

## 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	No

**Contact:**

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### 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)	2
IIC 3.0 (2020-21)	1
IIC 4.0 (2021-22)	3

**Contact:**

IIC President of the Institute:	Dr.G.V.S.N.R.V. Prasad
Designation:	Principal

Email ID:	principal@gecgudlavalleru.ac.in
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### 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	Mr. P. Rama Krishna	Advance	0
2	Gogineni Venkata Jagadeesh	Advance	2
3	Dr.Ch.Bala swamy	Advance	2
4	Dr G Kamal	Advance	2
5	Dr. B. Raja Sekhar	Advance	0
6	Dr. B. MAHESH BABU	Advance	3
7	Dr. D.N.V.S.L.S. Indira	Advance	2
8	Dr.T.Srinivasa Rao	Advance	2
9	Dr. J.A Ranga Babu	Advance	1
10	Dr. S Eswar	Basic	1
11	Dr. Prabhakara Rao Ganji	Advance	1
12	Dr. kalyanraj K	Basic	1

### 1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-18104	Yes
HEI Participated in the Smart India Hackathon (2022)	C-18104	Yes

## Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

## 2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
1	OBJECT ORIENTED PROGRAMMING THROUGH JAVA	CT2507	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
2	UNIX AND SHELL PROGRAMMING LAB	IT2501	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
3	DATA STRUCTURE LAB	CT2508	2020-21	Core Course	Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
4	Business Policy and Strategic Management	BA2913	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	02-11-2020 00:00
5	OBJECT ORIENTED PROGRAMMING LAB	CT2509	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
6	E-Business	BA2915	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	02-11-2020 00:00
7	MICRO PROCESSORS AND MICRO CONTROLLERS	EC2521	2020-21	Core Course	,Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	3	22-01-2021 00:00
8	Security Analysis and Portfolio Management	BA2919	2020-21	Elective Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	02-11-2020 00:00
9	COMPUTER ORGANIZATION AND ARCHITECTURE	CT2512	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-01-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
10	INFORMATION AND COMMUNICATION TECHNOLOGY	IT2503	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
11	SIGNALS AND SYSTEMS	EC2508	2020-21	Elective Course	,Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	3	22-03-2021 00:00
12	Entrepreneurship and Project Management	BA2923	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	22-03-2021 00:00
13	DATA BASE MANAGEMENT SYSTEMS LAB	CT2516	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	22-03-2021 00:00
14	SOFTWARE ENGINEERING	CT2517	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
15	Compensation Management	BA2928	2020-21	Elective Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	22-03-2021 00:00
16	COMPILER DESIGN	CT2518	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
17	WEB TECHNOLOGIES	CT2520	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
18	OPERATION SYSTEMS AND COMPILER DESIGN LAB	IT2507	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
19	WEB TECHNOLOGIES LAB	CT2525	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
20	ARTIFICIAL INTELLIGENCE	CT2521	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00



Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
21	EMBEDDED SYSTEM DESIGN	EC2512	2020-21	Elective Course	,Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	3	02-11-2020 00:00
22	Object Oriented Programming through Java 4	CT2507	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
23	Data Structures Lab	CT2508	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
24	Object Oriented Programming Lab	CT2509	2020-21	Core Course	Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
25	UNIX Programming Lab	CT2503	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
26	Formal Languages and Automata Theory	CT2511	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	22-03-2021 00:00
27	Computer Organization and Architecture	CT2512	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	22-03-2021 00:00
28	Operating Systems Lab	CS2504	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	22-03-2021 00:00
29	Database Management Systems Lab	CT2516	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	22-03-2021 00:00
30	Software Engineering	CT2517	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
31	Compiler Design	CT2518	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
32	Computer Networks	CT2519	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
33	Web Technologies	CT2520	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
34	Computer Networks and Compiler Design Lab	CS2509	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
35	Web Technologies Lab	CT2525	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
36	COMPUTER GRAPHICS	CT2514	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
37	ADVANCED DATA STRUCTURES	CT2522	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
38	SYSTEM SOFTWARE	CT2515	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
39	Linear Integrated Circuits Applications	EC2536	2021-22	Core Course	Bachelor	Electronics and communication engineering	3	01-09-2021 00:00
40	CMOS digital IC design	EC2517	2021-22	Core Course	Bachelor	electronics and communication engineering	3	27-09-2021 00:00
41	Digital Communications	EC2537	2021-22	Core Course	,Bachelor	Electronics and Communication Engineering	2	01-09-2021 00:00
42	Embedded System Design	EC2512	2021-22	Core Course	,Bachelor	Electronics and communication engineering	2	27-09-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
43	Antennas and Wave Propagation	EC2538	2021-22	Core Course	,Bachelor	Electronics and communication engineering	3	01-09-2021 00:00
44	Principles of VLSI Design	EC2539	2021-22	Core Course	,Bachelor	Electronics and Communication Engineering	2	01-09-2021 00:00
45	Electronic Measurements and Instruments	EC2556	2021-22	Core Course	,Bachelor	Electronics and communication engineering	2	27-09-2021 00:00
46	Electronics Devices	EC2525	2020-21	Elective Course	,Bachelor	Electronics And Communications Engineering	3	02-10-2020 00:00
47	Microwave and Optical Communications Lab	EC2564	2020-21	Core Course	,Bachelor	Electronics and Communication engineering	2	27-09-2021 00:00
48	Mini project on Smart Applications	EC2565	2020-21	Core Course	,Bachelor	Electronics and Communication engineering	2	27-09-2021 00:00
49	Signals and Systems	EC2508	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	3	02-10-2020 00:00
50	Engineering Economics and Project Management	BA2501	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	2	02-10-2020 00:00
51	Data Warehousing and Data Mining	CT2528	2021-22	Elective Course	,Bachelor	Electronics and communication engineering	3	01-09-2021 00:00
52	Electromagnetic Field Theory	EC2526	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	3	02-10-2020 00:00
53	Mechatronics	ME2549	2021-22	Elective Course	,Bachelor	Electronics and communication engineering	3	01-09-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
54	Disaster Management	CE2562	2021-22	Elective Course	,Bachelor	Electronics and Communication engineering	3	27-09-2021 00:00
55	Introduction to MEMS	EC2544	2021-22	Elective Course	,Bachelor	Electronics and communication engineering	3	01-09-2021 00:00
56	Modern Optimization Techniques	EE2542	2021-22	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	27-09-2021 00:00
57	Problem Solving Using C	CT3501	2021-22	Core Course	Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	4	29-10-2021 00:00
58	Transmission Lines and Waveguides	EC2528	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	3	22-09-2021 00:00
59	Green Engineering	ME2553	2021-22	Elective Course	,Bachelor	Mechanical Engineering	3	27-09-2021 00:00
60	Analog Circuits	EC2529	2020-21	Elective Course	Bachelor	Electronics and Communication Engineering	3	22-09-2021 00:00
61	Data Science	CS2508	2021-22	Elective Course	,Bachelor	Comuter Science and Engineering	3	01-09-2021 00:00
62	Geoinformatics	CE2530	2021-22	Elective Course	,Bachelor	CE	3	01-09-2021 00:00
63	Analog Communications	EC2530	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	2	22-09-2021 00:00
64	Fuzzy logic	MA2514	2021-22	Elective Course	Bachelor	Basic Science and Humanities	3	27-09-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
65	Power Systems Engineering	EE2524	2021-22	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	01-09-2021 00:00
66	Digital Circuit Design	EC2505	2020-21	Elective Course	Bachelor	Electronics and Communication Engineering	3	22-03-2021 00:00
67	Electronic Workshop	EC3503	2021-22	Core Course	Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	2	29-12-2021 00:00
68	Computer and Communication Networks	EC2542	2021-22	Elective Course	,Bachelor	ECE	3	01-09-2021 00:00
69	Cellular and Mobile Communications	EC2558	2021-22	Elective Course	,Bachelor	Electronics and Communication engineering	3	27-09-2021 00:00
70	Biomedical Engineering	EC2507	2021-22	Elective Course	,Bachelor	ECE	3	01-09-2021 00:00
71	WEB PROGRAMMING	IT2502	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-12-2020 00:00
72	Satellite Communication	EC2562	2021-22	Elective Course	,Bachelor	Electronics and Communication engineering	3	27-09-2021 00:00
73	Digital Signal Processing	EC2511	2021-22	Core Course	,Bachelor	ECE	3	01-09-2021 00:00
74	Introduction to Python Programming	CS2502	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	3	19-03-2021 00:00
75	Low Power VLSI Circuits	EC2569	2021-22	Elective Course	,Bachelor	Electronics and Communication engineering	3	24-03-2022 00:00

