020-21	Core Course	Bachelor	CSE	3
122	Software project management	17CI21	2020-21	Elective Course	,Bachelor	CSE	3
123	Artificial Intelligence	17CI23	2020-21	Elective Course	Bachelor	CSE	3
124	Ad-Hoc Networks	17CI31	2020-21	Elective Course	Bachelor	CSE	3
125	Software Requirements Engineering	17CI27	2020-21	Core Course	Bachelor	CSE	3
126	Machine Learning	17CI28	2020-21	Elective Course	Bachelor	CSE	3
127	Software Security Engineering	17CS13	2020-21	Elective Course	Bachelor	CSE	3
128	Cloud Computing	17CI29	2020-21	Elective Course	Bachelor	CSE	3
129	OOPs through Java	17CI07	2020-21	Core Course	Bachelor	IT	3
130	Digital Logic Design	17CI02	2020-21	Core Course	,Bachelor	IT	3
131	Data Base Management Systems	17CI09	2020-21	Core Course	,Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
132	OOPs through Java Lab	17CI65	2020-21	Core Course	,Bachelor	IT	3
133	Web Technologies	17CI14	2020-21	Core Course	Bachelor	IT	3
134	Computer Architecture	17CI06	2020-21	Core Course	,Bachelor	IT	3
135	Discrete Mathematical Structures	17CI03	2020-21	Core Course	,Bachelor	IT	3
136	Python Programming	17CI04	2020-21	Core Course	,Bachelor	IT	3
137	Objected Oriented Analysis and Design	17IT02	2020-21	Core Course	,Bachelor	IT	3
138	Microprocessors and Microcontrollers	17EC22	2020-21	Core Course	Bachelor	IT	3
139	Data Communications and Computer Networks	17CI17	2020-21	Core Course	,Bachelor	IT	3
140	Design and Analysis of Algorithms	17CI08	2020-21	Core Course	,Bachelor	IT	3
141	Software Engineering	17CI10	2020-21	Core Course	Bachelor	IT	3
142	Computer Graphics	17CI11	2020-21	Elective Course	Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
143	Software Testing Quality Assurance	17IT04	2021-22	Elective Course	,Bachelor	IT	3
144	Computer Graphics	17CI11	2020-21	Elective Course	,Bachelor	IT	3
145	Computer Graphics	17CI11	2020-21	Elective Course	,Bachelor	IT	3
146	Software Testing Quality Assurance	17IT04	2020-21	Elective Course	,Bachelor	IT	3
147	Artificial Intelligence	17CI23	2020-21	Elective Course	,Bachelor	IT	3
148	Information Security	17CI20	2020-21	Core Course	,Bachelor	IT	3
149	R Programming	17IT03	2020-21	Core Course	,Bachelor	IT	3
150	Data Mining and Data Warehousing	17CI16	2020-21	Core Course	,Bachelor	IT	3
151	Automata Theory and Compiler Design	17CI15	2020-21	Core Course	,Bachelor	IT	3
152	Objected Oriented Software Engineering	17IT05	2020-21	Elective Course	,Bachelor	IT	3
153	Sensor Networks	17IT06	2020-21	Elective Course	,Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
154	Neural Networks and Fuzzy Logic	17CI25	2020-21	Elective Course	,Bachelor	IT	3
155	Big Data Analysis	17CI18	2020-21	Core Course	,Bachelor	IT	3
156	Andriod Programming	17IT07	2020-21	Elective Course	,Bachelor	IT	3
157	Computational Geometrics	17IT09	2020-21	Elective Course	,Bachelor	IT	3
158	Human Computer Interaction	17CI12	2020-21	Elective Course	,Bachelor	IT	3
159	Bio-Metrics	17IT14	2020-21	Elective Course	,Bachelor	IT	3
160	OOPs through Java	17CI07	2021-22	Core Course	,Bachelor	IT	3
161	Digital Logic Design	17CI02	2021-22	Core Course	,Bachelor	IT	3
162	Data Base Management System	17CI09	2021-22	Core Course	,Bachelor	IT	3
163	Web Technologies	17CI14	2021-22	Core Course	Bachelor	IT	3
164	Computer Architecture	17CI06	2021-22	Core Course	Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
165	Discrete Mathematical Structures	17CI03	2021-22	Core Course	Bachelor	IT	3
166	Python Programming	17CI04	2021-22	Core Course	Bachelor	IT	3
167	Object Oriented Analysis and Design	17IT02	2021-22	Core Course	Bachelor	IT	3
168	MicroProcessors and Microcontrollers	17EC22	2021-22	Core Course	Bachelor	IT	3
169	Data Communications and Computer Networks	17CI17	2021-22	Core Course	,Bachelor	IT	3
170	Design and Analysis of Algorithms	17CI08	2021-22	Core Course	,Bachelor	IT	3
171	Software Engineering	17CI10	2021-22	Core Course	,Bachelor	IT	3
172	Computer Graphics	17CI11	2021-22	Elective Course	,Bachelor	IT	3
173	Software Testing Quality Assurance	17IT04	2021-22	Elective Course	,Bachelor	IT	3
174	Artificial Intelligence	17CI23	2021-22	Elective Course	,Bachelor	IT	3
175	Information Security	17CI20	2021-22	Core Course	Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
176	R Programming	17IT03	2021-22	Core Course	Bachelor	IT	3
177	Data Mining and Data Warehousing	17CI16	2021-22	Core Course	Bachelor	IT	3
178	Automata Theory and Compiler Design	17CI15	2021-22	Core Course	Bachelor	IT	3
179	Object Oriented Software Engineering	17IT05	2021-22	Elective Course	Bachelor	IT	3
180	Sensor Networks	17IT06	2021-22	Elective Course	Bachelor	IT	3
181	Neural Networks and Fuzzy Logic	17CI25	2021-22	Elective Course	Bachelor	IT	3
182	Big Data Analytics	17CI18	2021-22	Elective Course	Bachelor	IT	3
183	Android Programming	17IT07	2021-22	Elective Course	,Bachelor	IT	3
184	Computational Geometrics	17IT09	2021-22	Elective Course	,Bachelor	IT	3
185	Hydraulics and Hydraulic Machinery Systems	17CE09	2020-21	Core Course	Bachelor	CE	3
186	Human Computer Interaction	17CI12	2021-22	Elective Course	Bachelor	IT	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
187	Bio-Metrics	17CI12	2021-22	Elective Course	Bachelor	IT	3
188	Highway Engineering	17CE14	2020-21	Core Course	Bachelor	CE	3
189	Repair and Rehabilitation of Structures	17CE16	2020-21	Elective Course	Bachelor	CE	3
190	Interior Designs and Decorations	17CE19	2020-21	Elective Course	Bachelor	CE	3
191	Green Buildings	17CE90	2020-21	Elective Course	Bachelor	CE	3
192	Irrigation and Water Resource Engineering	17CE21	2020-21	Core Course	Bachelor	CE	3
193	Water and Waste Water Engineering	17CE22	2020-21	Core Course	,Bachelor	CE	3
194	Construction Techniques and Equipment Planning	17CE26	2020-21	Elective Course	Bachelor	CE	3
195	Remote Sensing and GIS Applications	17CE28	2020-21	Core Course	Bachelor	CE	3
196	Design Of Reinforced Concrete Structures-II	17CE30	2020-21	Core Course	Bachelor	CE	3
197	Environmental Engineering	17CE35	2020-21	Elective Course	Bachelor	CE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
198	Ground Improvement Techniques	17CE37	2020-21	Elective Course	Bachelor	CE	3
199	Environmental Sanitation	17CE92	2020-21	Elective Course	Bachelor	CE	3
200	Traffic Engineering and Transport Planning	17CE39	2020-21	Elective Course	,Bachelor	CE	3
201	Finite Element Methods in Civil Engineering	17CE44	2020-21	Elective Course	,Bachelor	CE	3
202	Watershed Management	17CE45	2020-21	Elective Course	Bachelor	CE	3
203	Numerical Methods and Fourier Analysis	17FE07	2021-22	Core Course	Bachelor	CE	3
204	Mechanics of Fluids	17CE06	2021-22	Core Course	,Bachelor	CE	3
205	Electric and Magnetic Fields	17EE02	2020-21	Core Course	,Bachelor	EE	3
206	Concrete Technology	17CE07	2021-22	Core Course	,Bachelor	CE	3
207	Digital Logic Circuit Design	17EE04	2020-21	Core Course	Bachelor	EE	3
208	Environmental Science	17CE07	2021-22	Core Course	Bachelor	CE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
209	Power Generation and Utilization	17EE05	2020-21	Core Course	,Bachelor	EE	3
210	Hydraulics and Hydraulic Machinery Systems	17CE09	2021-22	Core Course	Bachelor	CE	3
211	Engineering Economics and Accountancy	17HS01	2021-22	Core Course	Bachelor	CE	3
212	Complex Variables and Statistical Methods	17FE10	2020-21	Core Course	Bachelor	EE	3
213	Control Systems	17EE06	2020-21	Core Course	,Bachelor	EE	3
214	Electronic Circuit Analysis	17EE08	2020-21	Core Course	Bachelor	EE	3
215	Highway Engineering	17CE14	2021-22	Core Course	Bachelor	CE	3
216	Repair and Rehabilitation of Structures	17CE16	2021-22	Elective Course	,Bachelor	CE	3
217	Engineering Economics and Accountancy	17HS01	2020-21	Core Course	,Bachelor	EEE	3
218	Interior Design and Decorations	17CE19	2021-22	Elective Course	,Bachelor	CE	3
219	Green Buildings	17CE90	2021-22	Elective Course	,Bachelor	CE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
220	Linear and Digital Integrated Circuits	17EE10	2020-21	Core Course	Bachelor	EEE	3
221	Electrical Power Transmission	17EE12	2020-21	Core Course	Bachelor	EEE	3
222	Irrigation and Water Resource Engineering	17CE21	2021-22	Core Course	Bachelor	CE	3
223	Microprocessor and Microcontrollers	17EC22	2020-21	Core Course	Bachelor	EEE	3
224	Water and Water wave Engineering	17CE22	2021-22	Core Course	Bachelor	CE	3
225	Construction Techniques and Equipment Planning	17CE26	2021-22	Elective Course	Bachelor	CE	3
226	Analog and Digital Signal Processing	17EE17	2020-21	Core Course	,Bachelor	EEE	3
227	Power Electronics	17EE19	2020-21	Core Course	Bachelor	EEE	3
228	Remote Sensing and GIS Applications	17CE29	2021-22	Core Course	Bachelor	CE	3
229	Digital Controllers	17EC51	2020-21	Elective Course	Bachelor	EEE	3
230	Design of Reinforced Concrete Structures-II	17CE30	2021-22	Core Course	,Bachelor	CE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
231	Embedded System Design	17EC29	2020-21	Elective Course	Bachelor	EEE	3
232	Environmental Engineering	17CE33	2021-22	Elective Course	,Bachelor	CE	3
233	Ground Empowerment Techniques	17CE37	2021-22	Elective Course	,Bachelor	CE	3
234	Environmental Sanitation	17CE92	2021-22	Elective Course	,Bachelor	CE	3
235	Traffic Engineering and Transport Planning	17CE39	2021-22	Elective Course	Bachelor	CE	3
236	Finite Element Methods in Civil Engineering	17CE44	2021-22	Elective Course	Bachelor	CE	3
237	Watershed Management	17CE45	2021-22	Elective Course	Bachelor	CE	3
238	Electric and Magnetic Fields	17EE02	2021-22	Core Course	Bachelor	EEE	3
239	Digital Logic Circuit Design	17EE04	2021-22	Core Course	,Bachelor	EEE	3
240	Power Generation and Utilization	17EE05	2021-22	Core Course	,Bachelor	EEE	3
241	Complex variables and Statistical Methods	17FE10	2021-22	Core Course	Bachelor	EEE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
242	Electronic Circuit Analysis	17EE08	2021-22	Core Course	Bachelor	EEE	3
243	Engineering Economics and Accountancy	17HS01	2021-22	Core Course	Bachelor	EEE	3
244	Linear and Digital Integrated Circuits	17EE10	2021-22	Core Course	,Bachelor	EEE	3
245	Electrical Power Transmission	17EE12	2021-22	Core Course	,Bachelor	EEE	3
246	Microprocessors and Microcontrollers	17EC22	2021-22	Core Course	,Bachelor	EEE	3
247	Analog and Digital Signal Processing	17EE17	2021-22	Core Course	Bachelor	EEE	3
248	Power Electronics	17EE19	2021-22	Core Course	Bachelor	EEE	3
249	Analog and Digital Signal Processing	17EE17	2021-22	Core Course	Bachelor	EEE	3
250	Digital Controllers	17EC51	2021-22	Elective Course	Bachelor	EEE	3
251	Embedded System Design	17EC29	2021-22	Elective Course	Bachelor	EEE	3
252	Power System Protection	17EE21	2021-22	Core Course	Bachelor	EEE	3

