



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

### Verification Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: GKM College of Engineering and Technology [ARI-C-16521]

#### List all the departments / centers / units are part of innovation and startup ecosystem of the institute

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Beneficiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	Biomedical Incubation Center	Pre-incubation unit	Biomedical Engineering	UG / PG / PhD	Technical	666	220	68
2	Solar laboratory	Academic Department with lab facility	Energy Engineering	At all level	Technical	666	220	68
3	CAD center	Academic Department with lab facility	Mechanical Engineering	At all level	Technical	666	220	68
4	Project Center	Academic Department with lab facility	Electrical and Electronics Engineering, Electronics and Communication Engineering, Embedded Systems and	At all level	Technical	666	220	68
5	Entrepreneurship Development cell	Pre-incubation unit	Electrical, Electronics, Mechanical, Aero, Biomedical and Computer Science Engineering	At all level	Technical	666	220	68
6	Aero modeling lab	Academic Department with lab facility	Aeronautical Engineering	At all level	Technical	58	220	68
7	Hybrid Microgrid setup	Research Unit / Park	Electrical and Electronics Engineering	At all level	Technical	666	220	68
8	Ship in campus	Academic Department with lab facility	Marine Engineering	At all level	Technical	98	220	68
9	Exam online center	Industry Institute Interface Unit	Computer Science	At all level	Non-Technical	3000	220	68
10	Automobile testing center	Academic Department with lab facility	Automobile and Mechanical Engineering	At all level	Technical	224	220	68

## Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201810821
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	Not Required

## Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration (in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?		Did any of the participants received any awards/recognition for startup / innovation ideas / research?	
															Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6000	Award / Position / Recognition Secured	reverse engineering process done on medical equipments
1	BIOMEDICAL EXPO-2020	Entrepreneurship/Startup	Ideation	Student Lead Activity	BIOMEDICAL ENGINEERING	25-01-2020 00:00:00	25-01-2020 00:00:00	1	Within Campus	64	8	20	3	95	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6000	Award / Position / Recognition Secured	reverse engineering process done on medical equipments
																Title of Innovation / Start-up Secured the Award / Recognition	Tuberculosis detection	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
2	Design and Innovation	Innovation	Skill development	Student Lead Activity	GKM College of Engineering and Technology	11-03-2020 00:00:00	11-03-2020 00:00:00	1	Within Campus	350	80	10	2	442	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	prototype model done
																Title of Innovation / Start-up Secured the Award / Recognition	Bio material for pacemaker	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

3	Entrepreneurship and start up	Entrepreneurship/Startup	Start-up Yatra	Student Lead Activity	GKM College of Engineering and Technology	27-02-2020 00:00:00	27-02-2020 00:00:00	1	Within Campus	350	80	15	4	449	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	70000	Award / Position / Recognition Secured	Students became entrepreneurs	
																		Title of Innovation / Start-up Secured the Award / Recognition	started their own company, you tube channel
																		Award/Recognition/Achievement Received for	Business Model/Start up
4	Internship	Entrepreneurship/Startup	Training	Student Lead Activity	Airports Authority of India	24-06-2019 00:00:00	29-06-2019 00:00:00	6	Outside Campus	2	0	3	0	5	No		No		
5	INTERNSHIP	Entrepreneurship/Startup	Training	Student Lead Activity	Southern Railways	17-06-2019 00:00:00	21-06-2019 00:00:00	5	Outside Campus	5	0	5	0	10	No		No		
6	industrial Visit	Innovation	Exposure visit	Institute Lead Activity	TAFE	04-07-2019 00:00:00	07-07-2019 00:00:00	4	Outside Campus	55	5	0	0	60	No		No		
7	Industrial Visit	Innovation	Exposure visit	Student Lead Activity	Vinaythipam Educational Service Private Limited	05-07-2019 00:00:00	05-07-2019 00:00:00	1	Outside Campus	38	5	0	0	43	No		No		
8	RF and Microwave lab	Innovation	Demo Day	Student Lead Activity	Pantech Solutions Pvt.Ltd	24-06-2019 00:00:00	24-06-2019 00:00:00	1	Within Campus	25	2	0	0	27	No		No		
9	Medical Equipment Planning and Health Estate Architecture	Entrepreneurship/Startup	Workshop	Student Lead Activity	Shalom Consultancy	17-05-2019 00:00:00	17-06-2019 00:00:00	32	Outside Campus	1	0	0	0	1	No		No		
10	industrial visit	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	Dakshinatra Architectural museum	10-07-2019 00:00:00	10-07-2019 00:00:00	1	Outside Campus	25	5	0	0	30	No		No		
11	internship	Entrepreneurship/Startup	Training	Student Lead Activity	entitled Cloud Computing in Uniq Solutions	10-06-2019 00:00:00	15-06-2019 00:00:00	6	Outside Campus	2	0	3	0	5	No		No		
12	Industrial Visit	Entrepreneurship/Startup	Training	Student Lead Activity	IIITDM	16-07-2019 00:00:00	16-07-2019 00:00:00	1	Outside Campus	42	5	0	0	47	No		No		

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13	Industrial Visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	IIIT-DM	19-07-2019 00:00:00	19-07-2019 00:00:00	1	Outside Campus	45	5	0	0	50	No	No
14	industrial visit	Innovation	Exposure visit	Student Lead Activity	Indian Institute of Information Technology Design and Manufacturing	22-07-2019 00:00:00	23-07-2019 00:00:00	2	Outside Campus	88	6	0	0	94	No	No
15	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	C Gopal Naicker son castings company combined	08-08-2019 00:00:00	08-08-2019 00:00:00	1	Outside Campus	48	5	0	0	53	No	No
16	Recent trends in Medical Image processing and analysis	Innovation	Workshop	Institute Lead Activity	SRM Institute of Science and Technology	22-08-2019 00:00:00	23-08-2019 00:00:00	2	Outside Campus	24	6	40	12	82	No	No
17	CYBER SECURITY AWARENESS	Entrepreneurship/Startup	Workshop	Institute Lead Activity	IRMS training solutions	22-08-2019 00:00:00	22-08-2019 00:00:00	1	Outside Campus	27	4	48	2	81	No	No
18	cyber security	Innovation	Workshop	Institute Lead Activity	GKMCET	22-08-2019 00:00:00	22-08-2019 00:00:00	1	Within Campus	32	6	0	0	38	No	No
19	start-up workshop	Entrepreneurship/Startup	Workshop	Student Lead Activity	IISC Bangalore	16-08-2019 00:00:00	16-08-2019 00:00:00	1	Outside Campus	0	4	0	0	4	No	No
20	industrial visit	Entrepreneurship/Startup	Exhibition	Student Lead Activity	indian Institute of Chemical Technology (IICT), Hyderabad	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Outside Campus	28	5	0	0	33	No	No
21	industrial visit	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	IKP Knowledge park, Shamirpet(M), Medchal	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Outside Campus	46	8	0	0	54	No	No

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

22	industrial visit	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	Basavarakam Indo American Cancer Hospital and Research Institute, Hyderabad	31-08-2019 00:00:00	31-08-2019 00:00:00	1	Outside Campus	46	6	0	0	52	No	No
23	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	IIITD and M, Kanchipuram	05-09-2019 00:00:00	05-09-2019 00:00:00	1	Outside Campus	63	6	0	0	69	No	No
24	Industrial visit	Innovation	Workshop	Student Lead Activity	NARL-ISRO	06-09-2019 00:00:00	07-09-2019 00:00:00	2	Outside Campus	24	2	0	0	26	No	No
25	Hands-on workshop on ESA and amp	Innovation	Workshop	Institute Lead Activity	HELIX India Private Limited, Bangalore	07-09-2019 00:00:00	07-09-2019 00:00:00	1	Within Campus	62	6	82	2	152	No	No
26	Industrial Visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	National Atmospheric Research Laboratory	06-09-2019 00:00:00	09-09-2019 00:00:00	4	Outside Campus	26	2	0	0	28	No	No
27	Manufacturing Accelerator Program	Innovation	Workshop	Institute Lead Activity	IITDand M	14-09-2019 00:00:00	14-09-2019 00:00:00	1	Outside Campus	0	1	0	4	5	No	No
28	Deep Learning for Computer Vision Application from Scratch to Development	Innovation	Workshop	Institute Lead Activity	SRM institute of Science and Technology	12-09-2019 00:00:00	24-09-2019 00:00:00	13	Outside Campus	0	3	0	2	5	No	No
29	e-learning and MOOCs in Higher Education	Innovation	Workshop	Institute Lead Activity	Anna University	14-09-2019 00:00:00	14-09-2019 00:00:00	1	Outside Campus	0	4	0	23	27	No	No
30	Industrial Visit	Entrepreneurship/Startup	Workshop	Institute Lead Activity	National Atmospheric Research Laboratory	06-09-2019 00:00:00	06-09-2019 00:00:00	1	Outside Campus	28	4	0	0	32	No	No

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31	Deep Learning and Image Processing for Medical and Industrial Control Applications	Innovation	Workshop	Student Lead Activity	IEEE Control Systems Society, Madras	26-09-2019 00:00:00	27-09-2019 00:00:00	2	Outside Campus	56	8	0	0	64	No	No
32	Deep Learning for Computer Vision Application from Scratch to Development	Entrepreneurship/Startup	Workshop	Institute Lead Activity	SRM institute of Science and Technology	12-09-2019 00:00:00	14-09-2019 00:00:00	3	Outside Campus	12	3	0	0	15	No	No
33	Mec-Arnival 2019	Entrepreneurship/Startup	Innovation Contest	Student Lead Activity	GKM CET	28-09-2019 00:00:00	28-09-2019 00:00:00	1	Within Campus	72	5	45	0	122	No	No
34	National Level Technical Workshop	Entrepreneurship/Startup	Workshop	Student Lead Activity	Tagore Engineering College	20-09-2019 00:00:00	20-09-2019 00:00:00	1	Outside Campus	14	0	28	3	45	No	No
35	National level Workshop	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Sri Sairam Engineering	01-10-2019 00:00:00	01-10-2019 00:00:00	1	Outside Campus	13	0	0	0	13	No	No
36	Innovation Engineering in production techniques	Entrepreneurship/Startup, Innovation	Workshop	Institute Lead Activity	Vel-tech High Tech Dr.Rangarajan Dr.Sakuntala Engineering College	04-10-2019 00:00:00	04-10-2019 00:00:00	1	Outside Campus	14	2	31	3	50	No	No
37	Biobased and circular economy for sustainable future	Innovation	Workshop	Institute Lead Activity	Veltech Rangarajan Dr. Sakuntala R and D Institute of Science and Technology	16-10-2019 00:00:00	16-10-2019 00:00:00	1	Outside Campus	0	1	0	5	6	No	No
38	Social Network Analysis conducted by department	Entrepreneurship/Startup	Training	Institute Lead Activity	GKM CET	02-12-2019 00:00:00	06-12-2019 00:00:00	5	Within Campus	25	4	21	2	52	No	No