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76	Control Systems	EE2512	2021-22	Core Course	Bachelor	ECE	3	10-07-2022 00:00
77	RADAR Engineering	EC2575	2021-22	Elective Course	,Bachelor	Electronics and Communication engineering	3	24-07-2022 00:00
78	Electronic Switching Systems	EC2534	2020-21	Elective Course	,Bachelor	Electronics and Communication Engineering	3	22-07-2021 00:00
79	OPEN SOURCE SOFTWARE	IT2505	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
80	Microprocessors Microcontrollers and Applications	EC2510	2021-22	Core Course	Bachelor	ECE	3	10-07-2022 00:00
81	Smart Antennas	EC2550	2021-22	Elective Course	Bachelor	ECE	3	10-07-2022 00:00
82	Project	EC2577	2021-22	Core Course	,Bachelor	Electronics and Communication engineering	4	24-07-2022 00:00
83	Industrial Training Program	EC2566	2021-22	Core Course	Bachelor	Electronics and Communication engineering	2	27-07-2021 00:00
84	Cyber Security	CS2513	2021-22	Elective Course	Bachelor	Computer Science and Engineering	3	10-07-2022 00:00
85	Hydrology	CE2543	2021-22	Elective Course	Bachelor	CE	3	10-07-2022 00:00
86	DATA WAREHOUSING AND DATA MINING	CT2528	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-07-2021 00:00

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87	Renewable Energy Sources	ME2542	2021-22	Elective Course	Bachelor	Mechanical Engineering	3	10-07-2022 00:00
88	OBJECT ORIENTED ANALYSIS AND DESIGN	IT2510	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
89	Big Data Analytics	CT2534	2021-22	Elective Course	Bachelor	ECE	3	10-07-2022 00:00
90	COMPUTER NETWORKS	CT2519	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
91	COMPUTER NETWORKS AND DATA MINING LAB	IT2513	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	22-03-2021 00:00
92	SECURE WEB TECHNOLOGIES	IT2514	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
93	Cognitive Radio Networks	EC2554	2021-22	Elective Course	Bachelor	ECE	3	10-07-2022 00:00
94	Cryptography and Network Security	CT2533	2021-22	Elective Course	Bachelor	ECE	3	10-07-2022 00:00
95	SOFT COMPUTING TECHNOLOGIES	IT2511	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
96	REAL TIME SYSTEMS	IT2512	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00
97	IMAGE PROCESSING	CT2530	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-03-2021 00:00

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98	Problem Solving Using C	CT3501	2020-21	Core Course	Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	4	06-07-2021 00:00
99	AGILE SOFTWARE DEVELOPMENT PROCESS	CT2532	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-07-2021 00:00
100	Electronic Workshop	EC3503	2020-21	Core Course	Bachelor	ELECTRONICS AND COMMUNICATION ENGINEERING	2	06-07-2021 00:00
101	CMOS Digital IC Design	EC2517	2020-21	Core Course	Bachelor	Electronics and Communication engineering	3	02-11-2020 00:00
102	SCRIPTING LANGUAGES	CT2529	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	22-07-2021 00:00
103	Engineering Economics and Project Management	BA2501	2021-22	Core Course	,Bachelor	Electronics and Communication Engineering	2	08-11-2021 00:00
104	Embedded System Design	EC2512	2020-21	Core Course	,Bachelor	electronics and communication engineering	2	02-11-2020 00:00
105	Electronic Measurements and Instrumentation	EC2556	2020-21	Core Course	,Bachelor	electronics and communication engineering	2	02-11-2020 00:00
106	Mini Project on Smart Applications	EC2565	2020-21	Core Course	,Bachelor	electronics and communication engineering	2	02-11-2020 00:00
107	INTERNSHIP	EC2566	2020-21	Core Course	Bachelor	Institute Level	2	02-11-2020 00:00



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108	Cellular and Mobile Communications	EC2558	2020-21	Elective Course	,Bachelor	electronics and communication engineering	3	02-11-2020 00:00
109	Satellite Communication	EC2562	2020-21	Elective Course	,Bachelor	electronics and communication engineering	3	02-11-2020 00:00
110	Green Engineering	ME2553	2020-21	Elective Course	,Bachelor	MECHANICAL ENGINEERING	3	02-11-2020 00:00
111	Low Power VLSI Circuits	EC2569	2020-21	Elective Course	,Bachelor	electronics and communication engineering	3	29-08-2021 00:00
112	RADAR Engineering	EC2575	2020-21	Elective Course	,Bachelor	electronics and communication engineering	3	29-08-2021 00:00
113	Project	EC2577	2020-21	Core Course	,Bachelor	electronics and communication engineering	4	29-08-2021 00:00
114	BIG DATA ANALYTICS	CT2534	2020-21	Core Course	Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
115	BIG DATA ANALYTICS LAB	CT2538	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	2	02-11-2020 00:00
116	MINI PROJECT	IT2522	2020-21	Core Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
117	MACHINE LEARNING AND PATTERN RECOGNITION	IT2517	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00
118	DISTRIBUTED OPERATING SYSTEM	IT2518	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-11-2020 00:00

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119	HUMAN COMPUTER INTERACTION	CT2526	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-17-2020 00:00
120	SOFTWARE TESTING METHODOLOGIES	CT2523	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-17-2020 00:00
121	BUSINESS INTELLIGENCE	CT2519	2020-21	Elective Course	,Bachelor	INFORMATION TECHNOLOGY	3	02-17-2020 00:00
122	Business Environment and Legislation	BA3906	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	08-07-2021 00:00
123	Quantitative Analysis for Business Decisions	MA3907	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	08-07-2021 00:00
124	Financial Management	BA3910	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00
125	Marketing Management	BA3911	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00
126	Human Resource Management	BA3912	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00
127	Production and Operations Management	BA3913	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00
128	Business Research Methods	BA3914	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00
129	International Business	BA3915	2020-21	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	21-06-2021 00:00

