



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MoE
Ministry of Education
Government of India

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

Institute Name: Indian Institute of Technology Kharagpur [ARI-U-0573]

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

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)
Rajendra Mishra School of Engineering Entrepreneurship	Academic Department with lab facility	Entrepreneurship	UG / PG / PhD	Both	58	10	3
Aerospace Engineering	Academic Department with lab facility	various aspects of aircraft and space technology	UG / PG / PhD	Technical	376	25	10
Agricultural and Food Engineering	Academic Department with lab facility	Agricultural Engineering, griculture in ensuring food and nutritional security	UG / PG / PhD	Technical	644	34	21
Architecture and Regional Planning	Academic Department with lab facility	Blend of modern building science & technology	UG / PG / PhD	Technical	322	16	9
Biotechnology	Academic Department with lab facility	Biotechnology & Biochemical Engineering	UG / PG / PhD	Technical	332	14	7
Physics	Academic Department with lab facility	Physics	At all level	Both	410	36	13
Chemical Engineering	Academic Department with lab facility	Chemical Engineering	UG / PG / PhD	Both	646	26	17
Chemistry	Academic Department with lab facility	Chemistry	At all level	Both	392	34	18
Civil Engineering	Academic Department with lab facility	Civil Engineering	At all level	Technical	675	38	14
Computer Science and Engg	Academic Department with lab facility	Computer Science and Engg	At all level	Technical	839	41	14
Electrical Engg	Academic Department with lab facility	Electrical Engg	At all level	Technical	840	35	18
Geology and Geophysics	Academic Department with lab facility	Geology and Geophysics	At all level	Both	568	30	9
Humanities and Social Sciences	Academic Department with lab facility	Humanities and Social Sciences	UG / PG / PhD	Non-Technical	435	35	5
Industrial and Systems Engg	Academic Department with lab facility	Industrial and Systems Engg	UG / PG / PhD	Technical	481	15	6

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Mathematics	Academic Department with lab facility	Mathematics	UG / PG / PhD	Both	519	36	5
Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	At all level	Technical	1168	47	34
Metallurgical and Materials engineering	Academic Department with lab facility	Metallurgical and Materials engineering	At all level	Technical	501	28	15
Mining Engineering	Academic Department with lab facility	Mining Engineering	At all level	Technical	459	22	10
Ocean Engineering and Naval Architecture	Academic Department with lab facility	Ocean Engineering and Naval Architecture	UG / PG / PhD	Technical	289	13	6
Electronics and Communications Engg	Academic Department with lab facility	Electronics and Communications Engg	At all level	Technical	882	38	28
Advanced technology Development Centre	Centre of Excellence with Advance Tools & Equipment	Advanced technology Development Centre	UG / PG / PhD	Technical	216	5	5
Centre for Rural Development and Innovative Sustainable Technologies	Centre of Excellence with Advance Tools & Equipment	Centre for Rural Development and Innovative Sustainable Technologies	UG / PG / PhD	Both	12	3	1
Centre of Computational and Data Sciences	Centre of Excellence with Advance Tools & Equipment	Centre of Computational and Data Sciences	UG / PG / PhD	Technical	5	2	2
Centre for Educational Technologies	Centre of Excellence with Advance Tools & Equipment	Centre for Educational Technologies	UG / PG / PhD	Both	23	8	6
Centre for Oceans Rivers Atmosphere and Landsciences (CORAL)	Centre of Excellence with Advance Tools & Equipment	Centre for Oceans Rivers Atmosphere and Landsciences (CORAL)	UG / PG / PhD	Technical	80	10	1
Centre for Theoretical Studies	Centre of Excellence with Advance Tools & Equipment	Centre for Theoretical Studies	UG / PG / PhD	Both	2	0	1
Centre of Excellence in Artificial Intelligence	Centre of Excellence with Advance Tools & Equipment	Centre of Excellence in Artificial Intelligence	UG / PG / PhD	Both	17	2	0
Cyrogenic Engineering	Centre of Excellence with Advance Tools & Equipment	Cyrogenic Engineering	UG / PG / PhD	Technical	41	9	4
Deysarkar Centre of Excellence in Petroleum Engineering	Centre of Excellence with Advance Tools & Equipment	Deysarkar Centre of Excellence in Petroleum Engineering	UG / PG / PhD	Technical	7	3	2
Material Science Centre	Centre of Excellence with Advance Tools & Equipment	Material Science Centre	UG / PG / PhD	Technical	101	12	4
PK Sinha Centre for Bio energy and Renewables	Centre of Excellence with Advance Tools & Equipment	PK Sinha Centre for Bio energy and Renewables	UG / PG / PhD	Technical	10	0	0
Rekhi Centre of Excellence for Science and Happiness	Centre of Excellence with Advance Tools & Equipment	Rekhi Centre of Excellence for Science and Happiness	UG / PG / PhD	Both	15	3	1

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Rubber Technology Centre	Centre of Excellence with Advance Tools & Equipment	Rubber technology	UG / PG / PhD	Technical	82	4	5
Bio Science	Academic Department with lab facility	Bio Science	UG / PG / PhD	Both	44	6	2
Energy Science and Engineering	Academic Department with lab facility	Energy Science and Engineering	UG / PG / PhD	Technical	57	4	3
Environmental Science and Engineering	Academic Department with lab facility	Environmental Science and Engineering	UG / PG / PhD	Both	33	2	3
GSSanyal School of Telecommunications	Academic Department with lab facility	GSSanyal School of Telecommunications	UG / PG / PhD	Technical	60	7	5
Nano Science and Technology	Academic Department with lab facility	Nano Science and Technology	UG / PG / PhD	Technical	47	0	1
Rajiv Gandhi School of Intellectual Property Law (RGSoIPL)	Academic Department with lab facility	Rajiv Gandhi School of Intellectual Property Law (RGSoIPL)	UG / PG / PhD	Both	188	12	2
School of Medical Science and Technology	Academic Department with lab facility	School of Medical Science and Technology	UG / PG / PhD	Both	146	21	10
School of Water Resources	Academic Department with lab facility	School of Water Resources	UG / PG / PhD	Both	44	4	3
School of Quality and Reliability	Academic Department with lab facility	School of Quality and Reliability	UG / PG / PhD	Both	50	5	4
Vinod Gupta School of management (VGSoM)	Academic Department with lab facility	Vinod Gupta School of management (VGSoM)	UG / PG / PhD	Both	524	25	8
Sponsored Research and Industrial Consultancy (SRIC)	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Sponsored Research and Industrial Consultancy (SRIC)	Not Allowed	Both	0	0	14
Continuing Education Program (CEP) office	Research Unit / Park	Continuing Education Program (CEP) office	Not Allowed	Technical	0	0	3
International Relations	Industry Institute Interface Unit	International Relations	Not Allowed	Not Allowed	0	0	4
Centre for Career Development (CDC)	Industry Institute Interface Unit	Centre for Career Development (CDC)	At all level	Not Allowed	0	0	5
Technology Students Gymkhana (TSG)	Centre of Excellence with Advance Tools & Equipment	Technology Students Gymkhana (TSG)	Not Allowed	Not Allowed	0	0	19
CWISS AVCell	Research Unit / Park	CWISS + AVCell	Not Allowed	Not Allowed	0	0	17
Central Library	Research Unit / Park	Central Library	At all level	Both	0	0	26
Rajbhasha Vibhag	Research Unit / Park	Rajbhasha Vibhag	Not Allowed	Not Allowed	0	0	2
Central Research Facility (CRF)	Research Unit / Park	Central Research Facility (CRF)	At all level	Both	0	0	14
Computer and Informatics Cell (CIC)	Research Unit / Park	Computer and Informatics Cell (CIC)	At all level	Both	0	0	15

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The Science and Technology Entrepreneurs Park (STEP)	Incubation Unit	Entrepreneurs Park	Not Allowed	Not Allowed	0	2	5
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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	No	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	Yes	IIC Registration ID : IC20180255
Trained Innovation Ambassadors at HEI	No	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

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?						
1	International Conference on Ship & Offshore Technology - India 2019 (RINA, UK and IIT Kharagpur)	Innovation	Conference	Institute Lead Activity	Department of Ocean Engineering and Naval Architecture.	07-11-2019 00:00:00	08-11-2019 00:00:00	2	Within Campus	40	12	47	21	120	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 1300000	No						
2	Samudramanhan	Innovation	Innovation Contest	Student Lead Activity	Department of Ocean Engineering and Naval Architecture.	06-03-2020 00:00:00	08-03-2020 00:00:00	3	Within Campus	25	12	40	5	82	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Best paper</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Model making</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td></td> </tr> </table>	Award / Position / Recognition Secured	Best paper	Title of Innovation / Start-up Secured the Award / Recognition	Model making	Award/Recognition/Achievement Received for	
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3	Advances in Polymer Science and Rubber Technology (APSRT-2019); Vision 2030	Innovation	Conference	Institute Lead Activity	Rubber Technology	24-09-2019 00:00:00	27-09-2019 00:00:00	4	Within Campus	90	30	120	60	300	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2600000	No
4	Green and Sustainability in Polymers and Functional Materials (GSPFM-2020)	Innovation	Conference	Institute Lead Activity	Rubber Technology	07-02-2020 00:00:00	08-02-2020 00:00:00	2	Within Campus	30	10	40	20	100	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	300000	No
5	Virtual Lab workshop on EE,ECE2 2nd International Conference on Distributed Computing and Networking	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	04-01-2020 00:00:00	07-01-2020 00:00:00	4	Outside Campus	11	4	14	7	36	No	No	
6	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	27-04-2019 00:00:00	27-04-2019 00:00:00	1	Outside Campus	5	2	6	3	16	No	No	
7	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	23-11-2019 00:00:00	23-11-2019 00:00:00	1	Outside Campus	11	4	14	7	36	No	No	
8	Virtual Lab workshop on EE,ECE, CSE,ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	20-02-2020 00:00:00	20-02-2020 00:00:00	1	Outside Campus	39	13	52	26	130	No	No	
9	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	13-09-2019 00:00:00	13-09-2019 00:00:00	1	Outside Campus	19	7	25	13	64	No	No	
10	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	25-04-2019 00:00:00	25-04-2019 00:00:00	1	Outside Campus	21	7	27	14	69	No	No	

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

11	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	21-11-2019 00:00:00	21-11-2019 00:00:00	1	Outside Campus	14	5	18	9	46	No	No
12	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	21-09-2019 00:00:00	21-09-2019 00:00:00	1	Outside Campus	47	16	62	31	156	No	No
13	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	10-06-2019 00:00:00	10-06-2019 00:00:00	1	Outside Campus	12	4	15	8	39	No	No
14	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	22-02-2020 00:00:00	22-02-2020 00:00:00	1	Outside Campus	45	15	59	30	149	No	No
15	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	01-11-2019 00:00:00	01-11-2019 00:00:00	1	Outside Campus	42	14	56	28	140	No	No
16	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	12-04-2019 00:00:00	12-04-2019 00:00:00	1	Outside Campus	33	11	43	22	109	No	No
17	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	15-11-2019 00:00:00	15-11-2019 00:00:00	1	Outside Campus	41	14	55	28	138	No	No
18	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	22-09-2019 00:00:00	22-09-2019 00:00:00	1	Outside Campus	20	7	26	13	66	No	No
19	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	08-11-2019 00:00:00	08-11-2019 00:00:00	1	Outside Campus	64	22	85	43	214	No	No
20	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	20-09-2019 00:00:00	20-09-2019 00:00:00	1	Outside Campus	20	7	27	14	68	No	No
21	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	21-09-2019 00:00:00	21-09-2019 00:00:00	1	Outside Campus	26	9	34	17	86	No	No

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22	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	27-08-2019 00:00:00	27-08-2019 00:00:00	1	Outside Campus	30	10	40	20	100	No	No
23	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	18-02-2020 00:00:00	18-02-2020 00:00:00	1	Outside Campus	59	20	79	40	198	No	No
24	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	14-09-2019 00:00:00	14-09-2019 00:00:00	1	Outside Campus	21	7	27	14	69	No	No
25	Virtual Lab workshop on EE,ECE, ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	29-08-2019 00:00:00	29-08-2019 00:00:00	1	Outside Campus	41	14	54	27	136	No	No
26	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	23-02-2020 00:00:00	23-02-2020 00:00:00	1	Outside Campus	41	14	55	28	138	No	No
27	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	06-04-2019 00:00:00	06-04-2019 00:00:00	1	Outside Campus	14	5	19	10	48	No	No
28	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	19-09-2019 00:00:00	19-09-2019 00:00:00	1	Outside Campus	30	10	40	20	100	No	No
29	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	14-03-2020 00:00:00	14-03-2020 00:00:00	1	Outside Campus	35	12	47	24	118	No	No
30	Virtual Lab workshop on EE,ECE, CSE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	31-01-2020 00:00:00	31-01-2020 00:00:00	1	Outside Campus	78	26	104	52	260	No	No
31	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	04-04-2019 00:00:00	04-04-2019 00:00:00	1	Outside Campus	13	5	17	19	54	No	No

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32	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	17-08-2019 00:00:00	17-08-2019 00:00:00	1	Outside Campus	46	16	61	31	154	No	No
33	Virtual Lab workshop on EE,ECE	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	11-04-2019 00:00:00	11-04-2019 00:00:00	1	Outside Campus	10	4	14	7	35	No	No
34	Virtual Lab workshop on EE,ECE, CSE.ME	Innovation	Workshop	Institute Lead Activity	Electrical Engineering	18-04-2019 00:00:00	18-04-2019 00:00:00	1	Outside Campus	77	26	102	51	256	No	No
35	Indian Symposium on Computer Systems (Indosys 2019)	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	19-07-2019 00:00:00	20-07-2019 00:00:00	2	Outside Campus	15	5	20	10	50	No	No
36	International Workshop on Smart Sensing: from IoT to Ambient	Innovation	Workshop	Institute Lead Activity	Computer Science and Engineering	04-01-2020 00:00:00	04-01-2020 00:00:00	1	Outside Campus	15	5	20	10	50	No	No
37	12th International Conference on Communication Systems & Networks	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	05-01-2020 00:00:00	09-01-2020 00:00:00	5	Outside Campus	75	25	100	50	250	No	No
38	Asian Test Symposium	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	10-12-2019 00:00:00	13-12-2019 00:00:00	4	Outside Campus	36	12	48	24	120	No	No
39	Machine Listening (WISSAP -2020)	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	08-01-2020 00:00:00	10-01-2020 00:00:00	3	Outside Campus	38	13	50	25	126	No	No
40	Anti-spoofing Strategies for Unseen Audio-Visual Attacks	Innovation	Workshop	Institute Lead Activity	Computer Science and Engineering	01-10-2019 00:00:00	01-10-2019 00:00:00	1	Within Campus	9	3	12	6	30	No	No

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41	National Workshop on "Adoption of Rights Statements for Digital Libraries in India"	Innovation	Workshop	Institute Lead Activity	Computer Science and Engineering	07-09-2019 00:00:00	08-09-2019 00:00:00	2	Within Campus	30	10	40	20	100	No	No	
42	KEDL 2019: NDLI-UNESCO International Symposium on Knowledge Engineering for Digital Library Design 2019	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	09-12-2019 00:00:00	11-12-2019 00:00:00	3	Outside Campus	90	30	120	60	300	No	No	
43	International Sanskrit Computational Linguistics Symposium	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	23-10-2019 00:00:00	25-10-2019 00:00:00	3	Outside Campus	24	8	32	16	80	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	400000	No
44	IEEE Asian Test Symposium (IEEE ATS)	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	10-12-2019 00:00:00	13-12-2019 00:00:00	4	Outside Campus	60	20	80	40	200	No	No	
45	Artificial Intelligence for Legal Assistance (AILA) Track at the Annual Conference of the Forum for Information Retrieval Evaluation (FIRE 2019)	Innovation	Conference	Institute Lead Activity	Computer Science and Engineering	12-12-2019 00:00:00	15-12-2019 00:00:00	4	Outside Campus	9	3	12	6	30	No	No	
46	Infrastructure Development and Management in Future Cities	Innovation	Conference	Institute Lead Activity	Ranbir and Chitra Gupta School of Infrastructure Design and Mngt.	17-04-2019 00:00:00	18-04-2019 00:00:00	2	Outside Campus	30	10	40	20	100	No	No	

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47	One day workshop on metrography	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Centre of Excellence in Advanced Manufacturing technology	29-09-2019 00:00:00	29-09-2019 00:00:00	1	Within Campus	0	1	50	0	51	No	No
48	Short term course on Composite 4.0: future and present	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Centre of Excellence in Advanced Manufacturing technology	20-08-2019 00:00:00	23-08-2019 00:00:00	4	Within Campus	0	1	0	0	1	No	No
49	Three weekend training program on CNC	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Centre of Excellence in Advanced Manufacturing technology	16-11-2019 00:00:00	01-12-2019 00:00:00	16	Within Campus	1	1	30	0	32	No	No
50	Five days training program on CNC	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Centre of Excellence in Advanced Manufacturing technology	17-02-2020 00:00:00	21-02-2020 00:00:00	5	Within Campus	0	1	0	0	1	No	No
51	85th Congress of Indian Mathematical Society	Innovation	Conference	Institute Lead Activity	Mathematics	22-11-2019 00:00:00	25-11-2019 00:00:00	4	Within Campus	0	2	20	0	22	No	No
52	K-theory and Projective Modules	Innovation	Seminar	Institute Lead Activity	Mathematics	20-08-2019 00:00:00	21-08-2019 00:00:00	2	Within Campus	1	1	15	0	17	No	No
53	Advanced Instructional School on Commutative Algebra	Innovation	Workshop	Institute Lead Activity	Mathematics	02-12-2019 00:00:00	14-12-2019 00:00:00	13	Within Campus	5	1	25	0	31	No	No

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54	Advanced Instructional School on Advanced Commutative Algebra(AIS School)	Innovation	Workshop	Institute Lead Activity	Mathematics	02-12-2019 00:00:00	14-12-2019 00:00:00	13	Within Campus	2	1	30	0	33	No	No
55	One day Symposium on Computation Data science and its Applications	Innovation	Seminar	Institute Lead Activity	Mathematics	17-02-2020 00:00:00	17-02-2020 00:00:00	1	Within Campus	20	1	35	0	56	No	No
56	Complex Analysis for Engineers	Innovation	Workshop	Institute Lead Activity	Mathematics	04-12-2019 00:00:00	06-12-2019 00:00:00	3	Within Campus	2	1	14	0	17	No	No
57	Symposium on Computational Data Science	Innovation	Seminar	Student Lead Activity	Mathematics	17-02-2020 00:00:00	17-02-2020 00:00:00	1	Within Campus	0	1	0	0	1	No	No
58	TEQIP Workshop	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Chemistry	11-03-2020 00:00:00	13-03-2020 00:00:00	3	Within Campus	5	1	40	0	46	No	No
59	Computers in Chemistry	Innovation	Workshop	Institute Lead Activity	Chemistry	11-03-2020 00:00:00	13-03-2020 00:00:00	3	Within Campus	0	1	40	0	41	No	No
60	Advances in Functional Materials (AFM 2019)	Innovation	Workshop	Institute Lead Activity	Chemistry	07-12-2019 00:00:00	07-12-2019 00:00:00	1	Within Campus	30	2	55	0	87	No	No
61	Two-day International Symposium on Functional Smart & Supramolecular Materials (FSSM-2020)	Innovation	Seminar	Institute Lead Activity	Chemistry	29-01-2020 00:00:00	30-01-2020 00:00:00	2	Within Campus	3	1	40	0	44	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