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39	UNLEASH	Entrepreneurship/Startup	Innovation Contest	Student Lead Activity	GKMCEET	19-12-2019 00:00:00	19-12-2019 00:00:00	1	Within Campus	25	2	23	0	50	No	No
40	Internship	Entrepreneurship/Startup	Training	Student Lead Activity	Kumaran Hospital	10-12-2019 00:00:00	14-12-2019 00:00:00	5	Outside Campus	3	0	0	0	3	No	No
41	Internship	Entrepreneurship/Startup	Training	Student Lead Activity	Muthu Meenakshi Hospital	04-12-2019 00:00:00	10-12-2019 00:00:00	7	Outside Campus	1	0	0	0	1	No	No
42	Internship training	Entrepreneurship/Startup	Training	Student Lead Activity	Sri Ramachandra Hospital	25-11-2019 00:00:00	27-11-2019 00:00:00	3	Outside Campus	3	0	0	0	3	No	No
43	Internship	Innovation	Training	Student Lead Activity	Shalom Consultancy	03-12-2019 00:00:00	13-12-2019 00:00:00	11	Outside Campus	1	0	0	0	1	No	No
44	internship program	Innovation	Training	Student Lead Activity	Code Binding Technologies	04-12-2019 00:00:00	12-12-2019 00:00:00	9	Outside Campus	5	0	0	0	5	No	No
45	internship program	Entrepreneurship/Startup	Training	Student Lead Activity	Central Drug Investigation Lab	02-12-2019 00:00:00	06-12-2019 00:00:00	5	Outside Campus	1	0	0	0	1	No	No
46	internship program	Entrepreneurship/Startup	Training	Institute Lead Activity	Kumaran Hospital, Kilpauk	10-12-2019 00:00:00	14-12-2019 00:00:00	5	Outside Campus	1	0	0	0	1	No	No
47	internship program	Entrepreneurship/Startup	Training	Student Lead Activity	Sun Pharma Industries Ltd	09-12-2019 00:00:00	12-12-2019 00:00:00	4	Outside Campus	1	0	0	0	1	No	No
48	Drive of Pulses Health Care	Entrepreneurship/Startup	Training	Student Lead Activity	Jerusalem College of Engineering	06-12-2019 00:00:00	06-12-2019 00:00:00	1	Outside Campus	12	0	24	0	36	No	No
49	Awareness program	Innovation	Awareness	Student Lead Activity	Anna University	13-12-2019 00:00:00	13-12-2019 00:00:00	1	Outside Campus	17	0	23	0	40	No	No
50	internship training	Entrepreneurship/Startup	Training	Institute Lead Activity	Balaji Medical College and Hospital	13-12-2019 00:00:00	21-12-2019 00:00:00	9	Outside Campus	2	0	0	0	2	No	No
51	internship training	Entrepreneurship/Startup	Training	Student Lead Activity	Sankar Nethralaya Hospital	04-12-2019 00:00:00	19-12-2019 00:00:00	16	Outside Campus	3	0	0	0	3	No	No
52	internship	Entrepreneurship/Startup	Training	Student Lead Activity	Hindustan cococola beverages pvt	17-12-2019 00:00:00	21-12-2019 00:00:00	5	Outside Campus	4	0	0	0	4	No	No

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

53	internship	Entrepreneurship/Startup	Training	Student Lead Activity	Web development and Digital marketing	24-12-2019 00:00:00	24-12-2019 00:00:00	1	Outside Campus	12	0	32	0	44	No	No
54	Cambrionics	Entrepreneurship/Startup	Training	Student Lead Activity	Cambridge middle school	27-12-2019 00:00:00	31-12-2019 00:00:00	5	Outside Campus	1	0	0	0	1	No	No
55	internship	Innovation	Training	Student Lead Activity	Isabel Hospital, Mylapore	27-12-2019 00:00:00	02-01-2020 00:00:00	7	Outside Campus	2	0	3	0	5	No	No
56	Faculty Development Program	Innovation	Skill development	Institute Lead Activity	IIT Madras	02-12-2019 00:00:00	14-12-2019 00:00:00	13	Outside Campus	0	1	0	0	1	No	No
57	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	Castwel Autoparts Pvt. Ltd	10-01-2020 00:00:00	10-01-2020 00:00:00	1	Outside Campus	24	4	0	0	28	No	No
58	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	Arrow coach factory, Madhuranthagam	09-01-2020 00:00:00	09-01-2020 00:00:00	1	Outside Campus	47	5	0	0	52	No	No
59	Recent Innovations in Controlled and Targeted Drug Delivery Systems	Entrepreneurship/Startup	Workshop	Institute Lead Activity	GKM CET	08-01-2020 00:00:00	10-01-2020 00:00:00	3	Within Campus	60	4	113	9	186	No	No
60	WORKSHOP ON COMPUTING TECHNOLOGIES	Entrepreneurship/Startup, Innovation	Workshop	Institute Lead Activity	GKM CET	29-01-2020 00:00:00	29-01-2020 00:00:00	1	Within Campus	42	5	248	12	307	No	No
61	industrial visit	Innovation	Exposure visit	Student Lead Activity	Rajiv Gandhi Centre for Biotechnology (RGCB)	31-12-2019 00:00:00	31-12-2019 00:00:00	1	Outside Campus	48	6	0	0	54	No	No
62	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	Sree Chitra Tirunal Institute of Medical Sciences and Technology (SCTIMS CT)	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Outside Campus	48	6	0	0	54	No	No



**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

63	Gesture controlled Robot Using Arduino	Innovation	Innovation Contest	Student Lead Activity	GKMCET	22-02-2020 00:00:00	22-02-2020 00:00:00	1	Within Campus	23	4	0	0	27	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>3</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Gesture controlled Robot Using Arduino</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	3	Title of Innovation / Start-up Secured the Award / Recognition	Gesture controlled Robot Using Arduino	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	3																					
Title of Innovation / Start-up Secured the Award / Recognition	Gesture controlled Robot Using Arduino																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
64	intra-collegiate	Entrepreneurship/Startup	Innovation Contest	Student Lead Activity	GKMCET	28-08-2019 00:00:00	28-08-2019 00:00:00	1	Within Campus	124	6	158	0	288	No	No						
65	PROJECT EXPO	Innovation	Innovation Contest	Student Lead Activity	GKMCET	25-01-2020 00:00:00	25-01-2020 00:00:00	1	Within Campus	19	5	0	0	24	No	No						
66	PROJECT EXPO	Innovation	Innovation Contest	Student Lead Activity	GKMCET	22-02-2020 00:00:00	22-02-2020 00:00:00	1	Within Campus	32	2	0	0	34	No	No						
67	industrial visit	Entrepreneurship/Startup	Exposure visit	Student Lead Activity	Indian Institute of Information Technology Design and Manufacturing	26-07-2019 00:00:00	27-07-2019 00:00:00	2	Outside Campus	32	5	0	0	37	No	No						
68	Rockets mission design	Innovation	Conference	Institute Lead Activity	GKMCET	10-04-2019 00:00:00	10-04-2019 00:00:00	1	Within Campus	42	4	12	4	62	No	No						
69	Recent innovation in controlled and targeted drug delivery system	Innovation	Seminar	Institute Lead Activity	GKMCET	08-01-2020 00:00:00	08-01-2020 00:00:00	1	Within Campus	36	4	18	7	65	No	No						
70	industrial visit	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	NIMHANS, Bangalore	04-04-2019 00:00:00	04-04-2019 00:00:00	1	Outside Campus	13	2	0	0	15	No	No						

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

71	Recent innovations in controlled and Targetted drug delivery system	Innovation	Seminar	Institute Lead Activity	Biomedical Engineering Department	08-01-2020 00:00:00	10-01-2020 00:00:00	3	Within Campus	198	15	45	2	260	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	50000	Award / Position / Recognition Secured	Recognised by TNSCST and funded	
																	Title of Innovation / Start-up Secured the Award / Recognition	controlled drug delivery system for insulin using biosensor	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration (in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research			
1	ENANTRA ENTREPRENEURSHIP EVENT	Entrepreneurship/Startup	Seminar	ANNA UNIVERSITY	Educational Institute	20-02-2020 00:00:00	23-02-2020 00:00:00	4	12	2	14	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1000	No		
2	MINDING OUR MIND DURING COVID 19	Innovation	Ideation	VISWAK SHENA ARTS AND SCIENCE COLLEGE	Educational Institute	03-03-2020 00:00:00	03-03-2020 00:00:00	1	1	0	1	No	---	---	No	No			
3	Hardware edition	Entrepreneurship/Startup	Hackathon	Smart India Hackathon 2019	Corporate / Industry Association	13-05-2019 00:00:00	13-05-2019 00:00:00	1	3	0	3	Yes	Selected in semifinals in Smart India Hackathon 2019n	Biomedical device	Total Expense Amount Incurred by Institute? (In Rupees)	10000	Award / Position / Recognition Secured	Selected in semifinals in Smart India Hackathon 2019n	
																	Title of Innovation / Start-up Secured the Award / Recognition	Biomedical device	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