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130	Quantitative Analysis for Business Decisions	MA3907	2021-22	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	03-07-2022 00:00
131	Business Policy AND Strategic Management	BA3917	2021-22	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	4	08-11-2021 00:00
132	Logistics and Supply Chain Management	BA3918	2021-22	Core Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	08-11-2021 00:00
133	Design and Analysis of Algorithms	CT2527	2020-21	Core Course	Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
134	Data Warehousing and Data Maining	CT2528	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
135	UML and Design Patterns	CS2511	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
136	Data Mining Lab	CS2514	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
137	Cyptography and Network Secuirty	CT2533	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
138	Big Data Analytics	CT2534	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	3	02-11-2020 00:00
139	Big Data Analytics Lab	CT2538	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00
140	Cryptography and Network Security Lab	CS2523	2020-21	Core Course	,Bachelor	Comuter Science and Engineering	2	02-11-2020 00:00

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141	Object Oriented Programming through Java	CT3511	2021-22	Core Course	,Bachelor	Comuter Science and Engineering	3	18-10-2021 00:00
142	Java Programming Lab	CT3514	2021-22	Core Course	,Bachelor	Comuter Science and Engineering	2	18-10-2021 00:00
143	Database Management Systems Lab	CT3515	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	18-10-2021 00:00
144	Design and Analysis of Algorithms	CS3501	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	28-07-2022 00:00
145	Software Engineering	CS3502	2021-22	Core Course	,Bachelor	Computer Science and Engineering	4	28-07-2022 00:00
146	Operating Systems Lab	CT3523	2021-22	Core Course	,Bachelor	Computer Science and Engineering	1	28-07-2022 00:00
147	Software Engineering	CT2517	2021-22	Core Course	Bachelor	Computer Science and Engineering	3	01-08-2021 00:00
148	Compiler Design	CT2518	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	01-08-2021 00:00
149	Computer Networks	3 CT2519	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	01-08-2021 00:00
150	Web Technologies	CT2520	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	01-08-2021 00:00
151	Computer Networks and Compiler Design Lab	CS2509	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	01-08-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
152	Web Technologies Lab	CT2525	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	01-09-2021 00:00
153	Design and Analysis of Algorithms	CT2527	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	10-09-2022 00:00
154	Data Warehousing and Data Mining	CT2528	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	10-09-2022 00:00
155	UML and Design Patterns	CS2511	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	10-09-2022 00:00
156	Data Mining Lab	CS2514	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	10-09-2022 00:00
157	Cryptography and Network Security	CT2533	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	10-09-2022 00:00
158	Big Data Analytics	CT2534	2021-22	Core Course	,Bachelor	Computer Science and Engineering	3	10-09-2022 00:00
159	Big Data Analytics Lab	6 CT2538	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	10-09-2022 00:00
160	Cryptography and Network Security Lab	CS2523	2021-22	Core Course	,Bachelor	Computer Science and Engineering	2	10-09-2022 00:00
161	DESIGN OF RC STRUCTURES	CE2538	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	3	10-09-2022 00:00
162	STRUCTURAL ENGINEERING LAB	CE2545	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	2	10-09-2022 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
163	HIGHWAY ENGINEERING LAB	CE2546	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	2	10-07-2022 00:00
164	GROUND WATER DEVELOPMENT AND MANAGEMENT	CE2541	2021-22	Elective Course	,Bachelor	CIVIL ENGINEERING	3	10-07-2022 00:00
165	PROJECT MANAGEMENT AND FINANCE	CE2551	2021-22	Core Course	Bachelor	CIVIL ENGINEERING	3	27-09-2021 00:00
166	COMPUTER APPLICATIONS IN CIVIL ENGINEERING LAB	CE2564	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	2	27-09-2021 00:00
167	GEOTECHNICAL ENGINEERING LAB	CE2532	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	2	01-09-2021 00:00
168	WATER AND WASTE WATER ENGINEERING LAB	CE2533	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	2	01-09-2021 00:00
169	CONCRETE TECHNOLOGY	CE2513	2020-21	Core Course	,Bachelor	CIVIL ENGINEERING	3	22-08-2021 00:00
170	GEOTECHNICAL ENGINEERING	CE2523	2020-21	Core Course	,Bachelor	CIVIL ENGINEERING	2	02-11-2020 00:00
171	WATER AND WASTE WATER ENGINEERING	CE2525	2020-21	Core Course	,Bachelor	CIVIL ENGINEERING	3	02-11-2020 00:00
172	GEOTECHNICAL ENGINEERING LAB	CE2532	2020-21	Core Course	,Bachelor	CIVIL ENGINEERING	2	02-11-2020 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
173	WATER AND WASTE WATER ENGINEERING LAB	CE2533	2020-21	Core Course	,Bachelor	CIVIL ENGINEERING	2	02-11-2020 00:00
174	ENGINEERING GEOLOGY AND GEO-SPATIAL APPLICATIONS	CE3507	2021-22	Core Course	,Bachelor	CIVIL ENGINEERING	3	18-11-2021 00:00
175	HR Analytics	BA3926	2021-22	Elective Course	Master	MASTER OF BUSINESS ADMINISTRATION	3	08-11-2021 00:00
176	ENGINEERING ECONOMICS AND PROJECT MANAGEMENT	BA2501	2020-21	Core Course	Bachelor	Electrical and Electronics Engineering	2	22-01-2021 00:00
177	Microprocessors Microcontrollers and Its Applications	EC2510	2020-21	Core Course	,Bachelor	Electrical and Electronics Engineering	3	22-01-2021 00:00
178	Engineering Optimization	MA2512	2020-21	Core Course	Bachelor	Electrical and Electronics Engineering	2	02-11-2020 00:00
179	Electrical and Hybrid Vehicles	EE2531	2020-21	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	02-11-2020 00:00
180	Modeling Simulation of Engineering Systems	EE2523	2020-21	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	02-11-2020 00:00
181	Electrical Power Utilization	EE2543	2020-21	Elective Course	,Bachelor	Electrical and electronics engineering	3	02-11-2020 00:00
182	Special Electrical Machines	EE2553	2020-21	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	29-01-2021 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
183	Modern Optimization Techniques	EE2542		Elective Course	,Bachelor	Electrical and Electronics Engineering	3	02-11-2020 00:00:00
184	Python Programming	CT3508	2021-22	Core Course	,Bachelor	Electrical and Electronics Engineering	3	18-11-2021 00:00:00

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

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date
1	Full Stack Application Development	2021-22	Faculty Development Program (FDP)	Industry/Non-Govt.	CSE	15-06-2022 00:00:00
2	Game Programming Using 3D with C	2021-22	Short-term Certificate Program	State Govt. Agency	CSE	04-04-2022 00:00:00
3	Deep Learning for Real Time Research Applications	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	CSE	03-01-2022 00:00:00
4	Robotics Process Automation	2021-22	Faculty Development Program (FDP)	Industry/Non-Govt.	CSE	23-08-2021 00:00:00
5	Cyber Security	2020-21	Faculty Development Program (FDP)	Industry/Non-Govt.	CSE	22-07-2020 00:00:00



Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date
6	Introduction to software tools and their applications in electrical engineering	2021-22	Short-term Certificate Program	Self Sponsored/Supported	EEE	06-09-2021 00:00:00
7	AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-I	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	EEE	03-08-2020 00:00:00
8	AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-II	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	EEE	21-09-2020 00:00:00
9	AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-III	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	EEE	16-11-2020 00:00:00
10	AUTOMATION AND INTELLIGENT CONTROL OF ELECTRICAL SYSTEMS - Phase-IV	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	EEE	15-03-2021 00:00:00
11	INTELLIGENT CONTROL TECHNIQUES FOR ELECTRICAL SYSTEMS	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	EEE	31-01-2022 00:00:00

