



# 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: INSTITUTE OF AERONAUTICAL ENGINEERING [ARI-C-19706]

### 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	IARE - Research and Development Center	Research Unit / Park	Engineering and Technology	UG / PG / PhD	Technical	2270	10	2
2	IARE - Science and Technology Start-up Park	Incubation Unit	Smart manufacturing	UG / PG / PhD	Technical	44	3	2
3	IARE - Technology Innovation and Incubation Center	Pre-incubation unit	Smart manufacturing, Engineering	UG / PG / PhD	Technical	35	2	2
4	IARE - Makers Space for Smart Manufacturing	Industry Institute Interface Unit	Smart manufacturing	UG / PG / PhD	Technical	82	4	4
5	IARE - IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Engineering and Technology	UG / PG / PhD	Technical	8	1	1
6	Computer Science and Engineering	Academic Department with lab facility	Computer Science	UG / PG / PhD	Technical	1008	56	12
7	Information Technology	Academic Department with lab facility	Information technology	UG / PG / PhD	Technical	408	23	7
8	Electronics and Communication Engineering	Academic Department with lab facility	Electronics and Communication	UG / PG / PhD	Technical	1021	53	8
9	Electrical and Electronics Engineering	Academic Department with lab facility	Electrical and Electronics	UG / PG / PhD	Technical	417	30	8
10	Mechanical Engineering	Academic Department with lab facility	Mechanical	UG / PG / PhD	Technical	483	31	9
11	Civil Engineering	Academic Department with lab facility	Civil	UG / PG / PhD	Technical	510	30	3
12	Aeronautical Engineering	Academic Department with lab facility	Avionics	UG / PG / PhD	Technical	512	25	10
13	Master of Business Administration	Academic Department with lab facility	Management	UG / PG / PhD	Technical	105	13	2

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

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201810772
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	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 / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?		Did any of the participants received any awards/recognition for startup / innovation ideas / research?	
															Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No	
1	Entrepreneurship awareness camp	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Science and Technology Start-up Park	24-02-2020 00:00:00	26-02-2020 00:00:00	3	Within Campus	70	0	0	0	70	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No	
2	Awareness Program on Rural Innovations	Innovation	Awareness	Institute Lead Activity	Electrical and Electronics Engineering Department	07-11-2019 00:00:00	07-11-2019 00:00:00	1	Within Campus	120	24	0	0	144	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	Award / Position / Recognition Secured	Best Innovation
																Title of Innovation / Start-up Secured the Award / Recognition	Blinds Apron	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
3	24 Hours Hackathon	Innovation	Hackathon	Institute Lead Activity	Computer Science and Engineering	09-04-2019 00:00:00	09-04-2019 00:00:00	1	Within Campus	180	0	0	0	180	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No	

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

4	Codechef Long Challenge	Innovation	Innovation Contest	Institute Lead Activity	Skill Development Centre	10-04-2019 00:00:00	10-04-2019 00:00:00	1	Within Campus	250	0	0	0	250	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No
5	Sustainable Composite Materials for Emerging Solar Energy Technologies	Innovation	Training	Institute Lead Activity	Electrical and Electronics Engineering	05-08-2019 00:00:00	15-08-2019 00:00:00	11	Within Campus	40	12	23	5	80	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	272600	No
6	innovations in engineering sciences a brief on chadrayan - II	Innovation	Motivational speak	Institute Lead Activity	Mechanical Engineering	22-08-2019 00:00:00	22-08-2019 00:00:00	1	Within Campus	60	15	25	10	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	12000	No
7	Design Thinking	Innovation	Workshop	Institute Lead Activity	Technology Innovation and Incubation Centre	03-06-2019 00:00:00	05-06-2019 00:00:00	3	Within Campus	80	15	15	5	115	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No
8	Converting ideas to products - design using Python - Workshop	Innovation	Training	Institute Lead Activity	Computer Science and Engineering	09-10-2019 00:00:00	11-10-2019 00:00:00	3	Within Campus	65	10	30	5	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
9	Artificial Intelligence Based Product Design Techniques	Innovation	Training	Institute Lead Activity	Computer Science and Engineering	23-10-2019 00:00:00	24-10-2019 00:00:00	2	Within Campus	90	20	0	0	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
10	Design of RC Aircraft	Innovation	Workshop	Institute Lead Activity	Aerospace Reserach Development Centre	25-11-2019 00:00:00	27-11-2019 00:00:00	3	Within Campus	40	10	30	5	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No

