



# 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: GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY [ARI-U-1071]

### 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	ACIC GIET UNIVERSITY FOUNDATION	Incubation Unit	Agriculture, Biotechnology, Renewable Energy Sources, Construction, IOT and Artificial Intelligence	UG / PG / PhD	Technical	150	6	2
2	GIET University Research cell	Research Unit / Park	ECE, Biotech, Electrical, Computrscience, Mechanical, Agriculture, Civil, Basic Science And Humanities, Chemical	UG / PG / PhD	Technical	300	80	24
3	ECE	Centre of Excellence with Advance Tools & Equipment	VLSI, Fiber Optics	UG / PG / PhD	Technical	80	4	2
4	Biotech	Academic Department with lab facility	Environmental Biotechnology, Molecular Biology, Genetic Engineering, Microbiology, Immunology, Nao biotechnology, Plant tissue culture, Biochemistry, Bioreactor designing and processing	UG / PG / PhD	Technical	114	15	3
5	EEE	Academic Department with lab facility	Renewable energy sources, Smart grid, Electrical Machine lab, Renewable Energy Lab, Power electronics lab, Energy Management and auditing lab, IOT lab	UG / PG / PhD	Technical	291	21	6
6	CSE	Academic Department with lab facility	Machine Learning, Data science, Programming	UG / PG / PhD	Technical	577	42	11

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

7	Mechanical	Academic Department with lab facility	Material testing, welding shop, Engineering workshop, Melting furnace lab, Thermal Engineering, Auto cad	UG / PG / PhD	Technical	481	42	9
8	Agriculture	Academic Department with lab facility	Tissue culture, crop production, agronomy, soil science, horticulture, plant pathology, plant breeding, entomology, physiology, crop protection, agriculture extension	UG / PG / PhD	Technical	180	29	9
9	civil	Academic Department with lab facility	Construction, Green Building, Environmental engineering	UG / PG / PhD	Technical	341	27	6
10	Basic science and Humanities	Academic Department with lab facility	physics, chemistry, computer lab, Basic Electrical lab, Basic Electronics lab, Mechanics lab	UG / PG / PhD	Technical	580	21	7
11	Chemical	Academic Department with lab facility	Waste Water Treatment, Modeling and Simulation of Chemical Process, Mineral Beneficiation, Thermal physical Properties	UG / PG / PhD	Technical	118	11	1
12	ECE	Academic Department with lab facility	Communication, VLSI, IOT, Antenna Engineering, Signal Processing, Embedded system, Image processing, Fibre optics	UG / PG / PhD	Technical	375	30	10
13	BIOTECH	Centre of Excellence with Advance Tools & Equipment	Bio fertilizer	UG / PG / PhD	Technical	20	2	1
14	Mechanical	Centre of Excellence with Advance Tools & Equipment	AutoCAD	UG / PG / PhD	Technical	120	6	2
15	Electrical and Electronics	Centre of Excellence with Advance Tools & Equipment	IOT and Renewable energy sources	UG / PG / PhD	Technical	60	3	1
16	Electrical	Academic Department with lab facility	High voltage lab, Simulation Lab, Control and Instrumentation lab	UG / PG / PhD	Technical	223	14	3
17	Institution Innovation Council	Pre-incubation unit	Artificial Intelligence, Renewable Energy sources, Agricultures, Waste management, IOT application, Sustainable resources development, Construction	UG / PG / PhD	Technical	120	5	2

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

18	Host Institute recognized by MSME	Incubation Unit	manufacturing, Biotechnology, Agriculture, waste management, Green Energy	UG / PG / PhD	Technical	70	3	2
19	Training and placement	Industry Institute Interface Unit	Chemical, Biotech, Civil, Mechanical, Electronics, Computer science, Management, Agriculture	UG / PG / PhD	Technical	3334	54	12
20	Management studies	Academic Department with lab facility	Human resource, Finance, Marketing, Operation, Entrepreneurship development, regional Marketing	UG / PG / PhD	Technical	362	21	4
21	Electronics and Instrumentation	Academic Department with lab facility	Automation, Programmable logic controller, Distribution system	UG / PG / PhD	Technical	117	9	1
22	Information technology	Academic Department with lab facility	Information	UG / PG / PhD	Technical	65	7	1
23	IP facilitation cell GIETU	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Intellectual property	UG / PG / PhD	Technical	60	4	1