62	International Conference on Emerging Trends in Catalysis & Synthesis	Innovation	Conference	Institute Lead Activity	Chemistry	11-03-2020 00:00:00	12-03-2020 00:00:00	2	Within Campus	20	1	60	0	81	No	No
63	Recent Advances in Molecular Magnetism	Innovation	Workshop	Institute Lead Activity	Chemistry	26-11-2019 00:00:00	26-11-2019 00:00:00	1	Within Campus	1	2	40	1	44	No	No
64	Functional Smart and Supramolecular Materials Symposium	Innovation	Workshop	Institute Lead Activity	Chemistry	29-01-2020 00:00:00	30-01-2020 00:00:00	2	Within Campus	10	5	20	0	35	No	No
65	Emerging Trends in Catalysis & Synthesis 2020 (ETCS-2020)	Innovation	Workshop	Institute Lead Activity	Chemistry	11-02-2020 00:00:00	12-02-2020 00:00:00	2	Within Campus	0	1	10	1	12	No	No
66	Functional Smart & Supramolecular Materials (FSSM-2020)	Innovation	Seminar	Institute Lead Activity	Chemistry	29-01-2020 00:00:00	30-01-2020 00:00:00	2	Within Campus	30	2	45	1	78	No	No
67	Part of Organizing Committee: Emerging Trends in Catalysis & Synthesis (ETCS - 2020)	Innovation	Seminar	Institute Lead Activity	Chemistry	11-03-2020 00:00:00	12-03-2020 00:00:00	2	Within Campus	18	2	0	0	20	No	No
68	Part of Organizing Committee: Functional Smart & Supramolecular Materials (FSSM - 2020)	Innovation	Seminar	Institute Lead Activity	Chemistry	29-01-2020 00:00:00	30-01-2020 00:00:00	2	Within Campus	1	1	60	2	64	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

69	Workshop on 5G Edge Architecture in International Conference on Distributed Computing and Networking	Innovation	Workshop	Institute Lead Activity	Electronics and Electrical Communication Engg	07-01-2020 00:00:00	07-01-2020 00:00:00	1	Outside Campus	10	3	70	17	100	No	No
70	Young Innovators Program	Innovation	Innovation Contest	Institute Lead Activity	Civil Engineering	08-11-2019 00:00:00	11-11-2019 00:00:00	4	Within Campus	0	0	2400	0	2400	No	No
71	Water Conservation (Under Jal Shakti Abhiyan)	Innovation	Workshop	Institute Lead Activity	School of Water Resources	27-07-2019 00:00:00	27-07-2019 00:00:00	1	Within Campus	0	15	500	0	515	No	No
72	One day seminar on Materials Simulation from Classical to Quantum	Innovation	Seminar	Institute Lead Activity	Metallurgical and Materials Engineering	31-05-2019 00:00:00	31-05-2019 00:00:00	1	Within Campus	20	10	0	0	30	No	No
73	Workshop on Steel Technology followed by Institute Lectures of Dr. Debashish Bhattacharjee, VP Technology Tata Steel and Prof. H J Fecht, Chair Professor and Director at Institute of Micro and Nanomaterials at Ulm University, Germany	Innovation	Workshop	Institute Lead Activity	Metallurgical and Materials Engineering	24-10-2019 00:00:00	24-10-2019 00:00:00	1	Within Campus	80	20	0	0	100	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

74	Workshop on Thin Film, Stress and Texture Analysis	Innovation	Workshop	Institute Lead Activity	Metallurgical and Materials Engineering	25-02-2020 00:00:00	26-02-2020 00:00:00	2	Within Campus	50	10	0	0	60	No	No
75	Indo UK SPARC Workshop on Inherited Pediatric Hematological Disorders	Innovation	Workshop	Institute Lead Activity	School of Medical Science and Technology	06-01-2020 00:00:00	08-01-2020 00:00:00	3	Within Campus	15	9	1	5	30	No	No
76	XXth International Workshop on the Physics of Semiconductor Devices.	Innovation	Workshop	Institute Lead Activity	School of Medical Science and Technology	16-12-2019 00:00:00	20-12-2019 00:00:00	5	Outside Campus	20	8	300	20	348	No	No
77	Defense Against Dark Arts: the Curious Case of Dark Matter	Innovation	Seminar	Student Lead Activity	Physics Department	04-04-2019 00:00:00	04-04-2019 00:00:00	1	Within Campus	20	10	0	0	30	No	No
78	Numerical Investigation of Disturbance Environments in Low Pressure Turbines	Innovation	Orientation Session	Institute Lead Activity	Dept. of Aerospace Engg	17-06-2019 00:00:00	17-06-2019 00:00:00	1	Within Campus	45	7	0	0	52	No	No
79	Training on FEAST Software	Innovation	Training	Institute Lead Activity	Dept. of Aerospace Engg.	29-07-2019 00:00:00	31-07-2019 00:00:00	3	Within Campus	42	2	0	0	44	No	No
80	Recent Developments in the design and analysis of advanced composite structures	Innovation	Orientation Session	Institute Lead Activity	Dept. of Aerospace Engg	07-07-2019 00:00:00	07-07-2019 00:00:00	1	Within Campus	38	4	0	0	42	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

81	INTRODUCTION TO BUSINESS ANALYTICS - PIRAMAL	Entrepreneurship/Startup	Seminar	Institute Lead Activity	Vinod Gupta School of Management	20-01-2020 00:00:00	23-01-2020 00:00:00	4	Within Campus	12	2	20	1	35	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500000	No
82	Management Doctoral Colloquium	Entrepreneurship/Startup	Conference	Institute Lead Activity	Vinod Gupta School of Management	06-02-2020 00:00:00	07-02-2020 00:00:00	2	Within Campus	20	10	70	10	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	300000	No
83	Purvodaya 2020	Entrepreneurship/Startup	B-Plan Competitions	Student Lead Activity	Vinod Gupta School of Management	31-01-2020 00:00:00	02-02-2020 00:00:00	3	Within Campus	20	5	200	3	228	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	740000	No
84	National Conference on Communication - 2020	Innovation	Conference	Institute Lead Activity	Electronics and Electrical Communication Engg	21-02-2020 00:00:00	23-02-2020 00:00:00	3	Within Campus	60	20	240	30	350	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2000000	No
85	"International Workshop (STRUCTURAL GEOLOGY IN THE 21st CENTURY)"	Innovation	Workshop	Institute Lead Activity	Geology and Geophysics	26-02-2020 00:00:00	28-02-2020 00:00:00	3	Within Campus	60	20	200	14	294	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	00000	No
86	Indo-Australia Workshop on Integrated Urban Water Management Systems	Innovation	Workshop	Institute Lead Activity	School of Water Resources	04-11-2019 00:00:00	06-11-2019 00:00:00	3	Within Campus	10	8	2	10	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	300000	No
87	National Workshop on River-Reservoir Water Management and Modeling	Innovation	Workshop	Institute Lead Activity	School of Water Resources	21-08-2019 00:00:00	22-08-2019 00:00:00	2	Within Campus	15	10	5	50	80	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

88	National Workshop on River-Reservoir Water Management and Modeling	Innovation	Workshop	Institute Lead Activity	School of Water Resources	21-08-2019 00:00:00	22-08-2019 00:00:00	2	Within Campus	15	10	5	50	80	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No
89	Stem Cells, Materials and Tissue Engineering - An Emerging Therapeutic Symphony in Regenerative Medicine	Innovation	Workshop	Institute Lead Activity	School of Medical Science and Technology	12-09-2019 00:00:00	14-09-2019 00:00:00	3	Outside Campus	13	10	7	3	33	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	540000	No
90	Inorganic-Organic Hybrid Flexible Solar Cells for Large Area Applications	Innovation	Seminar	Institute Lead Activity	Physics Department	02-12-2019 00:00:00	16-12-2019 00:00:00	15	Within Campus	20	5	0	0	25	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500000	No
91	National Conference on Challenges in Earth System Sciences for Global Sustainability (CESSG S)	Innovation	Conference	Institute Lead Activity	CORAL	15-01-2020 00:00:00	16-01-2020 00:00:00	2	Within Campus	80	20	200	40	340	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2000000	No
92	Upscaling and field scale application of bio-electrochemical systems for wastewater treatment and bioenergy recovery	Innovation	Seminar	Institute Lead Activity	Physics Department	26-02-2020 00:00:00	27-02-2020 00:00:00	2	Within Campus	20	10	75	25	130	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	29000000	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

93	National Workshop on River-Reservoir Water Management and Modelling	Innovation	Seminar	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	21-08-2019 00:00:00	22-08-2019 00:00:00	2	Within Campus	67	0	0	0	67	No	No
94	Novel Technologies for Food Processing and Shelf Life Extension	Innovation	Seminar	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	28-01-2020 00:00:00	04-03-2020 00:00:00	37	Within Campus	0	0	4000	0	4000	No	No
95	Precision Farming in Horticulture	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	17-01-2020 00:00:00	17-01-2020 00:00:00	1	Within Campus	0	0	40	0	40	No	No
96	Micro irrigation and protected cultivation Technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	11-06-2019 00:00:00	11-06-2019 00:00:00	1	Within Campus	0	0	40	0	40	No	No
97	Micro irrigation & Greenhouse technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	22-06-2019 00:00:00	22-06-2019 00:00:00	1	Within Campus	0	0	50	0	50	No	No
98	Micro irrigation Technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	13-08-2019 00:00:00	13-08-2019 00:00:00	1	Within Campus	0	0	40	0	40	No	No
99	Drip Irrigation system and greenhouse technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	14-02-2020 00:00:00	15-02-2020 00:00:00	2	Within Campus	0	0	50	0	50	No	No
100	Micro-irrigation and greenhouse technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	18-11-2019 00:00:00	18-11-2019 00:00:00	1	Within Campus	0	0	200	0	200	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

101	Greenhouse and micro irrigation technology	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	28-08-2019 00:00:00	28-08-2019 00:00:00	1	Within Campus	0	0	30	0	30	No	No						
102	Advanced Training in Agricultural Engineering	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	11-06-2019 00:00:00	20-06-2019 00:00:00	10	Within Campus	0	0	40	0	40	No	No						
103	AICTE-QIP short term training on Food Processing, preservation and cold storage	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	17-06-2019 00:00:00	20-06-2019 00:00:00	4	Within Campus	0	0	46	0	46	No	No						
104	Technology and Machinery Demonstration Meet 2020 (Farmer's Meet)	Entrepreneurship/Startup	Training	Institute Lead Activity	Agricultural and Food Engineering, IIT Kharagpur	14-02-2020 00:00:00	14-02-2020 00:00:00	1	Within Campus	0	0	300	0	300	No	No						
105	International Conference on Functional Materials (ICFM) 2020	Innovation	Conference	Institute Lead Activity	Materials Science Centre	06-01-2020 00:00:00	08-01-2020 00:00:00	3	Within Campus	70	25	165	61	321	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>Best Poster Awards - 6 nos.</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Best Poster Awards</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	Best Poster Awards - 6 nos.	Title of Innovation / Start-up Secured the Award / Recognition	Best Poster Awards	Award/Recognition/Achievement Received for	Novel Research Paper/Work
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Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

106	100 Years of Polymers – New Challenges, New Answers by Dr. Gerhard Maier (Chief Technology Officer, Polymaterials AG; Kaufbeuren, Germany)	Innovation	Seminar	Institute Lead Activity	Materials Science Centre	02-01-2020 00:00:00	02-01-2020 00:00:00	1	Within Campus	0	12	0	2	14	No	No
107	Aromatic polymer architectures and polymer nanocomposites for optoelectronic applications by Prof. Dr. Brigitte Voit (Managing Director & CSO and Head, IPF Institute of Macromolecular Chemistry Leibniz-Institut für Polymerforschung Dresden E. V., Germany)	Innovation	Seminar	Institute Lead Activity	Materials Science Centre	02-01-2020 00:00:00	02-01-2020 00:00:00	1	Within Campus	60	12	0	2	74	No	No
108	Next Generation Non-volatile Memory Devices by Dr. Vikas Rana (Senior Scientist, Forschungs Zentrum Juelich, Germany)	Innovation	Seminar	Institute Lead Activity	Materials Science Centre	15-01-2020 00:00:00	15-01-2020 00:00:00	1	Within Campus	60	12	0	1	73	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

109	National Seminar on Challenges in Earth System Sciences for Global Sustainability,	Innovation	Conference	Institute Lead Activity	Centre for Oceans, Rivers, Atmosphere and Land Sciences (CORAL)	15-01-2020 00:00:00	16-01-2020 00:00:00	2	Within Campus	50	20	20	10	100	No	No
110	Ozone hole, discovery to recovery", World ozone day talk, Zoological Survey of India, Kolkata	Innovation	Awareness	Institute Lead Activity	Zoological Survey of India, Kolkata(HQ).	16-09-2019 00:00:00	16-09-2019 00:00:00	1	Outside Campus	0	0	50	25	75	No	No
111	Two-Day Workshop on "Urban Riverine Heritages of Bengal: From Nostalgic Yearnings to Visions of a Resilient Future", organized by the Dept. of HSS in collaboration with the Rekhi Centre of Excellence for the Science of Happiness	Innovation	Workshop	Institute Lead Activity	IIT Kharagpur	28-01-2020 00:00:00	29-01-2020 00:00:00	2	Within Campus	10	5	10	5	30	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

112	Workshop on "Research Methodologies and Frameworks on Socio-environmental Resilience: Lessons from the Field", organized by the Rekhi Centre of Excellence for the Science of Happiness	Innovation	Workshop	Institute Lead Activity	Rekhi Centre of Excellence for the Science of Happiness	13-09-2019 00:00:00	13-09-2019 00:00:00	1	Within Campus	15	3	5	3	26	No	No
113	International Mother Language Day seminar, talk on 'Big vs. Small Languages and Mother Tongue Education'	Innovation	Seminar	Institute Lead Activity	HSS	26-02-2020 00:00:00	26-02-2020 00:00:00	1	Within Campus	20	5	3	1	29	No	No
114	Happiness and Well-being Studies	Innovation	Awareness	Institute Lead Activity	HSS	22-07-2019 00:00:00	31-07-2019 00:00:00	10	Within Campus	60	25	40	25	150	No	No
115	Digital Humanities Research Methods	Innovation	Workshop	Institute Lead Activity	HSS	13-10-2019 00:00:00	18-10-2019 00:00:00	6	Within Campus	30	5	15	5	55	No	No
116	Research Methodologies and Frameworks on Socio-environmental Resilience	Innovation	Awareness	Institute Lead Activity	HSS	13-09-2019 00:00:00	13-09-2019 00:00:00	1	Within Campus	70	10	20	10	110	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

117	Urban Riverine Heritages of Bengal: From Nostalgic Yearnings to the Visions of a Resilient Future	Innovation	Seminar	Institute Lead Activity	HSS	28-01-2020 00:00:00	29-01-2020 00:00:00	2	Within Campus	60	15	20	12	107	No	No
118	Rural Water Quality and Management 2019	Innovation	Boot camp	Institute Lead Activity	HSS	14-05-2019 00:00:00	16-05-2019 00:00:00	3	Within Campus	10	2	15	6	33	No	No
119	Dissemination Workshop on Qualitative Methods for Research in Socially Inclusive and Sustainable Agricultural Intensification	Innovation	Awareness	Institute Lead Activity	HSS	16-09-2019 00:00:00	17-09-2019 00:00:00	2	Within Campus	20	5	15	5	45	No	No
120	Speaking Effectively	Entrepreneurship/Startup	Awareness	Institute Lead Activity	HSS	17-02-2020 00:00:00	24-02-2020 00:00:00	8	Within Campus	7000	200	7000	800	15000	No	No
121	TEQIP III Training Program on Advanced Pedagogy Digital Tool for TEQIP Faculty	Entrepreneurship/Startup, Innovation	Workshop	Institute Lead Activity	HSS	03-06-2019 00:00:00	07-06-2019 00:00:00	5	Within Campus	23	5	30	10	68	No	No
122	Advanced Pedagogy Digital Tool for TEQIP Faculty Members	Entrepreneurship/Startup	Workshop	Institute Lead Activity	HSS	10-06-2019 00:00:00	14-06-2019 00:00:00	5	Within Campus	40	6	40	5	91	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

123	TEQIP III Advanced Pedagogy Digital Tool for TEQIP Faculty Members	Entrepreneurship/Startup	Workshop	Institute Lead Activity	HSS	01-07-2019 00:00:00	05-07-2019 00:00:00	5	Within Campus	30	5	40	14	89	No	No
124	AICTE QIP-STC ON HUMAN RESOURCE MANAGEMENT: EMERGING ISSUES AND FUTURE CHALLENGES	Innovation	Workshop	Institute Lead Activity	HSS	30-10-2019 00:00:00	05-11-2019 00:00:00	7	Within Campus	10	5	20	5	40	No	No
125	National Conference on Communications (NCC 2020)	Innovation	Conference	Institute Lead Activity	G S SANYAL	21-02-2020 00:00:00	23-02-2020 00:00:00	3	Within Campus	65	10	150	25	250	No	No
126	Workshop title: Redefining the Horizons of Nanoscale Compositon Characterization-Laser Assisted Atom Probe Tomography	Entrepreneurship/Startup	Workshop	Institute Lead Activity	School of Nanoscience and Technology, IIT Kharagpur	10-07-2019 00:00:00	10-07-2019 00:00:00	1	Within Campus	65	6	0	1	72	No	No
127	Seminar title: Functional Nanomaterials in ClenTech and Medicine: an overview of our past and on-going UKIERI Projects	Entrepreneurship/Startup	Awareness	Institute Lead Activity	School of Nanoscience and Technology, IIT Kharagpur	16-12-2019 00:00:00	16-12-2019 00:00:00	1	Within Campus	43	5	0	0	48	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

128	Workshop title: One-Day Workshop on Biomaterials Characterization and Performance Evaluation	Entrepreneurship/Startup	Workshop	Institute Lead Activity	CRF IIT Kgp, Bose Institute and SNST, IIT Kgp	20-12-2019 00:00:00	20-12-2019 00:00:00	1	Within Campus	32	5	14	8	59	No	No
129	Seminar title: Advanced Imaging and Microscopy	Innovation	Seminar	Institute Lead Activity	MME and School of Nanoscience and Technology, IIT Kharagpur	10-02-2020 00:00:00	10-02-2020 00:00:00	1	Within Campus	30	8	0	1	39	No	No
130	Seminar title: Electron Probe MicroAnalysis: Quantitative analysis and latest development at CAMECA	Entrepreneurship/Startup	Seminar	Institute Lead Activity	MME and School of Nanoscience and Technology, IIT Kharagpur	08-08-2019 00:00:00	08-08-2019 00:00:00	1	Within Campus	38	4	0	1	43	No	No
131	Webinar on Science and Spirituality	Innovation	Seminar	Institute Lead Activity	Rekhi centre Indian Institute of Technology Kharagpur	08-02-2020 00:00:00	08-02-2020 00:00:00	1	Within Campus	20	5	10	5	40	No	No
132	Workshop on Research Methodologies and Frameworks on Socioenvironmental resilience : Lessons from the field	Innovation	Workshop	Institute Lead Activity	Department of Humanities and Social Sciences, I.I.T Kharagpur	13-09-2019 00:00:00	13-09-2019 00:00:00	1	Within Campus	20	10	20	10	60	No	No
133	Global Entrepreneurship Summit (GES) 2020	Entrepreneurship/Startup	Innovation Contest	Institute Lead Activity	RMSoEE	31-01-2020 00:00:00	02-02-2020 00:00:00	3	Within Campus	5000	50	1200	50	6300	No	No

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

134	AICTE-QIP course on Manifestations of Angular Momentum in Light and Quantum Matter (MAMLM-2019)	Innovation	Workshop	Institute Lead Activity	Physics Department, IIT Kharagpur	09-09-2019 00:00:00	14-09-2019 00:00:00	6	Within Campus	10	5	30	6	51	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	100000	No
135	Classical Black Holes	Innovation	Training	Institute Lead Activity	Physics Department, IIT Kharagpur	24-09-2019 00:00:00	15-11-2019 00:00:00	53	Within Campus	15	4	0	0	19	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	85000	No
136	UG Orientation Session	Innovation	Orientation Session	Student Lead Activity	Physics Department	08-05-2019 00:00:00	08-05-2019 00:00:00	1	Within Campus	35	0	0	0	35	No	No	
137	Department Lab Visit	Innovation	Exposure visit	Student Lead Activity	Physics Department	08-09-2019 00:00:00	08-09-2019 00:00:00	1	Within Campus	35	0	0	0	35	No	No	
138	Internship & Higher Studies Session	Innovation	Mentoring Session	Institute Lead Activity	Physics Department	15-10-2019 00:00:00	15-10-2019 00:00:00	1	Within Campus	30	0	0	0	30	No	No	
139	Defense Against Dark Arts: the Curious Case of Dark Matter	Innovation	Seminar	Institute Lead Activity	Physics Department	04-04-2019 00:00:00	04-04-2019 00:00:00	1	Within Campus	5	0	0	0	5	No	No	
140	Inorganic-Organic Hybrid Flexible Solar Cells for Large Area Applications	Innovation	Seminar	Institute Lead Activity	Physics Department, IIT Kharagpur	02-12-2019 00:00:00	16-12-2019 00:00:00	15	Within Campus	20	5	0	0	25	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500000	No
141	Symposium on Applications of DFT & TDDFT in Materials and Molecules	Innovation	Seminar	Institute Lead Activity	Physics Department	09-09-2019 00:00:00	12-09-2019 00:00:00	4	Within Campus	50	10	0	0	60	No	No	

Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

142	Universal features of hydrodynamical, optical and wave turbulence	Innovation	Seminar	Institute Lead Activity	University of CotedAzur	09-09-2019 00:00:00	12-09-2019 00:00:00	4	Outside Campus	0	2	20	80	102	No	No			
143	Upscaling and field scale application of bio-electrochemical systems for wastewater treatment and bioenergy recovery	Innovation	Seminar	Institute Lead Activity	Physics Department, IIT Kharagpur	26-02-2020 00:00:00	27-02-2020 00:00:00	2	Within Campus	20	10	75	25	130	No	No			
144	TEQIP III - STC - CFD and Experiments on fluid-structure interactions for both rigid and elastic materials	Innovation	Workshop	Institute Lead Activity	Dept. of Aerospace Engg, IIT Kharagpur	14-10-2019 00:00:00	18-10-2019 00:00:00	5	Within Campus	10	2	31	1	44	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>10000</td> </tr> </table>		Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000																		

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
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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

1	KPIT Sparkle 2020	Innovation	Innovation Contest	KPIT technologies limited	Corporate / Industry Association	29-02-2020 00:00:00	01-03-2020 00:00:00	2	1	1	2	Yes	Silver	Vortex Energy Generator	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Silver</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Vortex Energy Generator</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>		Award / Position / Recognition Secured	Silver	Title of Innovation / Start-up Secured the Award / Recognition	Vortex Energy Generator	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Silver																						
Title of Innovation / Start-up Secured the Award / Recognition	Vortex Energy Generator																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
2	23rd International IFIP Conference on Optical Network Design and Modeling	Innovation	Conference	National and Kapodistrian University of Athens, National Technical University of Athens, Athens, Greece	Educational Institute	13-05-2019 00:00:00	16-05-2019 00:00:00	4	1	0	1	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>231000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	231000	No				
Total Total Expense Amount Incurred by Institute? (In Rupees)	231000																						
3	IEEE Global Communications Conference-2019	Innovation	Conference	IEEE Communications Society	International Agencies	09-12-2019 00:00:00	13-12-2019 00:00:00	5	0	1	1	No	---	---	No	No							
4	IEEE International Conference on Communications 2019	Innovation	Conference	IEEE Communications Society	International Agencies	20-05-2019 00:00:00	24-05-2019 00:00:00	5	2	1	3	No	---	---	No	No							
5	Storage, battery management and charging stations	Innovation	Training	Cochin University of Science and Technology	Educational Institute	01-03-2020 00:00:00	10-03-2020 00:00:00	10	0	1	1	No	---	---	No	No							

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

6	21st International Conference on Environmental Management and Engineering (ICEME 2019)	Innovation	Conference	ICEME	International Agencies	29-07-2019 00:00:00	30-07-2019 00:00:00	2	1	0	1	Yes	Best Paper	Scope, Relevance and Sustainability of Decentralized Renewable Energy Systems in Developing Economies Imperatives from Indian Case Studies	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>Best Paper</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Scope, Relevance and Sustainability of Decentralized Renewable Energy Systems in Developing Economies Imperatives from Indian Case Studies</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	Best Paper	Title of Innovation / Start-up Secured the Award / Recognition	Scope, Relevance and Sustainability of Decentralized Renewable Energy Systems in Developing Economies Imperatives from Indian Case Studies	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Award / Position / Recognition Secured	Best Paper																					
Title of Innovation / Start-up Secured the Award / Recognition	Scope, Relevance and Sustainability of Decentralized Renewable Energy Systems in Developing Economies Imperatives from Indian Case Studies																					
Award/Recognition/Achievement Received for	Novel Research Paper/Work																					
7	RuTAG Management Development Conference	Entrepreneurship/Startup	Conference	Indian Institute of Technology, Delhi, IIT Delhi RuTAG	Educational Institute	02-10-2019 00:00:00	04-10-2019 00:00:00	3	1	1	2	No	---	---	No	No						
8	13th Annual ISDSI Conference 2019	Innovation	Conference	IIM Sambalpur	Educational Institute	27-12-2019 00:00:00	30-12-2019 00:00:00	4	3	1	4	Yes	Best Paper	Conference Paper	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>Best Paper</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Conference Paper</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	Best Paper	Title of Innovation / Start-up Secured the Award / Recognition	Conference Paper	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Award / Position / Recognition Secured	Best Paper																					
Title of Innovation / Start-up Secured the Award / Recognition	Conference Paper																					
Award/Recognition/Achievement Received for	Novel Research Paper/Work																					
9	SPARC Sponsored PhD workshop	Entrepreneurship/Startup	Workshop	IIM Udaipur	Educational Institute	06-01-2020 00:00:00	11-01-2020 00:00:00	6	2	0	2	No	---	---	No	No						
10	MULTI-SCALE ANALYSIS AND THEORY OF HOMOGENIZATION	Innovation	Seminar	ICTS Bangalore	Educational Institute	26-08-2019 00:00:00	06-09-2019 00:00:00	12	0	1	1	No	---	---	No	No						

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	Commutative Algebra Conference	Innovation	Conference	Ramakrishna Mission Vivekananda Educational and Research Institute	Educational Institute	01-11-2019 00:00:00	02-11-2019 00:00:00	2	0	1	1	No	---	---	No	No
12	64th Congress of the Indian Society of Theoretical and Applied Mechanics	Innovation	Conference	IIT Bhubaneswar	Educational Institute	09-12-2019 00:00:00	12-12-2019 00:00:00	4	0	1	1	No	---	---	No	No
13	National Conference on Commutative Algebra and Algebraic Geometry(CAAG) 2019	Innovation	Conference	National Board for Higher Mathematics (NBHM).	Govt. Agency (Central)	02-07-2019 00:00:00	06-07-2019 00:00:00	5	0	1	1	No	---	---	No	No
14	27th Mediterranean Conference on Control and Automation	Innovation	Conference	IEEE Control System Society	International Agencies	01-07-2019 00:00:00	04-07-2019 00:00:00	4	1	1	2	No	---	---	No	No
15	EuroMOF Young Investigator Symposium 2019	Innovation	Conference	Ecole Normale Supérieure	Educational Institute	26-10-2019 00:00:00	26-10-2019 00:00:00	1	0	1	1	No	---	---	No	No
16	14th International Conference on Quasicrystals (ICQ14), 2019	Innovation	Conference	European Integrated Centre for the Development of New Metallic Alloys and Compounds,	International Agencies	26-05-2019 00:00:00	31-05-2019 00:00:00	6	0	1	1	No	---	---	No	No
17	Workshop on Quantum Chemistry	Innovation	Workshop	IIT Bombay	Educational Institute	05-06-2019 00:00:00	09-06-2019 00:00:00	5	0	1	1	No	---	---	No	No

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

18	Advanced Materials World Congress, AMWC 2020	Innovation	Conference	International Association of Advanced Materials (IAAM)	International Agencies	02-02-2020 00:00:00	05-02-2020 00:00:00	4	0	1	1	No	---	---	No	No
19	Lecture Series on Theory of Chemical Reactivity	Innovation	Seminar	IIT Bombay	Educational Institute	09-12-2019 00:00:00	13-12-2019 00:00:00	5	0	1	1	No	---	---	No	No
20	DAE Computational Chemistry Symposium (DAE-CCS)	Innovation	Conference	Bhabha Atomic Research Centre (BARC)	Govt. Agency (Central)	07-11-2019 00:00:00	09-11-2019 00:00:00	3	0	1	1	No	---	---	No	No
21	International Symposium on Recent Advances in Chemistry and Material Sciences (2019) and the Celebration of the International Year of the Periodic Table	Innovation	Seminar	Saha Institute of Nuclear Physics, Kolkata	Educational Institute	02-08-2019 00:00:00	03-08-2019 00:00:00	2	1	1	2	No	---	---	No	No
22	Frontier Symposium in Chemistry 2020	Innovation	Conference	IISER Thiruvananthapuram	Educational Institute	17-01-2020 00:00:00	18-01-2020 00:00:00	2	0	1	1	No	---	---	No	No
23	Recent Advances in Chemistry 2019	Innovation	Seminar	NIT Meghalaya	Educational Institute	14-10-2019 00:00:00	15-10-2019 00:00:00	2	0	1	1	No	---	---	No	No
24	22nd Deformation Mechanisms, Rheology and Tectonics (DRT) International Conference	Innovation	Conference	University of Tubingen	Educational Institute	11-06-2019 00:00:00	14-06-2019 00:00:00	4	0	1	1	No	---	---	No	No

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

25	Goldschmidt Conference 2019	Innovation	Conference	Geochemical Society and the European Association of Geochemistry	International Agencies	18-08-2019 00:00:00	23-08-2019 00:00:00	6	0	1	1	No	---	---	No	No
26	Engineering structural phases in 2D layered materials by Vidya Kochat	Innovation	Seminar	IISER Trivandrum, India	Educational Institute	22-07-2019 00:00:00	23-07-2019 00:00:00	2	0	1	1	No	---	---	No	No
27	Growth of Low dimensional structures by Pallab Banerji (QIP Twining Program)	Innovation	Seminar	NIT Srinagar	Educational Institute	06-04-2019 00:00:00	08-04-2019 00:00:00	3	0	1	1	No	---	---	No	No
28	International Workshop on Physics of Semiconductor Devices 2019	Innovation	Workshop	S. N. Bose National Centre for Basic Sciences, Kolkata and Indian Institute of Technology, Kharagpur	Educational Institute	17-12-2019 00:00:00	19-12-2019 00:00:00	3	0	1	1	No	---	---	No	No
29	International Conference on Nano Science and Technology	Innovation	Seminar	Department of Science and Technology, Government of India	Govt. Agency (Central)	05-03-2020 00:00:00	07-03-2020 00:00:00	3	1	1	2	No	---	---	No	No
30	Workshop on Integrated Soil Water Modeling (ISWM-2019)	Innovation	Workshop	National Institute of Technology, NIT, Silchar	Educational Institute	08-04-2019 00:00:00	12-04-2019 00:00:00	5	1	1	2	No	---	---	No	No
31	Tech4Seva National Workshop	Innovation	Workshop	IIT Delhi	Educational Institute	12-08-2019 00:00:00	12-08-2019 00:00:00	1	0	1	1	No	---	---	No	No

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

32	IUKWC Workshop Safe and Sustainable Technologies and Strategies for Integrated Freshwater Resource Management	Innovation	Workshop	JSSAHER, Mysuru	Educational Institute	25-06-2019 00:00:00	28-06-2019 00:00:00	4	0	1	1	No	---	---	No	No
33	UNITE Workshop Heriot-Watt University	Innovation	Workshop	Heriot-Watt University	Educational Institute	11-07-2019 00:00:00	11-07-2019 00:00:00	1	0	1	1	No	---	---	No	No
34	27th European Signal Processing Conference, Coruna, Spain	Innovation	Conference	European Signal Processing Society	International Agencies	02-09-2019 00:00:00	06-09-2019 00:00:00	5	0	1	1	No	---	---	No	No
35	XXth International Workshop on the Physics of Semiconductor Devices	Innovation	Workshop	S. N. Bose National Centre for Basic Sciences, Kolkata and Indian Institute of Technology, Kharagpur, Society for Semiconductor Devices	Educational Institute	17-12-2019 00:00:00	17-12-2019 00:00:00	1	0	1	1	No	---	---	No	No
36	SPIE Optical Metrology International Symposium	Innovation	Conference	SPIE	International Agencies	24-06-2019 00:00:00	27-06-2019 00:00:00	4	0	1	1	No	---	---	No	No

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

37	IEEE International Geoscience and Remotensing Symposium	Innovation	Conference	IEEE	International Agencies	28-07-2019 00:00:00	02-08-2019 00:00:00	6	0	1	1	No	---	---	No	No
38	IEEE Asian Hardware Oriented Security and Trust Symposium (AsianHOST)	Innovation	Conference	IEEE	International Agencies	16-12-2019 00:00:00	17-12-2019 00:00:00	2	0	1	1	No	---	---	No	No
39	2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting	Innovation	Conference	IEEE Antennas and Propagation Society	International Agencies	07-07-2019 00:00:00	12-07-2019 00:00:00	6	0	1	1	No	---	---	No	No
40	Pacific-Rim Symposium on Image and Video Technology (PSIVT)	Innovation	Conference	Springer	International Agencies	18-11-2019 00:00:00	22-11-2019 00:00:00	5	0	1	1	No	---	---	No	No
41	2019 IEEE 62nd International Midwest Symposium on Circuits and Systems (MWSCAS)	Innovation	Conference	IEEE	International Agencies	07-08-2019 00:00:00	10-08-2019 00:00:00	4	0	1	1	No	---	---	No	No
42	MEMS based Sensors and Smart Nanostructured Devices 2019	Innovation	Conference	Jadavpur University	Educational Institute	27-12-2019 00:00:00	28-12-2019 00:00:00	2	0	1	1	No	---	---	No	No

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

43	IEEE Region 10 Symposium (TENSYM)	Innovation	Conference	IEEE	International Agencies	07-06-2019 00:00:00	09-06-2019 00:00:00	3	0	1	1	No	---	---	No	No
44	IEEE International Symposium on Information Theory (ISIT)	Innovation	Conference	IEEE	International Agencies	07-07-2019 00:00:00	12-07-2019 00:00:00	6	0	1	1	No	---	---	No	No
45	IEEE ANTS	Innovation	Conference	IEEE ComSoc	International Agencies	16-12-2019 00:00:00	19-12-2019 00:00:00	4	0	1	1	No	---	---	No	No
46	IEEE International Symposium on Circuits and Systems	Innovation	Conference	IEEE Circuits and Systems Society	International Agencies	26-05-2019 00:00:00	29-05-2019 00:00:00	4	0	1	1	No	---	---	No	No
47	IEEE Sensors Conference 2019	Innovation	Conference	IEEE	International Agencies	27-10-2019 00:00:00	30-10-2019 00:00:00	4	0	1	1	No	---	---	No	No
48	2019, 22nd International Symposium on Wireless Personal Multimedia Communications (WPMC)	Innovation	Conference	IEEE ComSoc	International Agencies	24-11-2019 00:00:00	27-11-2019 00:00:00	4	0	1	1	No	---	---	No	No
49	2019 IEEE Region 10 Conference TENCON	Innovation	Conference	IEEE Region 10	International Agencies	17-10-2019 00:00:00	20-10-2019 00:00:00	4	0	1	1	No	---	---	No	No
50	International Conference on Image Processing	Innovation	Conference	IEEE	International Agencies	22-09-2019 00:00:00	25-09-2019 00:00:00	4	0	1	1	No	---	---	No	No

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

51	IEEE International Conference on Acoustics, Speech and Signal Processing	Innovation	Conference	IEEE SPS	International Agencies	12-05-2019 00:00:00	17-05-2019 00:00:00	6	0	1	1	No	---	---	No	No
52	3rd International Conference on Computer Vision and Image Processing	Innovation	Conference	IAPR	International Agencies	27-09-2019 00:00:00	29-09-2019 00:00:00	3	0	1	1	No	---	---	No	No
53	2019, IEEE International Symposium on Geoscience and Remote Sensing (IGARSS)	Innovation	Conference	IEEE	International Agencies	22-07-2019 00:00:00	02-08-2019 00:00:00	12	0	1	1	No	---	---	No	No
54	18th International Conference on Information Technology (ICIT)	Innovation	Conference	Orissa Information Technology Society and IIT Bhubaneswar	Educational Institute	19-12-2019 00:00:00	21-12-2019 00:00:00	3	0	1	1	No	---	---	No	No
55	Seventh IEEE International Conference on Space Mission Challenges for Information Technology (SMC-IT 2019)	Innovation	Conference	California Institute of Technology (Caltech)	Educational Institute	30-07-2019 00:00:00	01-08-2019 00:00:00	3	0	1	1	No	---	---	No	No

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

56	IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks, DySPAN	Innovation	Conference	IEEE	International Agencies	11-11-2019 00:00:00	14-11-2019 00:00:00	4	0	1	1	No	---	---	No	No
57	Frontiers in Optics and Laser Science	Innovation	Conference	Optical Society of America	International Agencies	15-09-2019 00:00:00	19-09-2019 00:00:00	5	0	1	1	No	---	---	No	No
58	International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANA M)	Innovation	Conference	IIT Madras, Chennai	Educational Institute	08-07-2019 00:00:00	10-07-2019 00:00:00	3	0	1	1	No	---	---	No	No
59	26th International Conference and Expo on Corrosion organized by NACE International	Innovation	Conference	IIT Mumbai	Educational Institute	23-09-2019 00:00:00	26-09-2019 00:00:00	4	0	1	1	No	---	---	No	No
60	International Conference on Frontiers in Materials Processing Applications, Research and Technology	Innovation	Conference	Ahmedabad	Educational Institute	15-12-2019 00:00:00	18-12-2019 00:00:00	4	0	1	1	No	---	---	No	No
61	EMRS-Spring Meeting	Innovation	Conference	Nice	Educational Institute	26-05-2019 00:00:00	28-05-2019 00:00:00	3	0	1	1	No	---	---	No	No
62	BioTERM 2019	Innovation	Conference	IIT Kanpur	Educational Institute	28-11-2019 00:00:00	01-12-2019 00:00:00	4	0	1	1	No	---	---	No	No

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	7 th International Congress on Computational Mechanics and Simulation	Innovation	Conference	IIT Mandi	Educational Institute	11-12-2019 00:00:00	13-12-2019 00:00:00	3	4	3	7	No	---	---	No	No
64	MRS 2nd Materials Conclave	Innovation	Conference	CGCRI Kolkata	Educational Institute	11-02-2020 00:00:00	14-02-2020 00:00:00	4	0	1	1	No	---	---	No	No
65	Workshop on Advances in powder metallurgy and 3D printing	Innovation	Workshop	IIT Kharagpur	Educational Institute	10-11-2019 00:00:00	16-11-2019 00:00:00	7	0	1	1	No	---	---	No	No
66	SHORT TERM COURSE ON POWDER METALLURGY FUNDAMENTALS, APPLICATIONS AND ADVANCEMENT	Innovation	Training	NIT Rourkela	Educational Institute	01-07-2019 00:00:00	05-07-2019 00:00:00	5	0	1	1	No	---	---	No	No
67	2nd International Conference on Processing and Characterization of Materials (ICPCM-2019)	Innovation	Conference	NIT Rourkela	Educational Institute	12-12-2019 00:00:00	14-12-2019 00:00:00	3	0	1	1	No	---	---	No	No
68	10th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-10)	Innovation	Conference	Xi an	Educational Institute	18-08-2019 00:00:00	22-08-2019 00:00:00	5	0	1	1	No	---	---	No	No

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	38th International Conference on Ocean, Offshore and Arctic Engineering	Innovation	Conference	ASME	International Agencies	09-06-2019 00:00:00	14-06-2019 00:00:00	6	4	1	5	No	---	---	No	No						
70	Annual Autumn Meeting of The Japan Society of Naval Architects and Ocean Engineers (JASNAOE)	Innovation	Conference	The Japan Society of Naval Architects and Ocean Engineers	International Agencies	21-11-2019 00:00:00	22-11-2019 00:00:00	2	0	1	1	No	---	---	No	No						
71	AI Image Classification Challenge	Innovation	Hackathon	Kshitij, IIT Kharagpur	Educational Institute	25-01-2020 00:00:00	25-01-2020 00:00:00	1	2	0	2	Yes	Second	AI Image classification	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>AI Image classification</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	AI Image classification	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Second																					
Title of Innovation / Start-up Secured the Award / Recognition	AI Image classification																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
72	National Seminar on Climate Change and Coastal Ocean Processes (CCCOP-2019)	Innovation	Conference	Ocean Society of India	Govt. Agency (Central)	04-07-2019 00:00:00	05-07-2019 00:00:00	2	5	1	6	No	---	---	No	No						

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

73	Green Hack	Innovation	Innovation Contest	IBM, India	Corporate / Industry Association	01-02-2020 00:00:00	01-02-2020 00:00:00	1	5	0	5	Yes	First	Interactive application to create climate change awareness	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>First</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Interactive application to create climate change awareness</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Interactive application to create climate change awareness	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	First																					
Title of Innovation / Start-up Secured the Award / Recognition	Interactive application to create climate change awareness																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
74	Student Academic Conference	Innovation	Conference	IIT Roorkee	Educational Institute	19-12-2019 00:00:00	19-12-2019 00:00:00	1	1	0	1	Yes	Certificate for presentation	Application of machine learning to 2D Dzialoshinski-Moriya ferromagnets	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>Certificate for presentation</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Application of machine learning to 2D Dzialoshinski-Moriya ferromagnets</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	Certificate for presentation	Title of Innovation / Start-up Secured the Award / Recognition	Application of machine learning to 2D Dzialoshinski-Moriya ferromagnets	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Certificate for presentation																					
Title of Innovation / Start-up Secured the Award / Recognition	Application of machine learning to 2D Dzialoshinski-Moriya ferromagnets																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
75	Idea and plan submission- Waste to Wealth category	Innovation	Ideation	National Academy of Engineering, Delhi	Educational Institute	09-08-2019 00:00:00	10-08-2019 00:00:00	2	3	0	3	Yes	First	Food waste to Biogas for colleges	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>First</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Food waste to Biogas for colleges</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </tbody> </table>	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Food waste to Biogas for colleges	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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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

76	Decohere nce	Innovatio n	Hackatho n	IISc Bangalor e	Educatio nal Institute	31-01-20 20 00:00:00	02-02-20 20 00:00:00	3	2	0	2	Yes	First	Anomalie s in electric discharge with metallic obstructio ns	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>First</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Anomalies in electric discharge with metallic obstruction s</td> </tr> <tr> <td>Award/Recog nition/Achieve ment Received for</td> <td>Idea/Innova tion/Prototy pe</td> </tr> </tbody> </table>		Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Anomalies in electric discharge with metallic obstruction s	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe
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Title of Innovation / Start-up Secured the Award / Recognition	Anomalies in electric discharge with metallic obstruction s																						
Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe																						
77	ISB- Booth Marketin g Conferen ce	Entrepren eurship/ Startup	Conferen ce	ISB Hyderaba d	Educatio nal Institute	18-12-20 19 00:00:00	18-12-20 19 00:00:00	1	0	1	1	No	---	---	No	No							
78	Nexus	Innovatio n	Hackatho n	Kshitij, IIT Kharagpu r	Educatio nal Institute	18-01-20 20 00:00:00	18-01-20 20 00:00:00	1	4	0	4	Yes	First	Comput er vision for shape and barcode reader	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>First</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Computer vision for shape and barcode reader</td> </tr> <tr> <td>Award/Recog nition/Achieve ment Received for</td> <td>Idea/Innova tion/Prototy pe</td> </tr> </tbody> </table>		Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Computer vision for shape and barcode reader	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe
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Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe																						
79	DAE Symposi um	Innovatio n	Conferen ce	Bhabha Atomic Research Centre	Govt. Agency (Central)	27-12-20 19 00:00:00	27-12-20 19 00:00:00	1	2	0	2	Yes	Certificat e for presentat ion	GEM Detector Simulatio n	No	<table border="1"> <tbody> <tr> <td>Award / Position / Recognition Secured</td> <td>Certificate for presentatio n</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>GEM Detector Simulation</td> </tr> <tr> <td>Award/Recog nition/Achieve ment Received for</td> <td>Idea/Innova tion/Prototy pe</td> </tr> </tbody> </table>		Award / Position / Recognition Secured	Certificate for presentatio n	Title of Innovation / Start-up Secured the Award / Recognition	GEM Detector Simulation	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe
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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

80	Annual conference of the RD51 Collaboration	Innovation	Conference	CERN	Educational Institute	10-02-2020 00:00:00	13-02-2020 00:00:00	4	2	0	2	Yes	Citation in a book	Simulation of Triple GEM, with animations	No		Award / Position / Recognition Secured	Citation in a book
																	Title of Innovation / Start-up Secured the Award / Recognition	Simulation of Triple GEM, with animations
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
81	B-Plan Competition	Innovation	B-Plan Competitions	Kshitij, IIT Kharagpur	Educational Institute	25-01-2020 00:00:00	25-01-2020 00:00:00	1	4	0	4	Yes	Second	Social Entrepreneurship ideation aimed at recycling organic waste into products using chemical synthesis	No		Award / Position / Recognition Secured	Second
																	Title of Innovation / Start-up Secured the Award / Recognition	Social Entrepreneurship ideation aimed at recycling organic waste into products using chemical synthesis
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
82	25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference	Innovation	Conference	IIT Roorkee	Educational Institute	28-12-2019 00:00:00	31-12-2019 00:00:00	4	158	30	188	No	---	---	No		No	
83	Aviation Safety Design and Operational Issues	Innovation	Workshop	CMS Business School No.17, Bengaluru, Karnataka - 560009	Educational Institute	26-06-2019 00:00:00	28-06-2019 00:00:00	3	281	38	319	No	---	---	No		No	

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

84	All India Seminar on Bluff Body Aerodynamics	Innovation	Seminar	Mechanical Engineering Department, Jadavpur University, Kolkata. 700032	Educational Institute	06-09-2019 00:00:00	07-09-2019 00:00:00	2	96	15	111	No	---	---	No	No
85	Sixth Biennial Conference of Ocean Society of India - OSICON 2019 Indian Ocean Processes and Resources - a Key to Blue Economy	Innovation	Conference	Ocean Society of India	Govt. Agency (Central)	12-12-2019 00:00:00	14-12-2019 00:00:00	3	5	1	6	No	---	---	No	No
86	4th Indo-German workshop on Advances in Materials, Reactions and Separation Processes	Innovation	Workshop	Indian Institute of Technology Chennai, India and the Max Planck Institute for Dynamics of Complex Technical Systems, Magdeburg, Germany	Educational Institute	24-02-2020 00:00:00	26-02-2020 00:00:00	3	0	1	1	No	---	---	No	No
87	14th International Conference on Gas-Liquid and Gas-Liquid-Solid Reactor Engineering (GLS-14)	Innovation	Conference	Institute of Process Engineering of Chinese Academy of Sciences (CAS)	Educational Institute	30-05-2019 00:00:00	03-06-2019 00:00:00	5	0	1	1	No	---	---	No	No
88	Asian Pacific Confederation of Chemical Engineering Congress	Innovation	Conference	The Society of Chemical Engineers, Japan (SCEJ)	Educational Institute	23-09-2019 00:00:00	27-09-2019 00:00:00	5	0	1	1	No	---	---	No	No

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

89	9th International Colloids Conference, Sitges, Barcelona, Spain	Innovation	Conference	Elsevier	International Agencies	16-06-2019 00:00:00	19-06-2019 00:00:00	4	0	1	1	No	---	---	No	No
90	IEEE IECON-2019	Innovation	Conference	IEEE Industrial electronics society	International Agencies	12-06-2019 00:00:00	14-06-2019 00:00:00	3	800	0	800	No	---	---	No	No
91	IEEE IECON-2020	Innovation	Conference	IEEE Industrial electronics society	International Agencies	10-10-2019 00:00:00	17-10-2019 00:00:00	8	1200	0	1200	No	---	---	No	No
92	National Power Electronics Conference (NPEC 2019)	Innovation	Conference	Power electronics forum India	Govt. Agency (State)	13-12-2019 00:00:00	15-12-2019 00:00:00	3	0	1	1	No	---	---	No	No
93	Workshop on Fractional Order Systems	Innovation	Workshop	DST, CSIR, DAE, Private Sponsorship	Govt. Agency (Central)	15-02-2020 00:00:00	19-02-2020 00:00:00	5	40	0	40	No	---	---	No	No
94	Asia Regional Launch of the Global Digital Library	Innovation	Workshop	MHRD	Govt. Agency (Central)	11-11-2019 00:00:00	12-11-2019 00:00:00	2	0	1	1	No	---	---	No	No
95	Securing Water for Agricultural and Food Sustainability-Developing Transdisciplinary Approach to Groundwater Management	Innovation	Seminar	GBPAUT, Panthnagar, India	Educational Institute	20-01-2020 00:00:00	20-01-2020 00:00:00	1	49	0	49	No	---	---	No	No
96	International symposium on Functional Foods-Challenges and Opportunities	Innovation	Seminar	University of Melbourne Australia	Educational Institute	12-12-2019 00:00:00	12-12-2019 00:00:00	1	50	0	50	No	---	---	No	No

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

97	Digital Platform for Financial Inclusion and Rural Women Empowerment	Innovation	Seminar	IIT Kharagpur	Educational Institute	13-08-2019 00:00:00	15-08-2019 00:00:00	3	0	1	1	No	---	---	No	No
98	India International Science Festival 2019	Innovation	Seminar	Union minister for science and technology	Govt. Agency (Central)	05-11-2019 00:00:00	08-11-2019 00:00:00	4	0	1	1	No	---	---	No	No
99	Tech4Seva	Innovation	Seminar	IIT Delhi	Educational Institute	10-08-2019 00:00:00	12-08-2019 00:00:00	3	0	1	1	No	---	---	No	No
100	International Seminar on - Issues of Development With Special Reference to Gender, Caste and Religion	Innovation	Seminar	Midnapore college	Educational Institute	17-12-2019 00:00:00	18-12-2019 00:00:00	2	0	1	1	No	---	---	No	No
101	4th International Conference on Public Policy	Innovation	Seminar	Concordia University, Montreal, Canada	Educational Institute	26-06-2019 00:00:00	28-06-2019 00:00:00	3	0	1	1	No	---	---	No	No
102	National Conference on Advances in Food Processing for Sustainable Food Security	Innovation	Seminar	NIT Rourkela, India	Educational Institute	17-05-2019 00:00:00	18-05-2019 00:00:00	2	0	1	1	No	---	---	No	No

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

103	Melbourne-India Postgraduate Programme and Postgraduate Academy Academic Workshop and Student Conference (MIPPAC 2019)	Innovation	Seminar	University of Melbourne Australia	Educational Institute	09-12-2019 00:00:00	13-12-2019 00:00:00	5	0	1	1	No	---	---	No	No
104	ICER Conference	Innovation	Conference	Sri Sankara University kaladi, Kerala	Educational Institute	19-12-2019 00:00:00	21-12-2019 00:00:00	3	0	1	1	No	---	---	No	No
105	International Cyber Security Conference	Innovation	Conference	HBKU, Qatar	Educational Institute	01-10-2019 00:00:00	03-10-2019 00:00:00	3	0	1	1	No	---	---	No	No
106	International symposium on International Humanitarian Law, Law on Torture and Space Law	Innovation	Conference	Indian Society of International Law New Delhi	Educational Institute	13-04-2019 00:00:00	14-04-2019 00:00:00	2	0	1	1	No	---	---	No	No
107	International conference on Realizing Asian Century	Innovation	Conference	Kathmandu Law School	Educational Institute	09-07-2019 00:00:00	10-07-2019 00:00:00	2	0	1	1	No	---	---	No	No
108	7th Biennial Conference organized by the Asian Society of International Law	Innovation	Conference	Manila University	Educational Institute	22-08-2019 00:00:00	23-08-2019 00:00:00	2	0	1	1	No	---	---	No	No

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

109	AI Image Classification Challenge	Innovation	Hackathon	Kshitij, IIT Kharagpur	Govt. Agency (State)	25-01-2020 00:00:00	25-01-2020 00:00:00	1	2	0	2	Yes	Second	AI Image classification	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>AI Image classification</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	AI Image classification	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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110	Green Hack	Innovation	Innovation Contest	IBM, india	Corporate / Industry Association	01-02-2020 00:00:00	01-02-2020 00:00:00	1	5	0	5	Yes	First	Interactive application to create climate change awareness	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>First</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Interactive application to create climate change awareness</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Interactive application to create climate change awareness	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Award / Position / Recognition Secured	First																					
Title of Innovation / Start-up Secured the Award / Recognition	Interactive application to create climate change awareness																					
Award/Recognition/Achievement Received for	Novel Research Paper/Work																					
111	Student Academic Conference	Innovation	Conference	IIT Roorkee	Educational Institute	19-12-2019 00:00:00	19-12-2019 00:00:00	1	1	0	1	Yes	Participation Certificate	Application of machine learning to 2D Dzyaloshinskii-Moriya ferromagnets	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Participation Certificate</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Application of machine learning to 2D Dzyaloshinskii-Moriya ferromagnets</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Participation Certificate	Title of Innovation / Start-up Secured the Award / Recognition	Application of machine learning to 2D Dzyaloshinskii-Moriya ferromagnets	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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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

112	Idea and plan submission- Waste to Wealth category	Innovation	Conference	National Academy of Engineering, Delhi	Educational Institute	09-08-2019 00:00:00	09-08-2019 00:00:00	1	3	0	3	Yes	First	Food waste to Biogas for colleges	No	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Food waste to Biogas for colleges	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
113	Decoherence	Innovation	Hackathon	IISc Bangalore	Educational Institute	31-01-2020 00:00:00	02-02-2020 00:00:00	3	2	0	2	Yes	First	Anomalies in electric discharge with metallic obstructions	No	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Anomalies in electric discharge with metallic obstructions	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
114	Nexus	Innovation	Hackathon	Kshitij, IIT Kharagpur	Non-Govt. Agencies	18-01-2020 00:00:00	18-01-2020 00:00:00	1	4	0	4	Yes	First	Computer vision for shape and barcode reader	No	Award / Position / Recognition Secured	First	Title of Innovation / Start-up Secured the Award / Recognition	Computer vision for shape and barcode reader	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

115	DAE Symposium	Innovation	Conference	Bhabha Atomic Research Centre	Educational Institute	27-12-2019 00:00:00	27-12-2019 00:00:00	1	2	0	2	Yes	GEM Detector Simulation	Participation Certificate	No	Award / Position / Recognition Secured	GEM Detector Simulation	Title of Innovation / Start-up Secured the Award / Recognition	Participation Certificate	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
116	Annual conference of the RD51 Collaboration	Innovation	Conference	CERN	Educational Institute	10-02-2020 00:00:00	13-02-2020 00:00:00	4	2	0	2	Yes	Book citation	Simulation of Triple GEM, with animations	No	Award / Position / Recognition Secured	Book citation	Title of Innovation / Start-up Secured the Award / Recognition	Simulation of Triple GEM, with animations	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
117	B-Plan Competition	Innovation	B-Plan Competitions	Kshitij, IIT Kharagpur	Non-Govt. Agencies	25-01-2020 00:00:00	25-01-2020 00:00:00	1	4	0	4	Yes	Second	Social Entrepreneurship ideation aimed at recycling organic waste into products using chemical synthesis	No	Award / Position / Recognition Secured	Second	Title of Innovation / Start-up Secured the Award / Recognition	Social Entrepreneurship ideation aimed at recycling organic waste into products using chemical synthesis	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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)
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1	Distribution System Pumped Hydro and Solar PV system Technology	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	23-11-2019	28-11-2019	6	Offline	25	40
2	Power System Technology	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	18-02-2020	23-02-2020	6	Offline	25	40
3	Power System Technology for CESC Engineers	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	18-02-2020	23-02-2020	6	Offline	18	40
4	Distribution system pumped hydro and solar PV system technology for WBSIEDCL Engineers	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	22-11-2019	27-11-2019	6	Offline	20	40
5	Power Management Circuits Modelling Control Analysis and Design	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	02-03-2020	06-03-2020	5	Offline	25	40
6	Farm Machinery	Innovation	Elective/Core Credit Course	Credit Course (Elective)	IIT Kharagpur	28-07-2019	28-10-2019	93	Online	1243	60
7	Fundamentals Of Food Process Engineering	Innovation	Elective/Core Credit Course	Credit Course (Elective)	IIT Kharagpur	28-07-2019	28-10-2019	93	Online	1340	60
8	Irrigation And Drainage	Innovation	Elective/Core Credit Course	Credit Course (Elective)	IIT Kharagpur	28-07-2019	28-10-2019	93	Online	872	60
9	Dairy And Food Process And Products Technology	Innovation	Elective/Core Credit Course	Credit Course (Elective)	IIT Kharagpur	28-07-2019	28-10-2019	93	Online	3101	60
10	Introduction to Intellectual Property Law	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	27	36
11	Patent Drafting and Specification Writing	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	33	42
12	Law of Patent- 1	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	40	42
13	Trademark and Design	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	40	42
14	Comparative Patent Law	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	40	36
15	International Trade Law	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Rajiv Gandhi School of Intellectual Property Law	03-01-2019	03-05-2019	121	Offline	40	36
16	Introduction to Nanoscience and Technology (NT70002)	Innovation	Elective/Core Credit Course	Master	School of Nanoscience and Technology	05-01-2019	30-04-2019	116	Offline	110	40
17	Financial And Legal aspects of Business	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	60	48

18	Financing New Venture	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	06-01-2020	31-03-2020	86	Offline	67	30
19	Small Business Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	56	48
20	Economics of Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	06-01-2020	31-03-2020	86	Offline	91	30
21	Techno-Entrepreneurial Leadership	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	80	43
22	Management of Growth Venture	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Rajendra Mishra School of Engineering Entrepreneurship	06-01-2020	31-03-2020	86	Offline	81	30
23	MARKETING AND MARKET RESEARCH	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	78	40
24	MANUFACTURING MANAGEMENT	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	06-01-2020	01-05-2020	117	Offline	42	36
25	DESIGN-DRIVEN INNOVATION	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	56	44
26	FOUNDATIONS OF ENTREPRENEURS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	06-01-2020	31-03-2020	86	Offline	312	48
27	TECHNOLOGY ENTREPRENEURSHIP	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	120	44
28	ENGINEERING B-PLAN DEVELOPMENT - 1	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Offline	45	36

29	Innovation management	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	01-02-2020	31-03-2020	60	Offline	54	44
30	Engineering Design Process	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	01-02-2020	31-03-2020	60	Offline	52	40
31	Product Development	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Online	95	40
32	Entrepreneurship in Social Sector	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	17-07-2019	15-11-2019	122	Online	78	44
33	Frugal Engineering	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Rajendra Mishra School of Engineering Entrepreneurship	01-02-2020	31-03-2020	60	Online	67	44
34	Multiscale modelling approach in micronano-fluidics	Innovation	Short term Course	Short Term Certificate Course	School of Energy Science and Engineering	08-12-2019	11-12-2019	4	Offline	70	30
35	Mathematical Tools for Boundary Value Problems and Applications	Innovation	Short term Course	Short Term Certificate Course	Mathematics	09-03-2020	13-03-2020	5	Offline	90	40
36	Fourier Series Transform Technique and their Applications	Innovation	Short term Course	Short Term Certificate Course	Mathematics	25-02-2019	01-03-2019	5	Offline	50	40
37	Advanced Topics in Cryptography	Innovation	Short term Course	Short Term Certificate Course	Mathematics	09-02-2020	13-02-2020	5	Offline	15	40
38	Cyber Security for Nigerian citizens serving Nigerian police	Innovation	Short term Course	Short Term Certificate Course	Mathematics	27-01-2020	07-02-2020	12	Offline	15	70
39	Cryptography and Cryptanalysis for Egyptian military officers	Innovation	Short term Course	Short Term Certificate Course	Mathematics	25-03-2019	04-04-2019	11	Offline	15	70
40	MATHEMATICS OF DEEP LEARNING	Innovation	Short term Course	Short Term Certificate Course	Mathematics	19-02-2020	23-02-2020	5	Offline	20	40
41	Waste to Wealth - the Paradigm Practice and Potential	Innovation	Short term Course	Short Term Certificate Course	School of Environmental Science and Engineering	25-11-2019	29-11-2019	5	Offline	45	30
42	Urban Landuse and Transportation Planning (NPTEL)	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Architecture and Regional Planning	14-09-2020	04-12-2020	82	Online	3310	30

43	Calibration Techniques for Pipelined ADCs	Innovation	Short term Course	Short Term Certificate Course	Electronics and Electrical Communication Engineering	09-10-2019	14-10-2019	6	Offline	12	40
44	Design and Analysis of Antennas in Cylindrically and Spherically Layered Media	Innovation	Short term Course	Short Term Certificate Course	Electronics and Electrical Communication Engineering	16-06-2019	21-06-2019	6	Offline	21	40
45	Current Trends in Antenna Design	Innovation	Short term Course	Short Term Certificate Course	Electronics and Electrical Communication Engineering	16-11-2019	20-11-2019	5	Offline	27	40
46	ADVANCES IN AI ROBOTICS AND SENSING FOR HIGH-IMPACT OUTDOOR APPLICATIONS - Microcredit Course	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Electronics and Electrical Communication Engineering	12-01-2020	16-01-2020	5	Offline	50	40
47	CFD AND EXPERIMENTS ON FLUID-STRUCTURE INTERACTIONS FOR BOTH RIGID AND ELASTIC MATERIALS	Innovation	Short term Course	Short Term Certificate Course	Aerospace Engineering	14-10-2019	18-12-2019	66	Offline	44	30

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	TEQIP III TRAINING PROGRAM ON ADVANCED PEDAGOGY DIGITAL TOOL FOR TEQIP FACULTY	Innovation	EDP in I&E / IPR	Chemical Engineering Department Indian Institute of Technology Kharagpur	02-06-2019	06-06-2019	5	Online	68	40
2	TEQIP III TRAINING PROGRAM ON ADVANCED PEDAGOGY DIGITAL TOOL FOR TEQIP FACULTY	Innovation	EDP in I&E / IPR	Chemical Engineering Department Indian Institute of Technology Kharagpur	30-06-2019	04-07-2019	5	Offline	89	40
3	TEQIP III TRAINING PROGRAM ON ADVANCED PEDAGOGY DIGITAL TOOL FOR TEQIP FACULTY	Innovation	EDP in I&E / IPR	Chemical Engineering Department Indian Institute of Technology Kharagpur	09-06-2019	13-06-2019	5	Offline	91	40
4	Mathematics of Deep Learning	Innovation	EDP in I&E / IPR	Electrical Engineering TEQIP	19-02-2020	23-02-2020	5	Online	45	40
5	Training program to Nirman Sahayaks of West Bengal India on Rain water harvesting artificial recharge and check dam construction	Innovation	EDP in I&E / IPR	Ghani Khan Chaudhury Institute of Engineering and Technology (GKCIET)	04-02-2020	07-02-2020	4	Offline	50	30
6	Training Course at Tata Metaliks on Metallurgical fundamentals in DP pipe manufacturing	Innovation	EDP in I&E / IPR	Metallurgical and Materials Engineering	03-06-2019	15-07-2019	43	Offline	70	160

7	AICTE QIP Short term course on Fracture Fatigue and Failure of Materials	Innovation	EDP in I&E / IPR	Metallurgical and Materials Engineering	16-06-2019	22-06-2019	7	Offline	30	40
8	Advances in Powder Metallurgy and 3D Printing	Innovation	EDP in I&E / IPR	Metallurgical and Materials Engineering	10-11-2019	16-11-2019	7	Offline	19	40
9	AICTE-QIP course on Manifestations of Angular Momentum in Light and Quantum Matter (MAMLQM-2019)	Innovation	EDP in I&E / IPR	Physics Department IIT Kharagpur	09-09-2019	14-09-2019	6	Offline	51	40
10	Design and management of sustainable rural and urban water supply system Special emphases on solar energy based technologies and water conservation	Innovation	EDP in I&E / IPR	Civil Engineering Department	13-07-2019	16-07-2019	4	Offline	33	30
11	Dyuti	Innovation	EDP in I&E / IPR	Civil Engineering Department	25-10-2019	30-10-2019	6	Offline	15	40
12	Waste to Wealth the paradigm the practice and the potential	Innovation	EDP in I&E / IPR	Civil Engineering Department	25-11-2019	29-11-2019	5	Offline	38	40
13	HYDRODYNAMICS AND SEDIMENT TRANSPORT IN UNSTEADY FLOWS	Innovation	EDP in I&E / IPR	Civil Engineering Department	14-10-2019	20-10-2019	7	Offline	35	40
14	Fluvial Hydrodynamics and Thermo Fluids	Innovation	EDP in I&E / IPR	Civil Engineering Department	03-02-2019	07-02-2019	5	Offline	40	40
15	Practical hydraulics Applications in free surface and pressurized flows	Innovation	EDP in I&E / IPR	Civil Engineering Department	30-01-2019	14-02-2019	16	Offline	40	80
16	Hydrodynamics and sediment transport in unsteady flows	Innovation	EDP in I&E / IPR	Civil Engineering Department	14-10-2019	20-10-2019	7	Offline	35	40
17	Waste to Wealth the Current Scenario and Sustainable Technology	Innovation	EDP in I&E / IPR	Civil Engineering Department	20-01-2020	24-01-2020	5	Offline	20	40
18	Environmental Crisis and Sustainable Development	Innovation	EDP in I&E / IPR	Civil Engineering Department	01-07-2020	05-07-2020	5	Offline	150	40
19	Recent advances in environmental biotechnology	Innovation	EDP in I&E / IPR	Civil Engineering Department	05-10-2020	09-10-2020	5	Offline	300	40
20	Waste to Wealth - the Paradigm Practice and Potential	Innovation	EDP in I&E / IPR	Civil Engineering Department	25-11-2019	29-11-2019	5	Offline	47	40
21	Conveyor Technology for Bulk Material Transport	Innovation	EDP in I&E / IPR	Mining Engineering	14-10-2020	20-10-2020	7	Offline	30	40
22	Ground Control For Planning Production and Safety	Innovation	EDP in I&E / IPR	Mining Engineering	02-02-2020	06-02-2020	5	Offline	30	40
23	Risk Assessment Safety Management Plan and Accident Prevention in Mines	Innovation	EDP in I&E / IPR	Mining Engineering	01-07-2019	06-07-2019	6	Offline	30	40
24	ADVANCED MINE SAFETY MANAGEMENT TRAINING AND EXPOSURE TO CHINESE BEST PRACTICES	Innovation	EDP in I&E / IPR	Mining Engineering	30-10-2019	10-11-2019	12	Offline	30	60

25	ASSESSMENT OF SAFETY MATURITY LEVEL AND MANAGEMENT OF ASSETS FOR HIGHER PRODUCTIVITY AND SAFETY	Innovation	EDP in I&E / IPR	Mining Engineering	11-11-2019	16-11-2019	6	Offline	30	40
26	CONTINUOUS SURFACE MINING AND TRANSPORTATION	Innovation	EDP in I&E / IPR	Mining Engineering	27-05-2019	07-06-2019	12	Offline	30	60
27	Upscaling of Bio-electrochemical Systems for Wastewater Treatment and Bioelectricity Recovery	Innovation	EDP in I&E / IPR	Civil Engineering Department	25-02-2020	28-02-2020	4	Offline	100	30
28	MDP- UCIL	Innovation	MDP in I&E / IPR	VGSoM	09-12-2019	13-12-2019	5	Offline	4	40
29	MDP in UCIL	Innovation	MDP in I&E / IPR	VGSoM	20-01-2020	24-08-2020	218	Offline	248	40

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	Basab Chakraborty	Rajendra Mishra School of Engineering Entrepreneurship	Associate Professor	No	No
2	Bhaskar Bhowmick	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
3	Mamoni Banerjee	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
4	Manoj Kumar Mondal	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
5	Mrigank Sharad	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
6	Prabha Bhola	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
7	Pranab Kumar Dan	Center for Rural Development and Innovative Sustainable Technology	Associate Professor	No	No
8	Ram Babu Roy	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
9	Titas Bhattacharjee	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
10	Padmavati Manchikanti	Rajiv Gandhi School of Intellectual Property Law	Professor	No	No
11	Gouri Ashok Gargate	Rajiv Gandhi School of Intellectual Property Law	Assistant Professor	No	No
12	Niharika Sahoo Bhattacharya	Rajiv Gandhi School of Intellectual Property Law	Assistant Professor	No	No
13	Shreya Matilal	Rajiv Gandhi School of Intellectual Property Law	Assistant Professor	No	No
14	Raju K D	Rajiv Gandhi School of Intellectual Property Law	Professor	No	No
15	Piyush Kumar Singh	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No

16	Somnath Ghoshal	Center for Rural Development and Innovative Sustainable Technology	Assistant Professor	No	No
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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	Naval Architecture and Ocean Engineering Society	Idea Club	1980	Co-working Space	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	4	Mr. Arihant Jain	arihantjain.m@gmail.com	8989938381
2	E-Cell	Idea Club	2002	Co-working Space	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	8	Prof. P.K. Dan	pkdan@see.iitkgp.ernet.in	9932584480
3	Department Innovation Lab	Innovation Club	2018	Co-working Space	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	5	Sarbojit Mukherjee	sarbojitmukherjee92@gmail.com	9038476823
4	Innovation Club	Innovation Club	2018	Co-working Space, 3D Printing	Innovation Labs	0	Sarbojit Mukherjee	sarbojitmukherjee92@gmail.com	9038476823
5	E-Cell	Startup Club	2006	None	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	2	Naveen Dalal	naveen.dalal@ecell-iitkgp.org	8529920759

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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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	M N Faruqi Center	Tinkering Lab	2015	Co-working Space,3D Printing & Prototype Equipment, Work Stations	Innovation Labs,Innovation Park/Research Park,Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre,Student Clubs	Innovation Labs,Innovation Park/Research Park,Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre,Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Aditya Bando padhaya</td> </tr> <tr> <td>Facility Incharge Email</td> <td>aditya@mec h.iitkgp .ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>993299 0007</td> </tr> </table>	Facility Incharge Name	Aditya Bando padhaya	Facility Incharge Email	aditya@mec h.iitkgp .ac.in	Facility Incharge Phone	993299 0007	1	No	No	No
Facility Incharge Name	Aditya Bando padhaya																
Facility Incharge Email	aditya@mec h.iitkgp .ac.in																
Facility Incharge Phone	993299 0007																

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	Centre of Excellence in Advanced Manufacturing Technology	2018	Incubation Unit,Innovation Labs,Innovation Park/Research Park,IPR Cell/Technology Transfer Centre,Student Clubs	Centre of Excellence for Technology Development of the Scheme on Enhancement of Competitiveness in Indian Capital Goods Sector (DHI), Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises, Government of India.	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Professor Surjya K Pal</td> </tr> <tr> <td>Facility Incharge Email</td> <td>skpal@mec h.iitkgp .ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94347 01972</td> </tr> </table>	Facility Incharge Name	Professor Surjya K Pal	Facility Incharge Email	skpal@mec h.iitkgp .ac.in	Facility Incharge Phone	94347 01972	16	Yes	No	Yes
Facility Incharge Name	Professor Surjya K Pal														
Facility Incharge Email	skpal@mec h.iitkgp .ac.in														
Facility Incharge Phone	94347 01972														
			Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)						
			Institute's Own Fund / Resource		IIT kharagpur		Educational Institute		40260496						

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

2	CoE-Robotics	2018	Incubation Unit, Innovation Labs, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre, Student Clubs	Meity, Govt. of India	Facility Incharge Name	Prof. D.K. Pratihaar	10	No	Yes		Yes
					Facility Incharge Email	dkpra@meh.iitkgp.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0	
					Facility Incharge Phone	9932508105			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	660000	
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)		
Institute's Own Fund / Resource				IIT Kharagpur			Educational Institute		5000000		
3	Deysarkar Centre of Excellence in Petroleum Engineering	2017	Incubation Unit, Innovation Labs, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre, Student Clubs	Seed grant from alumnus, golden jubilee special institute grant	Facility Incharge Name	Professor William K. Mohanty Professor	4	Yes	No		Yes
					Facility Incharge Email	wkmohanty@gg.iitkgp.ac.in					
					Facility Incharge Phone	03222283361					
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)		
Institute's Own Fund / Resource				IIT Kharagpur			Educational Institute		6500000		

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

4	M N Faruqui Innovation Centre	2015	Innovation Labs, Student Clubs	Alumni Funded	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Aditya Bandyopadhyay</td> </tr> <tr> <td>Facility Incharge Email</td> <td>aditya@mec.h.iitkgp.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99329 90007</td> </tr> </table>	Facility Incharge Name	Aditya Bandyopadhyay	Facility Incharge Email	aditya@mec.h.iitkgp.ac.in	Facility Incharge Phone	99329 90007	0	Yes	No	Yes
Facility Incharge Name	Aditya Bandyopadhyay														
Facility Incharge Email	aditya@mec.h.iitkgp.ac.in														
Facility Incharge Phone	99329 90007														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)								

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?														
1	Science and Technology Entrepreneurs' Park (STEP)	1986	Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Technology Business Incubator (TBI) Seed Fund, NSTEDB, DST, MoST and Promoting Innovations in Individuals Start-ups and MSMEs (PRISM), DSIR, MoST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Siddhartha Das</td> </tr> <tr> <td>Facility Incharge Email</td> <td>mdstep@hijli.iitkgp.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>03222 28109 0</td> </tr> </table>	Facility Incharge Name	Prof. Siddhartha Das	Facility Incharge Email	mdstep@hijli.iitkgp.ac.in	Facility Incharge Phone	03222 28109 0	4	Yes	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>1321587</td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	0	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1321587	Yes
Facility Incharge Name	Prof. Siddhartha Das																						
Facility Incharge Email	mdstep@hijli.iitkgp.ac.in																						
Facility Incharge Phone	03222 28109 0																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	0																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1321587																						
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)																

List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)

2	Focus Incubation Center	2016	Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Technology Mission on Technical Textiles	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Satyah ari dey</td> </tr> <tr> <td>Facility Incharge Email</td> <td>satyah ari01@yaho o.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>91322 22837 60</td> </tr> </table>	Facility Incharge Name	Satyah ari dey	Facility Incharge Email	satyah ari01@yaho o.com	Facility Incharge Phone	91322 22837 60	1	Yes	No	No
Facility Incharge Name	Satyah ari dey														
Facility Incharge Email	satyah ari01@yaho o.com														
Facility Incharge Phone	91322 22837 60														

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 Other I & E Facilities at the HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Engaged at the Facility	Had the Research Park/Innovation Park 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 Research Park/Innovation Park?	Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	Kolkata Extension Center	2018	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof Amit Patra</td> </tr> <tr> <td>Facility Incharge Email</td> <td>amit@ ee.iitkg p.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>91322 22830 70</td> </tr> </table>	Facility Incharge Name	Prof Amit Patra	Facility Incharge Email	amit@ ee.iitkg p.ac.in	Facility Incharge Phone	91322 22830 70	1	No	No	No
Facility Incharge Name	Prof Amit Patra														
Facility Incharge Email	amit@ ee.iitkg p.ac.in														
Facility Incharge Phone	91322 22830 70														

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 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?
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List the IPR Cell/Technology Transfer Centre Facilities at the HEI

1	IPR Cell	1995	Pre-Incubation, Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, Student Clubs	institute Fund	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Santanu Dhara</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sdhara@smst.iitkgp.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9434701616</td> </tr> </table>	Facility Incharge Name	Santanu Dhara	Facility Incharge Email	sdhara@smst.iitkgp.ac.in	Facility Incharge Phone	9434701616	1	No	<table border="1"> <tr> <th colspan="2">Yes</th> <th>No</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td></td> <td></td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td></td> <td></td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td></td> <td></td> </tr> </table>	Yes		No	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)		
Facility Incharge Name	Santanu Dhara																									
Facility Incharge Email	sdhara@smst.iitkgp.ac.in																									
Facility Incharge Phone	9434701616																									
Yes		No																								
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)																										

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	Basab Chakraborty	Associate 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)
	Ecozen		Within	
	Aspen Bower		Within	
2	Ram Babu Roy	Assistant Professor	Idea/Innovation Development, Entrepreneurship/Startup Development	9
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Aurolingo		Within	
3	Manoj Kumar Mondal	Assistant Professor	Idea/Innovation Development, Entrepreneurship/Startup Development	9
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	eSaathi		Within	
	Small Paw		Within	
4	Mrigank Sharad	Assistant Professor	Idea/Innovation Development, Entrepreneurship/Startup Development	3

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)
	AgNext Technologies		Within	
	GrowthMart		Within	
5	Pranab Kumar Dan	Associate 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)
	Auro Robotics		Within	
6	Bhaskar Bhowmick	Assistant Professor	Idea/Innovation Development,Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Mrittica Technologies		Within	
	Infinity Box		Within	
	Cuvette Technology		Within	
	Suncraft Energy		Within	

Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

No Data Filled!

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
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1	Vortex Energy Generator	Product Innovation	Technological		Student	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	KPIT	No	No	No	No
									Agency Type	Educational Institute				
									Award / Position / Recognition Secured	Silver				
	Name		Type			Gender		Email			Contact			
Y Omkar		Student			Male		omkar.amaesi.iitkgp@iitkgp.ac.in			8015205480				
Name		Type			Gender		Email			Contact				
Naveen Karri		Student			Male		navven.k@iitkgp.ac.in			6281475408				
2	Smart, Flexible, and Multi-Functional Thermal and Energy Management Systems for Next-Generation Electronic Devices	Product Innovation	Technological		Student	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	SRISTI (Society for Research and Initiatives for Sustainable Technologies and Institutions)	No	2500000	No	No
									Agency Type	Govt. Agency (Central)				
									Award / Position / Recognition Secured	Gandhian Young Technological Innovation (GYTI) Award 2020				
	Name		Type			Gender		Email			Contact			
Ganesh Subramaniam		Student			Male		28.sriganesh@gmail.com			9619439675				
Name		Type			Gender		Email			Contact		3		
SenFlex T	Product Innovation	Technological		Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	No	No			

Name		Type		Gender		Email		Contact					
Prof. D. K. Goswami		Faculty		Male		dipak@phy.iitkgp.ac.in		8013583663					
Name		Type		Gender		Email		Contact		4			
Suman Mondal		Student		Male		mandal.suman84@gmail.com		8016587179					
Design and Synthesis of High Entropy Atomic Layers of Two-dimensional (2D) Alloys	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 2800000	No	No	
Name		Type		Gender		Email		Contact		Name	Email		
Chandra Sekhar Tiwary		Faculty		Male		chandra.tiwary@metal.iitkgp.ac.in		913222255221					
5	Simulation and Modeling of Converted Phases in Land and Ocean Bottom Seismic Data	Product 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	No	No	Grant Amount in Rs 2800000	No	No
	Name		Type		Gender		Email		Contact				
Abhishek Kumar Rai		Faculty		Male		abhishek@coral.iitkgp.ac.in		913222281814					
Name		Type		Gender		Email		Contact		6			
Causes and Consequences of Open Defecation (OD) in Balasore District of Odisha	Product 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	No	No		Grant Amount in Rs 925000	No	No
Name		Type		Gender		Email		Contact		Name	Email		
Mantu Kumar Mahalik		Faculty		Male		mkm@hss.iitkgp.ac.in		913222255221					

7	Generalization of Homogenization Techniques for Moving Interface Problems in Heterogeneous Mediums	Product 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	No	No	585000	No	No
	Name		Type			Gender		Email			Contact		
Hari Shankar Mahato		Faculty			Male		hsmahato@maths.iitkgp.ac.in			913222283674			

Name												Type			Gender		Email			Contact		8
The Design and Evaluation of an Augmented Reality (AR) Application for Middle School Students to Teach Three-dimensional (3D) Geometry	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No	2740000	No	No										
Name		Type			Gender		Email			Contact		Name	Email									
Kaushal Kumar Bhagat		Faculty			Male		kkntnu@hotmail.com			9647931583												

9	Machine Learning Models for Understanding the Structure of Materials Interfaces	Product 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	No	No	2620000	No	No
	Name		Type			Gender		Email			Contact		
Sandeep Kumar Reddy		Faculty			Male		skreddy@iitkgp.ac.in			913222255221			

Name		Type			Gender		Email			Contact		10
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Development of a Suitable Noise Prediction Tool for Noise Mapping in Openst Mines	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	2755000	No	No
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Name	Type	Gender	Email	Contact	Name	Email
Bibhuti Bhusan Mandal	Faculty	Male	bbmandal@mining.iitkgp.ac.in	03222214822		

11	Development of Reinforcement Learning Methods for Cyber-security and Reliability for a Fleet of Remote Unmanned Mobile Units	Product Innovation	Technological	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	710000	No	No
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Name	Type	Gender	Email	Contact
Sayak Roychowdhury	Faculty	Male	sroychowdhury@iem.iitkgp.ac.in	913222255221

	User Generated Content (UGC) and Consumer Behavior: Analytics and Empirical Studies	Product Innovation	Technological	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	1249000	No	No
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Name	Type	Gender	Email	Contact	Name	Email
Swagato Chatterjee	Faculty	Male	swagato@vgsom.iitkgp.ac.in	913222255221		

13	Real-time Health Monitoring and Vibration Control of Flexible Marine Structures	Product 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	No	No	2800000	No	No
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Name	Type	Gender	Email	Contact
Ritwik Ghoshal	Faculty	Male	ritwik@naval.iitkgp.ac.in	913222255221

Name	Type	Gender	Email	Contact	14				
Development of Novel Indicator for Real-time Monitoring of Shelf-life of Perishable Foods	Product 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		No	No	2800000	No

Name	Type	Gender	Email	Contact	Name	Email
Kanishka Bhunia	Faculty	Male	kanishka@agfe.iitkgp.ac.in	913222255221		

15	Evaluation of Predation Pressure and its Response in Prey Ornamentation during the Mesozoic: A Case Study from the Jurassic - Cretaceous Fossil Record of Kutch, India	Product 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	No	No	2800000	No	No
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Name	Type	Gender	Email	Contact
Shubhabrata Paul	Faculty	Male	spaul@gg.iitkgp.ac.in	913222255221

Name	Type	Gender	Email	Contact	16				
Investigation of Scram-Ram Mode Transition in Scramjet Engines	Product Innovation Technological	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available. TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing		No	No	2800000	No

Name	Type	Gender	Email	Contact	Name	Email
Amardip Ghosh	Faculty	Male	sanand@ee.iitkgp.ac.in	03222283078		

17	Control of Networks with Multi-agent Systems in the Presence of Non-idealities	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 300000	No	No
Name		Type			Gender		Email			Contact			
Sanand Dilip Amita Athalye		Faculty			Male		sanand@ee.iitkgp.ac.in			03222283078			

Name		Type			Gender		Email			Contact			18
A Study on the Propulsive Performance of the Flapping Hydrofoil near the Ground	Product 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	No	No	Grant Amount in Rs 300000	No	No	

Name		Type			Gender		Email			Contact			Name Email
Sunil Manohar Dash		Faculty			Male		smdash@aero.iitkgp.ac.in			03222214512			

19	Drilling Fluid Design for Mitigation of Annular Pressure Buildup	Product 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	No	No	Grant Amount in Rs 300000	No	No
Name		Type			Gender		Email			Contact			
Sandeep D Kulkarni		Faculty			Male		sandeep.kulkarni@iitkgp.ac.in			03222282028			

Name		Type			Gender		Email			Contact			20
Photonic Reconfiguration of Silicon-Integrated mmWave Devices	Product 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	No	No	Grant Amount in Rs 300000	No	No	

Name		Type			Gender		Email			Contact		Name	Email
Sarang Pendharker		Faculty			Male		sarang@ece.iitkgp.ac.in			913222255221			

21	Existence of Almost Complex Structure on a Fiber Bundle Over Sphere	Product 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	No	No	Grant Amount in Rs 25 00 00	No	No
	Name		Type			Gender		Email			Contact		
Prateep Chakraborty		Faculty			Male		prateep@maths.iitkgp.ac.in			913222283678			

Name		Type			Gender		Email			Contact		22
Development of Efficient Catalyst using Transition Metals for CO2 Hydrogenation	Product 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	No	No	Grant Amount in Rs 30 00 00	No	

Name		Type			Gender		Email			Contact		Name	Email
Koustuv Ray		Faculty			Male		koustuv@che.iitkgp.ac.in			913222214582			

23	Intellectual Property Audit of Academic and Research Institutes	Product 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	No	No	Grant Amount in Rs 30 00 00	No	No
	Name		Type			Gender		Email			Contact		
Gouri Ashok Gargate		Faculty			Female		gouri@rgsoipl.iitkgp.ac.in			913222255221			

Name		Type			Gender		Email			Contact		24
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On Complexity Measures of Boolean Functions and their Inter-relations	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No		300000	No	No	
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Name	Type	Gender	Email	Contact	Name	Email
Swagato Sanyal	Faculty	Male	swagato@cse.iitkgp.ac.in	913222255221		

25	Novel Mixed-Dimensional Photocatalysts for Elimination of Common Pharmaceuticals and Personal Care Products from Wastewater Treatment Plant Effluents	Product 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	No	No	300000	No	No	
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Name	Type	Gender	Email	Contact
Shamik Chowdhury	Faculty	Male	shamik@iitkgp.ac.in	913222260525

Name	Type	Gender	Email	Contact	26
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Minimization of Disinfection By-Product s: An Alternative Approach by Modification of Conventional Treatment Concerning NOM and Other Water Quality Parameters	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No		300000	No	No	
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Name	Type	Gender	Email	Contact	Name	Email
Partha Sarathi Ghosal	Faculty	Male	psghosal@swr.iitkgp.ac.in	913222281882		

27	Multi-scale Modelling and Characterization of 3D Printed Short Fibre Composites	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	300000	No	No
Name		Type			Gender		Email			Contact			
Atul Jain		Faculty			Male		atuljain@mech.iitkgp.ac.in			913222282906			

Name		Type			Gender		Email			Contact				28
Modeling and Optimization of Spin-transport and Waste Heat Harvesting in Spin-transfer-torque based Switching Devices	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	295000	No	No		

Name		Type			Gender		Email			Contact				Name	Email
Aniket Singha		Faculty			Male		aniket@ece.iitkgp.ac.in			913222214702					

29	Exploration and Evaluation of Explainability and Fairness in Artificial Intelligence	Product 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	No	No	300000	No	No
Name		Type			Gender		Email			Contact			
Abir Das(Faculty			Male		abir@cse.iitkgp.ac.in			913222255221			

Name		Type			Gender		Email			Contact				30
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Contact Line Instability Inspired Particle Deposition	Product 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	No	No	No	300000	No	No	
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Name		Type		Gender		Email		Contact		Name	Email
Monojit Chakraborty		Faculty		Male		monojit@che.iitkgp.ac.in		913222255221			

31	Numerical and Experimental Study of the Damping Characteristics of Composite Structures	Product 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	No	No	300000	No	No
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Name		Type		Gender		Email		Contact	
Prasun Jana		Faculty		Male		prasun@aero.iitkgp.ac.in		913222255221	

Name		Type		Gender		Email		Contact		32
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Operations Research Models for Contemporary Intermodal Freight Operations in India	Product 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	No	No	No	300000	No	No
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Name		Type		Gender		Email		Contact		Name	Email
Amit Upadhyay		Faculty		Male		au@vgsom.iitkgp.ac.in		913222255221			

33	A Study on the Quality Control and Enforcement of Registered Geographical Indication Goods in India	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No	300000	No	No
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Name		Type		Gender		Email		Contact	
Niharika Sahoo Bhattacharya		Faculty		Female		niharika@rgsoipl.iitkgp.ac.in		913222255221	

Name		Type		Gender		Email		Contact			
Advance d Prediction of Himalayan Climate through Improved Monitoring of Winter Snowfall	Product 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	No	No	300000	No	No
				Grant Amount in Rs							

Name		Type		Gender		Email		Contact	
Pranab Deb		Faculty		Male		pranab@coral.iitkgp.ac.in		913222281806	

Name		Type		Gender		Email		Contact				
35	Reading Comprehension in Indian Languages for People with Sensory Disabilities: From Identification to Modelling	Product Innovation	Technological	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No	300000	No	No
					Grant Amount in Rs							
Manjira Sinha		Faculty		Female		manjira.sinha@cet.iitkgp.ac.in		03222284958				

Name		Type		Gender		Email		Contact			
2D Van Der Waals Heterostructures for Spintronics	Product 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	No	No	300000	No	No
				Grant Amount in Rs							

Name		Type		Gender		Email		Contact	
Vidya Kochat		Faculty		Female		vidya@matsc.iitkgp.ac.in		913222255221	

37	Controlled Growth of Two-Dimensional Lateral and Vertical Heterostructures and Characterizations	Product 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	No	No	300000	No	No
Name		Type			Gender		Email			Contact			
Prasana Kumar Sahoo		Faculty			Male		prasana@matsc.iitkgp.ac.in			913222255221			

Name		Type			Gender		Email			Contact			38
Developing a Fleet of Autonomous Agricultural Vehicles (AAVs) for Intelligent Maneuvering and Operation in Precision Farming	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated .	Innovation Development Ongoing	No	No	300000	No	No	

Name		Type			Gender		Email			Contact			Name	Email
Peeyush Soni		Faculty			Male		soni@iitkgp.ac.in			913222255221				

39	Experimental and Chemical Kinetic Study on Ammonia (NH3) - Hydrogen (H2) Combustion in Various Flow Conditions	Product 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	No	No	300000	No	No
Name		Type			Gender		Email			Contact			
Mahendra Reddy Vanteru		Faculty			Male		mahendra@iitkgp.ac.in			913222282928			

Name		Type			Gender		Email			Contact			40
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Algebraic K-theory of Monoid Algebras	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No		300000	No	No	
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Name		Type		Gender		Email		Contact		Name	Email
Husney Parvez Sarwar		Faculty		Male		parvez@maths.iitkgp.ac.in		91322255221			

41	Electrochemical Printed Chip Device for Next Generation Point-of-Care Disease Detection	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	300000	No	No
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Name		Type		Gender		Email		Contact	
Gorachand Dutta		Faculty		Male		g.dutta@smst.iitkgp.ac.in		91322255221	

Name		Type		Gender		Email		Contact		42
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Identification and Characterization of Proteins Involved in Transmission Machinery of Protozoan Pathogens	Product 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	No	No		300000	No	No
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Name		Type		Gender		Email		Contact		Name	Email
Budhaditya Mukherjee		Faculty		Male		bmukherjee@smst.iitkgp.ac.in		91322283574			

43	Microstructural Examination of Impact of Algorithmic Trading on the Indian Capital Market	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	300000	No	No
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Name		Type		Gender		Email		Contact	
Ajay Kumar Mishra		Faculty		Male		akmishra@vgsom.iitkgp.ac.in		913222214974	
44									
Mechanical Force-induced Polymerization using Mechaphores to Initiate Constructive Reactions in Polymeric Materials		Product 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 No No Grant Amount in Rs 300000 No No	
Name		Type		Gender		Email		Contact	
Hemakesh Mohapatra		Faculty		Male		hemakesh.m@matsc.iitkgp.ac.in		913222255221	
45									
Data Driven Distributionally Robust Optimization and Stochastic Predictive Control		Product 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 No No Grant Amount in Rs 300000 No No	
Name		Type		Gender		Email		Contact	
Ashish Ranjan Hota		Faculty		Male		ahota@ee.iitkgp.ac.in		913222255221	
46									
Development of a Defect-Free Advanced Composite Fabrication Technique		Product 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 No No Grant Amount in Rs 300000 No No	

Name		Type			Gender		Email			Contact	
Nilanjan Das Chakladar		Faculty			Male		ndaschakladar@mech.iitkgp.ac.in			913222255221	

Name
E-mail

47	Chemical Specification of Toxic Metals in Tropical Estuarine Sediments	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	300000	No	No
	Name		Type			Gender		Email			Contact		
Parthasarathi Chakraborty		Faculty			Male		pchak@coral.iitkgp.ac.in			913222281822			

Name		Type			Gender		Email			Contact			
48	Syntheses, Biochemical and Biophysical Evaluation of Novel 4-C- Aminomethyl-2-O- Propyle and 2-O- Propyl Pyrimidines Modified Small Interfering RNAs	Product 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	No	No	300000	No	No
	Name		Type			Gender		Email			Contact		

Kiran Ramakant Gore		Faculty			Male		kiran@chem.iitkgp.ac.in			9004466305	
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Name
E-mail

49	Probing Solutio-thermo-hydrodynamics of Droplet Leidenfrost Effect and Freezing Kinetics with Electromagnetic and Wettability Interventions	Product 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	No	No	300000	No	No
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Name		Type		Gender		Email		Contact	
Purbarun Dhar		Faculty		Male		purbarun@mech.iitkgp.ac.in		913222255221	

Name		Type		Gender		Email		Contact					
Seed Sharing Systems	Product 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	No	No	703600	No	No	50
Metabolic Rift and Regenerative Agriculture													

Name		Type		Gender		Email		Contact	
Archana Patnaik		Faculty		Female		archana@hss.iitkgp.ac.in		913222214746	

Name		Type		Gender		Email		Contact					
51	Adsorptive Separation of Carbamazepine with Magnetic Carbon based Nanomaterials: Influence of Dissolved Organic Matters	Product 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	No	No	300000	No	No

Name		Type		Gender		Email		Contact	
Bhaskar Bhaduri		Faculty		Male		bhaskar@che.iitkgp.ac.in		913222255221	

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/V C 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/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?
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1	M/s. Facto Care Pvt. Ltd.	Product Innovation	Technologica	787	Student	Venture with Corporate Identification Number (CIN) Registration	U74999 WB201 9PTC23 2400	2019-20	Graduated from the Incubation unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
SOURAV DUTTA		8472416		Student		Male		souravdutta07@gmail.com		9476316073				
SANTANU MANDAL		8472416		Student		Male		santanumandal92@gmail.com		9474526812				
2	M/s. Webber ElectroCorp Pvt. Ltd.	Product Innovation	Technologica	787	Alumni	Venture with Corporate Identification Number (CIN) Registration	U34100 CT2019 PTC009 529	2019-20	Graduated from the Incubation unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
SHYAMA AGRAWAL		8557824		Alumni Entrepreneur		Male		agrawalshyama9@gmail.com		7699086352				
Manuj Agrawal		-		Alumni Entrepreneur		Male		connect@webbereg.com		7699086352				
3	M/s. Medhantrik Foods Pvt. Ltd.	Product Innovation	Technologica	787	Alumni	Venture with Corporate Identification Number (CIN) Registration	U01100 WB201 9PTC23 2377	2019-20	Graduated from the Incubation unit	No	500000	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Subhasish Das		8470170		Alumni Entrepreneur		Male		itssubhasish@gmail.com		9474900323				
GAURAV GUPTA		-		Innovator/Entrepreneur External to Institute		Male		cal.gaurav@gmail.com		9474900323				
4	M/s. Sariyan Biofarming Pvt. Ltd.	Product Innovation	Technologica	787	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	U01100 WB201 9PTC23 3857	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No	No

Name		DIN number		Type	Gender	Email	Contact
Sudipta Mandal Ghosh		8557251		Innovator/Entrepreneur External to Institute	Female	mandalsudipta067@gmail.com	9475427278
Mohuya Roy		-		Innovator/Entrepreneur External to Institute	Female	mohuyaa.roy@gmail.com	7908503092

5	M/s Freshbranch Biosciences Pvt. Ltd.	Product Innovation	Technologica	787	External to the Institute/ Incubatee	Venture with Corporate Identification Number (CIN) Registration U01100 WB201 9PTC23 5464	2019-20	Graduated from the Incubation unit	No	No	No	No	No
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Name		DIN number		Type	Gender	Email	Contact
Debashis Rana		8647279		Innovator/Entrepreneur External to Institute	Male	dr.debashis.rana@gmail.com	9000001637
Kastury Rana		-		Innovator/Entrepreneur External to Institute	Male	kasturyr@yahoo.com	9000001637

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	Liquid Propulsion Systems Centre (ISRO), Trivundrum	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	4	16-12-2020
2	(SKS) MHRD,	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	12-04-2019
3	5G Innovation Centre	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	01-07-2019
4	A coupled Atmospheric –Ocean biogeochemistry model for north Indian Ocean, Naval Research Board, DRDO, New Delhi,	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	18-09-2019
5	A4 Advanced Automation Pvt Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	05-06-2019
6	ABB India	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	08-05-2019
7	Accenture Corporation	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	24-09-2019
8	AdCept, India	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	2	09-04-2019
9	ADITYA BIRLA SCIENCE AND TECHNOLOGY COMPANY PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	10-02-2020

10	Adobe	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	14-05-2019
11	AdvanceTech India Pvt Ltd	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	2	01-03-2020
12	AERB, ATOMIC ENERGY REGULATORY BOARD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	14-08-2019
13	AIRBUS Group India Privated Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	24-01-2020
14	Airport Authority of India	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	18-05-2019
15	Alloy Steel Plant (ASP), Durgapur	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	5	07-11-2019
16	Amazon Inc. (USA)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	25-09-2019
17	Amazon Web Services, Inc	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	14-12-2019
18	Apex Committee of SPARC	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	06-06-2019
19	Apollo Tyres	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	4	15-01-2020
20	Aeronautics Research & Development Board, DRDO	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	18-04-2019
21	Arndit software Development Pvt. Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	22-01-2020
22	Bankura District Administration	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	17-09-2019
23	Ben-Gurion University of the Negev, Israel	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	05-02-2020
24	Bhaba Atomic Research Center, Mumbai	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	20-03-2019
25	Bharat Heavy Electricals Limited (BHEL)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	10-02-2020
26	Board of Regents of the Univ. of Nebraska at Omaha,6001 Dodge Street, Omaha, NE 68182, USA	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	01-09-2020
27	BOSCH	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	20-08-2019
28	Board of Research In Nuclear Sciences, Mumbai	Non-Govt. Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	22-02-2020
29	Brushless Motors India (BMI)	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	19-09-2019
30	Buffalo SUNY, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	07-08-2019
31	Capillary Technologies	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	11-06-2019
32	CEAT LIMITED	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	31-10-2020

33	Central Ground Water Board	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	11-06-2019
34	Central Power Research Institute	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	12-02-2020
35	CENTRE FOR DEVELOPMENT OF ADVANCE COMPUTING (CDAC), Ministry of Electronics and Information Technology	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	11-04-2019
36	Chaliyama Steel Plant	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	06-02-2020
37	Chief Manager, National Insurance Co Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	12-11-2019
38	CISCO	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	06-03-2019
39	Cisco Research center, USA	International Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	21-01-2020
40	CISCO University Research Program Fund	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	16-04-2019
41	CLAAS India, Chandigarh, India	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	01-08-2019
42	CMU, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	23-10-2019
43	Coastal Marine Construction and Engineering Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	16-07-2019
44	Colloquium on Legal Resource	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	19-07-2019
45	Constro Infratech Pvt Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	31-01-2020
46	Council of Scientific and Industrial Research, Extramural Research Division	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	17-07-2019
47	CSIR New Delhi	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	10-03-2020
48	Curtin University of Technology	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	09-04-2019
49	C-USE, IIT Bombay, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	05-03-2019
50	Cybermarine Knowledge Systems Pvt. Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	24-09-2019
51	Dancing for the Gods, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	22-09-2020
52	Data61, CSIRO , Australia	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	09-04-2020
53	Department of Biotechnology, New Delhi	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	09-04-2019
54	DEBA PROSAD MUKHERJEE (Proprietorship)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	24-12-2019
55	Defence Metallurgical Research Lab (DRDO), Hyderabad	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	07-05-2019

56	Defence Research and Development Organisation (DRDO) [Directorate of Futuristic Technology Management (DFTM), Centre for Artificial Intelligence & Robotics (CAIR)]	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	04-01-2020
57	Defence Research and Development Organisation, Proof and Experimental Establishment (PXE), Ministry of Defence	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	20-08-2019
58	Department of Atomic Energy (DAE)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	09-04-2020
59	Department of Computer Science, College of Engineering and Computing, Georgia Southern University, USA	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	09-04-2019
60	Department of Electronics and Information Technology, Excelra Knowledge Solutions Private Limited	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	14-02-2020
61	Department of Electronics and Information Technology, MHRD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	11-03-2020
62	Department of Heavy Industries (DHI)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	23-10-2019
63	Department of Higher Education, NMEICT, New Delhi	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	26-11-2019
64	INTEL CORPORATION, USA	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	02-11-2019
65	Intel Technology India Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	05-11-2020
66	Intel Semiconductor (US) Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	01-12-2019
67	International Bilateral Cooperation Division	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	03-10-2019
68	International Federation of Red Cross and Red Crescent Societies	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	04-12-2019
69	IoTimize LLC	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	12-12-2019
70	ISIRD, SRIC	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	02-01-2020
71	ISRO, IIT KHARAGPUR CELL	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	5	07-12-2019
72	ITD CEMENTATION INDIA LIMITED	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	19-12-2019
73	ITM - CNR, University of Calabria, Italy	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	10-10-2019
74	"Jindal India Thermal Power Limited,"	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	25-12-2019
75	Johannes Kepler University Linz, Austria	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	19-09-2019
76	Kamanda Steel Plant	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	25-12-2019
77	Karsruhe Institute of Technology , Germany	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	05-12-2019

78	KCSTC	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	2	18-10-2019
79	KCSTC, SPACE APPLICATIONS CENTRE, AHMEDABAD,	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	23-12-2019
80	KDMIPE, ONGC	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	17-10-2019
81	KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	09-10-2019
82	L and T GeoStructure LLP	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	25-12-2019
83	L&T Shipbuliding limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	23-12-2019
84	LANXESS INDIA PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	14-11-2019
85	M/s Amara Raja Battery Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation	1	03-12-2019
86	"M/S HINDALCO INDUSTRIES LIMITED"	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	11-09-2019
87	M/S Nucleodyne Computer Inc., CA, USA	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	16-01-2020
88	M/S Sun Pharmaceutical Industries Ltd.	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	15-01-2020
89	MAEK SIN SHIPPING CO. PVT. LTD	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	5	20-11-2019
90	Mahanadi Coalfields Limited	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	01-02-2020
91	MARINTEK DESIGN and ENGINEERING PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	09-10-2019
92	Massachusetts Institute of Technology, United States of America	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	10-12-2019
93	Max Planck Institute for Software Systems	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	25-12-2019
94	Melbourne University, Australia	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	11-12-2019
95	MHRD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	18-12-2019
96	MHRD, Department of Atomic Energy (DAE)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	01-01-2020
97	MHRD, Department of Electronics and Information Technology	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	09-01-2020
98	MHRD, Department of Higher Education, NMEICT	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	12-12-2019
99	MHRD, DRDO, New Delhi	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	04-12-2019
100	MHRD, GMR Airport Developers Limited, Vikram Solar Pvt. Ltd., Ministry of Urban Development	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	04-12-2019

101	MHRD, Ministry of Health and Family Welfare	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	03-12-2019
102	MHRD, Ministry of Heavy Industries and Public Enterprises, Gol, TATA MOTORS LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	17-12-2019
103	MHRD, Ministry of Power, Gol	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	09-01-2020
104	MHRD, Ministry of Road Transport and Highways Transport Bhawan	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	08-01-2020
105	MHRD, Science and Engineering Research Board (SERB)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	18-12-2019
106	MHRD, TCG Lifesciences Pvt. Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	24-12-2019
107	MHRD, Uttam Blastech Pvt. Ltd., Ministry of Coal, Government of India	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	08-01-2020
108	MHRD, Vikram Solar Pvt. Ltd., Ministry of Urban Development, Gol, GMR Airport Developers Limited	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	15-01-2020
109	MICROSOFT CORPORATION	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	05-11-2019
110	MICROSOFT RESEARCH LAB. INDIA PVT. LTD., BANGALORE	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	15-10-2019
111	Ministry of Defense, Naval Research Board, Directorate of Naval R and D	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	15-01-2020
112	Ministry of Electronics and Information Technology	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	22-01-2020
113	Ministry of Food Processing Industries,	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	21-11-2019
114	Ministry of Housing & Urban Affairs	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation	4	24-12-2019
115	Ministry of Human Resource Development, Department of Higher Education, Government of India	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	24-12-2019
116	Ministry of Law and Justice, Department of Justice	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	11-12-2019
117	Ministry of Power, Gol, MHRD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	22-01-2020
118	Ministry of Science and Technology, Department of Science and Technology (BIG Data Initiatives Division), Govt. of India	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	28-01-2020
119	Ministry of Shipping	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	03-12-2019
120	Ministry of Urban Development, Gol, MHRD	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	18-12-2019
121	Mishra Dhatu Nigam Ltd.	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	5	30-12-2019
122	Missouri Univ of Science and Tech., USA, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	03-02-2020

123	MNRE, MHRD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	22-10-2019
124	Mondal Precision Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	04-11-2019
125	Mr. Delip Andra, CEO, Minekey	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	18-12-2019
126	Myntra Designs Pvt. Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	01-09-2019
127	National Agricultural Higher Education Project (NAHEP)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	02-09-2019
128	National Chiao Tung University, Taiwan	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	4	03-09-2019
129	Department of Science and Technology	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	17-12-2019
130	Department of Science and Technology (DST) -- UK-India Education and Research Initiative (UKIERI)	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	26-12-2019
131	Department of Science and Technology (DST), Govt. of West Bengal	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	13-01-2020
132	Department of Science and Technology (International Bilateral Cooperation Division)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	18-11-2019
133	Department of Science and Technology, Climate Change Programme (SPLICE)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	22-01-2020
134	National Council of Science Museums	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	04-09-2019
135	Department of Scientific and Industrial Research,	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	18-11-2019
136	National Institute of Rural Development and Panchayati Raj (NIRDPR), Hyderabad	Govt. Agency (Central)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Networking	2	05-09-2019
137	Directorate of Futuristic Technology Management (DFTM), Defence Research and Development Organisation, Ministry of Defence	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	10-12-2019
138	National Institute of Urban Affairs, an associate of MoHUA	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	12-02-2020
139	National Mission on Education through Communication & Information Technology (NMEICT)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	02-01-2020
140	Dr. M Chelliah, Head, Academic Relations, Yahoo India R & D	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	03-12-2019
141	National Physical and Oceanography Laboratory	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	21-11-2019
142	NATIONAL PROJECT IMPLEMENTATION UNIT	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	26-12-2019
143	National Semiconductor Corporation	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	15-12-2019
144	Eaton India Innovation Center	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	2	14-01-2020

145	Educare International Foundation	Non-Govt. Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	02-12-2019
146	Epoq Labs Inc., AKM Systems Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	21-10-2019
147	Excelra Knowledge Solutions Pvt Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	24-12-2019
148	FACEBOOK INDIA ONLINE SERVICES PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	31-12-2019
149	FLIPKART INTERNET PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	10-12-2019
150	GAIL (INDIA) LIMITED,	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	12-11-2019
151	NAVAL RESEARCH BOARD, Ministry of Defence, DRDO	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	02-12-2019
152	GARDEN REACH SHIPBUILDERS and ENGINEERS LTD	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	13-12-2019
153	Naval Science and Technological Lab.(NSTL)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	18-12-2019
154	Neelachal Ispat Nigam Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	17-10-2019
155	GE (Aviation) Bangalore	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	5	27-12-2019
156	NetApp India Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	11-12-2019
157	GE INDIA INDUSTRIAL PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	21-01-2020
158	GEOPIIC, ONGC	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	11-11-2019
159	New Town Kolkata Development Authorit	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	27-12-2019
160	Global Patent Litigations in Multiple Domains	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	30-12-2019
161	GMR Airport Developers Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	22-10-2019
162	Goa Shipyard Limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	16-09-2019
163	GOOGLE INDIA PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	17-12-2019
164	"GRD PAPER INDUSTRIES PRIVATE LIMITED,"	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	06-01-2020
165	Guru Krupa Foundation (IIT Foundation)	Non-Govt. Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	02-12-2019
166	Haldia Petrochemicals Limited, TCG Foundation	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	03-12-2019
167	Heavy Engineering Corporation, Ranchi, Jharkhand	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	22-11-2019

168	Helmholtz Zentrum Geesthacht, Germany	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	4	07-11-2019
169	Hewlett Packard (India) Software Operations Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	09-01-2020
170	Hewlett Packard Enterprise	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	19-11-2019
171	Higher Education, Science and Technology and Biotechnology	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	22-11-2019
172	Hindustan Aeronautics Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	03-01-2020
173	Huawei Technologies India Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	08-11-2019
174	Huawei Technologies India Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	29-11-2019
175	Huawei Technologies India Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	29-11-2019
176	IBM Center for Blockchain Innovation, Singapore	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	07-01-2020
177	IBM INDIA PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	22-10-2019
178	IBM IRL	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	19-11-2019
179	ICMR	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	18-12-2019
180	IIM Calcutta, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	5	17-12-2019
181	IIT Hyderabad	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	5	17-12-2019
182	IIT KHARAGPUR	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	02-01-2020
183	IIT Patna, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	04-12-2019
184	"Imperial College London, United Kingdom of Great Britain and Northern Ireland"	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	10	22-10-2019
185	Indian Council for Social Science Research	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation	6	23-01-2020
186	INDIAN COUNCIL OF MEDICAL RESEARCH (ICMR)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	15-11-2019
187	Indian Council of Medical Research, Dept. of Health Research, Ministry of Health and Family Welfare	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	10-12-2019
188	Indian Council of Social Science Research	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	12-11-2019
189	Indian Institute of Science Bangalore	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	3	17-09-2019
190	Indian Institute of Technology Dhanbad	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	18-12-2019

191	Indian Institute of Technology Gandhinagar, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	23-01-2020
192	Indian Institute of Technology Kanpur	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	15-11-2019
193	Indian National Academy of Engineering	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	24-12-2019
194	Indian National Science Academy	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	08-01-2020
195	INDIAN OIL CORPORATION LTD,	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	17-12-2019
196	Indian Space Research Organization	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation	2	08-11-2019
197	Indira Gandhi Centre for Atomic Research (DAE), Kalpakkam	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	5	09-01-2020
198	Indira Gandhi Centre For Atomic Research (IGCAR)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	6	07-01-2020
199	INDO KOREA SCIENCE AND TECHNOLOGY CENTER	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	09-12-2019
200	Indo-French Centre for the promotion of Avanced Research (CEFIPRA)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	22-11-2019
201	Indo-US Science and Technology Forum (IUSSTF)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	23-12-2019
202	INRIA Paris Rocquencourt, France	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	5	16-01-2020
203	Institute of Minerals and Materials Technology (CSIR IMMT, a National laboratory)	Govt. Agency (Central)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation	4	10-12-2019
204	Institute scheme for innovative research and development	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	15-11-2019
205	Nikken Sekkei Research Institute	International Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	20-11-2019
206	Norwegian University of Science and Technology, Norway	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	13-12-2019
207	NRDMS	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	19-09-2019
208	NSF and Intel Grants to Georgia State University	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	22-11-2019
209	NTPC LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	06-02-2020
210	NTPC, Greater Noida	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	16-01-2020
211	Nvidia Electronics	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	01-05-2019
212	OIL AND NATURAL GAS CORPORATION LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	04-01-2020
213	Ola Mobility Institute	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	20-12-2019

214	ONGC Energy Centre	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	20-12-2019
215	PMGSY	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	1	15-05-2019
216	Powergen Technical Services Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	3	24-10-2019
217	PROPHECY SENSORLYTICS INDIA PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	26-09-2019
218	Purdue University	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	28-12-2019
219	Purdue University, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	13-12-2019
220	QMUL Centre for Creative and Cultural Economy., Queen Mary University of London, United Kingdom	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	22-11-2019
221	Qualcomm India Pvt. Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	21-11-2019
222	R & D, Tata Steels Ltd., jamshedpur	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	14-10-2019
223	RADIK CHEMICALS PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	23-01-2020
224	Ramakrishna Mission Vivekananda Deemed University, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	07-01-2020
225	Reliance Defence and Engineering Limited (EOU UNIT),	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	05-02-2020
226	Reliance Defence and Engineering Limited (EOU UNIT),	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	05-12-2019
227	Reliance Industries Limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	31-12-2020
228	Rensselaer Polytechnic Institute, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	24-10-2019
229	Research & Development Centre for Iron & Steel (RDCIS), Steel Authority of India (SAIL), Ranchi	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	08-09-2019
230	Research Designs and Standards Organisation (RDSO)	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	28-01-2020
231	Robert Bosch Engineering and Business Solutions Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	07-02-2020
232	Robert Gordon University, United Kingdom of Great Britain and Northern Ireland	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	10	07-12-2019
233	Rosenberger Technologies Co. Ltd., China	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	05-01-2019
234	Rungta Mines Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	26-09-2019
235	Rutgers University, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	21-11-2019
236	Ryerson University, Canada	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	03-01-2020

237	S.G.S.I.S	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	10-01-2020
238	Samsung Electronics Co.Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	5	10-12-2019
239	Samsung India Electronics Pvt Ltd,	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	06-02-2020
240	SAMSUNG R and D INSTITUTE INDIA BANGALORE PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	10-01-2020
241	Schlumberger Gould Research, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring	2	08-01-2020
242	Science and Engineering Research Board (SERB)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	21-02-2020
243	Science and Engineering Research Board (SERB), ABB Global Industries and Services Private Limited	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	07-11-2019
244	Science and Engineering Research Board (SERB), TATA STEEL) LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	20-11-2019
245	Semiconductor Research Corporation (SRC)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	11-02-2020
246	Shoft Shipyard Private Limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	17-10-2019
247	SIGTUPLE TECHNOLOGIES PRIVATE LIMITED	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	06-02-2020
248	Singapore University of Technology and Design, Singapore	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	25-12-2019
249	Sofia University, Bulgaria	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	20-12-2019
250	Space Applications Centre	Non-Govt. Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	4	25-10-2019
251	SPACE APPLICATIONS CENTRE (ISRO),	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	08-12-2020
252	SPACE APPLICATIONS CENTRE, AHMEDABAD	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	11-07-2019
253	SPARC	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	21-10-2019
254	SRIC, IIT KHARAGPUR	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	06-01-2020
255	SRM University, Chennai, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	13-01-2020
256	Stratign FZE, Dubai (UAE))	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	17-01-2020
257	Suncraft Energy Private Limited, CESC Limited, Micro Systems and Services, Edu-Tek Equipments	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	03-09-2019
258	Synopsis Inc	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	06-11-2019
259	T U Munich, Germany	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	16-10-2019