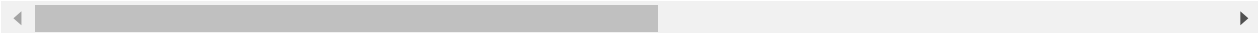
Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
253	Energy Storage System	17EE30	2021-22	Elective Course	,Bachelor	EEE	3
254	Distribution System Planning and Automation	17EE31	2021-22	Elective Course	,Bachelor	EEE	3
255	Advanced Power Converters	17EE34	2021-22	Elective Course	Bachelor	EEE	3
256	Smart and Micro Grid	17EE38	2021-22	Elective Course	Bachelor	EEE	3
257	Advanced Power Converters	17EE34	2020-21	Elective Course	,Bachelor	EEE	3
258	Smart and Micro Grid	17EE38	2020-21	Elective Course	,Bachelor	EEE	3
259	Power System Protection	17EE21	2020-21	Core Course	,Bachelor	EEE	3
260	Energy Storage Systems	17EE30	2020-21	Elective Course	,Bachelor	EEE	3
261	Distribution System Planning and Automation	17EE31	2020-21	Elective Course	,Bachelor	EEE	3
262	Engineering Economics and Accountancy	17HS01	2020-21	Core Course	Bachelor	ECE	3
263	Computer Programming	17C101	2021-22	Core Course	Bachelor	ECE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
264	Micro Electro Mechanical Systems	17EI18	2020-21	Elective Course	Bachelor	ECE	3
265	PCB Design	17EC17	2020-21	Elective Course	Bachelor	ECE	3
266	Electronic Measurements and Instrumentation	17EC90	2020-21	Core Course	Bachelor	ECE	3
267	Digital Signal Processing	17EC10	2021-22	Core Course	Bachelor	ECE	3
268	Linear Control Systems	17EC20	2020-21	Core Course	Bachelor	ECE	3
269	Digital System Design	17EC11	2021-22	Core Course	Bachelor	ECE	3
270	Engineering Economics and Accountancy	17HS01	2021-22	Core Course	Bachelor	ECE	3
271	Transmission Lines and Wave Guides	17EC14	2021-22	Core Course	Bachelor	ECE	3
272	Microprocessors and Microcontrollers	17EC22	2020-21	Core Course	Bachelor	ECE	3
273	Digital Communications	17EC15	2021-22	Core Course	Bachelor	ECE	3
274	Nano Electronics	17EC23	2020-21	Elective Course	Bachelor	ECE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
275	Micro Electro Mechanical Systems	17EI18	2021-22	Elective Course	Bachelor	ECE	3
276	Low Power VLSI Design	17EC24	2020-21	Elective Course	Bachelor	ECE	3
277	PCB Design	17EC17	2021-22	Elective Course	Bachelor	ECE	3
278	Electronics Measurements and Instrumentation	17EC19	2021-22	Core Course	Bachelor	ECE	3
279	Microwave Engineering	17EC27	2020-21	Core Course	Bachelor	ECE	3
280	Embedded System Design	17EC29	2020-21	Core Course	Bachelor	ECE	3
281	Automobile and Consumer Electronics	17EC30	2020-21	Elective Course	Bachelor	ECE	3
282	Microprocessors and Microcontrollers	17EC22	2021-22	Core Course	Bachelor	ECE	3
283	Satellite Communications	17EC32	2020-21	Elective Course	Bachelor	ECE	3
284	Nano Electronics	17EC23	2021-22	Elective Course	Bachelor	ECE	3
285	Low Power VLSI Design	17EC24	2021-22	Elective Course	Bachelor	ECE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
286	Advanced Microcontrollers	17EC35	2020-21	Elective Course	Bachelor	ECE	3
287	Mobile Computing	17EC36	2020-21	Elective Course	Bachelor	ECE	3
288	Microwave Engineering	17EC27	2021-22	Core Course	Bachelor	ECE	3
289	Embedded System Design	17EC29	2021-22	Core Course	Bachelor	ECE	3
290	Automobile and Consumer Electronics	17EC30	2021-22	Elective Course	Bachelor	ECE	3
291	Programmable Logic Devices	17EC38	2020-21	Elective Course	Bachelor	ECE	3
292	Satellite Communications	17EC32	2021-22	Elective Course	Bachelor	ECE	3
293	Real Time Operating Systems for Embedded Systems	17EC39	2020-21	Elective Course	Bachelor	ECE	3
294	Advanced Microcontrollers	17EC35	2021-22	Elective Course	Bachelor	ECE	2
295	Mobile Computing	17EC36	2021-22	Elective Course	Bachelor	ECE	3
296	Design for Internet of Things	17EC43	2020-21	Elective Course	Bachelor	ECE	3