**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 : IC201912033
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)	Yes	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?
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**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

1	ENTREPRENEURSHIP WEEK	Entrepreneurship/Startup	Awareness	Institute Lead Activity	EDPCELL	05-03-2020 00:00:00	10-03-2020 00:00:00	6	Within Campus	120	12	21	3	156	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	58000	No						
2	start boot camp programme	Entrepreneurship/Startup	Boot camp	Student Lead Activity	EDP cell and IIC	19-04-2019 00:00:00	21-04-2019 00:00:00	3	Within Campus	110	8	6	0	124	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>FIRST PRIZE</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>BIODEGRADABLE PEN</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	FIRST PRIZE	Title of Innovation / Start-up Secured the Award / Recognition	BIODEGRADABLE PEN	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	FIRST PRIZE																						
Title of Innovation / Start-up Secured the Award / Recognition	BIODEGRADABLE PEN																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
3	giat innovation challenge 1.0	Innovation	Innovation Contest	Student Lead Activity	IEEE student association	09-09-2019 00:00:00	10-09-2019 00:00:00	2	Within Campus	120	6	0	0	126	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	12000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>FIRST PRIZE</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>SMART AGRITECH</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	FIRST PRIZE	Title of Innovation / Start-up Secured the Award / Recognition	SMART AGRITECH	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	FIRST PRIZE																						
Title of Innovation / Start-up Secured the Award / Recognition	SMART AGRITECH																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
4	GIAT INNOVATION CHALLENGE 2.0	Innovation	Innovation Contest	Student Lead Activity	IEEE student association	15-10-2019 00:00:00	15-10-2019 00:00:00	1	Within Campus	115	6	0	0	121	No	No							
5	One day awareness workshop on IPR	IPR	Motivational speak	Institute Lead Activity	CIPAM	06-09-2019 00:00:00	06-09-2019 00:00:00	1	Within Campus	140	21	0	0	161	No	No							

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

6	Innovations in bio-inspired Computing and communication Technologies	Innovation	Conference	Institute Lead Activity	GIETU	16-12-2019 00:00:00	17-12-2019 00:00:00	2	Within Campus	240	32	0	20	292	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	120000	Award / Position / Recognition Secured	RESRACH SCOLAR
																Title of Innovation / Start-up Secured the Award / Recognition	ANTENNA FOR 5G COMMUNICATION	
																Award/Recognition/Achievement Received for	Novel Research Paper/Work	
7	Support for entrepreneurial and managerial development through business incubator	Innovation	Awareness	Institute Lead Activity	MSME-DI,CUTTACK	08-09-2019 00:00:00	09-09-2019 00:00:00	2	Within Campus	120	15	2	0	137	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	No	
8	Innovation Programme	Entrepreneurship/Startup, Innovation	Mentoring Session	Institute Lead Activity	Dr.Aurobinda Routray Professor from Electrical Dept. IIT kharagpur	25-02-2020 00:00:00	25-02-2020 00:00:00	1	Within Campus	150	12	0	0	162	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No	
9	INTERNATIONAL CONFERENCE ON "INNOVATION & EMERGING TRENDS IN GLOBAL BUSINESSES - OPPORTUNITIES AND CHALLENGES	Innovation	Conference	Institute Lead Activity	Hindustan College of Arts and Science	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Outside Campus	0	2	0	0	2	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**

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/R recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the	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
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**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**