<b>Srno</b>	<b>Title of Course</b>	<b>Academic Year</b>	<b>Type of Certificate Program</b>	<b>Certificate Program/MDP/FDP/EDP Sponsored/Supported by</b>	<b>Certificate Program Offering Department/ Centre/ Unit Name</b>	<b>Program Start Date</b>
12	ADVANCES IN OPTIMIZATION AND CONTROL OF ELECTRICAL ENGINEERING SYSTEMS	2021-22	Faculty Development Program (FDP)	Central Govt. Agency	EEE	11-07-2022 00:00:00
13	A One Week FDP on Hands on Training with Etabs	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering Department	07-03-2022 00:00:00
14	Issues and Challenges in Business Management	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Business and Management Studies	22-07-2021 00:00:00
15	Sketchup	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Civil Engineering Department	24-06-2021 00:00:00
16	Recent Advancements in Special Concretes	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering	26-10-2020 00:00:00
17	One Week Online Faculty Development Program on Research Trends in Mechanical Engineering	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Mechanical Engineering	15-06-2020 00:00:00
18	Innovations in Civil Engineering (ICE)	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering	22-03-2021 00:00:00

<b>Srno</b>	<b>Title of Course</b>	<b>Academic Year</b>	<b>Type of Certificate Program</b>	<b>Certificate Program/MDP/FDP/EDP Sponsored/Supported by</b>	<b>Certificate Program Offering Department/ Centre/ Unit Name</b>	<b>Program Start Date</b>
19	Recent Advancements in Geotechnical and Transportation Engineering (RAGTE)	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering	21-06-2021 00:00:00
20	One Week Online Faculty Development Programme on Recent Trends in Thermal Engineering	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Mechanical Engineering	06-09-2021 00:00:00
21	One Week Online Faculty Development Programme on Emerging Trends in Mechanical Engineering	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Mechanical Engineering	20-06-2022 00:00:00
22	Effects of soil structure Interaction on Structures against Static and Dynamic Loads	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering	03-02-2020 00:00:00
23	Civil Engineering Research A Step Forward	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Civil Engineering	25-05-2020 00:00:00
24	Robotics Process Automation	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Information Technology	23-08-2021 00:00:00

<b>Srno</b>	<b>Title of Course</b>	<b>Academic Year</b>	<b>Type of Certificate Program</b>	<b>Certificate Program/MDP/FDP/EDP Sponsored/Supported by</b>	<b>Certificate Program Offering Department/ Centre/ Unit Name</b>	<b>Program Start Date</b>
25	Millimeter Wave Frequencies phase 2	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	Electronics and communicatio	16-03-2021 00:00:00
26	Blockchain Architecture Design and Use Cases Decentralized Network Synchronization phase1	2020-21	Short-term Certificate Program	Central Govt. Agency	Electronics and Communication Engineering	10-08-2020 00:00:00
27	Blockchain Architecture Design and Use Cases phase2	2020-21	Short-term Certificate Program	Central Govt. Agency	Electronics and communication engineering	17-08-2020 00:00:00
28	Blockchain Architecture Design and Use Cases phase3	2020-21	Short-term Certificate Program	Central Govt. Agency	Electronics and Communication Engineering	24-08-2020 00:00:00
29	Internet of Things	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Electronics and communication engineering	07-12-2020 00:00:00
30	Millimeter Wave Frequencies phase2	2020-21	Short-term Certificate Program	Central Govt. Agency	Electronics and communication engineering	16-11-2020 00:00:00
31	Embedded System Design	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Electronics and communication engineering	27-07-2020 00:00:00
32	Millimeter Wave Frequencies Phase3	2021-22	Short-term Certificate Program	Central Govt. Agency	Electronics and Communication Engineering	17-12-2020 00:00:00

<b>Srno</b>	<b>Title of Course</b>	<b>Academic Year</b>	<b>Type of Certificate Program</b>	<b>Certificate Program/MDP/FDP/EDP Sponsored/Supported by</b>	<b>Certificate Program Offering Department/ Centre/ Unit Name</b>	<b>Program Start Date</b>
33	Short term course on Python Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	06-06-2022 00:00:00
34	One week workshop on Python Programming	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	22-11-2020 00:00:00
35	One week Training program on Value added course on design of IoT	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	14-09-2020 00:00:00
36	Workshop on Fundamentals of Drone Technology	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Electronics and Communication Engineering	27-07-2020 00:00:00
37	FDP on Fullstack Application Development	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Information Technology	15-06-2022 00:00:00
38	FDP-on Data Sciences	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	Department of Information Technology	19-07-2020 00:00:00
39	FDP on Cyber Security	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Information Technology	22-07-2020 00:00:00
40	FDP on Blockchain Technologies	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Information Technology	09-06-2020 00:00:00

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date
41	FDP on Data Science and Data Analytics through Python R Programming	2020-21	Faculty Development Program (FDP)	Central Govt. Agency	Department of Information Technology	27-01-2020 00:00:00

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

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

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
1	New Gen IEDC	Dassault Three D experience centre	Mr. D.Kiran Prasad	9951074958	dkpsir@gmail.com
2	New Gen IEDC	Andhra Pradesh State Skill Development Center	Dr.Ch Suresh Babu	9676021214	sureshdani2004@@gmail.com

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
3	Innovation Cell	CONCRETE TECHNOLOGY LABORATORY	K.Venkateswara Rao	8297704888	raokalyanapu@gmail.com
4	Innovation Cell	WEL CENTER	N.HARI PAVAN	9014345098	haripavan@gecgudlavalallerumic.in
5	Innovation Cell	Geotechnical Engineering Laboratory	V.Phani Kumar	9885606107	phani.611@gmail.com
6	Innovation Cell	Advanced Structural Engineering Laboratory	Dr A.H.L Swarrop	9491678603	ahlscivil@gmail.com
7	Innovation Cell	Industrial IoT Laboratory	Mr N.Samba Murthy	9959934656	sambanaga009@gmail.com
8	Innovation Cell	Microwave and Optical Communication Laboratory	Dr.V V K D V Prasad	9347007680	varaprasadvvkd@gecgudlavalallerumic.ir
9	Innovation Cell	CAD/CAM Laboratory	Mr A.Rajesh	9966788012	rajesh34301@gmail.com
10	Innovation Cell	Database Laboratory	Mrs.Y.V.N.Tulasi , Assistant Professor	9491754941	tulasi.kp1@gmail.com

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

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	SRGECTECHDOC	Dr B.Mahesh Babu	8555026043	bannu219@gmail.com	Own Resource

### 3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	IPR Cell	IP Unit	Dr. B. Rajasekhar	9849128005	surajb2000@gmail.com	Mentoring Support,Seed Grant 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),Investment - Angel a

## 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	Traffic Light Negotiation and Perception-Based Detection	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	PERA MANOJ



Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
2	Traffic Light Negotiation and Perception-Based Detection	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	PERA MANOJ
3	A walking Robot using Jansen's mechanism	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Chelley Samuel Sandeep
4	smart gloves	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	VANUKURI HARIKA
5	Krishak Direct Marketing	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	KESARA CHENNA PRATHEEK REDDY
6	MANHOLE MONITORING SYSTEM USING IoT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	PULI SAI VARDHAN

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
7	IOT BASED ELECTRICITY ENERGY METER USING BLYNK APPLICATION	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bandreddi Naga Mani
8	CAR SPEED DETECTING USING ARDUINO	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Anisetti Kranti Ramya
9	Safety system for mine workers using ARM processor	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Ganji Siva Prasad
10	Loan Prediction Using Random Forest Classifier	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mutnuri Bhavagjna
11	Lifi data transfer system	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Chede.Anusha

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
12	Predicting and Alerting of Road Accidents	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	pakala vinay
13	DRIVER DROWSINESS DETECTION AND ALERTING WITH OPENCV & DLIB	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Pasupuleti seetha ram pradeep
14	Covid Cases Prediction	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Poojitha Pakala
15	Parkinson's Disease Prediction	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bollarapu Gracy Chrysolite
16	Distance and Height measurement using UltraSonic Sensor and Arduino	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Emani Bhargavi
17	IOT BASED RAILWAY TRACK CRACK DETECTION AND ALERT SYSTEM	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	G.Gnan Venkata Sai Vardhan Kumar

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
18	AI Based Attendance Monitoring System.	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	POTHARLANKA CHANDRIKA
19	Automatic Rain Protection Roof	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Nadakudithi.Indu
20	Heart Disease Prediction Using Machine Learning	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Perugu Prabhakar
21	IoT Based Smart Helmet For Accident Detection	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mohammad Aqeela Furqana
22	Parkinson's disease Prediction	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bollarapu Gracy Chrysolite

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
23	Covid-19 Vaccine Analysis with python	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Poojakumari
24	HAND GESTURE CONTROLLED COMPUTER	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Yasaswi Mahali
25	IOT web controlled Smart Notice Board	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	PILLI VENKATA RAMIREDDY
26	Obstacle avoiding robot using arduino	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Munjuluri Sai Sasi Priya
27	Accident Prevention Zebra Crossing Gate Using Aurdino	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Neeraja Lakshmi Baswani

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
28	Detection of Non-Helmet Rider and License Plate using YOLO	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Nuthalapati Kavya
29	Online organ donation management system	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Pari Chandrika
30	EARTHQUAKE DETECTION ALARM WITH SEISMIC GRAPH USING ACCELEROMETER	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Manaswini Munnangi
31	Smart Dustbin	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	M.Lakshmitha
32	STEM CELL BANKING	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sreeja Pandu
33	Online College Admission System	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	N V L Gnana Deepak Challapalli

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
34	Automatic Temperature Based Fan Speed Controller	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mallapragada Vyshnavi
35	Arduino UNO Fingerprint door lock	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Vimala Neelapala
36	ONLINE CAR SHOWROOM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Appala Yochana
37	Online Campus Recruitment System	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	kagitha vinay
38	An interactive computer system with gesture based mouse	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Desu Vasavi sri priya

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
39	Solar panel power monitoring system using NODEMCU and Thingspeak	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	ADDALA ROHITASAI
40	IoT Based Smart Currency Counter using NodeMCU and Arduino IDE	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	MODALA MAHESH
41	Automatic Monitoring of Beds Availability in Hospitals	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	BHAVANAM SREE POOJITHA
42	Uni Board	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sri Jayaram Kavuri
43	Rental House Management System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Durisetty Aasritha



Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
44	GSM BASED ECG TELE-ALERT SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bathina Pavani
45	Movie Ticket Pricing System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	BEZAWADA SRAVANI
46	MINI PORTABLE REFRIGERATOR	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Olla Harshitha Komali
47	Weather monitoring for crop cultivation using Arduino	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	MERUGA SRAVANI DEVI
48	Online farming procurement	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Abhiram Polagani

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
49	IOT BASED SMART WASTE MANAGEMENT FOR SMART CITIES	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Sai Deepak Jannu
50	E-Voting using PHP	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kotte Shanmukha priya
51	Prediction Of Water Quality For Aquaculture Using Machine Learning	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Nikhitha Tirumalasetti
52	AC POWER STRENGTH CONTROLLER SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Navya Morampudi
53	AUTO TEMPERATURE DETECTOR FOR ENTRANCE FOR COVID SAFETY	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	NAGA YASWANTH PAVAN KUMAR MUVVALA

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
54	Battery Temperature Monitoring System for Electric vehicles	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dasari Prathyusha
55	IOT BASED SOLAR POWER CONTROL	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	MOCHARLA PAVANI
56	IOT Based Distribution Transformer Health Monitoring System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Navya Vinnakota
57	Color detection device for color blindness people	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kammara Baby Amulya
58	DESIGN AND IMPLEMENTATION OF AUTOMATIC RAIN SENSING CAR WIPER	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Meghana Mamillapalli

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
59	IOT BASED INDOOR AIR QUALITY MOINTORING SYSTEM	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	SEELAM VEERA NARAYANA REDDY
60	POWER GENERATION BY USING SPEED BREAKERS	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Segu Sri Harshitha
61	IOT BASED CIRCUIT BREAKER	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kollareddy Gayathri
62	Power Efficient Mini Inverter	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Majeti.Pavan satya manikanta
63	Smart wearable ring	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kadakuditi Jayanth

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
64	Alexa Controlled Classroom Automation	Academic Requirement/Study Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	Vallurupalli Naga Venkata Harshitha
65	Smart Shopping Trolley with Automated Billing using Arduino	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Meghana Naga Venkata Madhuri Tunuguntla
66	ARDUINO BASED SMART PHONE CHARGING CONTROLLER	Academic Requirement/Study Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	NUNNA BHARGAVI
67	Bus Stop remainder for blind person using Arduino uno through voice message	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Kundeti.Bhagyasri
68	DIGITAL TACHOMETER USING ARDUINO NANO	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kota Vijay babu
69	CYCLE SWITCHING WITHOUT HARMONICS FOR INDUSTRIAL POWER CONTROL	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Venkata Narayana Jannu

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
70	RFID - Enabled Arduino Solenoid Door Lock	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Immadi Vidhya
71	Solar Irradiance Measurement Meter	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kammela Meghana
72	Smart WIFI Video Doorbel Using ESP32 Cam	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kathika Srilakshmi
73	PREVENTION OF ACCIDENTS AT U TURN	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	BANALA RAJU
74	Voice controlled home automation for people with disabilities	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	KALATHOTI KOMALI

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
75	To detect the underground cable fault by using IOT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Badugu Dinesh Babu
76	Finding missing person	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Chandrika
77	Density Based Traffic Control Using Aurdino and IR Sensors	Academic Requirement/Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	KONATHAM LIKHITHA
78	Blog Site for sharing interview and career experiences	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Naga Sai Tejeswara Reddy Goluguri
79	Face mask detection using deep learning	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	chennuri sravanthih

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
80	WEBSITE BLOCKER USING PYTHON	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	GRANDHE PRASANTH
81	Data Concealer	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Kandipalli Durga Prasanth
82	PERSONAL FINANCIAL ANALYSIS	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	GORLA ANUSHA
83	Cold Storage Management System for Farmers	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Bala Sankaru Golla
84	Travel Agency Management System	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Bandi Rajesh



Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
85	Voice Assistant using Python	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Boddu Jitendra Sai
86	Plan Your House Today	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Annamaneni Teja Naga Srinivasarao
87	Smart Watering System Using IOT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Bonthu Anusha
88	An Online Website for Driving School	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	ANNAM SRAVYA SRI
89	Accident Prevention In Hilly Areas	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Girada Vinay Kumar

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
90	Resume Builder	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Nandini Bathini
91	Drone Detector	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mantri Hima Sameera
92	IOT SMART ELECTRIC LIGHT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Renduchintala Sri Pavana Lakshmi Suvarna
93	Pneumonia Detection	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Ganta Deep Aman
94	WIND POWER ESTIMATION FOR RENEWABLE ENERGY PLANT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	NADELLA YOGITHA

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
95	Age and Gender Prediction using Deep Learning	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Garikapati Nikhila Sai Vijaya Sri
96	Solar powered battery charging with reverse current protection	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kandikonda Dinesh Karthik
97	Wireless Fan	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Samidesi Prashanth Raju
98	Iris vision electronic system for visually impaired	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kodavalla Monalika
99	Arduino based Smart Parking	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	CHAVALI MANOJ KUMAR

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
100	MAIL GENERATION FOR PRICE TRACKING OF A PRODUCT IN E-COMMERCE SITE	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Chinnam Sai Kumar
101	ATTENDANCE SYSTEM IN EXCEL SHEET USING RFID CARDS WITH ARDUINO	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SAI AASHRITHA PULLETI
102	AUTOMATIC DIP AND DIM HEADLIGHT IN VEHICLE	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Jogesh Naga Venkata Sivaram Somiseti
103	Pregnancy women Health Monitoring System using IOT	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Padamata Hemadevi
104	BLOOD AND ORGAN DONATION	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Adapa sreeharshitha

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
105	IoT Based Indoor Air Quality Monitoring System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	MIRIYALA VENKATA MANOJ KUMAR
106	AN ONLINE EVENT MANAGEMENT SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Guttapalli Rakesh Babu
107	Fire fighting robot	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	PINJALA VENKATA KALYANI
108	POWER METER BILLING PLUS LOAD CONTROL USING GSM	Academic Requirement/Study Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	SAYILA VANDANA
109	video to audio converter	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Manisha Vadlamudi

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
110	Solar powered garden light	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Murari Tulasi
111	SMARTBUILDERS	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Punna Charitha sri
112	COVID AID	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	vadlamudi sindhu
113	Sanitorium assistance	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Madhavi latha jarugu
114	Voice Control Home Automation	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Pitchuka Sravanthi

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
115	Competitive Auction Modelling System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Thammana Sasidhar
116	DRIVER SLEEP DETECTION AND ALARM SYSTEM	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	MIRIYALA SAILESH
117	Security Alarm Using IR Transceiver	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Mamidi Neelaveni
118	Diabetes Prediction System Using Machine Learning	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sai Sri Naga Kanaka Maha Lakshmi Bhogadi
119	COVID-19 Hospitals and Vaccine Management System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Shaik Farheen

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
120	BITCOIN PRICE PREDICTION USING MACHINE LEARNING	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Yeruva Srinivasula Reddy
121	Smart Bus Alert System For Easy Navigation Of Visually Impaired People	Academic Requirement/Study Project	2021-22	TRL 8 : First of a kind commercial system. Manufacturing issues solved	GOBATHINA MANI KOTAIAH
122	Online Voting System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rajaboina Naga veni
123	Campus Selection System	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Golla Chandrika Venkata Sai Sri
124	MOVIE RECOMMENDATION SYSTEM	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Yarlagadda Rajyalakshmi



Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
125	Digital doctor	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	padma priya
126	solar power monitoring using IOT	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Mamidiseti Durga Devi
127	Inverse Cooking Using Convolutional Neural Network	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Navya Kanneti
128	YOUTUBE SUMMARIZER USING NLP	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Madhavi Naragam
129	Assistive Stick for Visually Impaired	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	YELLAMRAJU SRI CHAKRAPANI

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
130	water quality analysis for efficient and maximum growth of shrimp using IoT	Independent Assignment/Non-academic Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Dr.Adilakshmi Yannam
131	IOT BASED CROP GROWTH ANALYSIS IN VARIOUS SOIL CONDITIONS USING MACHINE LEARNING.	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	ASHOK REDDY KANDULA
132	IOT BASED AUTOMATED WASTE SEGREGATOR	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	KASIVISWANADHAM Y
133	Battery Temperature Monitoring System For Electric Vehicles	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dasari Prathyusha
134	Intelligent Traffic Congestion Detection and Alert System (iTCDAS) using Video Surveillance	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. N.V.S.L.S. Indira D.

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
135	Design of AI based Air pollution index system using IOT	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Nanduri sambamurthy
136	DESIGN AND DEVELOPMENT OF WEARABLE ANTENNAS FOR BIO-MEDICAL APPLICATIONS	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	Dr.D.PRABHAKAR
137	Energy consumption Monitoring	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	vaka vamsi krishna
138	Automatic water level controller with audrino	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 5 : Large scale prototype tested in intended environment	Dr.B.Dasu
139	Automatic lighting control using arduino	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 5 : Large scale prototype tested in intended environment	Dr.B.Dasu
140	Use Of Bio-Enzyme for Stabilization Of Soil And Concrete Structures	Independent Assignment/Non-academic Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	PHANI KUMAR VADDI

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
141	DIGITAL AUTO STARTER CUM TIMER PROTECTION DEVICE	Academic Research Assignment/Industry Sponsored Project	2020-21	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Nanduri sambamurthy
142	Snake detection using PIR sensor	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	shaik shakeel pasha ahmed
143	Coal Monitoring Robot	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Yadagiri Usha Sri
144	Ultrasonic sensor based voice alert smart blind stick	Academic Requirement/Study Project	2020-21	TRL 5 : Large scale prototype tested in intended environment	Yerramsetti Naga Karishma
145	Real time wireless embedded electronics for soldier security	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sadhu Sai Lakshmi Prasanna

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name
146	Obstacle avoiding robot car using an arduino	Academic Requirement/Study Project	2020-21	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Siddabattula Devi Priya
147	Design of Noise level monitoring and warning System Based on Arduino UNO	Academic Requirement/Study Project	2020-21	TRL 6 : Prototype system tested in intended environment close to expected performance	UMA MAHESH BOTCHA
148	IOT based energy meter cost monitoring with theft detection	Academic Requirement/Study Project	2020-21	TRL 8 : First of a kind commercial system. Manufacturing issues solved	Lingamkavya

## Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

### 5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022 )

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Venture Recognized by DPIIT/Startup India
No Data Found						

## Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

### 6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	ICT Academy	Govt. Agency (Central)	5	Active	31-03-2021	<a href="#">View (/Upl</a>
2	Efftronics Systems Pvt. Ltd., Vijayawada	Corporate/Industry Association	4	Active	13-12-2020	<a href="#">View (/Upl</a>
3	Cellerite Systems Pvt Ltd. Hyderabad	Corporate/Industry Association	5	Active	19-01-2021	<a href="#">View (/Upl</a>
4	NITTR, Chennai	Govt. Agency (Central)	3	Active	19-10-2022	<a href="#">View (/Upl</a>