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

11	3D Printing Technology	Innovation	Seminar	Institute Lead Activity	Makers Space	07-10-2019 00:00:00	07-10-2019 00:00:00	1	Within Campus	60	40	0	0	100	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
12	Basics of Intellectual Property	IPR	Awareness	Institute Lead Activity	IP Facilitation Centre	20-01-2020 00:00:00	20-01-2020 00:00:00	1	Within Campus	45	7	0	0	52	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
13	Indian Patents Regime	IPR	Awareness	Institute Lead Activity	IP Facilitation Centre	24-01-2020 00:00:00	24-01-2020 00:00:00	1	Within Campus	60	20	15	7	102	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
14	Intellectual Property Rights-Drafting and Filing	IPR, Entrepreneurship/Startup	Workshop	Institute Lead Activity	IP Facilitation Centre	16-09-2019 00:00:00	18-09-2019 00:00:00	3	Within Campus	40	20	15	10	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
15	Design Thinking and Creativity for Innovators	Innovation	Seminar	Institute Lead Activity	Technology Innovation and Incubation Centre	12-11-2019 00:00:00	12-11-2019 00:00:00	1	Within Campus	65	20	20	5	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
16	Impact Lecture on Innovation Startup and Intellectual Property	Entrepreneurship/Startup, Innovation	Seminar	Institute Lead Activity	Science and Technology Startup Park	14-03-2020 00:00:00	14-03-2020 00:00:00	1	Within Campus	65	20	0	0	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	No

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

17	Consortium 2019	Innovation	Exhibition	Institute Lead Activity	Skill Development Centre	26-09-2019 00:00:00	27-09-2019 00:00:00	2	Within Campus	170	0	40	0	210	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	120000	Award / Position / Recognition Secured	Best Innovation Model
																	Title of Innovation / Start-up Secured the Award / Recognition	Blinds Apron
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
18	Brainstorming session of Innovators	Innovation	Workshop	Institute Lead Activity	Science and Technology Start-up Park	04-11-2019 00:00:00	04-11-2019 00:00:00	1	Within Campus	120	2	0	0	122	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	7000	No	
19	Artificial Intelligence Virtual Lab Workshop	Innovation	Workshop	Institute Lead Activity	Science and Technology Start-up Park	21-10-2019 00:00:00	21-10-2019 00:00:00	1	Within Campus	120	2	0	0	122	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No	
20	A view on Management of Intellectual Property Rights	IPR	Awareness	Institute Lead Activity	Science and Technology Start-up Park	06-11-2019 00:00:00	06-11-2019 00:00:00	1	Within Campus	120	2	0	0	122	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No	
21	Product Design and Development	Innovation	Workshop	Institute Lead Activity	Science and Technology Start-up Park	30-10-2019 00:00:00	30-10-2019 00:00:00	1	Within Campus	120	2	0	0	122	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No	
22	Virtual Reality Flight simulator	Innovation	Workshop	Institute Lead Activity	Science and Technology Start-up Park	16-11-2019 00:00:00	16-11-2019 00:00:00	1	Within Campus	120	2	0	0	122	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	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	Program Theme	Program Type	Organizing Agency	Organizing Agency	Program Start	Program End Date	Program Duration(i)	Participants	Participants	Total Number	Awards/R ecognitio	Award / Position /	Title of Innovatio	Had institute spent expenses either from own resource/	Did any of the participants received any awards/recognition
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**Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

	(Full Name)		/ Institute Name	Type	Date	n Days)	(Students )	(Faculty)	of Participants	ns/Achievements	Recognition Secured	n / Start-up Secured the Award / Recognition	received fund towards sending delegation to participate / represent the activity /event?	for startup / innovation ideas / research				
1	Boeing Aeromodelling Competition	Innovation	Innovation Contest	Indian Institute of Technology Kharagpur	Educational Institute	03-06-2019 00:00:00	03-06-2019 00:00:00	1	7	2	9	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	30000	No	
2	Workshop on Innovative Design and Manufacturing Education	Innovation	Workshop	Indian Institute of Information Technology design and manufacturing, Kancheepuram	Educational Institute	17-06-2019 00:00:00	21-06-2019 00:00:00	5	2	2	4	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	12000	No	
3	SAE Aero Design Challenge 2019-Micro Class Aircraft	Innovation	Innovation Contest	SRM Institute of Technology	Educational Institute	19-07-2019 00:00:00	21-07-2019 00:00:00	3	6	2	8	Yes	Overall Ranking	IARE Lakshya	Total Expense Amount Incurred by Institute? (In Rupees)	50000	Award / Position / Recognition Secured	Overall Ranking
																	Title of Innovation / Start-up Secured the Award / Recognition	IARE Lakshya
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
4	SUPRA - 2019 Buddha International Circuits	Innovation	Innovation Contest	Buddha International circuit, Uttar Pradesh	Corporate / Industry Association	11-07-2019 00:00:00	20-07-2019 00:00:00	10	1	0	1	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	40000	No	
5	Regional MSME Convention	Entrepreneurship/Startup	Seminar	Indo-American Chambers of Commerce and MSME	Corporate / Industry Association	11-07-2019 00:00:00	20-07-2019 00:00:00	10	0	14	14	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	20000	No	

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6	Abdul Kalam Conference Chennai - IIT Madras	Innovation	Conference	Indian institute of Technology Madras	Educational Institute	11-06-2019 00:00:00	14-06-2019 00:00:00	4	0	4	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	30000	No
7	FDP- Research Methodology and IPR UGC HRDC JNTUH	IPR	Seminar	JNTU Hyderabad	Educational Institute	09-08-2019 00:00:00	09-08-2019 00:00:00	1	0	1	1	No	---	---	No		No
8	MSME Technical Seminar	Entrepreneurship/Startup	Seminar	MSME, Hyderabad	Govt. