



# ARIIA

## ATL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

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

Institute Name: Indian Institute of Science [ARI-U-0220]

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

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Beneficiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	NMR Research Centre	Academic Department with lab facility	Multidisciplinary Centre.	UG / PG / PhD	Technical	0	1	6
2	Physics	Research Unit / Park		UG / PG / PhD	Not Allowed	276	33	4
3	Mathematics	Academic Department with lab facility		UG / PG / PhD	Not Allowed	57	29	1
4	Instrumentation and Applied Physics	Research Unit / Park		UG / PG / PhD	Not Allowed	83	14	7
5	MSME Centre of Excellence (DESE)	Incubation Unit	Multisectors	Not Allowed	Not Allowed	0	0	2
6	Center for High Energy Physics	Research Unit / Park		UG / PG / PhD	Not Allowed	37	12	2
7	Center for Product Design and Manufacturing	Centre of Excellence with Advance Tools & Equipment		UG / PG / PhD	Not Allowed	111	11	5
8	Materials Research Centre	Research Unit / Park		UG / PG / PhD	Not Allowed	55	8	3
9	Centre for Earth Sciences	Research Unit / Park		UG / PG / PhD	Not Allowed	37	6	2
10	Organic Chemistry	Research Unit / Park		UG / PG / PhD	Not Allowed	74	10	2
11	Centre for Atmospheric and Oceanic Sciences	Research Unit / Park		UG / PG / PhD	Not Allowed	44	10	2
12	Management Studies	Research Unit / Park		UG / PG / PhD	Not Allowed	90	8	1
13	Society for Innovation and Development	Incubation Unit	Multisectors	UG / PG / PhD	Both	0	0	0
14	Supercomputer Education and Research Centre	Research Unit / Park		UG / PG / PhD	Both	0	3	5
15	Technology Business Incubator	Pre-incubation unit	Multisectors	Not Allowed	Not Allowed	0	0	0
16	Electronic Systems Engineering	Research Unit / Park		UG / PG / PhD	Not Allowed	157	15	7
17	Chemical Engineering	Research Unit / Park		UG / PG / PhD	Not Allowed	83	12	2
18	Undergraduate Programme	Academic Department with lab facility		UG / PG / PhD	Not Allowed	522	1	5

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

19	Inorganic and Physical Chemistry	Academic Department with lab facility		UG / PG / PhD	Not Allowed	151	20	5
20	Robert Bosch Centre for Cyber-Physical Systems (RBCCPS)	Centre of Excellence with Advance Tools & Equipment	Multisectors	UG / PG / PhD	Both	28	21	0
21	Centre for Cryogenic Technology	Academic Department with lab facility		UG / PG / PhD	Not Allowed	0	2	1
22	Microbiology and Cell Biology	Academic Department with lab facility		UG / PG / PhD	Not Allowed	98	14	11
23	Design for Innovation Centre	Centre of Excellence with Advance Tools & Equipment	Multisectors	Not Allowed	Not Allowed	0	0	0
24	Centre for Ecological Sciences	Research Unit / Park		UG / PG / PhD	Not Allowed	47	11	5
25	CPDMED TBI	Incubation Unit	designs and innovation in various disciplines of science and engineering	Not Allowed	Not Allowed	0	5	3
26	Molecular Biophysics Unit	Academic Department with lab facility		UG / PG / PhD	Not Allowed	98	13	2
27	MedTech TBI	Incubation Unit	designs and innovation in various disciplines of science and engineering	Not Allowed	Not Allowed	0	5	3
28	Mechanical Engineering	Research Unit / Park		UG / PG / PhD	Both	215	27	10
29	InCeNSE	Incubation Unit	Nanotechnology	UG / PG / PhD	Both	0	0	0
30	Electrical Engineering	Research Unit / Park		UG / PG / PhD	Both	203	24	9
31	Maithra Med Tech	Incubation Unit	Deeptech	Not Allowed	Not Allowed	0	0	0
32	NeuIntegrals	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
33	Grasp Bionics	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
34	MimyK	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
35	Kenome Tech	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
36	Centre for Sustainable Technologies	Academic Department with lab facility		UG / PG / PhD	Both	33	7	3
37	AI Health Highway	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
38	Polymage Labs	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
39	RaGaVeRa Indic	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
40	Centre for Biosystems Science and Engineering	Research Unit / Park		UG / PG / PhD	Both	39	4	1
41	Urjalinks	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0

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

42	General Aeronautics	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
43	Biochemistry	Research Unit / Park		UG / PG / PhD	Not Allowed	84	14	5
44	Bellatrix	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
45	Central Animal Facility	Research Unit / Park		UG / PG / PhD	Not Allowed	0	0	2
46	Astrome	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
47	Digantara Research and Tech	Incubation Unit	DeepTech	Not Allowed	Not Allowed	0	0	0
48	Centre for Nano Science and Engineering	Research Unit / Park		UG / PG / PhD	Not Allowed	27	14	0
49	Molecular Reproduction, Development and Genetics	Research Unit / Park		UG / PG / PhD	Not Allowed	70	11	6
50	Electrical Communication Engineering	Research Unit / Park		UG / PG / PhD	Both	263	28	2
51	Computational and Data Sciences	Research Unit / Park		UG / PG / PhD	Both	95	17	0
52	Aerospace Engineering	Research Unit / Park		UG / PG / PhD	Not Allowed	238	30	9
53	Computer Science and Automation	Research Unit / Park		UG / PG / PhD	Both	266	31	2
54	Solid State and Structural Chemistry	Research Unit / Park		UG / PG / PhD	Not Allowed	86	14	4
55	Civil Engineering	Research Unit / Park		UG / PG / PhD	Both	191	26	7
56	Materials Engineering	Research Unit / Park		UG / PG / PhD	Both	160	23	4
57	Centre for Neuroscience	Centre of Excellence with Advance Tools & Equipment	Multisectors	UG / PG / PhD	Not Allowed	41	10	1
58	Intellectual Property protection and Technology Licensing	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Multisectors	Not Allowed	Not Allowed	0	0	0

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

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

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

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department /	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	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
------	-----------------------------	---------------	--------------	------------------	-------------------------	--------------------	------------------	----------------------------	------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	------------------------------	---	--

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

					Centre / Student Body Name									nts	program/activity/event?	
1	Medical Device: Development, Testing, Regulations and Market Access	Entrepreneurship/Startup	Workshop	Institute Lead Activity	CeNSE	05-09-2019 00:00:00	06-09-2019 00:00:00	2	Within Campus	30	2	3	4	39	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 11700	No
2	Nano Sgri Tech Seminar	Innovation	Seminar	Institute Lead Activity	CeNSE	08-11-2019 00:00:00	08-11-2019 00:00:00	1	Within Campus	21	2	3	4	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 9000	No
3	Workshop on National Startup Awards	Entrepreneurship/Startup	Workshop	Institute Lead Activity	CeNSE	22-12-2019 00:00:00	22-12-2019 00:00:00	1	Within Campus	10	12	14	10	46	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 13800	No
4	Open Day	Innovation	Demo Day	Institute Lead Activity	Indian Institute of Science	29-02-2020 00:00:00	29-02-2020 00:00:00	1	Within Campus	500	150	600	200	1450	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 435000	No
5	ReImagined Health MedTech Hackathon	Entrepreneurship/Startup	Hackathon	Institute Lead Activity	TBI CPDMED MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	06-07-2019 00:00:00	17-07-2019 00:00:00	12	Within Campus	27	9	10	3	49	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 400000	No

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

6	Joyance Partners Reverse Investor Pitch	Entrepreneurship/Startup	B-Plan Competitions	Institute Lead Activity	TBI CPDMED, MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	11-03-2020 00:00:00	11-03-2020 00:00:00	1	Within Campus	20	3	24	4	51	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2000	No
7	Workshop on Structured Medical Device Design & Development (MD3) for Start-ups	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TBI CPDMED, MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	17-08-2019 00:00:00	17-08-2019 00:00:00	1	Within Campus	10	5	15	5	35	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10500	No
8	Medical Device: Development, Testing, Regulations & Market Access	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TBI CPDMED, MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	05-09-2019 00:00:00	06-09-2019 00:00:00	2	Within Campus	25	3	0	2	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	9000	No
9	India Immersion Programme for Singapore Startups	Entrepreneurship/Startup	Seminar	Institute Lead Activity	AntHill Ventures Invest India	15-01-2020 00:00:00	15-01-2020 00:00:00	1	Outside Campus	10	5	41	9	65	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	19500	No

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

10	Patient Simulators Training	Entrepreneurship/Startup	Training	Institute Lead Activity	TBI CPDMED MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	20-09-2019 00:00:00	20-09-2019 00:00:00	1	Within Campus	24	3	0	0	27	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8100	No
11	Spectrum Analyzer Training	Entrepreneurship/Startup	Training	Institute Lead Activity	TBI CPDMED MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	18-10-2019 00:00:00	18-10-2019 00:00:00	1	Within Campus	30	2	0	0	32	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	9600	No
12	EMI EMC Training	Entrepreneurship/Startup	Training	Institute Lead Activity	TBI CPDMED MedTech and Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing	22-11-2019 00:00:00	22-11-2019 00:00:00	1	Within Campus	16	2	0	0	18	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5400	No
13	LEAP Day	Innovation	Awareness	Institute Lead Activity	Society for Innovation and Development	28-08-2019 00:00:00	28-08-2019 00:00:00	1	Within Campus	0	4	0	0	4	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	1200	No
14	Intellectual Property Rights	IPR	Workshop	Institute Lead Activity	Centre for Society and Policy	26-07-2019 00:00:00	27-07-2019 00:00:00	2	Within Campus	10	11	5	0	26	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	7800	No

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

15	Low Carbon Materials and Building Systems	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for Sustainable Technologies, Civil Engineering and Karnataka State Council for Science and Technology	05-08-2019 00:00:00	05-08-2019 00:00:00	1	Within Campus	25	10	0	0	35	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10500	No
16	Compressed Stabilised Earth Blocks Technology, Government Engineering College, Kannur, Kerala	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for Sustainable Technologies	15-02-2020 00:00:00	15-02-2020 00:00:00	1	Within Campus	31	5	0	0	36	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10800	No
17	Low Carbon Materials and Building Systems	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for Sustainable Technologies, Civil Engineering and Karnataka State Council for Science and Technology	17-02-2020 00:00:00	17-02-2020 00:00:00	1	Outside Campus	15	5	10	5	35	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10500	No
18	Astra Efficient Wood burning devices	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for Sustainable Technologies	22-04-2019 00:00:00	25-04-2019 00:00:00	4	Within Campus	20	5	0	0	25	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	7500	No
19	Astra Efficient Wood burning devices	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for Sustainable Technologies	16-11-2019 00:00:00	20-11-2019 00:00:00	5	Within Campus	25	9	0	0	34	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10200	No

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

20	Game of Flavours: CMS Heavy Flavour workshop	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for High Energy Physics	30-04-2019 00:00:00	30-04-2019 00:00:00	1	Outside Campus	15	2	10	2	29	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8700	No
21	High Energy Physics Phenomenology (WHEPP XVI)	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Centre for High Energy Physics	01-12-2019 00:00:00	01-12-2019 00:00:00	1	Outside Campus	20	0	10	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	9000	No

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

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration (in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	
1	Bangalore Nano New Dimensions in Nanoscience and Nanotechnology for Industry 4.0	Entrepreneurship/Startup	Conference	JNCSAR, Innovate Karnataka	Educational Institute	02-03-2020 00:00:00	04-03-2020 00:00:00	3	0	3	3	No	---	---	No	No	
2	IT and BT Sector Startups and Industry Participation and Exp	Entrepreneurship/Startup	Start-up Conclave	GoK	Govt. Agency (State)	17-12-2019 00:00:00	17-12-2019 00:00:00	1	5	1	6	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	4000000	No
3	IT and BT Sector Startups and Industry Participation and Exp	Innovation	Conference	28th IEEE International Conference on Robot and Human Interactive Communication	International Agencies	01-07-2019 00:00:00	05-07-2019 00:00:00	5	1	1	2	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	1000	No



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

4	IT and BT Sector Startups and Industry Participation and Exp	Innovation	Conference	28th IEEE International Conference on Robot and Human Interactive Communication	International Agencies	14-10-2019 00:00:00	17-10-2019 00:00:00	4	1	1	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		1000	No
5	IT and BT Sector Startups and Industry Participation and Exp	Innovation	Conference	Rabbit MQ Summit	International Agencies	04-11-2019 00:00:00	04-11-2019 00:00:00	1	1	1	2	No	---	---	No		No	
6	IT and BT Sector Startups and Industry Participation and Exp	Innovation	Conference	PRICAI 2019	International Agencies	26-08-2019 00:00:00	30-08-2019 00:00:00	5	1	1	2	No	---	---	No		No	
7	IT and BT Sector Startups and Industry Participation and Exp	Innovation	Conference	Mohammed Bin Zayed International Robotics Challenge	International Agencies	18-02-2020 00:00:00	26-02-2020 00:00:00	9	1	1	2	No	---	---	No		No	
8	India Immersion Programme	Entrepreneurship/Startup	Seminar	Anthill Ventures, Invest India	Non-Govt. Agencies	15-01-2020 00:00:00	15-01-2020 00:00:00	1	1	0	1	No	---	---	No		No	
9	Discussion on IPR with MSMEs	IPR	Awareness	EEPC India Technology Centre	Corporate / Industry Association	01-01-2020 00:00:00	01-01-2020 00:00:00	1	1	1	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		20000	No
10	Bengaluru Tech summit 2019 (With SID stall)	Innovation	Exhibition	Govt of Karnataka	Govt. Agency (State)	18-11-2019 00:00:00	20-11-2019 00:00:00	3	1	1	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		200000	No

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

11	IMTEX 2020 (With SID Stall)	Innovation	Exhibition	IMTMA	Corporate / Industry Association	23-01-2020 00:00:00	28-01-2020 00:00:00	6	1	1	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	50000	No
12	National workshop on Design expertise to manufacturing MSME sector	Innovation	Orientation Session	Ministry of MSME	Govt. Agency (Central)	25-01-2020 00:00:00	25-01-2020 00:00:00	1	1	1	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	20000	No

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

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Start-up Tools (SuT)	Entrepreneurship/Startup	Short term Course	Master	CeNSE	01-08-2019	31-12-2019	153	Offline	19	48
2	Innovative Product Development and Design Methods	Innovation	Short term Course	Master	CeNSE	01-01-2020	31-05-2020	152	Offline	23	32
3	Start-up Tools	Entrepreneurship/Startup	Short term Course	Master	CeNSE	01-01-2020	31-05-2020	152	Offline	9	48
4	Strategic Management	Entrepreneurship/Startup	Short term Course	Master	MS	01-01-2020	31-05-2020	152	Offline	10	48
5	Introduction to Industrial Design	Innovation	Short term Course	Master	CST	01-01-2020	31-05-2020	152	Offline	10	48
6	Entrepreneurship Ethics and Societal Impact	Entrepreneurship/Startup	Elective/Core Credit Course	PhD	CeNSE	01-08-2019	31-12-2019	153	Offline	31	306
7	MG 271 Technology Management	Innovation	Elective/Core Credit Course	PhD	MGMT	01-08-2020	31-12-2020	153	Offline	27	306
8	A Work Shop on Intellectual Property Rights	IPR	Short term Course	Master	CSP	26-07-2019	01-08-2019	7	Offline	29	30
9	Innovative Product Development and Design Methods	Entrepreneurship/Startup	Short term Course	Master	CCE	01-08-2019	31-12-2019	153	Offline	18	32
10	Strategic Innovation Through TRIZ	Entrepreneurship/Startup	Short term Course	Master	CCE	01-08-2019	31-12-2019	153	Offline	7	32
11	IoT and Data Science for CleanTech and AgriTech	Entrepreneurship/Startup	Short term Course	Master	CCE	01-08-2019	31-12-2019	153	Offline	23	48
12	Project Management	Entrepreneurship/Startup	Short term Course	Master	CST	01-08-2019	31-12-2019	153	Offline	14	48
13	Basics of Machine Learning	Entrepreneurship/Startup	Short term Course	Master	CCE	01-01-2020	01-05-2020	122	Offline	40	32

14	Business Analytics with Management Science Models and Methods	Entrepreneurship/Startup	Short term Course	Master	MS	01-08-2019	31-12-2019	153	Offline	13	48
----	---	--------------------------	-------------------	--------	----	------------	------------	-----	---------	----	----

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

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Technology Management	Innovation	MDP in I&E / IPR	Management Studies	01-08-2019	31-12-2019	153	Offline	19	306

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

Srno	Faculty Name	Department/Centre/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019-20				
1	Prof Manish Arora	Centre for Product Design and Manufacturing	Asst Prof	Yes	No				
	<b>Training Name</b>	<b>Training Theme</b>	<b>Type of Course</b>	<b>Training Agency Name</b>	<b>Training Agency Type</b>	<b>Training Start Date</b>	<b>Training End Date</b>	<b>Training Duration (in Days)</b>	<b>Mode of Delivery</b>
	GDC-INCUBATE Program	Entrepreneurship/Startup	Employment Generation Training Programs	Gopalkrishna Deshpande Center for Innovation and Entrepreneurship	Corporate / Industry Association	07-03-2020 00:00:00	04-05-2020 00:00:00	59	Online
2	Prof Amaresh Chakraborty	Centre for Product Design and Manufacturing	Chairman	Yes	No				
	<b>Training Name</b>	<b>Training Theme</b>	<b>Type of Course</b>	<b>Training Agency Name</b>	<b>Training Agency Type</b>	<b>Training Start Date</b>	<b>Training End Date</b>	<b>Training Duration (in Days)</b>	<b>Mode of Delivery</b>
	GDC-INCUBATE Program	Entrepreneurship/Startup	Employment Generation Training Programs	Gopalkrishna Deshpande Center for Innovation and Entrepreneurship	Corporate / Industry Association	07-03-2020 00:00:00	04-05-2020 00:00:00	59	Online
3	Dr. Dibakar Sen	Mechanical Engineering	Professor	No	No				
4	Dr. Charlie Ooman	Aerospace Engineering	Chief Research Scientist	No	No				
5	Dr Savitri HS	Department of Biochemistry	Emeritus Professor	No	No				
6	Pratikash Panda	Aerospace Engineering	Professor	No	No				
7	Prasanta Ghosh	Department of Electrical Engineering	Professor	No	No				
8	V. Ramanathan	Society for Innovation and Development	Mentor	No	No				
9	Dr. CV Natraj	Society for Innovation and Development	Mentor	No	No				
10	Comde. PK Chaudhary	General Aeronautical Pvt Ltd	Mentor	No	No				
11	Dr. Madhu Atrey	Centre for Nano Science and Engineering	Mentor	No	No				