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
5	INDWELL Automation, Pune	Corporate/Industry Association	0002	Inactive	02-01-2020	<a href="#">View (/Upl</a>
6	Unistring Tech Solutions Pvt. Ltd., Hyderabad.	Corporate/Industry Association	6	Active	03-01-2020	<a href="#">View (/Upl</a>
7	Andhra Pradesh State Skill Development Corporation	Govt. Agency (State)	4	Active	02-01-2020	<a href="#">View (/Upl</a>
8	Better Castings, Vijayawada	Corporate/Industry Association	9	Active	02-01-2020	<a href="#">View (/Upl</a>
9	Central Institute of Plastics Engineering and Technology, Vijayawada	Govt. Agency (Central)	2	Active	13-10-2020	<a href="#">View (/Upl</a>
10	National Highways Authority of India	Govt. Agency (Central)	5	Active	28-07-2020	<a href="#">View (/Upl</a>
11	Voltino Systems Pvt Ltd., Hyderabad	Corporate/Industry Association	3	Active	06-01-2021	<a href="#">View (/Upl</a>
12	Smart Bridge Educational services Pvt Ltd	Corporate/Industry Association	3	Active	06-01-2020	<a href="#">View (/Upl</a>
13	ACIC-KL STARTUPS FOUNDATION	Incubation Unit	3	Active	26-09-2022	<a href="#">View (/Upl</a>

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
14	Germany Center for Engineering and Management Studies UG Aachen, European Center for Mechatronics APS GmbH Aachen	Corporate/Industry Association	3	Active	08-01-2020	<a href="#">View (/Upl</a>
15	Brilliant Technologies, Hyderabad	Corporate/Industry Association	3	Active	21-01-2020	<a href="#">View (/Upl</a>
16	Sri Anantha Lakshmi Spinning Mills Pvt., Ltd.	Non Govt. Agency	3	Active	14-07-2020	<a href="#">View (/Upl</a>
17	M/s. IMIS Pharmaceuticals Pvt. Ltd	Corporate/Industry Association	3	Active	03-02-2020	<a href="#">View (/Upl</a>
18	Fopple Drone Tech Private Limited	Corporate/Industry Association	5	Active	29-09-2022	<a href="#">View (/Upl</a>
19	Infopark software Technologies	Corporate/Industry Association	3	Active	02-01-2020	<a href="#">View (/Upl</a>
20	Vihaan Electrix	Corporate/Industry Association	5	Active	28-09-2022	<a href="#">View (/Upl</a>
21	Hitech Automation, Vijayawada	Corporate/Industry Association	5	Active	03-02-2020	<a href="#">View (/Upl</a>
22	Indian Servers	Corporate/Industry Association	3	Active	03-07-2021	<a href="#">View (/Upl</a>



Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
23	Juniper Networks Cloud and Automation Academy	Educational Institute	1	Active	08-12-2021	<a href="#">View (/Upl</a>
24	BSNL, Vijayawada Telecom District	Corporate/Industry Association	6	Active	02-01-2020	<a href="#">View (/Upl</a>
25	Texas Instruments /EdGate Technologies Pvt. Ltd., Bengaluru	Corporate/Industry Association	3	Active	06-01-2020	<a href="#">View (/Upl</a>
26	National Institute of Technology, Warangal	Educational Institute	3	Active	21-10-2022	<a href="#">View (/Upl</a>
27	New Leaf Engineering Private Limited, Bangalore	Corporate/Industry Association	3	Active	17-09-2020	<a href="#">View (/Upl</a>
28	RK Industries	Corporate/Industry Association	3	Active	23-07-2021	<a href="#">View (/Upl</a>
29	Bit Labs	Corporate/Industry Association	2	Active	24-02-2022	<a href="#">View (/Upl</a>
30	APSSDC Dassault Systems 3D Experience Centre, Amaravati	Govt. Agency (State)	3	Active	20-01-2020	<a href="#">View (/Upl</a>
31	Atma Lubricants & Specialities Ltd.	Knowledge/Mentoring Agency	5	Active	11-03-2020	<a href="#">View (/Upl</a>

## 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	Cyber Crime	Copy Right	978-81-947246	10-04-2020	No
2	Machine Learning from A-Z	Copy Right	9789390699513	13-05-2020	No
3	Data science through visualization	Copy Right	9789354265167	15-12-2020	No
4	cyber crime	Copy Right	9788196724612	09-12-2020	No
5	Machine learning with python :Programming and applications	Copy Right	9789205202310	02-09-2022	No
6	Micro Controller based system design	Copy Right	9789386590145	13-01-2021	No
7	IoT based health monitoring system	Copy Right	9789811605505	06-07-2022	
8	Wavelet based feature extraction and T-set for automatic brain tumor detection and classification	Copy Right	9489811579615	10-08-2021	No
9	Securing MANET's using SHA3 keccak Algorithm	Copy Right	9789811384615	06-10-2020	No
10	Artificial Intelligence in Data mining	Copy Right	978012820601	05-04-2021	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(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
11	A Study on Urban Heat Island Using Geospatial Techniques	Copy Right	9789819018981	12-07-2022	No
12	Recent developments in deep learning applications:Health care and Agriculture	Copy Right	9789356807983	07-01-2022	No

## 7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	A SYSTEM AND METHOD FOR CLASSIFYING SNAKE IMAGES USING CONVOLUTIONAL NEURAL NETWORK	2021102271	30-04-2021
2	SMART MOSQUITO ROCKET WITH AN IMAGE SENSOR FOR ENSURING CHILD PROTECTION	202141002348	19-01-2021
3	A System and the Method for Efficient Communication between IOT Devices in Heterogeneous IoT Environment using ML	2021102050	20-04-2021
4	System and method for Assisting visually impaired people in real-time	202141000932	15-01-2021
5	Process of forming three dimensional objects with enhanced durability	202141000882	15-01-2021
6	INTELLIGENT CUSTOMER CARE CENTER	201941054213	01-10-2020
7	Magnetid Resonsnce Coupling Wireless Power Transfer Unit for Implantable Biomedical Devices	202041031917	21-08-2020
8	Preventing Vehicle Accidents: Intelligent Accident Avoidance Using Satellite based positioning systeme-Based	202041028920	31-07-2020
9	IVEP:Surveillance system: Intelligent video surveillance system ensuring privacy of the people	202041029262	31-07-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
10	A Smart Multi-Mode floor cleaning device	202041038378	11-09-2020
11	Discretization method for finding faults in analog vlsi circuits modelling and thereof	202141006768	26-02-2021
12	Multimodal voice based authentication framework	202141007899	05-03-2021
13	Novel interdigital filtenna with leaf shaped attend based modified polar transformation for s band applications	202141011670	26-03-2021
14	A system for reducring noise from an electrogram(EMG)signal and a method thereof	202141016282	23-04-2021
15	red deer algorithm for anomaly detection in sensor based cyber physical system	202141017669	23-04-2021
16	A kind of rectangular patch antenna using multi resonant slots for bandwidth improvement	202141022521	01-06-2021
17	Artificial Intelligence (AI) Based System for Neural Networking	202241051256	16-09-2022
18	Hydroformed Axle Assembly with Weldless Brake Flange	202241051257	16-09-2022
19	Bandwidth Expansion System for Communication Medium and Method Thereof	202241051258	16-09-2022
20	Roofing System of Modular Construction and Method Thereof	202241051259	16-09-2022
21	Health Based Monitoring System and Method Thereof	202241051260	16-09-2022
22	Lathe and Miller Structural Assembly	202241051261	16-09-2022
23	Method for Artificial Intelligence (AI) Based Virtual Educating Platform	202241051262	16-09-2022
24	Communication Prioritizing Devices and Method Thereof	202241051263	16-09-2022
25	Cursor Controlling System for Information Processing Devices	202241051264	16-09-2022
26	System for Resisting Gas Flow	202241051265	16-09-2022
27	Fiber Glass Based System for Reinforcing Concrete Panels	202241051266	16-09-2022
28	Integrated Alert System with Wireless Network and Method Thereof	202241051267	16-09-2022
29	Internet of Things and Artificial Intelligence based grain cleaning and sorting with Machine Vision	202241051830	11-09-2022