														Award / Recognition									
1	One day Awareness Program on (Intellectual Property Rights(IPR) for Clusters	IPR	Motivational speak	MSME	Govt. Agency (Central)	28-08-2019 00:00:00	31-08-2019 00:00:00	4	6	2	8	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	12000	No						
2	IIC Innovation ambassador-training program	Entrepreneurship/Startup	Training	AICTE	Govt. Agency (Central)	06-03-2020 00:00:00	08-03-2020 00:00:00	3	0	4	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	13000	No						
3	Ideas for New India	Entrepreneurship/Startup	Orientation Session	MSME,INDIA	Govt. Agency (Central)	30-01-2020 00:00:00	30-01-2020 00:00:00	1	0	4	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	21000	No						
4	REBUILD ODISHA HACKATHON SERIES	Innovation	Innovation Contest	STARTUP ODISHA	Govt. Agency (State)	20-09-2019 00:00:00	21-09-2019 00:00:00	2	8	1	9	Yes	SECOND	GENERATION OF ELECTRICITY FROM ROAD BUMPERS	No		<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>SECOND</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>GENERATION OF ELECTRICITY FROM ROAD BUMPERS</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	SECOND	Title of Innovation / Start-up Secured the Award / Recognition	GENERATION OF ELECTRICITY FROM ROAD BUMPERS	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	SECOND																						
Title of Innovation / Start-up Secured the Award / Recognition	GENERATION OF ELECTRICITY FROM ROAD BUMPERS																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
5	Support for Entrepreneurial and Managerial Development of MSMEs through Incubator	Entrepreneurship/Startup	Training	MSME	Govt. Agency (Central)	05-09-2019 00:00:00	05-09-2019 00:00:00	1	12	4	16	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	66000	No						

**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	Rural Entrepreneurship	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	school of management	13-11-2020	20-11-2020	8	Online	70	32
2	entrepreneurship	Entrepreneurship/Startup	Full time Program	Master	MBA	01-01-2019	11-06-2020	528	Offline	12	120

**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	Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY)	Entrepreneurship/Startup	Employment Generation Training Programs	ddugky	07-01-2020	07-04-2020	92	Offline	1000	280
2	ONLINE CERTIFICATION PROGRAMME ON DIGITAL MARKETING	Entrepreneurship/Startup	EDP in I&E / IPR	EDII AND MSME	11-10-2020	17-10-2020	7	Online	87	56
3	Mushroom cultivation	Entrepreneurship/Startup	Employment Generation Training Programs	Agriculture Dept of GIETU	15-09-2020	20-09-2020	6	Offline	15	60

**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)**

Srno	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											
1	Rahul Goel	Entrepreneurship Development Institute of India-Ahmedabad	Assistant Professor	Yes	Yes											
						Highest degree name in I&E and IPR	Open Learning Program in Entrepreneurship	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
						Degree Type	Diploma	open learning programme in entrepreneurship	Entrepreneurship/Startup	Short term Certificate	EDII	Govt. Agency (Central)	01-10-2019 00:00:00	03-09-2020 00:00:00	339	Online
						Year of Highest degree in I&E and IPR	2019	open learning programme in entrepreneurship	Entrepreneurship/Startup	Short term Certificate	EDII	Govt. Agency (Central)	16-10-2019 00:00:00	16-09-2020 00:00:00	337	Online
2	karteeek madapana	Schhol of management GIET University	Assistant Professor	No	Yes											
						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		
3	karteeek madapana	school of management	Assistant Professor	No	Yes											
						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	HIMANSU SEKHAR DASH	BIOTECH	ASSISTANT PROFESSOR	No	Yes											

	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
5	RADHANATH PATRA	ECE		ASSISTANT PROFESSOR				Yes	
	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
6	DR SADANAND SAHOO	MBA		ASSOCIATE PROFESSOR				Yes	
	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
7	HIMANSU SEKHAR DASH	BIOTECH		Assistant professor				Yes	
	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
	accelartion programme	Entrepreneurship/Startup	MDP in I&E, IPR	IIT mandi catalyst	Govt. Agency (Central)	06-02-2019 00:00:00	06-05-2019 00:00:00	90	Offline
8	Dr.Manab sahu	MBA		Asst Professor				No	
9	Mr.Vikiram anand	EEE		Asst professor				No	
10	Manoj Das	Biotech		Professor				No	
11	Mr.Gautam Gupta	ECE		Asst Professor				No	
12	Dr.Nellamdahav Padhy	Computer science		Asoc professor				No	
13	Mr.GRKD satay prasad	EEE		Assoc Professor				No	
14	Dr.Kali ratha	Mechanical		Asst Professor				No	
15	Dr.Rinny swaini	Agriculture		Assoc professor				No	
16	Dr.B.K mishra	CSC		Assoc professor				No	
17	Dr.Radha krushana padhi	Chemical		Professor				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	ROBOTICS CLUB	Innovation Club	2012	Work Stations	Innovation Park/Research Park	4	Srikant Mishra	misra.srikant@gmail.com	9337126556
2	g innovation club	Startup Club	2019	3D Printing	Incubation Unit	5	gautam	gautam@giet.edu	7979986934
3	Android IT CLUB	Idea Club	2019	Work Stations	Innovation Labs	5	RANJIT PATNAIK	ranjitpatnaik@giet.edu	9776192499
4	DATASCIENCE CLUB	Idea Club	2020	Co-working Space	Pre-Incubation Unit	2	Dr. NEELAMADHAV PADHY	dr.neelamadhab@giet.edu	7978557037