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

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	ENTIISC	Idea Club	2019	None	Pre-Incubation Unit	8	Kunjari Mog	kunjarimog@iisc.ac.in	948660561

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

Smo	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Had institute Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?
							Facility Incharge Name	Prof. Gurum oorthy				
1	SID-IISC-TIME Facility	Innovation Centre	2018	3D Printing & Prototype Equipment, Work Stations	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Facility Incharge Name	Prof. Gurum oorthy	5	Yes	No	Yes
							Facility Incharge Email	bgm@iisc.ac.in				
							Facility Incharge Phone	08022932544				
Source of Grant / Fund					Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)		
Funding Agency					Nidhi Prayas			Govt. Agency (Central)		12000000		

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

2	Society for Innovation and Development	Maker's Space	2018	Co-working Space,3D Printing & Prototype Equipment	Incubation Unit,Innovation Labs,IPR Cell/Technology Transfer Centre	Incubation Unit,Innovation Labs,IPR Cell/Technology Transfer Centre	Facility Incharge Name	Mr. Yatish Dravid	1	Yes	Yes		Yes	
							Facility Incharge Email	dravidy@iisc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0		
							Facility Incharge Phone	8023460622			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	78000000		
											Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0		
Source of Grant / Fund					Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)				
Funding Agency					Dept of Science and Technology			Govt. Agency (Central)		22000000				
3	SID-IISC-TIME Facility	Innovation Centre	2018	3D Printing & Prototype Equipment	Incubation Unit,Innovation Labs,Innovation Park/Research Park,Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre,Student Clubs	Incubation Unit,Innovation Labs,Innovation Park/Research Park,Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre,Student Clubs	Facility Incharge Name	Prof Gurumoorthy	5	Yes	No		Yes	
							Facility Incharge Email	bgm@iisc.ac.in						
							Facility Incharge Phone	08022932544						

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

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)											
Funding Agency		NPDx		Corporate / Industry Association		2695580											
4	SID-IISC-TIME Facility	Innovation Centre	2018	3D Printing & Prototype Equipment	Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Incubation Unit, 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>Prof Gurum oorthy</td> </tr> <tr> <td>Facility Incharge Email</td> <td>bgm@iisc.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>08022932544</td> </tr> </table>	Facility Incharge Name	Prof Gurum oorthy	Facility Incharge Email	bgm@iisc.ac.in	Facility Incharge Phone	08022932544	5	Yes	No	Yes
Facility Incharge Name	Prof Gurum oorthy																
Facility Incharge Email	bgm@iisc.ac.in																
Facility Incharge Phone	08022932544																
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)											
Funding Agency		SPACE		Corporate / Industry Association		420000											

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

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?						
1	Makery	2018	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Bharadwaj</td> </tr> <tr> <td>Facility Incharge Email</td> <td>amrutor@iisc.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8022932046</td> </tr> </table>	Facility Incharge Name	Prof. Bharadwaj	Facility Incharge Email	amrutor@iisc.ac.in	Facility Incharge Phone	8022932046	2	No	No	No
Facility Incharge Name	Prof. Bharadwaj														
Facility Incharge Email	amrutor@iisc.ac.in														
Facility Incharge Phone	8022932046														

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

2	Robert Bosch centre for Cyber Physical Systems	2011	Innovation Park/Research Park	RBEI	Facility Incharge Name	Prof. Bharadwaj	25	Yes	No	Yes
					Facility Incharge Email	amrutar@iisc.ac.in				
					Facility Incharge Phone	8022932046				
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)	
Funding Agency				RBEI			Corporate / Industry Association		65000000	

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

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?	
1	InCeNSE-TBI	2019	Innovation Labs	TBI Scheme with GoK	Facility Incharge Name	Veeran na Kori	1	Yes	No	Yes
					Facility Incharge Email	veeranakori@iisc.ac.in				
					Facility Incharge Phone	9620835733				
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
Funding Agency				GoK			Govt. Agency (State)		78500000	
2	MSME Centre of Excellence	2014	Centre of Excellence with Advance Tools		Facility Incharge Name	Dr. T. V. Prabhakar	1	No	No	No
					Facility Incharge Email	tvprabhs@iisc.ac.in				
					Facility Incharge Phone	08022932967				

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

3	Design Innovation Centre	2019	Centre of Excellence with Advance Tools		Facility Incharge Name	Prof Amare sh Chakra barti	1	No	Yes		No
					Facility Incharge Email	ac123@isc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0	
					Facility Incharge Phone	08022 36430 6			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	123500	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	
4	CPDMED-TBI	2018	Innovation Labs	Karnataka Innovation & Technology Society, Govt of Karnataka	Facility Incharge Name	Dr. Kanda Srinivas Madhusudan	3	Yes	Yes		Yes
					Facility Incharge Email	srinivasmk@isc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0	
					Facility Incharge Phone	95151 06373			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	15000	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	
Source of Grant / Fund				Agency Name				Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
-				-				-		32750000	

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

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to Other I & E Facilities at the	Name of the Funding Schemes Available with Research/Innovat	Facility Details	Total Nos of Dedicated Executive/Management team Strength	Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation Development and	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
------	--	-----------------------	--	---	------------------	---	--	---	---



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

Sl. No.	HEI	Year of Establishment	HEI Name	Innovation Park, if any (Optional)	Facility Incharge		Engaged at the Facility	Implementation during the Financial Year 2019-20?	Implementation during the Financial Year 2019-20?	
					Name	Contact			Yes	No
1	SID IISC	1991	Pre-Incubation, Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	AIM	Facility Incharge Name	Prof Gurumoorthy	6	Yes	Yes	
					Facility Incharge Email	bgm@isc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0
					Facility Incharge Phone	08022 93254 4			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)	10873722
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
Funding Agency				AIM			Govt. Agency (Central)		10000000	
2	SID IISC	1991	Pre-Incubation, Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	TIDE	Facility Incharge Name	Prof Gurumoorthy	6	Yes	No	
					Facility Incharge Email	bgm@isc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0
					Facility Incharge Phone	08022 93254 4			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
Funding Agency				TIDE			Govt. Agency (Central)		31000000	

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

3	InCeNSE	2018	Incubation Unit	TBI Scheme with GoK	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Veeran na Kori</td> </tr> <tr> <td>Facility Incharge Email</td> <td>veeran nakori @iisc. ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>23600 255</td> </tr> </table>	Facility Incharge Name	Veeran na Kori	Facility Incharge Email	veeran nakori @iisc. ac.in	Facility Incharge Phone	23600 255	1	No	No	Yes
Facility Incharge Name	Veeran na Kori														
Facility Incharge Email	veeran nakori @iisc. ac.in														
Facility Incharge Phone	23600 255														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Funding Agency		GOK			Govt. Agency (State)		78500000								
4	SID-IISC-CPDM-Smart Factory	2019	Pre-Incubation, Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	DHI	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof Amare sh Chakra barti</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ac123 @iisc. ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>08022 36430 6</td> </tr> </table>	Facility Incharge Name	Prof Amare sh Chakra barti	Facility Incharge Email	ac123 @iisc. ac.in	Facility Incharge Phone	08022 36430 6	4	Yes	No	Yes
Facility Incharge Name	Prof Amare sh Chakra barti														
Facility Incharge Email	ac123 @iisc. ac.in														
Facility Incharge Phone	08022 36430 6														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Funding Agency		DHI			Govt. Agency (Central)		250000000								

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?
------	--	-----------------------	--	---	------------------	---	--	---	---

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

1	Intellectual Property and Technology Licensing	2004	Pre-Incubation, Incubation Unit, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Prof. Suryasarathi Bose	8	Yes	Yes		No
					Facility Incharge Email	chair.ip tel@iisc.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	0	
					Facility Incharge Phone	08022 93340 7			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	165000	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	

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

Srno	Name of the Faculty	Designation of the Faculty	Mentor Expert Area	Years of Experience in Mentorship (In Years)
1	Prof Manish Arora	Asst Prof	Entrepreneurship/Startup Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Maitra MedTech Pvt Ltd	Within	U33100KA2019PTC130616	
	-	Within	U33119KA2019PTC130593	
2	Dr. Dibakar Sen	Professor	Entrepreneurship/Startup Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Grasp Bionics Pvt Ltd	Within	U29190KA2019PTC122063	
3	Dr. Charlie Ooman	Chief Research Scientist	Entrepreneurship/Startup Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Bellatrix Aerospace	Within	U35300KA2015PTC078701	
4	Dr Savitri HS	Emeritus Professor	Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Azooka LifeScience	Within	U24233KA2016PTC086162	
5	Pratikash Panda	Professor	Entrepreneurship/Startup Development	5

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

		Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
		Digantara Research and Technologies	Within	U85100KA2019PTC130540
6	Prasanta Ghosh	Professor	Entrepreneurship/Startup Development	5
			Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI
		AI Health Highway Pvt Ltd	Within	U33110KA2019PTC128227

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

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship
1	V. Ramanathan	Idea/Innovation Development	Unstructured Mentorship
2	Dr. CV Natraj	Idea/Innovation Development	Unstructured Mentorship
3	Retd. Cmde. PK Chaudhary (VSM)	Idea/Innovation Development	Unstructured Mentorship
4	Dr. Madhu Atrey	Idea/Innovation Development	Unstructured Mentorship

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

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019
1	Design of Next Generation Noise And Vibration Sensor Fusion Module	Product Innovation	Technological	MSME Centre of Excellence (Dept of Electronic Systems Engineering)	External to the Institute/Incubatee	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Completed	No	No	Grant Amount in Rs 1333074	No	No



4	Soft Switched Multilevel Unidirectional High Frequency Link DC to AC Converter for Medium Voltage Grid Integration of Solar Photovoltaics	Product Innovation	Technological	Electrical Engineering	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Completed	No	No	No	No	No
Name		Type			Gender		Email		Contact				
Mr. Manmohan Mahapatra		Student			Male		manmohanm@iisc.ac.in		802293236				
5	Development of Synchro-Phasor Algorithms on Parallella - A Credit Card Sized Super Computer	Product Innovation	Technological	Electrical Engineering	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Completed	No	No	No	No	No
Name		Type			Gender		Email		Contact				
Mr. Puneet Kumar		Student			Male		puneetk@iisc.ac.in		802293236				
6	Density stratified thermal energy storage system and the associated fluid dynamic perturbations	Product Innovation	Technological	Interdisciplinary Centre for Energy Research	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Completed	No	No	No	No	No

Name		Type							Gender			Email		Contact								
S, Advait		Student							Male			advait@s@iisc.ac.in		08022933521								
7	ON LEVERAGING DYNAMIC PROCESSES IN LARGE SOCIAL NETWORKS FOR SMART CITIES	Product Innovation	Technological	Supercomputer Education and Research Centre	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Completed	No	No	No	No		No								
Name		Type							Gender			Email		Contact								
Kolli, Naimisha		Student							Female			naimishak@iisc.ac.in		08023600492								
8	ENDOSCOPY TRAINING SIMULATOR	Product Innovation	Technological	Design Innovation Centre @ IISc	Student-Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	Yes	780000		<table border="1"> <tr> <td>Loan/Investment Agency Name</td> <td>Indian Angel Network, 92 Angels Network</td> </tr> <tr> <td>Agency Type</td> <td>Non-Govt. Agencies</td> </tr> <tr> <td>Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)</td> <td>2000000</td> </tr> <tr> <td>Date of Investment Raised</td> <td>01-03-2020</td> </tr> </table>	Loan/Investment Agency Name	Indian Angel Network, 92 Angels Network	Agency Type	Non-Govt. Agencies	Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	2000000	Date of Investment Raised	01-03-2020	No
Loan/Investment Agency Name	Indian Angel Network, 92 Angels Network																					
Agency Type	Non-Govt. Agencies																					
Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	2000000																					
Date of Investment Raised	01-03-2020																					
Name		Type							Gender			Email		Contact								
Shanthanu Chakravarthy		Faculty and Student							Male			shanthanu@mimyk.com		9482083704								
Name		Type							Gender			Email		Contact								
Raghu Menon, Nithin S		Incubatee Entrepreneur							Male			raghu@mimyk.com		9902335681								

9	SLEEPSENSE	Product Innovation	Technological	Design Innovation Centre @ IISc	Alumni	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email			Contact			
Yogesh Kumar Baghel		Alumni Entrepreneur			Male		byogiiisc@gmail.com			9820847610			
10	COCOON – SMART SLEEP SYSTEM	Product Innovation	Technological	Design Innovation Centre @ IISc	Alumni	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email			Contact			
Yogesh Kumar Baghel		Alumni Entrepreneur			Male		byogiiisc@gmail.com			9820847610			



11	Contactless baby monitoring	Product Innovation	Technological	Design Innovation Centre @ IISc	Alumni	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	Agency Name	National Bio Entrepreneurship Competition 2019	No	No	No	No		
									Agency Type	Govt. Agency (Central)						
									Award / Position / Recognition Secured	Shortlisted for regional round						
Name																
Type																
Gender																
Email																
Contact																
Yogesh Kumar Baghel					Alumni Entrepreneur				Male			byogiiisc@gmail.com			9820847610	
12	WIRE STRIPPER	Product Innovation	Technological	Design Innovation Centre @ IISc	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 0 : Idea. Unproven concept, no testing has been performed.	Innovation Development Dropped	No	No	Grant Amount in Rs	240000	No	No		
Name																
Type																
Gender																
Email																
Contact																
Manish Arora					Faculty				Male			marora@iisc.ac.in			9980836174	
Name																
Type																
Gender																
Email																
Contact																
Chetan C.N.					Incubatee Entrepreneur				Male			sms2chethan@gmail.com			9900551746	

13	OPTO-ELECTRONIC SYSTEM FOR INFUSION MONITORING	Product Innovation	Technological	Design Innovation Centre @ IISc	Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No		
Name		Type			Gender		Email			Contact					
Manish Arora		Faculty			Male		marora@iisc.ac.in			9980836174					
Name		Type			Gender		Email			Contact					
-		Staff			Female		kavyashreev@iisc.ac.in			9902580735					
14	LIFEBOX	Product Innovation	Technological	Design Innovation Centre @ IISc	Student-Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name Inno Health conference 2018	Agency Type Not-Govt. Agencies	Award / Position / Recognition Secured First prize in Young Innovators Award 2018	No	6725937	No	No
Name		Type			Gender		Email			Contact					
B. Gurumoorthy		Faculty and Student			Male		bgm@iisc.ac.in			9972528596					
Name		Type			Gender		Email			Contact					
Deval Karia		Faculty and Student			Male		devalkaria@iisc.ac.in			7019984929					

15	KiX – A micro-mobility device	Product Innovation	Technological	Design Innovation Centre @ IISc	Alumni	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	Startup Karnataka Elevate 2020	Yes	Grant Amount in Rs	271164	No	No
									Agency Type	Govt. Agency (State)					
									Award / Position / Recognition Secured	Runner-up					

Name	Type	Gender	Email	Contact
Kithir Kareeb Nawaz	Incubatee Entrepreneur	Male	navaz@kix.bike	8939107666

Name	Type	Gender	Email	Contact
Venkatesh K Logasrinivasan	Alumni Entrepreneur	Male	venkatesh@kix.bike	9843698409

16	MUTI-UTILITY FARM MACHINE	Product Innovation	Technological	Design Innovation Centre @ IISc	Student-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	No	No	No
----	---------------------------	--------------------	---------------	---------------------------------	-----------------	---	---	--------------------------------	----	----	----	----	----	----

Name	Type	Gender	Email	Contact
Karamjeet	Incubatee Entrepreneur	Male	karamjeets@iisc.ac.in	9463312144

Name	Type	Gender	Email	Contact
Prof. Satish Vasu Kailas	Faculty	Male	satish.kailas@gmail.com	9845080657

17	Critical-care Training Simulator	Product Innovation	Technological	Design Innovation Centre @ IISc	Student-Faculty	TRL 9 : Full commercial application, technology available for consumers.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	No	Yes	No	No	No
Name		Type		Gender		Email		Contact					
Pavan Sridharan		Incubatee Entrepreneur		Male		pavansridharan@gmail.com		9845459404					
Name		Type		Gender		Email		Contact					
SREEKANTH NIDDODI NAYAK		Incubatee Entrepreneur		Male		nsreekanthnayak@gmail.com		9481273240					

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

Srno	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs during the financial period 2019-20?	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Venture establishment during the financial period 2019-20	Had the venture/startup raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from venture/startup for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019-20	Has the Startup Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20
------	--	--	----------------------	--	--------------------	-----------------------	----------------------	--	--	---	--	--	---

1	Digantara Research and Technologies	Product Innovation	Technological	198	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	U74999UR2018PTC009322	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	1250000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Anirudh Sharma		8309150		Innovator/Entrepreneur External to Institute		Male		anirudh.sharma@digantara.co.in		7973276269					
Rahul Rawat		-		Innovator/Entrepreneur External to Institute		Male		rahul.rawat@digantara.co.in		9877546060					
Rahul Rawat		-		Innovator/Entrepreneur External to Institute		Male		rahul.rawat@digantara.co.in		9877546060					
2	Nuthan Labs	Product Innovation	Technological	198	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	000	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	3000000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
H.S. Nuthan		1		Innovator/Entrepreneur External to Institute		Male		office@sid.iisc.ac.in		12303					
3	HealthSeq Precision Medicine	Product Innovation	Technological	198	Faculty	Venture with Corporate Identification Number (CIN) Registration	U85100KA2019PTC130540	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Nagasuma Chandra		7707865		Faculty		Female		nchandra@iisc.ac.in		9845783140					
Dr. Satish Chandra		-		Faculty		Male		-		9845908205					
Dr. Satish Chandra		-		Faculty		Male		-		9845908205					
4	Maithra MedTech Technology	Product Innovation	Technological	198	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	0	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Leena Kunnath		0		Innovator/Entrepreneur External to Institute		Female		aaa@gmail.com		123					

5	NeulIntegrals MedTech	Product Innovation	Technological	198	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	0	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No		
Name		DIN number		Type		Gender		Email		Contact					
Manoj Kumar R		1		Innovator/Entrepreneur External to Institute		Male		aaa@gmail.com		124					
Pramod S N		1		Innovator/Entrepreneur External to Institute		Male		aaa@gmail.com		124					
Pramod S N		1		Innovator/Entrepreneur External to Institute		Male		aaa@gmail.com		124					
6	AI Health Highway	Product Innovation	Technological	198	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	U33110KA2019PTC128227	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	1250000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Dr. Satish J		7067732		Innovator/Entrepreneur External to Institute		Male		satish.sj@aihighway.org		9480490148					
Radhakrishna Jamadagni		-		-		-		-		-					
Radhakrishna Jamadagni		-		-		-		-		-					
7	Direct Electric	Product Innovation	Technological	198	Student	Venture with Corporate Identification Number (CIN) Registration	U31100KA2018PTC113506	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	1250000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Anil Adapa		8144592		Student		Male		anila@alum.iisc.ac.in		9632150953					
Chaitanya M		-		Student		Female		-		-					
Chaitanya M		-		Student		Female		-		-					
8	Polymage Labs	Product Innovation	Technological	198	Faculty	Venture with Corporate Identification Number (CIN) Registration	U74999KA2017PTC108449	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	1250000	No	No	No

Name		DIN number		Type		Gender		Email		Contact					
Uday Reddy		7928086		Faculty		Male		uday@polymagelabs.com		9482888228					
9	Grasp Bionics	Product Innovation	Techno logical	198	Student	Venture with Corporate Identification Number (CIN) Registration	U29190KA2019PTC122063	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	1250000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Nilesh		8378926		Student		Male		nilesh2885@gmail.com		9535145516					
Vinay		-		Student		Male		-		9535146004					
Vinay		-		Student		Male		-		9535146004					

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

Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership	Date of MOU / Agreement Signed on
1	Atal Innovation Mission	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation,Mentoring,Seed fund	9	01-03-2019
2	MeiTY TIDE	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation,Mentoring,Seed fund	3	01-10-2019
3	iDex	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation,Mentoring,Seed fund	2	01-03-2019
4	Honeywell	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring,Seed fund	1	01-09-2019
5	NLC	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring,Seed fund	0	01-08-2019
6	TCS-Innovation	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	1	01-06-2019
7	Boeing	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	0	01-07-2020
8	Robert Bosch	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring,Seed fund	0	01-11-2020
9	NIDHI PRAYAS	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	10	01-12-2020
10	WIPRO-DHI	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Pre-incubation	10	01-12-2020

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

**No Data Filled!**

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

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	A SYSTEM AND METHOD FOR DETERMINATION OF POWER LAW CREEP PARAMETERS FROM A SINGLE BENDING TEST	201941028031	National	2019 - 07	Uploaded
2	A Portable And Self-Powered Device And A System For Obstacle Identification And Removal	PCTIN20190505	International	2019 - 08	Uploaded
3	IN-VITRO PROCESSES FOR SCREENING CANDIDATE MOLECULES, AND IMPLEMENTATIONS THEREOF	201941012695	National	2020 - 03	Uploaded
4	IN-VITRO PROCESSES FOR SCREENING CANDIDATE MOLECULES, AND IMPLEMENTATIONS THEREOF	PCTIN20200502	International	2020 - 03	Uploaded
5	PORTABLE ANALYZERS FOR IN-SITU TESTING OF COCONUT OIL DEGRADATION DURING STORAGE	201941037498	National	2019 - 09	Uploaded
6	MAGNETICALLY AUGMENTED PLASMONIC TWEEZERS	18850510.1(EP	International	2020 - 03	Uploaded
7	A DENTAL IMPLANT ASSEMBLY	PCTIB20200517	International	2020 - 02	Uploaded
8	High Electron Mobility Transistor with Improved Performance and Linearity	201941052639	National	2019 - 12	Uploaded
9	Quantification Of Concentration Of A Component In A Sample Fluid	PCTIN20190505	International	2019 - 07	Uploaded
10	A Multi-Dimensional Micro Fluid Focusing Device	2017328510(AU	International	2019 - 04	Uploaded
11	A Multi-Dimensional Micro Fluid Focusing Device	BR11201901324	International	2019 - 06	Uploaded
12	SINGLE TANK THERMOCLINE BASED OPTICALLY ACCESSIBLE THERMAL ENERGY STORAGE LOOP	201941011495	National	2020 - 03	Uploaded
13	A NOVEL DENTAL IMPLANT SYSTEM FOR IMPROVED OSSEOINTEGRATION	201841032295	National	2020 - 02	Uploaded
14	Method and system for 3D imaging of intracellular imaging of biological cells	201941035653	National	2019 - 09	Uploaded
15	MAGNETICALLY AUGMENTED PLASMONIC TWEEZERS	16/643,430(US	International	2020 - 02	Uploaded
16	An Optimised Method for Production of Silicon Carbide	201941052357	National	2019 - 12	Uploaded
17	System and Method for Monitoring Cognitive Load of a Driver of a Vehicle	201941052358	National	2019 - 12	Uploaded
18	A Multi-Dimensional Micro Fluid Focusing Device	752392	International	2019 - 04	Uploaded
19	A Microwave-Assisted Device, System and Method for Deposition of Thin Films and Coatings	201941044241	National	2019 - 10	Uploaded
20	Stacked Buffer in Transistors	PCTIN20190508	International	2019 - 12	Uploaded



21	IN-SITU ETCHING PROCESS	201941035653	National	2019 - 09	Uploaded
22	A COMPOUND WITH IMPROVED PHOTOSTABILITY UNDER SUNLIGHT	202041014450	National	2020 - 03	Uploaded
23	Device and Method for Enhancing Readability of a Low-Resolution Binary Image	PCTIB20190588	International	2019 - 11	Uploaded
24	A Data Acquisition System and A Method of Acquiring Data for Reconstruction of MRI Images	PCTIB20190567	International	2019 - 08	Uploaded
25	A Modular Soft-switched Capacitively Level Shifted Fast Voltage Equalizer Circuit for Batteries and Ultra-capacitors	201841027652	National	2019 - 07	Uploaded
26	A Compliant Mechanism For Simulating Endoscopy	16/525,968(US	International	2019 - 07	Uploaded
27	ASSEMBLY FOR MULTIPLEX COLORIMETRIC DETECTION	201941050516	National	2019 - 12	Uploaded
28	Opto-Mechanical Production of Nanosheets from Layered Materials	PCTIN20200500	International	2020 - 01	Uploaded
29	OPTO-MECHANICAL PRODUCTION OF NANOSHEETS FROM LAYERED MATERIALS	201941000526	National	2020 - 01	Uploaded
30	ELECTROCHEMICAL MEASUREMENT OF CREATININE IN SERUM	201941007991	National	2020 - 02	Uploaded
31	CHARGE-BASED METHODS FOR STUDYING A BIOCHEMICAL MICRO-ENVIRONMENT	201941042707	National	2019 - 10	Uploaded
32	High Electron Mobility Transistor (HEMT) with RESURF Junction	16/629,156(US	International	2020 - 01	Uploaded
33	CONTROLLING ELECTRICAL DEVICES	P6001599/19	International	2019 - 11	Uploaded
34	HOLLOW MICRONEEDLE DEVICE	201941050005	National	2019 - 12	Uploaded
35	DEVICE FOR MEASUREMENT OF CERVICAL DILATATION	201941020965	National	2019 - 05	Uploaded
36	PORTABLE ANALYZERS FOR IN-SITU TESTING OF COCONUT OIL DEGRADATION DURING STORAGE	201941037498	National	2020 - 02	Uploaded
37	MASTER MOLD ASSEMBLY FOR FABRICATION OF MICRONEEDLES	201941019470	National	2020 - 01	Uploaded
38	Semiconductor Nanocrystals	18790972.6(EP	International	2019 - 11	Uploaded
39	Semiconductor Nanocrystals	16/609,125(US	International	2019 - 10	Uploaded
40	IN-VITRO PROCESSES FOR SCREENING CANDIDATE MOLECULES, AND IMPLEMENTATIONS THEREOF	201941012695	National	2020 - 03	Uploaded
41	Mapping Protein Binding Sites And Conformational Epitopes Using Cysteine Labelling And Surface Display Library	16/467,229(US	International	2019 - 06	Uploaded
42	PROCESS OF INDUCING TRANSLATIONAL READTHROUGH ACROSS PRE-MATURE STOP CODON	202041000899	National	2020 - 01	Uploaded
43	System for Precision Power Amplification	201941003158	National	2020 - 02	Uploaded