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score
297	Programmable Logic Devices	17EC38	2021-22	Core Course	Bachelor	ECE	3
298	Real Time Operating Systems for Embedded Systems	17EC39	2021-22	Core Course	Bachelor	ECE	3
299	Neural Networks and Fuzzy Control	17EC41	2021-22	Core Course	Bachelor	ECE	3
300	Design for Internet of Things	17EC43	2021-22	Elective Course	Bachelor	ECE	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	Certificational Program Offering Department/ Centre/ Unit Name
1	ATAL FDP on Robotics and Artificial Intelligence	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	MECHANICAL ENGINEERING
2	AICTE Sponsored FDP on Frontier of 3D Printing Technology and Its Industrial Applications(Phase-1)	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	MECHANICAL ENGINEERING

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificat Program Offering Departm Centre/ U Name
3	AICTE Sponsored FDP on Frontier of 3D Printing Technology and Its Industrial Applications(PHASE-2)	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	MECHANICAL ENGINEERING
4	Design Thinking From Insights to Viability for Engineers	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Department Electronic Communication Engineering
5	Mixed Signal Design Approaches for Artificial Intelligence Processors	2020-21	Short-term Certificate Program	Central Govt. Agency	Department Electronic Communication Engineering
6	Mixed Signal Design Approaches for Artificial Intelligence Processors	2020-21	Short-term Certificate Program	Central Govt. Agency	Department Electronic Communication Engineering
7	Mixed Signal Design Approaches for Artificial Intelligence Processors	2020-21	Short-term Certificate Program	Central Govt. Agency	Department Electronic Communication Engineering
8	Internet of things	2021-22	Short-term Certificate Program	State Govt. Agency	Department Electronic Communication Engineering
9	AWS-Cloud Computing	2021-22	Short-term Certificate Program	State Govt. Agency	Department Electronic Communication Engineering

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificat Program Offering Departm Centre/ U Name
10	Fundamentals Aspects of MEMS for Sensor Applications	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Departme Electronic Communi Engineeri
11	Python For Data Science	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	NBA Accredita Teaching Learning i Engineeri (NATE)
12	Machine Learning Using Python	2021-22	Faculty Development Program (FDP)	State Govt. Agency	APSSDC
13	Industrial Integration of Renewable Energy Systems	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	DEPARTM OF ELECT AND ELECTRO ENGINEEI
14	Recent Advances in Electrical Energy Management	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	EEE LBRC MYLAVAF
15	RECENT ADVANCES IN POWER ELECTRONICS AND POWER SYSTEMS	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	EEE LBRC MYLAVAF
16	Python Basics	2020-21	Short-term Certificate Program	State Govt. Agency	Student v shop in associatic with APSS
17	Industrial Automation using PLC SCADA and IOT	2020-21	Short-term Certificate Program	Industry/Non-Govt.	EEE LBRC

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificat Program Offering Departm Centre/ U Name
18	Machine Learning Using Python	2021-22	Short-term Certificate Program	State Govt. Agency	EEE LBRC
19	Five day Certification Training Program on PLC based Industrial Automation	2021-22	Short-term Certificate Program	Industry/Non-Govt.	EEE LBRC
20	Basics of Python Programming	2021-22	Short-term Certificate Program	State Govt. Agency	EEE LBRC
21	Certification Program on Finite Element Analysis using ANSYS	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Departme Aerospace Engineeri
22	Certification Program on Computational Fluid Dynamics using ANSYS	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Departme Aerospace Engineeri
23	AWS- Cloud Computing	2021-22	Short-term Certificate Program	State Govt. Agency	Departme Artificial Intelligen and Data Science
24	The Joy of Computing using Python	2020-21	Short-term Certificate Program	Central Govt. Agency	EEE Departme
25	ONE WEEK SKILL DEVELOPMENT PROGRAM ON ARITHMETIC AND VERBAL	2020-21	Short-term Certificate Program	Self Sponsored/Supported	MBA

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificational Program Offering Department/Centre/Unit Name
26	SKILL DEVELOPMENT TRAINING ON ARITHMETIC REASONING AND VERBAL	2021-22	Short-term Certificate Program	Self Sponsored/Supported	MBA
27	The Joy of Computing using Python	2020-21	Short-term Certificate Program	Central Govt. Agency	EEE
28	INTERNET OF THINGS	2020-21	Short-term Certificate Program	Central Govt. Agency	EEE
29	ATAL Sponsored FDP on BIO-INSPIRED COMPUTING FOR DATA ANALYTICS	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	Department of Information Technology
30	SOFT COMPUTING-MACHINE LEARNING AND APPLICATIONS	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Information Technology
31	Google Android Application Development Program	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Information Technology
32	BootCamp -Tech for Society -Django	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Information Technology
33	Enhancing Coding Skills C and Python	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Information Technology
34	Certification Program on Python for everybody Phase -2	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Information Technology

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificat Program Offering Departm Centre/ U Name
35	FDP on Data Science and its Applications	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	CSE
36	Python Basics	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Civil Engineeri
37	A Five Day Online Faculty Development Program on Applied Data Science Tools and Techniques	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	CSE
38	Data Structures	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Civil Engineeri
39	A Five Day Faculty Development Program (FDP) on Cyber Security	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	CSE
40	Faculty Development Program on Machine Learning	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	CSE
41	Workshop on google android application development	2021-22	Short-term Certificate Program	State Govt. Agency	CSE
42	One week MTA Certification Training Program on Data Science with Python	2020-21	Short-term Certificate Program	Self Sponsored/Supported	CSE

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certifical Program Offering Department Centre/ Unit Name
43	one week training on Enhancing Coding Skills(C and Python)	2020-21	Short-term Certificate Program	Self Sponsored/Supported	CSE
44	Wipro Talent NeXT training program on Java J2EE	2021-22	Short-term Certificate Program	Self Sponsored/Supported	CSE
45	Report on Three week online short term training program(STTP) on machine learning using python	2021-22	Short-term Certificate Program	State Govt. Agency	CSE

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	Ge Sc
1	Innovation Cell	Innovation Cell	Dr.A.Narendra Babu	9160981125	narendraalur@gmail.com	
2	Startup Cell	Startup Cell	Dr.T.Rajasekhar	9440503217	dr.t.rajasekhar@lbrce.ac.in	

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

Sr. No.	Name of Unit	In-charge Name	Contact no	Email
1	LBRCE-IC FOUNDATION	Dr.A.Narendra Babu,Dr.T.Rajasekhar	9160981125,9440503217	narendraalur@gmail.cc

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
1	Technology Transfer Centre /TTO	Research and Development	Dr.E.V.Krishna Rao	9885677608	krishnaraoede@yahoo.co.in
2	Technology Transfer Centre /TTO	LBRCE IPR CELL	Dr.E.V.Krishna Rao	9885677608	krishnaraoede@yahoo.co.in

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)

rt	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	GUNTURU. GAYE SRI	Student		gayes
dy	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	virivada venkatesh	Student		venka
	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Battula Rahul	Student		battu
dy	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Sneha Madhuri. Jangam	Student		sneha

rt	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
dy	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	K HARISH KUMAR	Faculty		konat
h stry t	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	JADA. CHAITANYA KUMAR	Student		chaita
dy	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	K HARISH KUMAR	Faculty		konat
dy	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	K V Viswanadh	Faculty		viswa
h stry t	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	Dr.K.LAVANYA	Faculty		dr.lav

rt	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	A.Sai jayakrishna	Alumni		jayaki
dy	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	JAYA PRAKASH BUDETI	Student	8074602172	jayap
dy	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	TUNGALA.MOHAN RANGA SRINIVAS	Student		moha
	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	A Geetheswar Reddy	Student		geetf
h stry t	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Tokala. Tejaswi	Student		tsree

rt	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
dy	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	CH.PRAVEEN	Student		prave
dy	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	CH.PRAVEEN	Student		prave
h stry t	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr Rakesh Kumar Prathipati	Faculty		rakes
dy	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	JADA. CHAITANYA KUMAR	Student		chaita

rt	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
dy	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	DVSS Raghavendra	Student		ragha
dy	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	M. DURGA PRASAD	Student		durga

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 Recogn DPIIT/S India
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Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup Recogn DPIIT/S India
1	Intern Stump	Limited Liability Partnership Firm (LLP)	AAA-6999	null	2020-21	Yes

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 / Agreemer Signed on
1	SRC e solutions	Corporate/Industry Association	3	Active	08-09-202:
2	Unistring Tech Solutions Pvt.Limited	Corporate/Industry Association	1	Active	05-05-202:
3	Efftronics Systems Pvt.Ltd	Corporate/Industry Association	1	Active	07-01-202:
4	Vijayawada thermal power station	Govt. Agency (Central)	1	Active	13-06-202:
5	Sai Bhargav Electricals limited	Non Govt. Agency	5	Active	01-02-202:

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreemer Signed on
6	G.S. Electricals	Non Govt. Agency	5	Active	01-02-2021
7	INDWELL Automation	Non Govt. Agency	1	Active	04-10-2021
8	HITECH INSTRUMENTS	Non Govt. Agency	1	Active	15-06-2021
9	SOUTH CENTRAL RAILWAY WOMENS ORGANISATION	Govt. Agency (Central)	1	Active	04-02-2021
10	LINEYSHA AND THEVAN SOFTWARE TECHNOLOGIES PRIVATE LIMITED	Corporate/Industry Association	01	Active	07-09-2021
11	PRAKASA SPECTRO(P) LIMITED, VIJAYAWADA	Corporate/Industry Association	1	Active	24-11-2021
12	NATIONAL HIGHWAYS AUTHORITY OF INDIA	Govt. Agency (Central)	5	Active	29-07-2021
13	CENTRAL INSTITUTE OF PLASTICS AND ENGINEERING TECHNOLOGY, VIJAYAWADA	Govt. Agency (Central)	1	Inactive	25-01-2021
14	CADCAM EXPERTS	Educational Institute	2	Active	13-08-2021
15	KUSALAVA INTERNATIONAL LIMITED, ADAVINEKKALAM.	Corporate/Industry Association	1	Active	11-12-2021

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreemer Signed on
16	PRATHAP INDUSTRIES, VIJAYAWADA	Corporate/Industry Association	1	Active	30-11-202
17	METHEY ENGINEERING & CONSULTANCY PVT LTD	Corporate/Industry Association	4	Active	13-08-202
18	Indian Server Pvt Ltd .	Corporate/Industry Association	5	Active	01-05-202
19	Swecha AP	Knowledge/Mentoring Agency	3	Active	21-08-202
20	EduSkills Foundation	Corporate/Industry Association	3	Active	17-06-202
21	INDIAN SERVERS PRIVATE LIMITED	Corporate/Industry Association	1	Active	01-11-202
22	Smart Bridge Education At Services Private Limited	Corporate/Industry Association	1	Active	01-11-202
23	LINCOLN UNIVERSITY COLLEGE MALAYSIA	Educational Institute	5	Active	01-08-202
24	WRIGHT TECH SOFTWARE SOLUTIONS	Corporate/Industry Association	5	Active	26-12-202
25	LAKSHMAN KUMAR & ASSOCIATES	Corporate/Industry Association	5	Active	21-09-202
26	SIR C. R. REDDY COLLEGE, ELURU	Educational Institute	5	Active	11-10-202
27	INTERN STUMP LLP, VISSANNAPETA	Educational Institute	5	Active	09-10-202

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreemer Signed on
28	TVS-GARAPATI AUTO VENTURES PVT. LTD	Corporate/Industry Association	5	Active	11-10-2021
29	KUMBAKONAM DEGREE COFFEE	Corporate/Industry Association	5	Active	29-06-2021
30	Atal Incubation Centre-Anantapur	Incubation Unit	1	Closed	22-07-2021
31	University of Silicon Andhra	International Agency	10	Active	30-11-2021
32	Siemens Center of Excellence in Manufacturing National Institute of Technology-Tiruchirappali	Educational Institute	3	Active	14-07-2021
33	Eduskills	Corporate/Industry Association	3	Active	18-06-2021
34	European centre for Mechatronics APS GmbH Aachen	Educational Institute	2	Active	15-02-2021
35	Andhra Pradesh State Skill Development Corporation (APSSDC)-Dassault systems 3D Experience Centre	Govt. Agency (State)	1	Active	07-08-2021

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 Designs Or Commercial to Industry/S
1	Development of Multi-Sensor Smart Robot for Intelligent border Security Surveillance System.	Copy Right	202141033795	27-07-2021	No
2	Transmission Gate Voltage Level Translator for Deep Sub-Micron Technology	Copy Right	202141028829	09-07-2021	No
3	Image Contrast Enhancement System with Hybrid Binary Particle Swarm Optimization and Flower Pollination Algorithm	Copy Right	202131018752	14-05-2021	No
4	Interactive Electronic Smart Fabrics and a device for Remotely Monitoring the Vital Parameters	Copy Right	202141017212	23-04-2021	No
5	Three Axis Micro Electro Mechanical Systems with H and T Shaped Capacitive Comb Accelerometer	Copy Right	202141012662	02-04-2021	No
6	A Food Disposal Device	Copy Right	202041036255	11-09-2020	No
7	Automatic Voltage level up/level down shifter for VLSI circuits	Copy Right	202041017082	05-06-2020	No
8	Smart Wearable Reminder Device	Copy Right	201941054851	03-01-2020	No
9	KMC-ML BASED HPCSP ISLANDING DETECTION ALGORITHM TO ESTIMATE THE DG INTEGRATED NETWORK STATE	Copy Right	202141054714	26-11-2021	No
10	DESIGN AND FABRICATION OF TREAD MILL BICYCLE	Copy Right	202141051863	12-11-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
11	A Novel Method of Power Quality Enhancement in Grid Integrated System using PV-STATCOM	Copy Right	202141042998	22-09-2021	No
12	CONVERSION BASED FAULT IDENTIFIER IN THREE PHASE TRANSFORMER USING WAVELET TRANSFORM TECHNIQUE	Copy Right	202041047385	30-10-2020	No
13	ECONOMIC ASPECT DESIGNING OF PROTOTYPE LABORATORY MULTI PHASE INDUCTION MACHINE AND VALIDATION OF	Copy Right	202041045361	19-10-2020	No
14	PATCH ANTENNA, METHOD OF MANUFACTURING AND USING SUCH AN ANTENNA, AND ANTENNA SYSTEM	Copy Right	202111022123	17-05-2021	No
15	GENERATION OF E-BILL TRANSACTION NUMBER USING BLOCKCHAIN TECHNOLOGY	Copy Right	202141007828	24-02-2021	No
16	Artificial Neural Network Based Driver Behaviour Recognition for Automated Driving or Autonomous Vehicles	Copy Right	202141009561	10-03-2021	No
17	INTELLIGENT PROPORTIONAL INTEGRAL SLIDING MODE BASED DIRECT POWER CONTROL OF DOUBLE FED INDUCTION GENERATOR WIND TURBINE	Copy Right	202141004236	01-02-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
18	A Sensor Fusion Precision Technology in Agricultural and its method and Controlling Parameters	Copy Right	202121021172	18-06-2021	No
19	Method of Synthesizing Hybrid Metal Wood Composite And 3D Printing Thereof	Copy Right	202141019607	07-05-2021	No
20	Generation of E-Bill Transaction Number Using Blockchain Technology	Copy Right	202141007828	05-03-2021	No
21	Localized intelligent vehicle-electric	Copy Right	202141007160	26-02-2021	No
22	Surface Engineered Corrosion Free and Antibacterial Bio-Implants	Copy Right	202041040589	25-09-2020	No
23	Multi Stage Sheet Bulk Metal Deformation Process Using Digital Image System	Copy Right	202041038431	11-09-2020	No
24	Vehicle Deceleration Indicating System	Copy Right	374617	16-08-2021	No
25	EXPERT SYSTEM FOR DETECTING DROWSINESS IN DRIVERS	Copy Right	202041050058	17-11-2020	
26	Neural Network For Real Time Speech Enhancement For Hearing Impaired	Copy Right	202141053429	20-11-2021	No
27	Method, System and Device for crop detection	Copy Right	202141042413	20-09-2021	No
28	A Decentralized privacy preserving Multi Instance Iris Authentication Device (Dpmiad)	Copy Right	202141019089	26-04-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
29	AN AI ABETTED GREEN ENERGY GENERATING SYSTEMS	Copy Right	202141012214	22-03-2021	No
30	A NOVEL METHOD OF POWER REDUCTION IN MODIFIED AES USING	Copy Right	202141006425	16-02-2021	No
31	A Novel Global Secure Management System with Smart Card for IoT and Cloud Computing	Copy Right	202141000635	07-01-2021	No
32	ENHANCED FINGERPRINT AUTHENTICATION SYSTEM BY GABOR FILTER AND CLASSIFICATION DICTIONARIES LEARNING	Copy Right	202041047364	29-10-2020	No
33	SUPPORT VALUE BASED CONVOLUTIONAL NEURAL NETWORKS SYSTEM FOR INTERNET OF THINGS	Copy Right	202041043751	08-10-2020	No
34	HUMAN SENTIMENT ANALYSIS: NEURAL NETWORK-BASED HUMAN SENTIMENT ANALYSIS USING DEEP LEARNING PROGRAMMING	Copy Right	202041035805	20-08-2020	No
35	Apparatus For Sanitizing Articles with Rotatable Inner Chamber to Evenly Distribute UV Radiation	Copy Right	202141022452	11-06-2021	No
36	Pet cleanliness detecting smart Belt	Design	327364-001	08-05-2020	No
37	V-ATM: Intelligent virtual Bank with automated teller machine	Copy Right	202014003687	07-02-2020	No
38	Automatic Fire Ball ejecting device	Copy Right	202041002780	31-01-2020	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
39	COMPUTER IMPLEMENTED METHOD FOR ENHANCED SECURITY OF COLOR IMAGE USING ASYMMETRIC RSA ALGORITHM	Copy Right	202041002481	31-01-2020	No
40	IHY-PREDICTION: INTELLIGENT SYSTEM AND METHOD FOR ADVANCED HARVEST YIELD PREDICTION USING IOT BASED TECHNOLOGY	Copy Right	201941054460	03-01-2020	No
41	A SYSTEM BASED ON DIGITAL IMAGE PROCESSING FOR UTILIZING DIFFERENTIAL IMAGE INTENSITY DETERMINATIONS AND METHOD THEREOF	Copy Right	202121059115	24-12-2021	Yes
42	IOT BASED SMART CONTROL AND MONITOR VARIOUS ASPECTS OF AUTOMOBILE SYSTEMS	Copy Right	IOT BASED SMA	06-08-2021	Yes
43	IOT BASED SMART CONTROL AND MONITOR VARIOUS ASPECTS OF AUTOMOBILE SYSTEMS	Copy Right	202141033541	06-08-2021	Yes
44	STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES	Copy Right	202141027064	02-07-2021	Yes

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 Designs Or Commercial to Industry/S
45	MEASUREMENT AND STUDY OF THERMAL CYCLES AT THE STEEL/ALUMINUM INTERFACE BY BOTH EXPERIMENTAL AND SIMULATION APPROACH	Copy Right	202141055674	10-12-2021	Yes
46	Utensils Stand With Waste Collector	Design	351100-001	10-12-2021	Yes
47	Adjustable size door	Design	351102-001	26-11-2021	No
48	Carpet for Gas Stove	Design	351118-001	03-12-2021	Yes
49	Extendable size name plate	Design	351108-001	26-11-2021	No
50	Mobile Phone Holding Stand	Design	351117-001	03-12-2021	Yes
51	Door with builtin ladder	Design	351113-001	26-11-2021	No
52	Electrical Socket with Mobile Phone Holder	Design	351114-001	03-12-2021	Yes
53	Multi Utility Pen Stand	Design	351112-001	03-12-2021	Yes
54	Size adjustable feeding bottle	Design	351116-001	26-11-2021	No
55	Cot for Burn Victims	Design	351106-001	03-12-2021	Yes
56	Electronic alpha numeric slate	Design	351119-001	26-11-2021	No
57	A MODIFIED FUZZY C-MEANS ALGORITHM USING FRUIT FLY OPTIMIZATION FOR DATA CLUSTERING	Copy Right	2021106272	21-08-2021	Yes
58	AUTOMATED AGRICULTURAL SYSTEM BASED ON BLUETOOTH TECHNOLOGY	Copy Right	2021104928	19-08-2021	Yes

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 Designs Or Commercial to Industry/S
59	A Method for A Fraud Detection in A Bank Transaction with A Wrapper Model and A Harris Water Optimization-Based Deep Recurrent Neural Network	Copy Right	2021106075	10-11-2021	Yes
60	Navigation technique for industrial cleaning robots with multi height and width adaptability	Copy Right	2021102660	23-06-2021	No
61	LOW ENERGY COMMUNICATOR BETWEEN EXTERNAL PROGRAMMER AND IMPLANTABLE MEDICAL DEVICES USING BLE TECHNOLOGY	Copy Right	2020101619	26-08-2020	Yes
62	A method of text mining in ranking of web pages using machine learning	Copy Right	2021100441	19-05-2021	No
63	Method for Minimizing the Specific Absorption Values of the Multi-Homed Heterogeneous Wireless Devices	Copy Right	2020102248	14-10-2020	Yes
64	An Agricultural Smart Robot Device	Copy Right	2021101399	28-04-2021	No
65	Prevention of food harmfulness from production to customer for centralized kitchen facility using IoT	Copy Right	2020103242	03-04-2021	No
66	AERIAL MANIPULATIVE OMNI DIRECTIONAL DRONES FOR BUILDING CONSTRUCTION	Copy Right	2020102606	11-11-2020	Yes

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 Designs Or Commercial to Industry/S
67	A Table with Adjustable Chairs	Design	345219-001	23-06-2021	No
68	IANM-Data Analysis:INTELLIGENTDATA ANALYSIS (Academic, Non-Academic) USING MACHINE LEARNING PROGRAMMING	Copy Right	2020102877	02-12-2020	Yes
69	PAVC- Improvement Techniques of Free Space Optical Link: PERFORMANCE ANALYSIS AND IMPROVEMENT TECHNIQUES OF FREE SPACE OPTICAL LINK IN VARIOUS ATMOSPHERIC CONDITIONS	Copy Right	2020103328	23-12-2020	Yes
70	A Novel Method of Big Data Retrieval System using Machine Learning	Copy Right	2021100011	03-03-2021	No
71	Study on Modelling and Analysis of a Dynamic Voltage Restorer (DVR) and Sinusoidal Pulse Width Modulation (SPWM) Based Controller	Copy Right	978939188290	25-08-2021	No
72	An Experimental Investigation of Tube-in-Tube Type Heat Exchanger to Enhance Heat Transfer Using Titanium Oxide TiO ₂ -Water Nanofluid	Copy Right	9789813341654	10-03-2021	No
73	Effect of Nanoparticles in Bio-oil on the performance, combustion and emission characteristics of a diesel engine	Copy Right	9781119791980	07-05-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
74	Emission formation in IC engines	Copy Right	9780128239551	09-11-2021	No
75	Power Quality Management	Copy Right	9789356250154	25-08-2021	No
76	Study of Controllers for an Isolated Full Bridge Boost Converter Topology in Fuel Cell Applications: A Comparative Approach	Copy Right	9789391595258	25-08-2021	No
77	Modeling of IOT Enabled Parking Management using Mobile Application	Copy Right	9786203927764	29-06-2021	No
78	Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering	Copy Right	978-981-15-66	27-09-2020	No
79	Basic and Advanced Multiplier Architectures	Copy Right	9786203925609	26-06-2021	No
80	Speech enhancement using statistical based and NMF approaches	Copy Right	9786203860863	14-05-2021	No
81	Harmonic Compensation with Power converter based DG: A Detailed Study	Copy Right	978620-252072	11-08-2020	No
82	Study on Modelling and Analysis of a Dynamic Voltage Restorer (DVR) and Sinusoidal Pulse Width Modulation (SPWM) Based Controller	Copy Right	978939188299	25-08-2021	No
83	Multi-objective Pareto based Optimal Placement and Sizing of Solar PV and Wind Generation System	Copy Right	9789390888467	25-05-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
84	AI Techniques for Harmonic Elimination in Cascaded Multilevel Inverter	Copy Right	9781716200649	12-01-2021	No
85	Power Quality Enhancement for Nonlinear Loads using Active Power Filter	Copy Right	9798718878653	17-03-2021	No
86	Intellegent Control Schemes for Harmonic Elimination in Cascaded Multilevel Invereter	Copy Right	9789390846559	11-05-2021	No
87	Detecting driving information for Transporting using AI Techniques	Copy Right	978935416648	30-09-2020	No
88	Applications of Data Science	Copy Right	9789354166488	30-09-2020	No
89	IOT and AI Applications to fight COVID-19 Pandemic	Copy Right	9789354166488	30-09-2020	No
90	Significance of Hadoop map reduce Process and Data flow in map reduce	Copy Right	9789354166488	30-09-2020	Yes
91	Cognitive Computing Over Artificial Intelligence	Copy Right	9789355268969	20-12-2021	No
92	AI in Cyber Security	Copy Right	9789355268969	20-12-2021	No
93	AI For Facial Emotion Recognition	Copy Right	9789355268969	20-12-2021	No
94	Artificial Intelligence in Farming	Copy Right	9789355268969	20-12-2021	No
95	Artificial Intelligence in HealthCare	Copy Right	9789355268969	20-12-2021	No
96	Artificial Intelligence in Education	Copy Right	9789355268969	20-12-2021	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP Designs Or Commercial to Industry/S
97	Artificial Intelligence in Robotics	Copy Right	9789355268969	20-12-2021	No
98	Artificial Intelligence in Agriculture	Copy Right	9789355268969	20-12-2021	No
99	Shaped Beams for Circular Aperture Antennas	Copy Right	9789811584381	05-01-2021	No
100	Neuromarketing: The New Dawn and Disruption in Marketing Research	Copy Right	978-1-83968-6	21-06-2021	No
101	AI-POWERED HCM: The Analytics and Augmentations	Copy Right	978-1-83969-2	21-11-2021	No
102	Dynamic Business Trends and Innovations in Contemporary Times	Copy Right	978-81-948876	01-12-2020	No
103	Phase change materials for thermal management and energy conservation in buildings	Copy Right	9786203028812	01-11-2020	No
104	Introduction to data science	Copy Right	9789354166488	16-09-2020	No



7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	DEVELOPMENT OF MULTI SENSOR SMART ROBOT FOR INTELLIGENT BORDER SECURITY SURVEILLANCE SYSTEM	202141033795	27-07-2021
2	AUTOMATED AGRICULTURAL SYSTEM BASED ON BLUETOOTH TECHNOLOGY	2021104928	19-08-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
3	A NOVEL METHOD OF BIG DATA RETRIEVAL SYSTEM USING MACHINE LEARNING	2021100011	03-03-2021
4	PAVC- IMPROVEMENT TECHNIQUES OF FREE SPACE OPTICAL LINK: PERFORMANCE ANALYSIS AND IMPROVEMENT TECHNIQUES OF FREE SPACE OPTICAL LINK IN VARIOUS ATMOSPHERIC CONDITIONS	2020103328	23-12-2020
5	A MODIFIED FUZZY C-MEANS ALGORITHM USING FRUIT FLY OPTIMIZATION FOR DATA CLUSTERING	2021106272	21-08-2021
6	IANM-DATA ANALYSIS:INTELLIGENTDATA ANALYSIS (ACADEMIC, NON- ACADEMIC) USING MACHINE LEARNING PROGRAMMING	2020102877	02-12-2020
7	MEASUREMENT AND STUDY OF THERMAL CYCLES AT THE STEEL/ALUMINUM INTERFACE BY BOTH EXPERIMENTAL AND SIMULATION APPROACH	202141055674	10-12-2021
8	IMAGE CONTRAST ENHANCEMENT SYSTEM WITH HYBRID BINARY PARTICLE SWARM OPTIMIZATION AND FLOWER POLLINATION ALGORITHM	202131018752	14-05-2021
9	STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES	202141027064	02-07-2021
10	TRANSMISSION GATE VOLTAGE LEVEL TRANSLATOR FOR DEEP SUB-MICRON TECHNOLOGY	202141028829	09-07-2021
11	AERIAL MANIPULATIVE OMNI DIRECTIONAL DRONES FOR BULIDING CONSTRUCTION	2020102606	11-11-2020
12	IOT BASED SMART CONTROL AND MONITOR VARIOUS ASPECTS OF AUTOMOBILE SYSTEMS	202141033541	06-08-2021
13	PREVENTION OF FOOD HARMFULNESS FROM PRODUCTION TO CUSTOMER FOR CENTRALIZED KITCHEN FACILITY USING IOT	2020103242	03-04-2021
14	INTERACTIVE ELECTRONIC SMART FABRICS AND A DEVICE FOR REMOTELY MONITORING THE VITAL PARAMETERS	202141017212	23-04-2021
15	AN AGRICULTURAL SMART ROBOT DEVICE	2021101399	28-04-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
16	METHOD FOR MINIMIZING THE SPECIFIC ABSORPTION VALUES OF THE MULTI HOMED HETEROGENEOUS WIR	2020102248	14-10-2020
17	THREE AXIS MICRO ELECTRO MECHANICAL SYSTEMS WITH H AND T SHAPED CAPACITIVE COMB ACCELEROMETER	202141012662	02-04-2021
18	A SYSTEM BASED ON DIGITAL IMAGE PROCESSING FOR UTILIZING DIFFERENTIAL IMAGE INTENSITY DETERMINATIONS AND METHOD THEREOF	202121059115	24-12-2021
19	A METHOD OF TEXT MINING IN RANKING OF WEB PAGES USING MACHINE LEARNING	2021100441	19-05-2021
20	LOW ENERGY COMMUNICATOR BETWEEN EXTERNAL PROGRAMMER AND IMPLANTABLE MEDICAL DEVICES USING BLE TECHNOLOGY	2020101619	26-08-2020
21	A FOOD DISPOSAL DEVICE	202041036255	11-09-2020
22	IHY-PREDICTION: INTELLIGENT SYSTEM AND METHOD FOR ADVANCED HARVEST YIELD PREDICTION USING IOT BASED TECHNOLOGY	201941054460	03-01-2020
23	NAVIGATION TECHNIQUE FOR INDUSTRIAL CLEANING ROBOTS WITH MULTI HEIGHT AND WIDTH ADAPTABILITY	2021102660	23-06-2021
24	AUTOMATIC VOLTAGE LEVEL UP/LEVEL DOWN SHIFTER FOR VLSI CIRCUITS	202041017082	05-06-2020
25	COMPUTER IMPLEMENTED METHOD FOR ENHANCED SECURITY OF COLOR IMAGE USING ASYMMETRIC RSA ALGORITHM	202041002481	31-01-2020
26	A METHOD FOR A FRAUD DETECTION IN A BANK TRANSACTION WITH A WRAPPER MODEL AND A HARRIS WATER OPTIMIZATION-BASED DEEP RECURRENT NEURAL NETWORK	2021106075	10-11-2021
27	AUTOMATIC FIRE BALL EJECTING DEVICE	202041002780	31-01-2020
28	SMART WEARABLE REMINDER DEVICE	201941054851	03-01-2020
29	KMC-ML BASED HPCSP ISLANDING DETECTION ALGORITHM TO ESTIMATE THE DG INTEGRATED NETWORK STATE	202141054714	26-11-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
30	DESIGN AND FABRICATION OF TREAD MILL BICYCLE	202141051863	12-11-2021
31	APPARATUS FOR SANITIZING ARTICLES WITH ROTATABLE INNER CHAMBER TO EVENLY DISTRIBUTE UV RADIATION	202141022452	11-06-2021
32	HUMAN SENTIMENT ANALYSIS: NEURAL NETWORK-BASED HUMAN SENTIMENT ANALYSIS USING DEEP LEARNING PROGRAMMING.	202041035805	20-08-2020
33	CONVERSION BASED FAULT IDENTIFIER IN THREE PHASE TRANSFORMER USING WAVELET TRANSFORM TECHNIQUE	202041047385	30-10-2020
34	SUPPORT VALUE BASED CONVOLUTIONAL NEURAL NETWORKS SYSTEM FOR INTERNET OF THINGS 4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT	202041043751	08-10-2020
35	EXPERT SYSTEM FOR DETECTING DROWSINESS IN DRIVERS	202041050058	17-11-2020
36	ENHANCED FINGERPRINT AUTHENTICATION SYSTEM BY GABOR FILTER AND CLASSIFICATION DICTIONARIES LEARNING	202041047364	29-10-2020
37	ECONOMIC ASPECT DESIGNING OF PROTOTYPE LABORATORY MULTI PHASE INDUCTION MACHINE AND VALIDATION OF	202041045361	19-10-2020
38	A NOVEL GLOBAL SECURE MANAGEMENT SYSTEM WITH SMART CARD FOR IOT AND CLOUD COMPUTING	202141000635	07-01-2021
39	MULTI STAGE SHEET BULK METAL DEFORMATION PROCESS USING DIGITAL IMAGE SYSTEM	202041038431	11-09-2020
40	A NOVEL METHOD OF POWER REDUCTION IN MODIFIED AES USING BIT ENCRYPTION AND DECRYPTION TRANSITION SCHEME ON FPGA	202141006425	16-02-2021
41	SURFACE ENGINEERED CORROSION FREE AND ANTIBACTERIAL BIO-IMPLANTS	202041040589	25-09-2020
42	AN AI ABETTED GREEN ENERGY GENERATING SYSTEMS	202141012214	22-03-2021
43	A DECENTRALIZED PRIVACY-PRESERVING MULTI-INSTANCE IRIS AUTHENTICATION DEVICE (DPMIAD)	202141019089	26-04-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
44	LOCALIZED INTELLIGENT VEHICLE-ELECTRIC (LIV-E)	202141007160	26-02-2021
45	METHOD, SYSTEM AND DEVICE FOR CROP DETECTION	202141042413	20-09-2021
46	PATCH ANTENNA, METHOD OF MANUFACTURING AND USING SUCH AN ANTENNA, AND ANTENNA SYSTEM	202111022123	17-05-2021
47	METHOD OF SYNTHESIZING HYBRID METAL WOOD COMPOSITE AND 3D PRINTING THEREOF	02141019607	07-05-2021
48	NEURAL NETWORK FOR REAL TIME SPEECH ENHANCEMENT FOR HEARING IMPAIRED	202141053429	20-11-2021
49	GENERATION OF E-BILL TRANSACTION NUMBER USING BLOCKCHAIN TECHNOLOGY	202141007828	24-02-2021
50	A SENSOR FUSION PRECISION TECHNOLOGY IN AGRICULTURAL AND ITS METHOD AND CONTROLLING PARAMETERS.	202121021172	18-06-2021
51	ARTIFICIAL NEURAL NETWORK BASED DRIVER BEHAVIOUR RECOGNITION FOR AUTOMATED DRIVING OR AUTONOMOUS VEHICLES	20214100956	10-03-2021
52	INTELLIGENT PROPORTIONAL INTEGRAL SLIDING MODE BASED DIRECT POWER CONTROL OF DOUBLE FED INDUCTION GENERATOR WIND TURBINE	202141004236	01-02-2021
53	V-ATM: INTELLIGENT VIRTUAL BANK WITH AUTOMATED TELLER MACHINE	202041003687	07-02-2020
54	pet cleanliness detecting smart belt	327364-001	08-05-2020
55	Utensils stand with waste collector	351100-001	10-12-2021
56	Carpet for gas sensor	351118-001	03-12-2021
57	Extendable size name plate	351108-001	26-11-2021
58	Mobile phone holding stand	351117-001	03-12-2021
59	Electrical socket with mobile phone holder	35114-001	03-12-2021
60	Multi Utility pen stand	351112-001	03-12-2021
61	Size adjustable feeding bottle	351116-001	26-11-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
62	Electronic alpha numeric slate	351119-001	26-11-2021
63	DOOR WITH BUILTIN LADDER	351113-001	26-11-2021
64	SIZE ADJUSTABLE FEEDING BOTTEL	351116-001	26-11-2021
65	COT FOR BURN VICTIMS	351106-001	03-12-2021
66	Vehicle deceleration indication system	374617	16-08-2021
67	A novel method of power quality enhancement in grid integrated system using PV-STATCOM	202141042998	22-09-2021