5	SOCIETY OF AUTOMATIVE ENGINEERS	Idea Club	2015	Work Stations	Pre-Incubation Unit	3	Mr.Sontosh kumar tripathy	sktripathy@giet.edu	7205700824
6	club concreto	Innovation Club	2010	Work Stations	Pre-Incubation Unit	3	paresh biswal	biswalparesh3@gmail.com	8895715967
7	energy club	Innovation Club	2015	Work Stations	Incubation Unit	4	rakesh sahuo	rkeshrit@gmail.com	8249682494

**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?
							Facility Incharge Name	Facility Incharge Email				
1	GIET University	Innovation Centre	2014	Work Stations	Incubation Unit	Incubation Unit	Facility Incharge Name	Mr.Radhanathra	4	Yes	No	No
							Facility Incharge Email	1radhanathra@gmail.com				
							Facility Incharge Phone	9178970093				
2	GIET University	Startup Cell	2019	3D Printing & Prototype Equipment	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre	Facility Incharge Name	Dr.A.V. N.L SHARMA	4	Yes	No	Yes
							Facility Incharge Email	deanacademics@giet.edu				
							Facility Incharge Phone	6301046936				
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						AICTE			Govt. Agency (Central)		2000000	
Institute's Own Fund / Resource						GIETU			Educational Institute		100000	

**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	MSME (support for entrepreneurial and managerial development through business incubator)	Innovation Centre	2014	Work Stations	Innovation Labs	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>RADH ANATH APATRA</td> </tr> <tr> <td>Facility Incharge Email</td> <td>1radhanath.patra@gmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9178970093</td> </tr> </table>	Facility Incharge Name	RADH ANATH APATRA	Facility Incharge Email	1radhanath.patra@gmail.com	Facility Incharge Phone	9178970093	5	Yes	No	Yes
Facility Incharge Name	RADH ANATH APATRA																
Facility Incharge Email	1radhanath.patra@gmail.com																
Facility Incharge Phone	9178970093																
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		MSME				Govt. Agency (Central)		1082000									

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

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE 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 CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?						
1	VLSI and embedded system using xilinx vivado	2019	Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.S Rout</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ssrout@giet.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7008958184</td> </tr> </table>	Facility Incharge Name	Dr.S.S Rout	Facility Incharge Email	ssrout@giet.edu	Facility Incharge Phone	7008958184	3	Yes	No	No
Facility Incharge Name	Dr.S.S Rout														
Facility Incharge Email	ssrout@giet.edu														
Facility Incharge Phone	7008958184														

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

2	CAD LAB TWINTECH	2019	Incubation Unit	TWIN TECH	Facility Incharge Name	Dr. Kali charan Rath	5	Yes	Yes		Yes
					Facility Incharge Email	kalimtech@gmail.com			Total Annual Income from Training and Skill Development Services (In Rupees)	200000	
					Facility Incharge Phone	9438105974			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	100000	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	30000	
Source of Grant / Fund			Agency Name			Agency Type			Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)		
3	photonics	2019	Innovation Labs	no	Facility Incharge Name	Mr.T.K Panda	3	No	No		Yes
					Facility Incharge Email	tkpanda@giet.edu					
					Facility Incharge Phone	9040693050					
Source of Grant / Fund			Agency Name			Agency Type			Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)		

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

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility 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 Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?
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**Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)**

1	ACIC GIET UNIVERSITY FOUNDATION	2020	Innovation Park/Research Park	ACIC-ATAL COMMUNITY INNOVATION CENTRE,ATAL INNOVATION MISSION	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.JBV subrhamanya m</td> </tr> <tr> <td>Facility Incharge Email</td> <td>edpcell@giet.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9849149791</td> </tr> </table>	Facility Incharge Name	Dr.JBV subrhamanya m	Facility Incharge Email	edpcell@giet.edu	Facility Incharge Phone	9849149791	8	No	No	Yes
Facility Incharge Name	Dr.JBV subrhamanya m														
Facility Incharge Email	edpcell@giet.edu														
Facility Incharge Phone	9849149791														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Institute's Own Fund / Resource		GIET UNIVERSITY,GUNUPUR			Educational Institute		7000000								

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

No Data Filled!