44	System and Method for Control of Switched Reluctance Machine in a Voltage Pulse Mode	201941004038	National	2020 - 02	Uploaded
45	Nanocrystalline Spinel-Type Compounds with Local Non-Cubic Spinel Structures and Process Thereof	202041000806	National	2020 - 01	Uploaded
46	A System And Method For Determination Of Power Law Creep Parameters From A Single Bending Test	201941028031	National	2019 - 07	Uploaded
47	Low Resistance Nanostructured Electrical Conductors	201941018926	National	2019 - 05	Uploaded
48	Non-Aqueous Redox Flow Battery with Diketopyrroprrole Derivative Based Redox Active Electrolyte	201941039240	National	2019 - 09	Uploaded
49	A Gate Driver with Bipolar Bootstrap Capability	202047004131	National	2020 - 01	Uploaded
50	A Memory Device Comprising Aluminium Oxide Phosphate with Tunable Traps and Method Thereof	201947035701	National	2019 - 09	Uploaded
51	System and Interrogator for Fiber-Bragg Rating Sensor Interrogation	PCTIB20190598	National	2019 - 11	Uploaded
52	System and Method for Providing and Designing Ultimated Dynamic Range Analogue-to-Digital Conversion	PCTIB20190600	International	2019 - 11	Uploaded
53	An Optical Nano-Manipulator for Particles in a Fluid	201841042881	National	2019 - 11	Uploaded
54	An Optical Nano-Manipulator for Particles in a Fluid	PCTIB20190597	International	2019 - 11	Uploaded
55	System for Operating Joystick	201941044740	National	2019 - 11	Uploaded
56	A Method for Detection of Minute Virus of Mice and Kit Thereof	201841039415	National	2019 - 10	Uploaded
57	Highly Sensitive Reduced Graphene Oxide-Nickel Composite Based Cryogenic Temperature Sensor	16/520,449(US	International	2019 - 07	Uploaded
58	A Method for Detection of Lepthospora Interrogans Ictherohaemorrhagiae	201841039331	National	2019 - 10	Uploaded
59	A Method for Detection of Mycoplasma Pulmonis Infection in Mice and Kit Thereof	201841039319	National	2019 - 10	Uploaded
60	Unlimited dynamic range ADC architectures	201841044116	National	2019 - 11	Uploaded
61	A Method for Detection of Sendai Virus infection in Rats and Kit Thereof	201841039203	National	2019 - 10	Uploaded
62	A Method for Detection of Mouse Hepatitis Virus and Kit Thereof	201841039217	National	2019 - 10	Uploaded
63	System and Interrogator for Fiber-Bragg Grating Sensor Interrogation	201841043102	National	2019 - 11	Uploaded
64	A Method for Detection of Rat Parvo Virus and Kit Thereof	201841039190	National	2019 - 10	Uploaded
65	Method of Synthesis of Metal Nanoparticles with Reusable, Solid State Reducing Agent	201941043597	National	2019 - 10	Uploaded

66	System and Apparatus for Training Design Thinking	201941048944	National	2019 - 11	Uploaded
67	System and Method for Protection Against Side Channel Attacks	201941045663	National	2019 - 11	NA
68	Solid State Batteries with Electrode - Electrolyte Interlayers	201941039023	National	2019 - 09	Uploaded
69	Thin Film Electronics on Isomalt	201941018905	National	2019 - 05	Uploaded
70	A System for Main-Machine Interaction in Vehicles	PCTIB20200502	International	2020 - 01	Uploaded
71	A Teaching Apparatus for the Visually Impaired	201941003664	National	2020 - 01	Uploaded
72	High Power Printed Field Effect Transistors (FET)	PCTIB20200513	International	2020 - 02	Uploaded
73	High Power Powder Printed Field Effect Transistors (FET)	201941006505	National	2020 - 02	Uploaded
74	An Integrated Hearing Aid System to Assist and Monitor Home Based Speech Therapy	201841039614	National	2020 - 01	Uploaded
75	Preparation of Thermally Stable In-Situ Polymer Derived Metal Matrix Composites by Friction Stir Processing	201943052360	National	2019 - 12	Uploaded
76	A Device And Method For Enhanced Poration Of Biological Cells	201841028652	National	2019 - 07	Uploaded
77	A Flexible,Adaptive Neuromorphic Synaptic Chip	201941028863	National	2019 - 07	Uploaded
78	A Device And Method For Enhanced Poration Of Biological Cells	PCTIB20190552	International	2019 - 06	Uploaded
79	An Apparatus To Maintain Temperature Of An Object	PCTIB20190531	International	2019 - 04	Uploaded
80	Device For Tuning Laser Output	201841016649	National	2019 - 04	Uploaded
81	ELECTROCHEMICAL MEASUREMENT OF CREATININE IN SERUM	16/802,179(US	International	2020 - 02	NA
82	Integrated Electrostatic Discharge Protection Integrity and Electrodermal Activity Sensor	201941048050	National	2019 - 11	Uploaded
83	System and Method for Searching Sparse Neural Networks with Applications to Navigation in GPS Denied Environments	201941034552	National	2019 - 08	NA