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
30	Internet of Things and LoWRAWAN based smart agriculture monitoring system with artificial intelligence analysis	202241046303	14-08-2022
31	ElectromagneticSeparating Means of aSmart Trolley forMultipleCompartments andMethod Thereof	202241061751	30-10-2022
32	A Smart MedicineDispenser withEfficient MonitoringSystem and Method Thereof	202241061747	30-10-2022
33	An Automatic ScrapCleaning System forLathe and CleaningMethod Thereof	202241061750	30-10-2022
34	MultipleCompartments ofSmart Trolley withAutomatic SeparationMeans	202241061748	30-10-2022
35	System and Methodfor HouseholdGrocery Management	202241061749	30-10-2022

### 7.3) Patent Published / Granted Data

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
1	2021102271	A SYSTEM AND METHOD FOR CLASSIFYING SNAKE IMAGES USING CONVOLUTIONAL NEURAL NETWORK	25-08-2021	Granted	2021	Other(Individual
2	202141002348	SMART MOSQUITO ROCKET WITH AN IMAGE SENSOR FOR ENSURING CHILD PROTECTION	19-01-2021	Granted	2021	Other(Individual
3	2021102050	A System and the Method for Efficient Communication between IOT Devices in Heterogeneous IoT Environment using ML	20-04-2021	Published	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
4	202141000932	System and method for Assisting visually impaired people in real-time	15-01-2021	Published	2021	Other(Individual
5	202141000882	Process of forming three dimensional objects with enhanced durability	15-01-2021	Published	2021	Other(Individual
6	202041031917	Magnetic Resonance Coupling Wireless Power Transfer Unit for Implantable Biomedical Devices	21-08-2020	Published	2020	Other(Individual
7	202041028920	Preventing Vehicle Accidents: Intelligent Accident Avoidance Using Satellite based positioning system- Based	31-07-2020	Published	2020	Other(Individual
8	202041029262	IVEP:Surveillance system: Intelligent video surveillance system ensuring privacy of the people	31-07-2020	Published	2020	Other(Individual
9	202041038378	A Smart Multi-Mode floor cleaning device	11-09-2020	Published	2020	Other(Individual
10	202141006768	Discretization method for finding faults in analog vlsi circuits modelling and thereof	26-02-2021	Published	2021	Other(Individual
11	202141007899	Multimodal voice based authentication framework	05-03-2021	Published	2021	Other(Individual
12	202141011670	Novel interdigital filtenna with leaf shaped attend based modified polar transformation for s band applications	26-03-2021	Published	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
13	202141016282	A system for reducing noise from an electrogram(EMG)signal and a method thereof	23-04-2021	Published	2021	Other(Individual
14	202141017669	red deer algorithm for anomaly detection in sensor based cyber physical system	23-04-2021	Published	2021	Other(Individual
15	202141022521	A kind of rectangular patch antenna using multi resonant slots for bandwidth improvement	01-06-2021	Published	2021	Other(Individual
16	202241051256	Artificial Intelligence (AI) Based System for Neural Networking	16-09-2022	Published	2022	Applicant
17	202241051257	Hydroformed Axle Assembly with Weldless Brake Flange	16-09-2022	Published	2022	Applicant
18	202241051258	Bandwidth Expansion System for Communication Medium and Method Thereof	16-09-2022	Published	2022	Applicant
19	202241051259	Roofing System of Modular Construction and Method Thereof	16-09-2022	Published	2022	Applicant
20	202241051260	Health Based Monitoring System and Method Thereof	16-09-2022	Published	2022	Applicant
21	202241051262	Method for Artificial Intelligence (AI) Based Virtual Educating Platform	16-09-2022	Published	2022	Applicant
22	202241051263	Communication Prioritizing Devices and Method Thereof	16-09-2022	Published	2022	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
23	202241051265	System for Resisting Gas Flow	16-09-2022	Published	2022	Applicant
24	202241051266	Fiber Glass Based System for Reinforcing Concrete Panels	16-09-2022	Published	2022	Applicant
25	202241051267	Integrated Alert System with Wireless Network and Method Thereof	16-09-2022	Published	2022	Applicant
26	201941054213	INTELLIGENT CUSTOMER CARE CENTER	22-05-2021	Granted	2021	Other(Individual
27	202241051261	Lathe and Miller Structural Assembly	16-09-2021	Published	2022	Applicant
28	202241051264	Cursor Controlling System for Information Processing Devices	16-09-2022	Published	2022	Applicant
29	2021102341	A model order reduction method for optimal model approximation of linear-time invariant systems	23-06-2021	Granted	2021	Other(Individual
30	202041032227	SMART RING-MAIN DISTRIBUTION SYSTEM	21-08-2020	Published	2020	Other(Individual
31	202041049557	SMART IOT BASED SYSTEM FOR HOME AUTOMATION SYSTEM	20-11-2020	Published	2020	Other(Individual
32	202241051830	Internet of Things and Artificial Intelligence based grain cleaning and sorting with Machine Vision	11-09-2022	Published	2022	Applicant
33	202241046303	Internet of Things and LoRAWAN based smart agriculture monitoring system with artificial intelligence analysis	14-08-2022	Published	2022	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
34	202241061747	A Smart Medicine Dispenser with Efficient Monitoring System and Method Thereof	30-10-2022	Published	2022	Applicant
35	202241061748	Multiple Compartments of Smart Trolley with Automatic Separation Means	30-10-2022	Published	2022	Applicant
36	202241061749	System and Method for Household Grocery Management	30-10-2022	Published	2022	Applicant

7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	D T T
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No Data Found

# Declaration

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

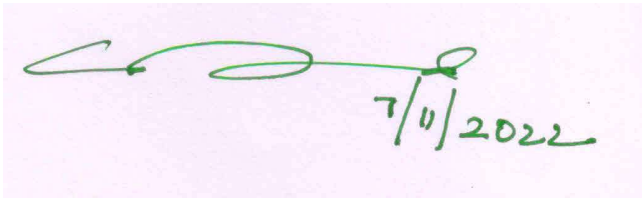
## Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. G. V. S. N. R. V. Prasad** (Head of Institute) and **Mr. Ch. Balaswamy** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

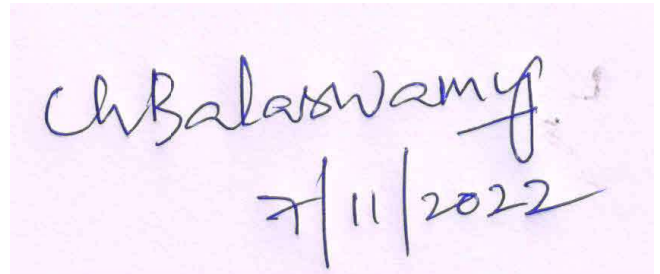
The Head of Institute



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Dr. G. V. S. N. R. V. Prasad,  
Head of the Institution,  
Seshadri Rao Gudlavalleru Engineering College,  
Gudlavalleru, Andhra Pradesh

Nodal officer



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Mr. Ch. Balaswamy,  
Nodal Officer,  
Seshadri Rao Gudlavalleru Engineering College,  
Gudlavalleru, Andhra Pradesh