260	T U Munich, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	19-11-2019
261	Tata Consultancy Services	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	17-10-2019
262	Tata Consultancy Services Research, India	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	23-01-2020
263	TATA HITACHI CONSTRUCTION MACHINERY COMPANY PRIVATE LIMITED,	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	1	24-01-2020
264	Tata Medical Center, Kolkata, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	07-08-2019
265	Tata Motors	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	09-07-2019
266	Tata Research Development and Design Centre, India	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	15-10-2019
267	Tata Steel India	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	14-06-2019
268	TATA Steel India, Jamshedpur	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	17-09-2019
269	TATA Steel India, Jamshedpur	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	18-04-2019
270	Tata Steel Limited (Graphene Research Centre)	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	3	13-06-2019
271	Tata Steel Limited Kalinganagar	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	27-04-2019
272	TATA STEEL LTD., MHRD	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	13-03-2019
273	TCG Foundation	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation	2	13-04-2019
274	TCS Innovation Lab	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	21-02-2019
275	Technion - Israel Institute of Technology, Israel	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	16-03-2019
276	TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC)	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	21-09-2019
277	Technoquips Separation Private Limited	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	18-07-2019
278	Texas Instruments (TI) and Semiconductor Research Corporation (SRC)	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	13-07-2019
279	Texas Instruments Incorporated	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	2	25-07-2019
280	The University of of Melbourne, Australia	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	16-05-2019
281	Thermal Systems Group, ISRO Satellite Centre, Bangalore, India	Non-Govt. Agencies	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring	2	12-06-2019
282	Titagarh Wagons Ltd	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	16-08-2019

283	TM International Logistics Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	08-07-2019
284	TMC, Kolkata	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	12-04-2019
285	Tractors and Farm Equipment (TAFE) Limited, Chennai	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	05-08-2019
286	TU Braunschweig, Germany	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	12-04-2019
287	TU Eindhoven, India	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	07-03-2019
288	TU Munich	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	1	19-07-2019
289	Turbomachinery Group & Brunel Automotive Hub, Brunel University London, UK	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	2	07-06-2019
290	UGC-DAE CONSORTIUM FOR SCIENTIFIC RESEARCH	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	10-05-2019
291	United Spirits Limited,	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	3	11-07-2019
292	Univ of Poitiers, France	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	17-08-2019
293	University of Bath, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	14-07-2019
294	University of British Columbia, Canada	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	29-03-2019
295	University of Cambridge, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	15-02-2019
296	University of Cardiff, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	4	26-09-2019
297	University of Edinburgh,	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Seed fund	2	19-09-2019
298	University of Florida, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	23-11-2019
299	University of La Rochelle and UPMC Paris, France	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	13-07-2019
300	University of Leeds	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	23-03-2019
301	University of Michigan Ann Arbor, United States of America	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	28-09-2019
302	University of Namur and Universite catholique de Louvain,, Belgium	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	27-01-2020
303	University of Oxford	Educational Institute	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	17-02-2019
304	University of Oxford, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	17-12-2019
305	University of Poitiers, France	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	17-10-2019

306	University of Rome Tor Vergata, Italy	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	12-07-2019
307	University of Tokyo, Japan	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	13-08-2019
308	Urban Development and Municipal Affairs Department	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	1	06-06-2019
309	Vikram Sarabhai Space Centre (ISRO, Trivundrum)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	16-05-2019
310	Vikram Solar Pvt. Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	2	20-07-2019
311	visva-bharati	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	1	20-06-2019
312	Warwick Manufacturing Group, Univ. of Warwick, United Kingdom of Great Britain and Northern Ireland	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	02-05-2019
313	Weizmann Institute of Science, Israel	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	1	23-04-2019
314	West Bengal Electronics Industry Development Corporation Limited	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	08-06-2019
315	School of Urban and Regional Planning and the Center of Geographical Information Systems, Georgia Tech, Atlanta, USA	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Seed fund	3	20-07-2019
316	Yahoo	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Seed fund	1	25-08-2019

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	Partial accelerating duct around a marine propeller	IPRFiledPublished	201831025575	National	2020 - 01	Uploaded	Published	No
2	Semi-Automatic Metallographic Sample Polishing Arm;	IPRFiledPublished	321814001	National	2019 - 08	Uploaded	Filed	No

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]
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1	PROCESS OF ISOLATION OF COLLAGEN TYPE II FROM CAPRA HIRCUS BIOWASTE	201931018388	National	2019 - 05	Uploaded
	2	A METHOD FOR WIDEBAND PASSIVE PHASE DEMODULATION USING THE SIX-PORT CIRCUIT	201931018446	National	2019 - 05
Uploaded		3	NICKEL CONTAINING MEDIUM MANGANESE STEEL FOR AUTOMOBILE APPLICATION	201931021155	National
2019 - 05	Uploaded		4	ALUMINIUM SUBSTITUTED B-TYPE ELECTRODE FOR SECONDARY CELLS	201931013311
National	2019 - 04	Uploaded		5	A PIN DIODE BASED SPST SWITCH AND A METHOD TO IMPROVE HIGH FREQUENCY PERFORMANCE
201931015345	National	2019 - 04	Uploaded		6
METAL SANDWICH PANELS	201931018704	National	2019 - 05	Uploaded	
7	PRODUCTION AND APPLICATION OF HYPERACTIVE CELLULASE FROM A NEWLY ISOLATED STRAIN OF ASPERGILLUS SP. (RB1313)	201931042676	National	2019 - 11	Uploaded
	8	PROTEIN BASED FLEXIBLE ENERGY HARVESTING DEVICES	201931017348	National	2019 - 05
Uploaded		9	INTEGRATION OF HYBRID ENERGY STORAGE SYSTEM USING MODULAR MULTILEVEL CONVERTER	201931015648	National
2019 - 04	Uploaded		10	A VERTICALLY ALIGNED PRE-COOLER FOR CRYOGENIC GRINDING SYSTEM	201931047859
National	2019 - 11	Uploaded		11	LOW POWER HIGH DYNAMIC RANGE PROGRAMMABLE GAIN AMPLIFIER
201931017615	National	2019 - 05	Uploaded		12
DYNAMIC BUS VOLTAGE CONFIGURATION IN A TWO-STAGE MULTI-PHASE BUCK CONVERTER TO MITIGATE TRANSIENTS	201931018283	National	2019 - 05	Uploaded	
13	WIDEBAND ELECTROMAGNETICALLY COUPLED MICRO STRIP PATCH ANTENNA FOR 60 GHz MILLIMETER WAVE PHASED ARRAY	201931030816	National	2019 - 07	Uploaded
	14	A GREEN BODY COMPOSITION AND FUNCTIONAL GRADIENT MATERIALS PREPARED THEREOF	201931022298	National	2019 - 06
Uploaded		15	COCONUT NUT SHELL EXTRACT (CNSE) AS A MULTIFUNCTIONAL ADDITIVE IN RUBBER COMPOUNDS	201921015284	National

2019 - 04	Uploaded		16	WATER ASSISTED UNDERWATER DIRECT LASER WELDING METHOD AND PROCESSING SET-UP	201931022198
National	2019 - 06	Uploaded		17	DETECTION OF THALASSAEMIA CARRIERS BY AUTOMATED FEATURE EXTRACTION OF DRIED BLOOD DROPS
201931013961	National	2019 - 04	Uploaded		18
AUTOMATED CONVEYING AND PICKUP MECHANISMS FOR TRANSPLANTER HANDLING POT SEEDLINGS	201931021132	National	2019 - 05	Uploaded	
19	AN IMPROVED METHOD TO MITIGATE THE SUB HARMONIC INSTABILITY IN THE CLOSED-LOOP INTERMEDIATE BUS CONVERTER OF A NON ISOLATED INTERMEDIATE BUS ARCHITECTURE	201931020988	National	2019 - 05	Uploaded
	20	CIRCULARLY POLARIZED COAXIAL LEAKY WAVE ANTENNA WITH BACKFIRE RADIATION	201931019942	National	2019 - 05
Uploaded		21	A METHOD TO EVALUATE THE EFFICACY OF MAGNETIC FLUID HYPERTHERMIA ON A LAB ON A CHIP PLATFORM	201931019943	National
2019 - 05	Uploaded		22	SURFACE CURVATURE BASED CORRECTION IN RADIATION IMAGING	201931026327
National	2019 - 07	Uploaded		23	A POLARIZATION MODULATION SYSTEM FOR MICROWAVE WIRELESS COMMUNICATION
201931026045	National	2019 - 06	Uploaded		24
DEVICE FOR PARTICLE MANIPULATION ON A MICROFLUIDIC CHIP	201931022341	National	2019 - 06	Uploaded	
25	STORAGE BASED SOLAR COOKER WITH SENSOR-LESS DUAL-AXIS TRACKING	201931033729	National	2019 - 08	Uploaded
	26	SHELF LIFE EXTENSION OF SUGARCANE JUICE USING OZONE ASSISTED COLD STERILIZATION TECHNOLOGY	201931028607	National	2019 - 07
Uploaded		27	A FORMULATION FOR SILVER ELECTROPLATING	201931025517	National
2019 - 06	Uploaded		28	A MACHINE FOR JACKFRUIT SEED EXTRACTION FROM THE BULB	201931042458
National	2019 - 10	Uploaded		29	ALUMINUM FUMARATE POLYACRYLONITRILE MIXED MATRIX BEADS FOR FLUORIDE REMEDIATION FROM GROUNDWATER

201931035634	National	2019 - 09	Uploaded		30
Processed Aonla (Phyllanthus emblica) with enriched nutrient retention and method	201931030172	National	2019 - 07	Uploaded	
31	MICROFLUIDIC CLOTH BASED ANALYTICAL DEVICES (uCAD) PROCESS AND COMPOSITION APPLIED	201931042455	National	2019 - 10	Uploaded
	32	A NOVEL WHEELED ROBOTIC SYSTEM FOR INSPECTION RAILWAY TRACKS	201931042198	National	2019 - 10
Uploaded		33	ULTRASONIC VIBRATION ASSISTED ABRASIVE MICRO-DEBURRING EMPLOYING A SONOTRODE	201931044171	National
2019 - 10	Uploaded		34	STORAGE STABLE INSTANT SOLUBLE MILK TABLETS, SYSTEM AND PROCESS TECHNOLOGY THEREOF	201931033700
National	2019 - 08	Uploaded		35	ELECTRONIC DELAY MODULE FOR DETONATORS
201931030432	National	2019 - 07	Uploaded		36
CRYOGENIC METHOD TO PRODUCE TURMERIC POWDER	201931049229	National	2019 - 11	Uploaded	
37	SALTING OUT EXTRACTION OF BIOETHANOL FROM FERMENTATION BROTH AND CARBON DIOXIDE MEDIATED SALT RECYCLING	201931035637	National	2019 - 09	Uploaded
	38	A SYSTEM FOR OPTIMIZING TRACTOR OPERATED ACTIVE TILLAGE IMPLEMENT OPERATION	201931035343.	National	2019 - 09
Uploaded		39	A SYSTEM FOR MEASURING BLOOD HEMATOCRIT LEVEL FROM A SINGLE DROP OF BLOOD	201931039720.	National
2019 - 10	Uploaded		40	INTEGRATED PAPER BASED DEVICE FOR SIMULTANEOUS SEPARATION OF BLOOD PLASMA AND DETERMINATION PLASMA GLUCOSE FROM A SINGLE DROP OF BLOOD	201931030435.
National	2019 - 07	Uploaded		41	ESTIMATION OF BLOOD HEMOGLOBIN ON PAPER USING SMART PHONE
201931030430	National	2019 - 07	Uploaded		42
CRYOGENIC FLUID SENSOR	201931033540	National	2019 - 08	Uploaded	
43	A Semi-automatic polishing head for Metallographic sample preparation	201931038369	National	2019 - 09	Uploaded
	44	DEVELOPMENT OF A PESTICIDE FLOW RATE CONTROLLER FOR AGRICULTURAL ROBOT USING FUZZY LOGIC	201931034082	National	2019 - 08

Uploaded		45	A METHOD TO AUGMENT DROPLET SPREADING ON A SOFT DIELECTRIC FILM UNDER ELECTRIC FIELD	201931033541	National
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National	2020 - 01	Uploaded		47	AUTOMATIC PLANTING SYSTEM FOR METERING ONION SETS
201931031476	National	2019 - 08	Uploaded		48
TRIPLE-BAND DUAL-POLARIZED SIW CAVITY BACKED DIFFERENTIAL SLOT ANTENNA	201931041757	National	2019 - 10	Uploaded	
49	DUAL BAND BACKFIRE MICROSTRIP LEAKY WAVE ANTENNA WITH TUNABLE FREQUENCY RATIO	201931040110	National	2019 - 10	Uploaded
	50	SMART SPEED INDICATOR FOR MANUALLY ROTATED SPINNING WHEEL	201931044055	National	2019 - 10
Uploaded		51	MODIFIED DESIGN OF SPIGOT FOR PERFORMANCE IMPROVEMENT OF HYDROCYCLONE	201931049215	National
2019 - 11	Uploaded		52	DUAL PORT ANTENNA SYSTEM FOR COGNITIVE RADIO (CR) APPLICATIONS	201931043582
National	2019 - 10	Uploaded		53	METHOD TO PRODUCE NANOSTRUCTURE TITANIUM WITH HIGH STRENGTH AND DUCTILITY COMBINATION BY ADAPTING AMBIENT TEMPERATURE MULTIAXIAL PLANE STRAIN FORGING
201931045383	National	2019 - 11	Uploaded		54
SOLAR ENERGY OPERATED SELF PROPELLED BOOM TYPE SPRAYER FOR CEREAL CROPS	202031002157	National	2020 - 01	Uploaded	
55	A NOVEL FIXED FREQUENCY CONTROL MECHANISM FOR AN INTERLEAVED MULTIPHASE BUCK CONVERTER TO ENSURE EQUAL CURRENT SHARING AMONG THE PHASES	201931047839	National	2020 - 01	Uploaded
	56	HIGH TEMPERATURE STABLE COMPOSITE GEL POLYMER ELECTROLYTE FOR SAFER SODIUM ION BATTERIES	201931046447	National	2019 - 11
Uploaded		57	DEVELOPMENT OF SYSTEM OF RICE INTENSIFICATION (SRI) NURSERY SEEDER	201931051077.	National
2019 - 12	Uploaded		58	A MULTI MODE DOPPLER RADAR SYSTEM AT 2.4 GHZ	202031003431

National	2020 - 01	Uploaded		59	ISOLATION IMPROVEMENT OF A COMPACT PLANAR ANTENNA PAIR RADIATING IN THE SAME DIRECTION
202031001056.	National	2020 - 01	Uploaded		60
INDUSTRY 4.0 ENABLED, CLOUD BASED REMOTE MONITORING, AND REAL TIME MACHINE LEARNING BASED PREDICTION AND CONTROL OF WELD QUALITY IN FRICTION STIR WELDING PROCESS USING SENSORS	202031000072	National	2020 - 01	Uploaded	
61	Ni MODIFIED LOW ALLOYED HIGH STRENGTH STEEL FOR AUTOMOBILE MATERIAL	202031012312	National	2020 - 03	Uploaded
	62	MODIFIED DESIGN OF VORTEX FINDER FOR ACHIEVING FINER CUT SIZES (d50) IN CLASSIFYING HYDROCYCLONES	202031003309.	National	2020 - 01
Uploaded		63	LIQUID METAL REINFORCED METAL BASED IN-SITU COMPOSITE	202031004680	National
2020 - 02	Uploaded		64	RECONFIGURABLE MECHANICAL TESTING MACHINE CAPABLE OF APPLYING MONOTONIC OR CYCLIC BI-AXIAL TENSION-TORSION AND COMPRESSION TORSION LOADINGS	
National	2020 - 01	Uploaded		65	SIX DEGREES OF FREEDOM RAIL-WHEEL CONTACT SIMULATOR WITH SPEED AND TORQUE CONTROL USING MOTOR-GENERATOR SET UP WITH COMMON DC BUS FOR EFFICIENT OPERATION
202031002223	National	2020 - 01	Uploaded		66
IN SITU ALUMINUM BASED DUAL MATRIX COMPOSITES WITH ENHANCED THERMAL CONDUCTIVITY	202031006636	National	2020 - 02	Uploaded	
67	AUGMENTATION IN LIQUID-LIQUID EXTRACTION WITH THE AID OF PULSATILE FLOW WITH AIR-DAMPER	202031006824	National	2020 - 02	Uploaded
	68	SETUP FOR SOLID STATE SINTERING OF HOLLOW, METALLIC CYLINDRICAL COMPONENTS (SOLID/POROUS), ON GENERIC VERTICAL MILLING/DRILLING/FRICTION STIR WELDING MACHINES	202031006307.	National	2020 - 02
Uploaded		69	A Portable Rotating Disc for Blood Cell Counting	202031011940	National

2020 - 03	Uploaded		70	An improved secondary treatment unit of wastewater comprising of moving and stationary bed bio-reactor-sedimentation tank (MBSST)	202031010688
National	2020 - 03	Uploaded		71	Friction Stir Spiral Tunneling in Pipe
202031010846	National	2020 - 03	Uploaded		72
Flexible, energy harvesting devices as self-powered breathing pattern monitoring system.	201931017348	National	2019 - 05	Uploaded	

List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI

Srno	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
1	A System for Real Time Monitoring, Prediction and Control of Weld Quality in Friction Stir Welding	PatentsHoldByInnovations	202031000072	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	IIT Kharagpur		Incubatee Innovator		Centre of Excellence in A
2	Method and system for multi sensor fusion using tranform learning	PatentsHoldByInnovations	202021036163	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	IIT Kharagpur		Incubatee Innovator		Centre of Excellence in A
3	Low-cost real-time machine vision based quality inspection system	PatentsHoldByInnovations	202031050404	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	IIT Kharagour		Incubatee Innovator		Centre of Excellence in A
4	Small scale Rice Flaking Machine	PatentsHoldByInnovations	21428	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,
5	Stripper Grain Harvester for the Paddy Crop	PatentsHoldByInnovations	201831031186	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,
6	Solar Energy-Operated Wire-loop Type Paddy Thrasher	PatentsHoldByInnovations	201831019867	Filed	Uploaded

	Applicant Name		Applicant Type		Start-up/Innovator Name	
	201831019867		Incubatee Innovator		Design Innovation Centre,	
7	Development and Evaluation of Nursery Raising Technique for System of Rice Intensification	PatentsHoldByInnovations		3889/ASA/PP-2	Filed	NA
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,	
8	Solar Energy Operated Self-propelled Boom Type Sprayer for Cereal Crops	PatentsHoldByInnovations		IIT/PAT/21516	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,	
9	Self-propelled Cabbage E-harvester for Rural Farmers	PatentsHoldByInnovations		21564	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,	
10	Smart Speed Indicator for Manually Rotated Spinning Wheel	PatentsHoldByInnovations		PP-2930	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	IIT Kharagpur		Incubatee Innovator		Design Innovation Centre,	

List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

No Data Filled!

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 Prof. Virendra Kumar Tewari (Head of Institute) and Mr. Anandaroop Bhattacharya (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



Prof. Virendra Kumar Tewari
Head of the Institution,
Kharagpur, West Bengal

Nodal officer



Mr. Anandaroop Bhattacharya
Nodal Officer,
Kharagpur, West Bengal