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
1	201641038756	VEHICLE DECELERATION INDICATING SYSTEM	14-11-2016	Granted	2021
2	202141033795	DEVELOPMENT OF MULTI-SENSOR SMART ROBOT FOR INTELLIGENT BORDER SECURITY SURVEILLANCE SYSTEM	27-07-2021	Published	2021
3	202131018752	IMAGE CONTRAST ENHANCEMENT SYSTEM WITH HYBRID BINARY PARTICLE SWARM OPTIMIZATION AND FLOWER POLLINATION ALGORITHM	14-05-2021	Published	2021
4	202141017212	INTERACTIVE ELECTRONIC SMART FABRICS AND A DEVICE FOR REMOTELY MONITORING THE VITAL PARAMETERS	23-04-2021	Published	2021
5	202041036255	A FOOD DISPOSAL DEVICE	11-09-2020	Published	2020

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
6	202141012662	THREE AXIS MICRO ELECTRO MECHANICAL SYSTEMS WITH H AND T SHAPED CAPACITIVE COMB ACCELEROMETER	02-04-2021	Published	2021
7	202041017082	AUTOMATIC VOLTAGE LEVEL UP/LEVEL DOWN SHIFTER FOR VLSI CIRCUITS	05-06-2020	Published	2020
8	201941054851	SMART WEARABLE REMINDER DEVICE	03-01-2020	Published	2020
9	202141053429	NEURAL NETWORK FOR REAL TIME SPEECH ENHANCEMENT FOR HEARING IMPAIRED	20-11-2021	Published	2021
10	202141054714	KMC-ML BASED HPCSP ISLANDING DETECTION ALGORITHM TO ESTIMATE THE DG INTEGRATED NETWORK STATE	26-11-2021	Published	2021
11	202141042413	METHOD, SYSTEM AND DEVICE FOR CROP DETECTION	20-09-2021	Published	2021
12	202141051863	DESIGN AND FABRICATION OF TREAD MILL BICYCLE	12-11-2021	Published	2021
13	202141019089	A DECENTRALIZED PRIVACY-PRESERVING MULTI-INSTANCE IRIS AUTHENTICATION DEVICE (DPMIAD)	26-04-2021	Published	2021
14	202041047385	CONVERSION BASED FAULT IDENTIFIER IN THREE PHASE TRANSFORMER USING WAVELET TRANSFORM TECHNIQUE	30-10-2020	Published	2020
15	202141012214	AN AI ABETTED GREEN ENERGY GENERATING SYSTEMS	22-03-2021	Published	2021

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
16	202041045361	ECONOMIC ASPECT DESIGNING OF PROTOTYPE LABORATORY MULTI PHASE INDUCTION MACHINE AND VALIDATION OF	19-10-2020	Published	2020
17	202141006425	A NOVEL METHOD OF POWER REDUCTION IN MODIFIED AES USING BIT ENCRYPTION AND DECRYPTION TRANSITION SCHEME ON FPGA	16-02-2021	Published	2021
18	202111022123	PATCH ANTENNA, METHOD OF MANUFACTURING AND USING SUCH AN ANTENNA, AND ANTENNA SYSTEM	17-05-2021	Published	2021
19	202141000635	A NOVEL GLOBAL SECURE MANAGEMENT SYSTEM WITH SMART CARD FOR IOT AND CLOUD COMPUTING	07-01-2021	Published	2021
20	202141007828	GENERATION OF E-BILL TRANSACTION NUMBER USING BLOCKCHAIN TECHNOLOGY	24-02-2021	Published	2021
21	202141009561	ARTIFICIAL NEURAL NETWORK BASED DRIVER BEHAVIOUR RECOGNITION FOR AUTOMATED DRIVING OR AUTONOMOUS VEHICLES	10-03-2021	Published	2021
22	202041047364	ENHANCED FINGERPRINT AUTHENTICATION SYSTEM BY GABOR FILTER AND CLASSIFICATION DICTIONARIES LEARNING	29-10-2020	Published	2020