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre 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 IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	GIET University	2019	Incubation Unit	NO	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>jbv subrhamanya m</td> </tr> <tr> <td>Facility Incharge Email</td> <td>deanrd@giet.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9849149791</td> </tr> </table>	Facility Incharge Name	jbv subrhamanya m	Facility Incharge Email	deanrd@giet.edu	Facility Incharge Phone	9849149791	6	Yes	No	No
Facility Incharge Name	jbv subrhamanya m														
Facility Incharge Email	deanrd@giet.edu														
Facility Incharge Phone	9849149791														

**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	Rahul Goel	Assistant Professor	Entrepreneurship/Startup Development	10
Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI		CIN (in case it is Startup)
SMART AGRICULTURE		Within		
2	HIMANSU SEKHAR DASH	Assistant professor	Entrepreneurship/Startup Development	5

**Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	AZEEDO[Crop defender from parthenium hysterophorous(congress gas)]	Within	U24290JH2019PTC013523
3	Manoj Das	Professor	Idea/Innovation Development
	bio Reactor	Within	
4	Mr.Vikram anand	Asst professor	Entrepreneurship/Startup Development
	zemag	Within	U73200OR2019PTC032349
5	Mr.Gautam Gupta	Asst Professor	Entrepreneurship/Startup Development
	teckat a engineering solution	Outside	U51909JH2019PTC013236
6	RADHANATH PATRA	ASSISTANT PROFESSOR	Entrepreneurship/Startup Development
	safnap	Outside	U74999JH2020PTC013941
7	Mr.GRKD satay prasad	Assoc Professor	Idea/Innovation Development
	Self realiant multipurpose solar coller for house hold appliaction	Within	
8	Dr.Manab sahu	Asst Professor	IPR Protection & Commercialization
	Sodium silicate from rice husk char	Within	
9	Dr.Radha krushana padhi	Professor	Idea/Innovation Development
	WASTE WATER TREATMENT	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	Mr.S.N das/MSME-DI-CUTTACK	Entrepreneurship/Startup Development	Unstructured Mentorship



1	PROMOTION OF CRAFT AND ENGINEERING THROUGH TECHNOLOGY	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	AICTE	No	No	No	No
									Agency Type	Govt. Agency (Central)				
									Award / Position / Recognition Secured	SELECTED IN CHARTRA VISAKARMA AWARDED FOR SECOND ROUND				

Name	Type	Gender	Email	Contact
SANDEEP KUMAR	Student	Male	edpcell@giet.edu	7004734064

Name	Type	Gender	Email	Contact
GAUTAM GUPTA	Faculty	Male	gautam@giet.edu	7979986934

2	INFINITY	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name MSME		No	No	No	No
									Agency Type Govt. Agency (Central)					
									Award / Position / Recognition Secured FINAL ROUND INTO YCAT HO N-2021					

Name	Type	Gender	Email	Contact
SIDHARTH PADHI	Student	Male	SIDHARTHPADHI5995@GMAIL.COM	9348792413

Name	Type	Gender	Email	Contact
debrata dansana	Faculty	Male	debratadansana07@gmail.com	9776456781

3	SIGN TO SPEECH converter	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name AICTE		No	21000	No	No
									Agency Type Govt. Agency (Central)			Grant Amount in Rs		
									Award / Position / Recognition Secured STARUP UNDER SAMRITHI SVHEME					

Name	Type	Gender	Email	Contact
KARUNKAR BEHERA	Student	Male	98karuna@gmail.com	8596914321



4	MAKERS LAB IN ROBOTRONIXS	Service Innovation	Non-Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	AICTE	No	No	No	Amount Received in Rs.	10000
								Agency Type	Govt. Agency (Central)						
									Award / Position / Recognition Secured	STARTUP RECOGNIZED UNDER SAMRIDDHI SCHEME					

Name	Type	Gender	Email	Contact
nishan kumar bouri	Student	Male	kishanbouri584@gmail.com	9162595716

5	PORTABLE MECHANICAL KIT	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	AICTE	No	No	No	No
									Agency Type	Govt. Agency (Central)				
									Award / Position / Recognition Secured	STARTUP UNDER SAMRIDDHI SCHEME				

Name	Type	Gender	Email	Contact
pankaj hebram	Faculty and Student	Male	hembrampankaj@gmail.com	8877070727

6	walking cycle	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name AICTE	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured START UP UNDER AICTE	Yes	Grant Amount in Rs 12000	No	No
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Name	Type	Gender	Email	Contact
Ajay kumar	Faculty and Student	Male	7407ajaykumar@gamil.com	9304175503

7	zemag	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name AICTE	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured start up under samridhi	Yes	Grant Amount in Rs 23000	No	Amount Received in Rs. 100000
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Name	Type	Gender	Email	Contact
Sankar Sethi	Student	Male	sankarsethi0000@gmail.com	6370389192

8	crop defender	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name	AICTE	No	25000	No	100000
									Agency Type	Govt. Agency (Central)		Grant Amount in Rs		Amount Received in Rs.
									Award / Position / Recognition Secured	START UP UNDER SAMRIDHI				

Name	Type	Gender	Email	Contact
Rudra Abhishek	Faculty and Student	Male	rudraabhishek2000@gamil.com	9348444874

9	Satya Prakash Behera	Product Innovation	Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name	AICTE	No	No	No	No
									Agency Type	Govt. Agency (Central)				
									Award / Position / Recognition Secured	START UP UNDER SAMRIDHI SCHEME				

Name	Type	Gender	Email	Contact
Satya Prakash Behera	Faculty and Student	Male	satyaprakash14114325@gmail.com	7377618176

10	WATIGA	Service Innovation	Non-Technological	GIET University	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name AICTE	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured START UP UNDER AICTE	No	No	No	No
Name		Type			Gender		Email			Contact					
suraj singh		Student			Male		GAUTAM@giet.edu			9777695204					
11	Development of PICO Hydro- Solar - Wind – Hybrid System with transferable battery in tribal areas of Rayagada	Product Innovation	Technological	GIET University	Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Adopted and Implemented at Ground	Agency Name DST	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured FUNDED	No	No	No	No
Name		Type			Gender		Email			Contact					
Mr.GRKD satya prasad		Faculty			Male		hodee@giet.edu			8598853582					

12	Physicochemical properties of various ternary mixtures containing two synergistic nuclear extractants and one polar modifier/ one nonpolar diluent using macroscopic (ultrasonic, volumetric, viscometric, Refractive index, conductivity, dielectric constant) and microscopic (NMR, UV Visible, FTIR spectra ) routes at different temperatures.	Product Innovation	Technological	GIET University	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Dr.Rinny swaini	Faculty	Female	rinnyswain@giet.edu	8895438804

13	Energy performance of a domestic grid tied zero energy building integrated with on site renewable energy technology	Product Innovation	Technological	GIET University	Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Adopted and Implemented at Ground	Agency Name	dst	No	No	No	No
									Agency Type	Govt. Agency (Central)				
									Award / Position / Recognition Secured	recognized				

Name	Type	Gender	Email	Contact
Mr.GRKD satya prasad	Student	Male	hodee@giet.edu	8598853582



1	ACIC GIET UNIVERSITY FOUNDATION	Product Innovation	Technological	4569	External to the Institute	Venture with Corporate Identification Number (CIN) Registration U80221OR 2020NPL03 3106	2019-20	Received Incubation Support from Incubation Unit	Agency Name AIM NITI AAYOG	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured ATAL COMMUNITY INNOVATION CENTRE	Grant Amount in Rs 30000000	No	No	No
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Name	DIN number	Type	Gender	Email	Contact
SATYA PRAKASH PANDA	02779517	Innovator/Entrepreneur External to Institute	Male	PRESIDENT@giet.edu	9437044170

CHANDRADHWAJ PANDA	06636434	Innovator/Entrepreneur External to Institute	Male	vicepreseident@giet.edu	-
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2	FAB INNOV PRIVATE LIMITED	Product Innovation	Technological	4569	Student	Venture with Corporate Identification Number (CIN) Registration U73200OR 2020PTC03 2458	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs 200000	No	No	No
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Name	DIN number	Type	Gender	Email	Contact
AJAY PURTY	08662173	Student	Male	ajaypurty28.11@gmail.com	7008501056