4	Introduction to composites	Innovation	Skill development	NPTL	Corporate / Industry Association	11-05-2019 00:00:00	11-05-2019 00:00:00	1	0	1	1	No	---	---	No	No								
5	Experimental Studies on concrete and soil characteristics	Innovation	Seminar	SRM Institute of Science and Technology	Educational Institute	13-05-2019 00:00:00	17-05-2019 00:00:00	5	0	1	1	Yes	Ph.d Registered	Advances in Concrete technologies	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>5000</td> </tr> </table>	Total Total Expense Amount Incurred by Institute? (In Rupees)	5000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Ph.d Registered</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Advances in Concrete technologies</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	Ph.d Registered	Title of Innovation / Start-up Secured the Award / Recognition	Advances in Concrete technologies	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Total Total Expense Amount Incurred by Institute? (In Rupees)	5000																							
Award / Position / Recognition Secured	Ph.d Registered																							
Title of Innovation / Start-up Secured the Award / Recognition	Advances in Concrete technologies																							
Award/Recognition/Achievement Received for	Novel Research Paper/Work																							
6	Robotics	Entrepreneurship/Startup	Seminar	Sai Ram Engineering College	Educational Institute	13-05-2019 00:00:00	18-05-2019 00:00:00	6	0	2	2	No	---	---	No	No								
7	Human Values	Entrepreneurship/Startup	Skill development	Crescent Engineering College	Educational Institute	20-05-2019 00:00:00	26-05-2019 00:00:00	7	20	4	24	No	---	---	No	No								
8	Summer Research Fellow Programme at IIT	Innovation	Skill development	IIT-Delhi	Educational Institute	13-05-2019 00:00:00	13-05-2019 00:00:00	1	0	1	1	Yes	passes in NPTEL	Electric Vehicles	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>6000</td> </tr> </table>	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>passes in NPTEL</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Electric Vehicles</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	passes in NPTEL	Title of Innovation / Start-up Secured the Award / Recognition	Electric Vehicles	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Total Total Expense Amount Incurred by Institute? (In Rupees)	6000																							
Award / Position / Recognition Secured	passes in NPTEL																							
Title of Innovation / Start-up Secured the Award / Recognition	Electric Vehicles																							
Award/Recognition/Achievement Received for	Novel Research Paper/Work																							
9	Human Values	IPR	Skill development	Anna University, Guindy	Corporate / Industry Association	13-05-2019 00:00:00	15-05-2019 00:00:00	3	0	2	2	No	---	---	No	No								
10	TAFE	Entrepreneurship/Startup	Exposure visit	GKM College of Engineering AND Technology	Educational Institute	02-07-2019 00:00:00	02-07-2019 00:00:00	1	32	5	37	No	---	---	No	No								

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

11	Research Centre	IPR	Training	Medical College Hospital and Research Centre	Govt. Agency (State)	14-07-2019 00:00:00	21-07-2019 00:00:00	8	1	0	1	Yes	Project proposals applied	Biosensors	Total Total Expense Amount Incurred by Institute? (In Rupees)	2000	Award / Position / Recognition Secured	Project proposals applied
																	Title of Innovation / Start-up Secured the Award / Recognition	Biosensors
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
12	Kumaran Hospital	Innovation	Training	Kumaran Hospital	Non-Govt. Agencies	07-06-2019 00:00:00	17-06-2019 00:00:00	11	1	0	1	Yes	final year project done	Nanotechnology based sensor	Total Total Expense Amount Incurred by Institute? (In Rupees)	3000	Award / Position / Recognition Secured	final year project done
																	Title of Innovation / Start-up Secured the Award / Recognition	Nanotechnology based sensor
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
13	MATLAB	IPR	Skill development	Unique Technologies	Corporate / Industry Association	11-06-2019 00:00:00	14-06-2019 00:00:00	4	2	0	2	Yes	Projects done	Image processing using MATLAB	Total Total Expense Amount Incurred by Institute? (In Rupees)	300	Award / Position / Recognition Secured	Projects done
																	Title of Innovation / Start-up Secured the Award / Recognition	Image processing using MATLAB
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work
14	Data Science with Python Language	Entrepreneurship/Startup	Training	WAC Summer Camp 2019	Corporate / Industry Association	10-06-2019 00:00:00	14-06-2019 00:00:00	5	3	0	3	No	---	---	No	No	No	No
15	Industrial Visit	Entrepreneurship/Startup	Exposure visit	Vinaythipam Educational Service Private Limited	Educational Institute	05-07-2019 00:00:00	05-07-2019 00:00:00	1	35	5	40	No	---	---	No	No	No	No

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

16	Conversion of waste water into utility and simultaneous production of struvite from Magnesium based automobile waste	Innovation	Skill development	FIB-SOL TECHNOLOGIES	Corporate / Industry Association	30-06-2019 00:00:00	30-06-2019 00:00:00	1	0	1	1	Yes	Project proposals submitted to DST	Conversion of waste water into utility	No		Award / Position / Recognition Secured	Project proposals submitted to DST
																	Title of Innovation / Start-up Secured the Award / Recognition	Conversion of waste water into utility
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work
17	A Novel filter design to enhance RO purified water using Membrane coated with herbal Nanoparticles	Innovation	Skill development	FIB-SOL TECHNOLOGIES	Corporate / Industry Association	30-06-2019 00:00:00	30-06-2019 00:00:00	1	0	1	1	Yes	project proposals submitted to NRB	A novel filter for RO using gold nano particles		5000	Award / Position / Recognition Secured	project proposals submitted to NRB
																	Title of Innovation / Start-up Secured the Award / Recognition	A novel filter for RO using gold nano particles
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work
18	Analog Discovery Kit Demo	Entrepreneurship/Startup	Demo Day	Pantech Solutions Pvt.Ltd	Corporate / Industry Association	24-06-2019 00:00:00	24-06-2019 00:00:00	1	0	1	1	No	---	---	No		No	
19	MATLAB	IPR	Training	Polenza Technologies, Pvt. Ltd	Corporate / Industry Association	10-06-2019 00:00:00	11-06-2019 00:00:00	2	10	0	10	No	---	---	No		No	
20	Medical Equipment Planning and Health Estate Architecture	Entrepreneurship/Startup	Training	with Shalom Consultancy	Corporate / Industry Association	17-05-2019 00:00:00	17-06-2019 00:00:00	32	1	0	1	Yes	Projects submitted in association with Shalom Technology	novel technique for virtual autopsy		5000	Award / Position / Recognition Secured	Projects submitted in association with Shalom Technology
																	Title of Innovation / Start-up Secured the Award / Recognition	novel technique for virtual autopsy
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

21	Current Scenario and opportunities for a biomedical engineers 2019	Entrepreneurship/Startup	Awareness	GKM College of Engineering and Technology	Educational Institute	08-07-2019 00:00:00	08-07-2019 00:00:00	1	20	5	25	No	---	---	No	No									
22	Career Planning and Opportunities	Entrepreneurship/Startup	Awareness	NIT	Educational Institute	12-07-2019 00:00:00	12-07-2019 00:00:00	1	200	5	205	No	---	---	No	No									
23	Dakshinatra Architectural museum	Entrepreneurship/Startup	Exposure visit	GKM College of Engineering and Technology	Educational Institute	10-07-2019 00:00:00	10-07-2019 00:00:00	1	62	3	65	No	---	---	No	No									
24	scenario and Opportunities for a Biomedical Engineer-2019	IPR	Awareness	GKMCET	Educational Institute	08-07-2019 00:00:00	08-07-2019 00:00:00	1	57	3	60	No	---	---	No	No									
25	Awareness program on Pollution	IPR	Awareness	GKMCET	Educational Institute	10-07-2019 00:00:00	10-07-2019 00:00:00	1	42	3	45	No	---	---	No	No									
26	Awareness program on Pollution	IPR	Awareness	GKMCET	Educational Institute	11-07-2019 00:00:00	11-07-2019 00:00:00	1	3	0	3	No	---	---	No	No									
27	Unmanned Aerial Vehicle	Innovation	Awareness	GKMCET	Educational Institute	18-07-2019 00:00:00	18-07-2019 00:00:00	1	35	5	40	Yes	projects done	Unmanned aerial vehicle using IoT	<table border="1"> <tr> <td style="background-color: #002060; color: white;">Total</td> <td>10000</td> </tr> </table>		Total	10000	<table border="1"> <tr> <td style="background-color: #002060; color: white;">Award / Position / Recognition Secured</td> <td>projects done</td> </tr> <tr> <td style="background-color: #002060; color: white;">Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Unmanned aerial vehicle using IoT</td> </tr> <tr> <td style="background-color: #002060; color: white;">Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	projects done	Title of Innovation / Start-up Secured the Award / Recognition	Unmanned aerial vehicle using IoT	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Total	10000																								
Award / Position / Recognition Secured	projects done																								
Title of Innovation / Start-up Secured the Award / Recognition	Unmanned aerial vehicle using IoT																								
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																								
28	Chandrayaan II Relaunch ) at ISRO	Innovation	Exposure visit	Sathish Dawan Space Center, SHAR, Sriharikota	Govt. Agency (State)	22-07-2019 00:00:00	22-07-2019 00:00:00	1	5	0	5	No	---	---	No	No									

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

29	Teaching awards in Engineering	IPR	Skill development	Arignar Anna Arangam, Chennai	Govt. Agency (State)	27-07-2019 00:00:00	27-07-2019 00:00:00	1	15	3	18	Yes	Teaching awards	Academics performance	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Teaching awards</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Academics performance</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>		Award / Position / Recognition Secured	Teaching awards	Title of Innovation / Start-up Secured the Award / Recognition	Academics performance	Award/Recognition/Achievement Received for	Novel Research Paper/Work			
Award / Position / Recognition Secured	Teaching awards																									
Title of Innovation / Start-up Secured the Award / Recognition	Academics performance																									
Award/Recognition/Achievement Received for	Novel Research Paper/Work																									
30	Cryptography and Network Security	IPR	Seminar	MIT	Educational Institute	26-07-2019 00:00:00	26-07-2019 00:00:00	1	36	0	36	No	---	---	No	No										
31	Piezoresistive sensors for prostate cancer detection	IPR	Innovation Contest	Indo-Ethiopia Bilateral, DST	Corporate / Industry Association	31-07-2019 00:00:00	31-07-2019 00:00:00	1	0	1	1	Yes	Projects done	Bio sensors	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>5000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	5000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Projects done</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Bio sensors</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>		Award / Position / Recognition Secured	Projects done	Title of Innovation / Start-up Secured the Award / Recognition	Bio sensors	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Total Total Expense Amount Incurred by Institute? (In Rupees)	5000																									
Award / Position / Recognition Secured	Projects done																									
Title of Innovation / Start-up Secured the Award / Recognition	Bio sensors																									
Award/Recognition/Achievement Received for	Novel Research Paper/Work																									
32	Validating Novel Egg shell derived bone regenerative bioceramics	Innovation	Innovation Contest	PACE, BIRAC	Corporate / Industry Association	31-07-2019 00:00:00	31-07-2019 00:00:00	1	0	1	1	Yes	Project applied and sanctioned from DBT	Novel Egg shell derived bone regenerative bioceramics	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>1200000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	1200000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Project applied and sanctioned from DBT</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Novel Egg shell derived bone regenerative bioceramics</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>		Award / Position / Recognition Secured	Project applied and sanctioned from DBT	Title of Innovation / Start-up Secured the Award / Recognition	Novel Egg shell derived bone regenerative bioceramics	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Total Total Expense Amount Incurred by Institute? (In Rupees)	1200000																									
Award / Position / Recognition Secured	Project applied and sanctioned from DBT																									
Title of Innovation / Start-up Secured the Award / Recognition	Novel Egg shell derived bone regenerative bioceramics																									
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																									
33	A Reality Check	Entrepreneurship/Startup	Seminar	GKM CET	Educational Institute	06-08-2019 00:00:00	06-08-2019 00:00:00	1	32	3	35	No	---	---	No	No										

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34	MECHBR AINIACS AGON 2K19	Entrepreneurship/ Startup	Ideation	Sathyabama Institute of science and technolog y	Educatio nal Institute	08-08-20 19 00:00:00	09-08-20 19 00:00:00	2	6	0	6	No	---	---	No	No						
35	higher studies education	Entrepreneurship/ Startup	Awareness	GKM CET	Educatio nal Institute	16-08-20 19 00:00:00	16-08-20 19 00:00:00	1	8	0	8	No	---	---	No	No						
36	Software Defined Networki ng	IPR	Seminar	Anna Universit y	Govt. Agency (State)	09-08-20 19 00:00:00	10-08-20 19 00:00:00	2	0	2	2	No	---	---	No	No						
37	EDUMEE T	Entrepreneurship/ Startup	Exposure visit	Mitsubish i Electric India and associati on with MIT, and Anna Universit y, Chennai	Educatio nal Institute	08-08-20 19 00:00:00	08-08-20 19 00:00:00	1	0	2	2	No	---	---	No	No						
38	Guideline s, Grievanc e Redresse s, General Discipline	Entrepreneurship/ Startup	Seminar	POSH CELL	Educatio nal Institute	13-08-20 19 00:00:00	13-08-20 19 00:00:00	1	23	3	26	No	---	---	No	No						
39	Entrepre neurial and Manageri al developm ent of MSMEs	Entrepreneurship/ Startup	Awareness	MSME (DI), Guindy.	Educatio nal Institute	22-08-20 19 00:00:00	22-08-20 19 00:00:00	1	0	2	2	No	---	---	No	No						
40	PRANAV 2K19	Entrepreneurship/ Startup	Ideation	Meenaks hi Sundaraj an Engineeri ng College	Educatio nal Institute	19-08-20 19 00:00:00	19-08-20 19 00:00:00	1	4	0	4	Yes	awarded in paper presentat ion	Biosenso rs	2000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>awarded in paper presentatio n</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Biosensors</td> </tr> <tr> <td>Award/Recog nition/Achieve ment Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	awarded in paper presentatio n	Title of Innovation / Start-up Secured the Award / Recognition	Biosensors	Award/Recog nition/Achieve ment Received for	Novel Research Paper/Work
Award / Position / Recognition Secured	awarded in paper presentatio n																					
Title of Innovation / Start-up Secured the Award / Recognition	Biosensors																					
Award/Recog nition/Achieve ment Received for	Novel Research Paper/Work																					
41	Soft skills training program me	Entrepreneurship/ Startup	Training	Super Success Academy , GKM CET	Educatio nal Institute	09-09-20 19 00:00:00	10-09-20 19 00:00:00	2	18	2	20	No	---	---	No	No						



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42	E-Learning and MOOCs in Higher Education	IPR	Seminar	Anna University	Govt. Agency (State)	14-09-2019 00:00:00	14-09-2019 00:00:00	1	0	1	1	No	---	---	No	No								
43	placement technical training	Entrepreneurship/Startup	Training	Smart Training Resources	Corporate / Industry Association	23-09-2019 00:00:00	25-09-2019 00:00:00	3	25	3	28	No	---	---	No	No								
44	soft skills training	IPR	Skill development	GKM CET	Educational Institute	19-09-2019 00:00:00	25-09-2019 00:00:00	7	22	2	24	No	---	---	No	No								
45	Innovations in diagnostic microbiology	Innovation	Innovation Contest	Kamaraj College, Tuticorin	Educational Institute	20-09-2019 00:00:00	20-09-2019 00:00:00	1	1	0	1	Yes	projects done	Innovations in diagnostic microbiology	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>500</td> </tr> </table>	Total Total Expense Amount Incurred by Institute? (In Rupees)	500	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>projects done</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Innovations in diagnostic microbiology</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	projects done	Title of Innovation / Start-up Secured the Award / Recognition	Innovations in diagnostic microbiology	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Total Total Expense Amount Incurred by Institute? (In Rupees)	500																							
Award / Position / Recognition Secured	projects done																							
Title of Innovation / Start-up Secured the Award / Recognition	Innovations in diagnostic microbiology																							
Award/Recognition/Achievement Received for	Novel Research Paper/Work																							
46	Anatomy and Physiology of Central Nervous System	Entrepreneurship/Startup	Seminar	Dental College	Educational Institute	04-10-2019 00:00:00	04-10-2019 00:00:00	1	38	2	40	No	---	---	No	No								
47	Frontiers in Photonics and optical communication SCWFP OC 2019	Entrepreneurship/Startup	Workshop	Saveetha Engineering College	Educational Institute	26-09-2019 00:00:00	26-09-2019 00:00:00	1	43	2	45	No	---	---	No	No								
48	3D-printing workshop	Entrepreneurship/Startup	Workshop	GKM CET	Educational Institute	28-09-2019 00:00:00	28-09-2019 00:00:00	1	4	2	6	No	---	---	No	No								

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49	IDCON 2019	Entrepreneurship/Startup	Skill development	Prince Venkateshwar Padmavathy College of Engineering	Educational Institute	28-09-2019 00:00:00	28-09-2019 00:00:00	1	1	0	1	Yes	projects using 3D printing	Automobile engine testing	Total Total Expense Amount Incurred by Institute? (In Rupees)	2000	Award / Position / Recognition Secured	projects using 3D printing	
																	Title of Innovation / Start-up Secured the Award / Recognition	Automobile engine testing	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
50	Validating Novel Egg shell derived bone regenerative bioceramics	Innovation	Seminar	PACE BIRAC, BIRAC (New Delhi)	Corporate / Industry Association	29-09-2019 00:00:00	30-09-2019 00:00:00	2	0	1	1	No	---	---	No		No		
51	Bio inspired Technologies	Entrepreneurship/Startup	Innovation Contest	EDI, Govt of Tamil Nadu and IIITDM Kancheepuram	Govt. Agency (State)	23-10-2019 00:00:00	23-10-2019 00:00:00	1	0	1	1	No	---	---	No		No		
52	Tamilnadu Student Innovators program	Innovation	Skill development	Madras Institute of Technology	Educational Institute	29-11-2019 00:00:00	29-11-2019 00:00:00	1	5	0	5	No	---	---	No		No		
53	Social Network Analysis	IPR	Training	CSE at College of Engineering, Guindy, Anna University	Educational Institute	02-12-2019 00:00:00	06-12-2019 00:00:00	5	0	1	1	No	---	---	No		No		
54	Fundamentals of electrical drives	IPR	Skill development	NPTEL	Corporate / Industry Association	10-09-2019 00:00:00	10-09-2019 00:00:00	1	0	1	1	Yes	Ph.d registered in IIT	Electric vehicle design	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	Award / Position / Recognition Secured	Ph.d registered in IIT	
																	Title of Innovation / Start-up Secured the Award / Recognition	Electric vehicle design	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

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55	Cryptography and Network security	IPR	Skill development	GKMCET	Educational Institute	26-07-2019 00:00:00	26-07-2019 00:00:00	1	12	2	14	No	---	---	No	No									
56	intra-collegiate	IPR	Skill development	GKMCET	Educational Institute	28-08-2019 00:00:00	28-08-2019 00:00:00	1	300	12	312	No	---	---	No	No									
57	Deep Learning and Image Processing for Medical and Industrial Control Application	Entrepreneurship/Startup	Seminar	GKMCET	Educational Institute	26-09-2019 00:00:00	27-09-2019 00:00:00	2	15	0	15	Yes	Projects done	Image processing using MATLAB	<table border="1"> <tr> <td>Total</td> <td>Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>10000</td> </tr> </table>	Total	Total Expense Amount Incurred by Institute? (In Rupees)	10000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Projects done</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Image processing using MATLAB</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Projects done	Title of Innovation / Start-up Secured the Award / Recognition	Image processing using MATLAB	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Total	Total Expense Amount Incurred by Institute? (In Rupees)	10000																							
Award / Position / Recognition Secured	Projects done																								
Title of Innovation / Start-up Secured the Award / Recognition	Image processing using MATLAB																								
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																								
58	SPINTRONICS	Entrepreneurship/Startup	Skill development	GKMCET	Educational Institute	07-03-2020 00:00:00	07-03-2020 00:00:00	1	23	3	26	No	---	---	No	No									
59	CIRCUIT CONTEST	Entrepreneurship/Startup	Skill development	GKMCET	Educational Institute	25-01-2020 00:00:00	25-01-2020 00:00:00	1	18	2	20	No	---	---	No	No									
60	Technical Workshop	IPR	Workshop	Tagore Engineering College	Educational Institute	20-09-2019 00:00:00	20-09-2019 00:00:00	1	5	0	5	No	---	---	No	No									
61	Unmanned Aerial Vehicle	Entrepreneurship/Startup	Training	GKMCET	Educational Institute	18-07-2019 00:00:00	18-07-2019 00:00:00	1	23	2	25	No	---	---	No	No									
62	ESA and ESU calibration and testing	Entrepreneurship/Startup	Workshop	Helix India Private Limited, Bangalore had organized	Corporate / Industry Association	07-09-2019 00:00:00	07-09-2019 00:00:00	1	13	2	15	No	---	---	No	No									

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

63	Recent advanced in Herbal Drug Standardization	Innovation	Conference	Arvind Herbal lab, Pvt	Corporate / Industry Association	14-12-2019 00:00:00	15-12-2019 00:00:00	2	0	1	1	Yes	Projects done	Drug delivery system	Total Total Expense Amount Incurred by Institute? (In Rupees)	10000	Award / Position / Recognition Secured	Projects done	
																	Title of Innovation / Start-up Secured the Award / Recognition	Drug delivery system	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
64	Inauguration and Exchange of MoUs for Margdars han	Entrepreneurship/Startup	Training	RAJALA KSHMI ENGG COLLEGE, THANDALAM	Educational Institute	30-11-2019 00:00:00	30-11-2019 00:00:00	1	0	1	1	No	---	---	No		No		
65	Fundamentals of electrical drives	IPR	Skill development	NPTEL	Corporate / Industry Association	24-07-2019 00:00:00	12-09-2019 00:00:00	51	0	1	1	No	---	---	No		No		
66	FDP	Innovation	Seminar	IIT MADRAS	Educational Institute	09-12-2019 00:00:00	09-12-2019 00:00:00	1	0	2	2	Yes	Teaching excellency award	Microwave communication	No		Award / Position / Recognition Secured	Teaching excellency award	
																	Title of Innovation / Start-up Secured the Award / Recognition	Microwave communication	
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work	
67	MARGD ARSHAN FDP	Entrepreneurship/Startup	Conference	Rajalaks hmi Engineering College	Educational Institute	16-12-2019 00:00:00	20-12-2019 00:00:00	5	0	25	25	No	---	---	No		No		
68	ELECTRONICS AND USE OF PRECAUTION FROM TSUNAMI	Innovation	Awareness	GKMCET	Educational Institute	11-01-2020 00:00:00	11-01-2020 00:00:00	1	18	2	20	No	---	---	No		No		

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

69	National level Workshop	IPR	Workshop	Rajalaxmi Engineering college	Educational Institute	01-01-2020 00:00:00	01-01-2020 00:00:00	1	12	3	15	No	---	---	No	No										
70	DETONO 2020	Entrepreneurship/Startup	Innovation Contest	Easwari Engineering Coll	Educational Institute	08-01-2020 00:00:00	08-01-2020 00:00:00	1	8	0	8	No	---	---	No	No										
71	Recent Innovations in Controlled and Targeted Drug Delivery Systems	IPR	Workshop	DHR-ICMR	Corporate / Industry Association	08-01-2020 00:00:00	10-01-2020 00:00:00	3	102	10	112	No	---	---	No	No										
72	IIC Innovation Ambassador	Innovation	Training	R.M.K. ENGINEERING COLLEGE	Educational Institute	08-01-2020 00:00:00	08-01-2020 00:00:00	1	13	2	15	No	---	---	No	No										
73	internal Smart India Hackathon	Entrepreneurship/Startup	Hackathon	GKMCET	Educational Institute	20-01-2020 00:00:00	20-01-2020 00:00:00	1	45	5	50	Yes	projects done	Green Energy technologies	<table border="1"> <tr> <td colspan="2">Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>10000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)		10000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>projects done</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Green Energy technologies</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	projects done	Title of Innovation / Start-up Secured the Award / Recognition	Green Energy technologies	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Total Total Expense Amount Incurred by Institute? (In Rupees)		10000																								
Award / Position / Recognition Secured	projects done																									
Title of Innovation / Start-up Secured the Award / Recognition	Green Energy technologies																									
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																									
74	demonstration on Mobile Computing	Entrepreneurship/Startup	Skill development	5G Tech Solutions Pvt. Ltd	Educational Institute	21-01-2020 00:00:00	21-01-2020 00:00:00	1	13	0	13	No	---	---	No	No										
75	MHRD-AICTE	IPR	Hackathon	GKMCET	Educational Institute	20-01-2020 00:00:00	20-03-2020 00:00:00	61	5	1	6	No	---	---	No	No										
76	Orientation of Participating Institute to initiate work in the Adopted Village Clusters	Entrepreneurship/Startup	Workshop	SRM institute of science and Technology	Educational Institute	25-01-2020 00:00:00	25-01-2020 00:00:00	1	0	2	2	No	---	---	No	No										

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

77	EC 8003 CMOS Analog IC Design	Innovation	Workshop	Sri Sairam Engineering College	Educational Institute	25-11-2019 00:00:00	30-11-2019 00:00:00	6	0	2	2	No	---	---	No	No									
78	National Testing Agency	Entrepreneurship/Startup	Skill development	GKM CET	Educational Institute	01-02-2020 00:00:00	01-02-2020 00:00:00	1	25	3	28	No	---	---	No	No									
79	IMPACT LECTURE ON ENTREPRENEURSHIP AND STARTUP	Entrepreneurship/Startup	Innovation Contest	GKM CET	Educational Institute	27-02-2020 00:00:00	27-02-2020 00:00:00	1	11	2	13	No	---	---	No	No									
80	internship	Entrepreneurship/Startup	Training	Brakes India Limited	Corporate / Industry Association	20-05-2019 00:00:00	25-05-2019 00:00:00	6	5	0	5	No	---	---	No	No									
81	Tractor mechanics courses	Entrepreneurship/Startup	Skill development	Government of India at GKM campus conducted	Govt. Agency (State)	08-06-2019 00:00:00	03-08-2019 00:00:00	57	1	0	1	No	---	---	No	No									
82	Sub-surface flaw detection of GFRP components using non-destructive methods	Entrepreneurship/Startup	Seminar	Innovative Technology and Exploring Engineering	Educational Institute	13-09-2019 00:00:00	13-09-2019 00:00:00	1	0	1	1	Yes	Projects done	Advanced flaw detection	<table border="1"> <tr> <td colspan="2">5000</td> </tr> </table>		5000		<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Projects done</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Advanced flaw detection</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Projects done	Title of Innovation / Start-up Secured the Award / Recognition	Advanced flaw detection	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
5000																									
Award / Position / Recognition Secured	Projects done																								
Title of Innovation / Start-up Secured the Award / Recognition	Advanced flaw detection																								
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																								
83	Analog Discovery Kit	Innovation	Workshop	Anna University, Guidy	Educational Institute	03-05-2019 00:00:00	03-05-2019 00:00:00	1	1	3	4	No	---	---	No	No									
84	Summer Research Fellow	Innovation	Training	IIT-Delhi	Educational Institute	13-05-2019 00:00:00	31-05-2019 00:00:00	19	0	1	1	No	---	---	No	No									
85	visited TAFE	Entrepreneurship/Startup	Exposure visit	TAFE Product Training centre	Corporate / Industry Association	02-07-2019 00:00:00	02-07-2019 00:00:00	1	32	5	37	No	---	---	No	No									

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

86	Internship	Entrepreneurship/Startup	Training	Chennai Metro Water Ltd	Corporate / Industry Association	24-05-2019 00:00:00	29-05-2019 00:00:00	6	6	0	6	No	---	---	No	No									
87	Industrial Visit	Entrepreneurship/Startup	Exposure visit	Vinaythipam Educational Service Private Limited	Educational Institute	07-05-2019 00:00:00	07-05-2019 00:00:00	1	42	2	44	No	---	---	No	No									
88	software defined networking	Innovation	Conference	Anna University	Educational Institute	09-08-2019 00:00:00	10-08-2019 00:00:00	2	10	8	18	No	---	---	No	No									
89	Design and development of electrochemical sensors for the detection of leukemogenesis markers	Entrepreneurship/Startup	Conference	Polish National Agency for Academic Exchange, NAWA (Poland)	Corporate / Industry Association	08-08-2019 00:00:00	08-08-2019 00:00:00	1	0	5	5	Yes	project proposals applied	Design and development of electrochemical sensors for the detection of leukemogenesis markers	<table border="1"> <tr> <td>TotalTotal Expense Amount Incurred by Institute? (In Rupees)</td> <td>5000</td> </tr> </table>		TotalTotal Expense Amount Incurred by Institute? (In Rupees)	5000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>project proposals applied</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Design and development of electrochemical sensors for the detection of leukemogenesis markers</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	project proposals applied	Title of Innovation / Start-up Secured the Award / Recognition	Design and development of electrochemical sensors for the detection of leukemogenesis markers	Award/Recognition/Achievement Received for	Novel Research Paper/Work
TotalTotal Expense Amount Incurred by Institute? (In Rupees)	5000																								
Award / Position / Recognition Secured	project proposals applied																								
Title of Innovation / Start-up Secured the Award / Recognition	Design and development of electrochemical sensors for the detection of leukemogenesis markers																								
Award/Recognition/Achievement Received for	Novel Research Paper/Work																								
90	Electrospun biopolymer with Cocculus hirsutus composite scaffold for bone tissue engineering applications	Innovation	Conference	ICMR, New Delhi	Corporate / Industry Association	14-08-2019 00:00:00	14-08-2019 00:00:00	1	0	5	5	No	---	---	No	No									
91	REALITY EVENT	Entrepreneurship/Startup	Innovation Contest	GKM CET	Educational Institute	11-01-2020 00:00:00	11-01-2020 00:00:00	1	24	3	27	No	---	---	No	No									

**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

92	Tractor mechanics course	Entrepreneurship/Startup	Skill development	GKM College of Engineering and Technology	Educational Institute	08-04-2019 00:00:00	06-08-2019 00:00:00	12	12	1	13	Yes	Able to operate the Tractors	Automobiles	Total Total Expense Amount Incurred by Institute? (In Rupees)	1000	Award / Position / Recognition Secured	Able to operate the Tractors	
																		Title of Innovation / Start-up Secured the Award / Recognition	Automobiles
																			Award/Recognition/Achievement Received for

**Section 2 > i : List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)**

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	soft skills training	Entrepreneurship/Startup	Short term Course	Bachelor	GKMCET	19-09-2019	25-09-2019	7	Offline	300	150
2	internship program	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Biomedical engineering	09-12-2019	23-12-2019	15	Offline	78	720
3	INTELLECTUAL PROPERTY RIGHTS	IPR	Elective/Core Credit Course	Bachelor	EEE	19-01-2020	16-03-2020	58	Offline	10	48
4	EVS	Innovation	Elective/Core Credit Course	Bachelor	BME	10-01-2020	27-03-2020	78	Offline	52	64
5	PROFESSIONAL ETHICS	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	BACHELOR OF ENGINEERING	09-01-2020	22-04-2020	105	Offline	82	70
6	Mini project	Entrepreneurship/Startup	Short term Course	Master	Biomedical engineering (BME)	19-08-2019	20-12-2019	124	Offline	23	450
7	Design and Fabrication Project	Entrepreneurship/Startup	Short term Course	Bachelor	Mechanical engineering	19-08-2019	20-12-2019	124	Offline	56	120
8	Creative and Innovative Project	Innovation	Short term Course	Bachelor	Civil Engineers	19-08-2019	20-12-2019	124	Offline	17	150

**Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)**

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	MOBILE APP DEVELOPMENT	Entrepreneurship/Startup	Employment Generation Training Programs	CSE	05-02-2020	11-02-2020	7	Online	76	30



2	Tractor mechanics course	Entrepreneurship/Startup	Employment Generation Training Programs	Automobile Engineering	06-03-2019	08-08-2019	156	Offline	12	80
3	Deep learning and image processing through MATLAB	Entrepreneurship/Startup	EDP in I&E / IPR	IEEE Control system Society	24-09-2019	27-09-2019	4	Offline	55	30
4	Recent Innovations in controlled and Targetted drug delivery system	Innovation	FDP in I&E / IPR	Biomedical Engineering	07-01-2020	10-01-2020	4	Offline	150	32
5	TAFE-DDUGKY	Entrepreneurship/Startup	Employment Generation Training Programs	Automobile	01-04-2019	31-03-2020	366	Offline	150	540
6	IP Networking and Digital transmission systems	Innovation	Employment Generation Training Programs	Bharat Sanchar Nigam Limited	10-06-2019	16-06-2019	7	Offline	19	450

**Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)**

Smo	Faculty Name	Department/Centre/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019-20				
					Highest degree name in I&E and IPR	certificate course			
1	RAJATH	BIOMEDICAL ENGINEERING	ASSISTANT PROFESSOR	Yes	Degree Type	Diploma			
					Year of Highest degree in I&E and IPR	2020			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
2	M ANAND	COMPUTER SCIENCE AND ENGINEERING	ASSISTANT PROFESSOR	No	No				
3	KAMALAKANNAN	MECHANICAL ENGINEERING	ASSISTANT PROFESSOR	Yes	Highest degree name in I&E and IPR	Certificate course			
					Degree Type	Diploma			
					Year of Highest degree in I&E and IPR	2019			
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
4	Dr.R.Jayasree	Biomedical Engineering	Associate Professor	No	No				

**Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus**

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Entrepreneurship development cell	Startup Club	2012	Work Stations	Innovation Labs	15	Y.kumaresh	kumareshyogeswaran@gmail.com	7358513874
2	innovation club	Innovation Club	2018	Co-working Space,3D Printing	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools	10	Sudharsun A	sudharsunkalam@gmail.com	7092271550
3	mobile app and IOT club	Idea Club	2019	Work Stations	Incubation Unit,Innovation Labs	11	Prakash	22cse1682@gkmcet.net.in	9514088615
4	Energy club	Innovation Club	2018	Co-working Space	Innovation Park/Research Park	17	navaneeth k	navaneeth2503@gmail.com	9047975892
5	robotics club	Innovation Club	2015	Work Stations	Innovation Labs	13	Ravichandar .R	rrcmmeditechindia@gmail.com	9940205790
6	AEROSPACE RIDERS	Innovation Club	2017	Work Stations	Innovation Labs	9	AKASH H	akshaero007@gmail.com	6380283388
7	Civilian	Idea Club	2018	Co-working Space	Innovation Labs	9	Harini	harinisindhu1998@gmail.com	9080578446
8	society auto engineers	Startup Club	2015	None	Innovation Park/Research Park	2	S.Dilip Kumar	hodauto2018@gkmcet.net.in	6380705772
9	INSTITUTE OF MARINE ENGINEERS	Innovation Club	2001	None	IPR Cell/Technology Transfer Centre	2	S. DINESH	dineshstorio@gmail.com	8220874047
10	SPINTRONICS	Innovation Club	2015	Co-working Space,Work Stations	Innovation Labs,IPR Cell/Technology Transfer Centre	13	M.DEVI	devimoorthy@gmail.com	7448616431
11	Association of biomedical engineers (Istos)	Innovation Club	2016	Co-working Space,Work Stations	Innovation Labs	17	SRIDIVYA	sridivya2k@gmail.com	9361362361

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

Srno	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Had institute Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?
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**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

1	Biomedical Pre-Incubation Center	Tinkering Lab	2015	3D Printing & Prototype Equipment, Work Stations	Incubation Unit, Innovation Labs, Student Clubs	Incubation Unit, Innovation Labs, Student Clubs	Facility Incharge Name	Dr.R.Jayasree	4	Yes	Yes		Yes	
							Facility Incharge Email	hodbio@gkmcet.net.in			Total Annual Income from Training and Skill Development Services (In Rupees)	23000		
							Facility Incharge Phone	9003288459			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	10000		
											Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	5000		
Source of Grant / Fund					Agency Name			Agency Type			Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)			
Funding Agency					ICMR			Govt. Agency (Central)			50000			

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

2	Automobile fuel testing center	EDC	2012	Co-working Space, Work Stations	Centre of Excellence with Advance Tools	Centre of Excellence with Advance Tools	Facility Incharge Name	Dr. Vengatesh	4	Yes	Yes		Yes
							Facility Incharge Email	hodauto2018@gkmcet.net.in			Total Annual Income from Training and Skill Development Services (In Rupees)	3000	
							Facility Incharge Phone	6380705772			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	10000	
											Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1000	
Source of Grant / Fund					Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)			
Institute's Own Fund / Resource					GKM College of Engineering and Technology			Educational Institute		19000			

**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

3	Entrepreneurship development cell	Startup Cell	2012	Work Stations	Innovation Labs, Student Clubs	Innovation Labs, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>J. Kamal akanna n</td> </tr> <tr> <td>Facility Incharge Email</td> <td>jkamal18@gmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9941420457</td> </tr> </table>	Facility Incharge Name	J. Kamal akanna n	Facility Incharge Email	jkamal18@gmail.com	Facility Incharge Phone	9941420457	6	Yes	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>5000</td> </tr> <tr> <td>Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)</td> <td>2000</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>1000</td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	5000	Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	2000	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1000	Yes
Facility Incharge Name	J. Kamal akanna n																								
Facility Incharge Email	jkamal18@gmail.com																								
Facility Incharge Phone	9941420457																								
Yes																									
Total Annual Income from Training and Skill Development Services (In Rupees)	5000																								
Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	2000																								
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1000																								
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)																
Institute's Own Fund / Resource				GKM College of Engineering and Technology			Educational Institute		10000																

**Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

No Data Filled!

**Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)**

No Data Filled!

**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to	Name of the Funding Schemes	Facility Details	Total Nos of Dedicated Executive/Manag	Had the Research Park/Innovation Park Provided any Funding Support for	Had institute Generated Income either from Services Offered by Research Park/Innovation Park?	Had the Research Park/Innovation Park Provided any Funding Support for
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**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

Sl. No.	Project Name	Year	Other I & E Facilities at the HEI	Available with Research/Innovation Park, if any (Optional)	Facility Incharge		ement team Strength Engaged at the Facility	Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Income		Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?
					Name	Email			Total Annual Income from Training and Skill Development Services (In Rupees)	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	
1	Project cell	2020	Student Clubs	DBT and TNSCST	Facility Incharge Name	A.Ana nd	5	Yes	Yes		Yes
					Facility Incharge Email	toman and06 @gmail .com			Total Annual Income from Training and Skill Development Services (In Rupees)		
					Facility Incharge Phone	73583 01928					
Source of Grant / Fund			Agency Name				Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
Funding Agency			TNSCST				Govt. Agency (State)		0		
2	Biomedical Research cell	2020	Incubation Unit, Innovation Labs, Student Clubs	DBT	Facility Incharge Name	Dr.R.J ayasre e	4	Yes	Yes		Yes
					Facility Incharge Email	hodbio 2018 @gkm cet.net .in			Total Annual Income from Training and Skill Development Services (In Rupees)		
					Facility Incharge Phone	90032 88459					
Source of Grant / Fund			Agency Name				Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		

**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

3	Renewable Energy lab	2020	Pre-Incubation, Innovation Labs, Student Clubs	MODROBS,AICTE	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>S.Mani megalai</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hodee2018@gkmcet.net.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9025053221</td> </tr> </table>	Facility Incharge Name	S.Mani megalai	Facility Incharge Email	hodee2018@gkmcet.net.in	Facility Incharge Phone	9025053221	5	Yes	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td></td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)		Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		Yes
Facility Incharge Name	S.Mani megalai																						
Facility Incharge Email	hodee2018@gkmcet.net.in																						
Facility Incharge Phone	9025053221																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)																							
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)																							
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)																							
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)																	

**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

<b>No Data Filled!</b>
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**Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

Srno	Name of the Faculty	Designation of the Faculty	Mentor Expert Area	Years of Experience in Mentorship (In Years)
1	KAMALAKANNAN	ASSISTANT PROFESSOR	Idea/Innovation Development, Entrepreneurship/Startup Development, IPR Protection & Commercialization	12
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
Solar , wind hybrid battery for automobiles		Within		
2	RAJATH	ASSISTANT PROFESSOR	Idea/Innovation Development	3
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
Bio sensors development		Within		
3	M ANAND	ASSISTANT PROFESSOR	Idea/Innovation Development, Entrepreneurship/Startup Development	8
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
solar, biosensors		Within		

**Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups**

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship				
1	Dr.V. Prasannakumari	Idea/Innovation Development,Entrepreneurship/Startup Development	Structured Mentorship				
	Structured Mentorship Program Name	Start Date	End Date	Total No of Days of Mentorship Program	No of Mentors Involved	Mentorship Cohort Size (No. of Mentee)	Type of Mentee
	Margdarshan	27-07-2019	01-08-2019	6	6	20	Idea

**Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received**

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019											
														Agency Name	TN SC ST	Agency Type	Govt. Agency (State)	Award / Position / Recognition Secured	Agency Name	10000	Agency Type	Corporate / Industry Association	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000
1	Hybrid Source for Electrical Vehicles	Process Innovation	Technological	EEE Department	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing		No														
Name		Type		Gender		Email		Contact																
N.Padmavathy		Faculty		Female		natarajannpadmavathy@gmail.com		8939758916																



Name	Type	Gender	Email	Contact
Ravi Prasath .G	Student	Male	raviprasath490@gmail.com	7667759696
Vengatesan .M	Student	Male	vengat1999m@gmail.com	9715771662

2	ECG Based Human Heart block detector using microcontroller	Process Innovation	Technological	EEE Department	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Completed	No	No	Grant Amount in Rs	12500	Loan/Investment Agency Name	8000	Amount Received in Rs.	10000
													Agency Type	Educational Institute		
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	6000		
													Date of Investment Raised	03-09-2019		

Name	Type	Gender	Email	Contact
S.M.Balamurugan	Faculty	Male	ersmbalu@gmail.com	9994218756

Name	Type	Gender	Email	Contact
Ravichandar .R	Student	Male	rccmeditechindia@gmail.com	9940205790

3	Optimization techniques for congestion management using FACTS devices	Process Innovation	Technological	EEE Department	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs	1000	Loan/Investment Agency Name	7500	Amount Received in Rs.	8000
													Agency Type	Educational Institute		
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	5000		
													Date of Investment Raised	29-08-2019		

Name	Type	Gender	Email	Contact
Dr.P.Suriya	Faculty	Female	suriyaannamalaiee@gmail.com	8939126009

Name		Type		Gender		Email		Contact									
Suresh.M		Student		Male		msuresh.muniyan@gmail.com		999454090									
4	EXPERIMENTAL INVESTIGATION OF DECCAN HEMP OIL IN CI ENGINE USING ALUMINIUM OXIDE NANO ADDITIVES	Process Innovation	Technological	Mechanical Engineering	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	9500	Loan/Investment Agency Name	12500	Amount Received in Rs.	8000
									Agency Type	Educational Institute				Agency Type	Educational Institute		
									Award / Position / Recognition Secured	7500				Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000		
									Date of Investment Raised	18-09-2019							
Name		Type		Gender		Email		Contact									
Mr.J.KAMALAKANNAN		Faculty		Male		jkamal18@gmail.com		9941420457									
Name		Type		Gender		Email		Contact									
D.BABU		Student		Male		-		-									
K.JESSON		Student		Male		-		-									
BHARATH		Student		Male		-		-									
JAGANNATHAN		Student		Male		-		-									
5	FABRICATION AND PERFORMANCE ANALYSIS OF AIR COMPRESSED ENGINE	Process Innovation	Technological	Mechanical Engineering	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 0 : Idea. Unproven concept, no testing has been performed.	Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	11000	Amount Received in Rs.	10000
									Agency Type	Educational Institute				Agency Type	Educational Institute		
									Award / Position / Recognition Secured	BE ST				Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9500		
									Date of Investment Raised	09-09-2019							

Name	Type	Gender	Email	Contact
DR.K.ARUNAN	Faculty	Male	arunan196909@gmail.com	9677264475

Name	Type	Gender	Email	Contact
J.AKASH	Student	Male	-	-
R.ANUSHREE	Student	Male	-	-
V.LOKESH	Student	Male	-	-

6

DESIGN AND FABRICATION OF REGENERATIVE BRAKING SYSTEM	Process Innovation	Technological	MECHANICAL ENGINEERING	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	9500	Loan/Investment Agency Name	10000	Amount Received in Rs.	8000
								Agency Type	Educational Institute				Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	7500		
								Award / Position / Recognition Secured	BEST				Date of Investment Raised	31-08-2019		

Name	Type	Gender	Email	Contact
Mr.K.BASKAR	Faculty	Male	baskar1430@gmail.com	9965682162

Name	Type	Gender	Email	Contact
S.ARUN	Student	Male	-	-
A.BALAJI	Student	Male	-	-
M.NAGESWAR	Student	Female	-	-
R.SABARINATHAN	Student	Female	-	-

7	ANALYZE THE ENERGY PARAMETERS TO ENHANCE THE SUSTAINABLE BUILDING	Process Innovation	Technological	CIVIL ENGINEERING	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	10000	Agency Type	Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	6800	Date of Investment Raised	09-09-2019	Amount Received in Rs.	7500
									Award / Position / Recognition Secured	BE ST													

Name	Type	Gender	Email	Contact
MR.D.ASHOKKUMAR	Faculty	Male	yaitsmeak@gmail.com	9994046105

Name	Type	Gender	Email	Contact
S.KALANEETHI	Student	Male	-	-
S.MUSTHAFA REDWAN	Student	Male	-	-

8	OPTIMIZED PLANNING, SCHEDULING AND COST ANALYSIS OF A HIGH-RISE BUILDING	Process Innovation	Technological	CIVIL ENGINEERING	Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 0 : Idea. Unproven concept, no testing has been performed.	Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	10000	Agency Type	Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	7000	Date of Investment Raised	11-09-2019	Amount Received in Rs.	8000
									Award / Position / Recognition Secured	BE ST													

Name	Type	Gender	Email	Contact
MR.D.ASHOKKUMAR	Faculty and Student	Male	yaitsmeak@gmail.com	9994046105

Name	Type	Gender	Email	Contact
B SHAMEEL AHMED	Student	Male	-	-

9	STUDY ON BEHAVIOR OF PARTIALLY REPLACEMENT OF GGBS	Process Innovation	Technological	CIVIL ENGINEERING	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Dropped	Agency Name GKMCET	Agency Type Educational Institute	Award / Position / Recognition Secured BEST	No	Grant Amount in Rs 10000	Loan/Investment Agency Name 10000	Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 8000	Date of Investment Raised 28-08-2019	Amount Received in Rs. 9000
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Name	Type	Gender	Email	Contact
R.SURESHKUMAR	Faculty	Male	rsk.civil@yahoo.com	9944623438

Name	Type	Gender	Email	Contact
B.PRIYA	Student	Male	-	-
C.PRIYANKA	Student	Female	-	-
M.HEMAPRIYA	Student	Female	-	-
S.DANDAPANI	Student	Male	-	-

10	MedIoTek Healthcare Systems	Process Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name GKMCET	Agency Type Educational Institute	Award / Position / Recognition Secured BEST	No	Grant Amount in Rs 8000	Loan/Investment Agency Name 11000	Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 8500	Date of Investment Raised 13-09-2019	Amount Received in Rs. 6000
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Name	Type	Gender	Email	Contact
Mr.Raji	Faculty	Male	raji.a@vincense.com	8945617328

11	Controlled drug delivery system for insulin using biosensor	Process Innovation	Technological		Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	Agency Name	TAMILNADU STATE COUNCIL	No	Grant Amount in Rs	7500	Loan/Investment Agency Name	10000	Agency Type	Govt. Agency (State)	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000	Date of Investment Raised	18-07-2019	No
									Award / Position / Recognition Secured	Received grant of Rs 7500												

Name	Type	Gender	Email	Contact
Jayasree R	Faculty	Female	jsree1410@gmail.com	9003288459

Name	Type	Gender	Email	Contact
Bharanitharan M	Student	Male	bharanimano13@gmail.com	9710347440
Anbarasan A	Student	Male	-	-

12	Piezoelectric Epitaxial flexible material for improving battery life of Pacemakers	Process Innovation	Non-Technological / Social / Community Innovation		Faculty			Innovation Development Ongoing	Agency Name	GKMCET	No	Grant Amount in Rs	8000	Loan/Investment Agency Name	7500	Agency Type	Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	5000	Date of Investment Raised	13-09-2019	Amount Received in Rs.	6000
									Award / Position / Recognition Secured	BEST													

Name	Type	Gender	Email	Contact
Jayasree R	Faculty	Female	jsree1410@gmail.com	9003288459

Name		Type							Gender		Email			Contact		
Sudharsun A		Student							Male		sudharsunkalam@gmail.com			7092271558		
13	Studies On Osteogenic Activity Of A Composite Implant Based On Layered Double Hydroxide	Process Innovation	Technological		Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Completed	No	Yes	Grant Amount in Rs	12000	Loan/Investment Agency Name	10000	Amount Received in Rs.	1000
												Agency Type	Educational Institute			
												Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	8000			
													Date of Investment Raised	17-09-2019		
Name		Type							Gender		Email			Contact		
Jayasree R		Faculty							Female		jsree1410@gmail.com			9003288459		
Name		Type							Gender		Email			Contact		
ANUPAMA DEVI V K		Faculty							Female		anupamadevkv@gmail.com			9486119473		
14	Smart intelligent system based on LoRa and IOT for women and children safety	Process Innovation	Technological	Electronics and Communication Engineering	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 0 : Idea. Unproven concept, no testing has been performed.	Innovation Development Ongoing	No	Yes	Grant Amount in Rs	11000	Loan/Investment Agency Name	10000	Amount Received in Rs.	9000
												Agency Type	Educational Institute			
												Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000			
													Date of Investment Raised	16-08-2019		
Name		Type							Gender		Email			Contact		
R. Purushothaman		Faculty							Male		csestaff2@gkmcet.net.in			9445655293		

Name	Type	Gender	Email	Contact
S.Akshaya	Student	Female	akshayasridharan20051999@gmail.com	9791852022
R.Ramya	Student	Female	ramyarajagopal1999@gmail.com	7867053398

15	passenger facilitate system	Service Innovation	Technological	Electronics and Communication Engineering	Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Completed	Agency Name GKMCET	Agency Type Educational Institute	Award / Position / Recognition Secured BEST	No	Grant Amount in Rs 10000	Loan/Investment Agency Name 10000	Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 8000	Date of Investment Raised 12-09-2019	Amount Received in Rs. 7500
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Name	Type	Gender	Email	Contact
N.Kanimozhi	Faculty	Female	kanimozhiraja3108@gmail.com	9841070847

Name	Type	Gender	Email	Contact
K.Nandini	Student	Male	nandhinigayathiri@gmail.com	8668064103
S.Bharathi	Student	Male	bbk.luck22@gmail.com	-

16	Energy harvesting from ship vibration	Process Innovation	Technological	Marine Engineer	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	Agency Name GKMCET	Agency Type Educational Institute	Award / Position / Recognition Secured BEST	No	Grant Amount in Rs 10000	Loan/Investment Agency Name 120000	Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 10000	Date of Investment Raised 10-09-2019	Amount Received in Rs. 8000
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Name	Type	Gender	Email	Contact
PON LENIN	Faculty	Male	ponlenin@gmail.com	9962077423

Name	Type	Gender	Email	Contact
Mahendra Balaji K	Student	Male	-	-
Ajay kannan E	Student	Male	-	-
Charles k	Student	Male	-	-
Naveenkumar R	Student	Male	-	-

17

Heat sensing with alarm by using microcontroller and can	Process Innovation	Non-Technological / Social / Community Innovation	Marine Engineer	Faculty			Innovation Development Completed	Agency Name	GKMCET	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	8000	Amount Received in Rs.	7800	
								Agency Type	Educational Institute				Agency Type	Educational Institute			
								Award / Position / Recognition Secured	BEST AWARD				Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	6000			
													Date of Investment Raised	11-09-2019			

Name	Type	Gender	Email	Contact
PON LENIN	Faculty	Male	ponlenin@gmail.com	9962077423

Name	Type	Gender	Email	Contact
Rajesh C	Student	Male	-	-
Vijay K	Student	Male	-	-
Mythrayan R	Student	Male	-	-
Sundarapandian P	Student	Male	-	-

18	LPG as marine fuel	Process Innovation	Non-Technological / Social / Community Innovation	Marine Engineer	Faculty			Innovation Development Completed	No	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	9000	Amount Received in Rs.	9000	
													Agency Type	Educational Institute			
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	5000			
													Date of Investment Raised	12-09-2019			

Name	Type	Gender	Email	Contact
PON LENIN	Faculty	Male	ponlenin@gmail.com	9962077423

Name	Type	Gender	Email	Contact
Muhammed Awes Qusro Muhamed Abdul majeed	Student	Male	-	-
Gokulram R	Student	Male	-	-
Shubam kumar Dagar	Student	Male	-	-
Selvakumar P	Student	Male	-	-

19	"Design and Implementation of Front mono suspension in motorcycle"	Process Innovation	Non-Technological / Social / Community Innovation	Automobile Engineering	Faculty			Innovation Development Dropped	No	No	Grant Amount in Rs	11000	Loan/Investment Agency Name	9500	Amount Received in Rs.	9500	
													Agency Type	Educational Institute			
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	6500			
													Date of Investment Raised	16-09-2019			

Name	Type	Gender	Email	Contact
VENKATESAN	Faculty	Male	venkatesanv81@gmail.com	6380705772

Name	Type	Gender	Email	Contact
Murugan M	Student	Male	-	-
Lokesh B S	Student	Male	-	-
Mohammed Ismail Abrar.K	Student	Male	-	-
Vignesh Raju M	Student	Male	-	-

20	"Performance and emission studies of a diesel engine using dual biofuel blends blends"	Process Innovation	Technological	Automobile Engineering	Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	Agency Name GKMCET Agency Type Educational Institute Award / Position / Recognition Secured BEST POSITION	No	Grant Amount in Rs 100000	Loan/Investment Agency Name 10000 Agency Type Educational Institute Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 7500 Date of Investment Raised 13-09-2019	Amount Received in Rs. 9000
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Name	Type	Gender	Email	Contact
VENKATESAN	Faculty	Male	vekatesanv98@gmail.com	6380705772

Name	Type	Gender	Email	Contact
Ramachandran A	Student	Male	-	-
Rajesh R	Student	Male	-	-
Keerthivasan T	Student	Male	-	-

21	"Calcium carbide (Acetylide gas) powered engine"	Process Innovation	Non-Technological / Social / Community Innovation		Faculty			Innovation Development Completed	Agency Name GKMCET		No	Grant Amount in Rs 7500	Loan/Investment Agency Name 12500		Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 10500	Date of Investment Raised 06-09-2019	Amount Received in Rs. 6000
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Name	Type	Gender	Email	Contact
VENKATESAN	Faculty	Male	venkatesanv81@gmail.com	6380705772

Name	Type	Gender	Email	Contact
Madan Raj B	Student	Male	-	-
Navaneedha Krishnan S	Student	Male	-	-
Vipin Kumar A D	Student	Male	-	-

22	"Study on Engine Noise and vibration characteristics using soapnut oil methyl ester and pine oil as alternate fuel "	Service Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	Agency Name GKM College of Engineering and Technology		No	Grant Amount in Rs 12000	Loan/Investment Agency Name 10000		Agency Type Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) 9000	Date of Investment Raised 18-03-2020	Amount Received in Rs. 10000
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Name	Type	Gender	Email	Contact
VENKATESAN	Faculty	Male	venkatesanv81@gmail.com	6380705772

Name	Type	Gender	Email	Contact
Dhanesh varman S G	Student	Female	-	-
Mahasakthi.S	Student	Male	-	-
Mohammed Mujahudeen J	Student	Male	-	-

23

AUTOMATIC BRAIN TUMOUR DETECTION AND CLASSIFICATION USING RFLICM	Process Innovation	Technological	Electronics and Communication Engineering	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 0 : Idea. Unproven concept, no testing has been performed.	Innovation Development Completed	Agency Name	GKMCET	No	Grant Amount in Rs	10000	Loan/Investment Agency Name	10000	Amount Received in Rs.	7500
					Agency Type	Educational Institute		Agency Type	Educational Institute							
					Award / Position / Recognition Secured	BEST		Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	7500							
					Date of Investment Raised	22-08-2019										

Name	Type	Gender	Email	Contact
S DESIGAN	Faculty	Male	sdesigan2000@gmail.com	9498021895

Name	Type	Gender	Email	Contact
REKHA R	Student	Female	-	7904843650
NISHANTHI S	Student	Female	-	6382099780

24	DESIGN AND DEVELOPMENT OF AI BASED PORTABLE CHAT BOTS FOR PROVIDING PRELIMINARY PRE-DIAGNOSTIC PRESCRIPTIONS	Process Innovation	Technological	Electronics and Communication Engineering	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	Grant Amount in Rs	125000	<table border="1"> <tr> <td>Loan/Investment Agency Name</td> <td>12500</td> </tr> <tr> <td>Agency Type</td> <td>Educational Institute</td> </tr> <tr> <td>Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)</td> <td>8500</td> </tr> <tr> <td>Date of Investment Raised</td> <td>06-09-2019</td> </tr> </table>	Loan/Investment Agency Name	12500	Agency Type	Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	8500	Date of Investment Raised	06-09-2019	<table border="1"> <tr> <td>Amount Received in Rs.</td> <td>8000</td> </tr> </table>	Amount Received in Rs.	8000
Loan/Investment Agency Name	12500																							
Agency Type	Educational Institute																							
Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	8500																							
Date of Investment Raised	06-09-2019																							
Amount Received in Rs.	8000																							

Name	Type	Gender	Email	Contact
S DESIGAN	Faculty	Male	sdesigan2000@gmail.com	9498021895

Name	Type	Gender	Email	Contact
Catherin. L	Student	Female	-	8489266192
Mohana. S	Student	Female	-	8015904973

25	INDOOR AND OUTDOOR PROBLEM MANAGEMENT OF VISUALLY IMPAIRED PEOPLE USING TEXT TO SPEECH METHOD	Process Innovation	Technological	Electronics and Communication Engineering	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	Grant Amount in Rs	11000	<table border="1"> <tr> <td>Loan/Investment Agency Name</td> <td>11000</td> </tr> <tr> <td>Agency Type</td> <td>Educational Institute</td> </tr> <tr> <td>Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)</td> <td>9000</td> </tr> <tr> <td>Date of Investment Raised</td> <td>09-09-2019</td> </tr> </table>	Loan/Investment Agency Name	11000	Agency Type	Educational Institute	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000	Date of Investment Raised	09-09-2019	<table border="1"> <tr> <td>Amount Received in Rs.</td> <td>9000</td> </tr> </table>	Amount Received in Rs.	9000
Loan/Investment Agency Name	11000																							
Agency Type	Educational Institute																							
Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation on support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	9000																							
Date of Investment Raised	09-09-2019																							
Amount Received in Rs.	9000																							

Name	Type	Gender	Email	Contact
S DESIGAN	Faculty	Male	sdesigan2000@gmail.com	9498021985

Name	Type	Gender	Email	Contact
M.NANDHINIDEVI	-	-	-	9840326967
A.PRIYADHARSHINI	-	-	-	7397404704

**Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI**

Srno	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/ SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs during the financial period 2019-20?	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Venture establishment during the financial period 2019-20	Had the venture/startup raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/ HEI received any income/revenue from venture/startup for the pre-incubation/incubation support and the services offered by Pre-incubation or institute during the financial period 2019-20	Has the Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20								
1	TAFE-DDUGKY TRAINING CENTRE	Process Innovation, Service Innovation	Technological	7023	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration 00000	2019-20	Venture Development Dropped	No	Grant Amount in Rs 200000	<table border="1"> <tr> <td>Loan/Investment Agency Name</td> <td>TAFE</td> </tr> <tr> <td>Agency Type</td> <td>TAFE</td> </tr> <tr> <td>Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)</td> <td>TAFE</td> </tr> <tr> <td>Date of Investment Raised</td> <td>TAFE</td> </tr> </table>	Loan/Investment Agency Name	TAFE	Agency Type	TAFE	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	TAFE	Date of Investment Raised	TAFE	300000	Yes
Loan/Investment Agency Name	TAFE																				
Agency Type	TAFE																				
Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	TAFE																				
Date of Investment Raised	TAFE																				

Name	DIN number	Type	Gender	Email	Contact
TAFE	00000	Innovator/Entrepreneur External to Institute	Male	hodauto2018@gkmcet.net.in	6380705772

### Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI

Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership	Date of MOU / Agreement Signed on
1	PALO ALTO NETWORKS	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	43	22-02-2019
2	DEEPAM HOSPITAL	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation,Incubation	45	31-01-2019
3	AMS Solutions Inc	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	41	07-08-2019
4	Shalom Consultancy	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring	39	23-10-2019
5	MediOTek Healthcare Systems	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	47	23-11-2019
6	Indian Institute of Technology	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking,Seed fund	4	25-02-2020

### Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner

<b>No Data Filled!</b>
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### Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner

<b>No Data Filled!</b>
------------------------

### Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI

<b>No Data Filled!</b>
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### Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

<b>No Data Filled!</b>
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### List the patent Published & Granted to HEI

Srno	Title / Name of Patent	Type of IP	Publication / Granted Number	Publication / Granted Year	Status	Remarks
1	Lemon Grass oil composition Diesel Blend as alternative fuel for Blend	Published	201941048053 A	2019	Approved	
2	Lemon Grass oil composition Diesel Blend as alternative fuel for Blend	Published	201941048053 A	2019	Approved	duplicate



## 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. N.S.BHUVANESWARI (Head of Institute) and Mr. R MAHALAKSHMI (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



N-S. Bhuvaneshwari  
30/3/24

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Dr. N.S.BHUVANESWARI  
Head of the Institution,  
Chennai, Tamil Nadu

Nodal officer



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Mr. R MAHALAKSHMI  
Nodal Officer,  
Chennai, Tamil Nadu