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
23	202141004236	INTELLIGENT PROPORTIONAL INTEGRAL SLIDING MODE BASED DIRECT POWER CONTROL OF DOUBLE FED INDUCTION GENERATOR WIND TURBINE	01-02-2021	Published	2021
24	202121021172	A SENSOR FUSION PRECISION TECHNOLOGY IN AGRICULTURAL AND ITS METHOD AND CONTROLLING PARAMETERS	18-06-2021	Published	2021
25	202041043751	SUPPORT VALUE BASED CONVOLUTIONAL NEURAL NETWORKS SYSTEM FOR INTERNET OF THINGS 4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT	08-10-2020	Published	2020
26	202141019607	METHOD OF SYNTHESIZING HYBRID METAL WOOD COMPOSITE AND 3D PRINTING THEREOF	07-05-2021	Published	2021
27	202041035805	HUMAN SENTIMENT ANALYSIS: NEURAL NETWORK-BASED HUMAN SENTIMENT ANALYSIS USING DEEP LEARNING PROGRAMMING.	20-08-2020	Published	2020
28	202141022452	APPARATUS FOR SANITIZING ARTICLES WITH ROTATABLE INNER CHAMBER TO EVENLY DISTRIBUTE UV RADIATION	08-05-2020	Published	2020
29	202041002780	AUTOMATIC FIRE BALL EJECTING DEVICE	31-01-2020	Published	2020

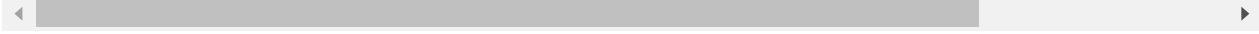
Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
30	202014003687	ADAPTADOR UNIVERSAL PARA FILTRO DE COMBUSTÍVEL	07-02-2020	Published	2020
31	202141007160	LOCALIZED INTELLIGENT VEHICLE-ELECTRIC	26-02-2021	Published	2021
32	202041040589	SURFACE ENGINEERED CORROSION FREE AND ANTIBACTERIAL BIO-IMPLANTS	25-09-2020	Published	2020
33	201941054460	IHY-PREDICTION: INTELLIGENT SYSTEM AND METHOD FOR ADVANCED HARVEST YIELD PREDICTION USING IOT BASED TECHNOLOGY	03-01-2020	Published	2020
34	202041038431	MULTI STAGE SHEET BULK METAL DEFORMATION PROCESS USING DIGITAL IMAGE SYSTEM	11-09-2020	Published	2020
35	202121059115	A SYSTEM BASED ON DIGITAL IMAGE PROCESSING FOR UTILIZING DIFFERENTIAL IMAGE INTENSITY DETERMINATIONS AND METHOD THEREOF	24-12-2021	Published	2021
36	202141033541	IOT BASED SMART CONTROL AND MONITOR VARIOUS ASPECTS OF AUTOMOBILE SYSTEMS	06-08-2021	Published	2021
37	202041050058	EXPERT SYSTEM FOR DETECTING DROWSINESS IN DRIVERS	17-11-2020	Published	2020

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
38	202141027064	STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES	02-07-2021	Published	2021
39	202141055674	MEASUREMENT AND STUDY OF THERMAL CYCLES AT THE STEEL/ALUMINUM INTERFACE BY BOTH EXPERIMENTAL AND SIMULATION APPROACH	10-12-2021	Published	2021
40	351100-001	Utensils Stand With Waste Collector	10-12-2021	Published	2021
41	351119-001	Electronic Alpha Numerical Slate	26-11-2021	Published	2021
42	351106-001	Cot for Burn Victims	03-12-2021	Published	2021
43	351102-001	Adjustable Size Doo	26-11-2021	Published	2021
44	351116-001	Size Adjustable Feeding Bottle	26-11-2021	Published	2021
45	351118-001	Carpet for Gas Stove	03-12-2021	Published	2021
46	351112-001	Multi Utility Pen Stand	03-12-2021	Published	2021
47	351113-001	Door with Builtin Ladder	26-11-2021	Published	2020
48	351108-001	Extendable Size Name Plate	26-11-2021	Published	2021
49	351117-001	Mobile Phone Holding Stand	03-12-2021	Published	2021
50	327364-001	PET CLEANLINESS DETECTING SMART BELT	07-02-2020	Published	2021

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
51	345219-001	A TABLE WITH ADJUSTABLE CHAIRS	12-08-2021	Published	2021
52	351114-001	Electrical Socket with Mobile Phone Holder	11-10-2021	Published	2021
53	2021102660	NAVIGATION TECHNIQUE FOR INDUSTRIAL CLEANING ROBOTS WITH MULTI HEIGHT AND WIDTH ADAPTABILITY	23-06-2021	Granted	2021
54	2021100441	A METHOD OF TEXT MINING IN RANKING OF WEB PAGES USING MACHINE LEARNING	19-05-2021	Granted	2021
55	2021101399	An Agricultural Smart Robot Device	28-04-2021	Granted	2021
56	2020103242	PREVENTION OF FOOD HARMFULNESS FROM PRODUCTION TO CUSTOMER FOR CENTRALIZED KITCHEN FACILITY USING IOT	03-04-2021	Granted	2021
57	2021100011	A NOVEL METHOD OF BIG DATA RETRIEVAL SYSTEM USING MACHINE LEARNING	03-03-2021	Granted	2021
58	2020103328	PAVC- IMPROVEMENT TECHNIQUES OF FREE SPACE OPTICAL LINK: PERFORMANCE ANALYSIS AND IMPROVEMENT TECHNIQUES OF FREE SPACE OPTICAL LINK IN VARIOUS ATMOSPHERIC CONDITIONS	23-12-2020	Granted	2020
59	2020102877	IANM-DATA ANALYSIS:INTELLIGENTDATA ANALYSIS (ACADEMIC, NON-ACADEMIC) USING MACHINE LEARNING PROGRAMMING	02-12-2020	Granted	2020

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year
60	2020102606	AERIAL MANIPULATIVE OMNI DIRECTIONAL DRONES FOR BULIDING CONSTRUCTION	11-11-2020	Granted	2020
61	2020102248	METHOD FOR MINIMIZING THE SPECIFIC ABSORPTION VALUES OF THE MULTI-HOMED HETEROGENEOUS WIRELESS DEVICES	14-10-2020	Granted	2020
62	2020101619	LOW ENERGY COMMUNICATOR BETWEEN EXTERNAL PROGRAMMER AND IMPLANTABLE MEDICAL DEVICES USING BLE TECHNOLOGY	26-08-2020	Granted	2020
63	2021106075	A Method for A Fraud Detection in A Bank Transaction with A Wrapper Model and A Harris Water Optimization-Based Deep Recurrent Neural Network	10-11-2021	Granted	2021
64	2021106272	A MODIFIED FUZZY C-MEANS ALGORITHM USING FRUIT FLY OPTIMIZATION FOR DATA CLUSTERING	21-08-2021	Granted	2021
65	2021104928	Automated Agricultural system based on Bluetooth Technology	19-08-2021	Granted	2021
66	202041002481	201941052488	31-01-2020	Published	2020
67	202141028829	Transmission Gate Voltage Level Translator For Deep Sub Micron Technology	27-06-2021	Published	2021

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
No Data Found				
				

Declaration

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

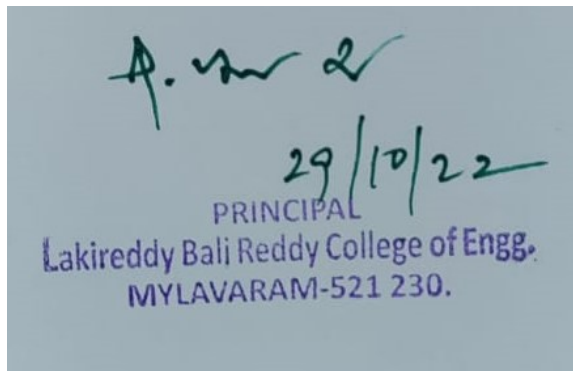
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. K. APPA RAO** (Head of Institute) and **Mr. T RAJASEKHAR** (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

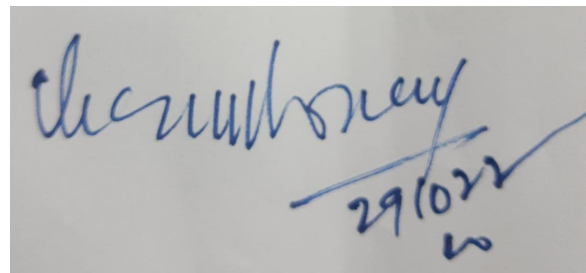
The Head of Institute



A. Rao
29/10/22
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29/10/22

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