PANKAJ KUMAR HEMBRAM	08662174	Student	Male	-	-
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3	ZEMAG SERVICES PRIVATE LIMITED	Product Innovation	Technological	4569	Student	Venture with Corporate Identification Number (CIN) Registration U73200OR 2019PTC03 2349	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs 200000	No	No	No
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Name	DIN number	Type	Gender	Email	Contact
SANKAR SETHI	08650033	Student	Male	sankarsethi0000@gmail.com	6370389192

4	TECKAT SERVICES PRIVATE LIMITED	Service Innovation	Technological	4569	Student	Venture with Corporate Identification Number (CIN) Registration	U51909JH2019PTC013236	2019-20	Received Incubation Support from Incubation Unit	No	No	No	Amount Received in Rs.	20000	Yes	
Name		DIN number		Type		Gender		Email		Contact						
PRITAM KUNDU		08519796		Student		Male		pritamkundu60@gmail.com		9337704495						
5	SAFNAP PRIVATE LIMITED	Service Innovation	Non-Technological	4569	Student	Venture with Corporate Identification Number (CIN) Registration	U74999JH2020PTC013941	2019-20	Received Incubation Support from Incubation Unit	Agency Name STARTUP JHARKHAND	Agency Type Govt. Agency (State)	Award / Position / Recognition Secured RECOGNITION	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact						
PRITAM KUNDU		08519796		Student		Male		pritamkundu60@gmail.com		9337704495						
PUJA KUMARI		08656935		Student		Female		-		7992342811						

**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	StartUp Consulting India - Fuelling passionate Entrepreneurship	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation, Mentoring	12	01-12-2020
2	Goldi solar pvt limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation, Mentoring, Networking, Investment	120	08-12-2020
3	IIRA consulting pvt limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Networking, Investment	120	01-12-2020
4	INVENTGRID	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation, Mentoring	112	26-11-2020



5	IASC Sector Skill council	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring	120	31-12-2020
6	electronic sector skill council	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation	120	01-11-2020
7	IIT, Bombay	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	0	13-06-2019
8	Institution of Engineers (India), Kolkata	Govt. Agency (Central)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Networking	1	25-06-2019
9	NIT, Patna	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	6	02-12-2019
10	Institute for Engineering Research and Publication, Bhubaneswar	Govt. Agency (State)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Networking	0	13-12-2020
11	Machine intelligence Research Labs (MIR Labs), Scientific Network for Innovation and Research Excellence, Washington 98071, USA	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	12	17-12-2019
12	University Of Transport Technology, Hanoi VIETNAM	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Networking	5	26-11-2020
13	AUREL VLAICU UNIVERSITY OF ARAD, ROMANIA	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	0	18-11-2020
14	Imagin XP under Giggle Galaxy Pvt. Ltd. Pune , Maharashtra	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	25-11-2019
15	National Institute of Pharmaceutical Education and Research, NIPER),Kolkata	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	1	11-09-2019

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

Srno	Title/Name of IP(Copyright & Designs Only)	Type of IP(Copyright & Designs Only)	IP(Copyright & Designs Only) Registration Number of Copyright/Design	Application Level	Date of Copyright / Design IP Filed/ Published (Year, Month)	Copy of receipt / application screenshot [PDF or Image]	Current Status of IP(Copyright & Designs Only) as on 31st March 2020	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Head massaging cap	IPRFiledPublished	316682-001	International	2019 - 04	Uploaded	Filed	No
Department/Centre Name								
COMPUTER SCIENCE/GIET UNI								

**Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner**

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	Rate of Steam Condensation Observation Apparatus (RSCOA)	202031011148	International	2020 - 03	Uploaded
2	Transient Heat Transfer Observation Apparatus (Thtoa)	202031008850	International	2020 - 03	Uploaded
3	Laminar Pipe-Flow Observation Apparatus (LPFOA)	201931049723	International	2019 - 12	NA
4	Pressure Swing Rotating Bubble Cap (PSRBC)	201931023024	International	2019 - 07	Uploaded

5	coated electrode with improved austemperability	201931033588A	International	2019 - 08	Uploaded
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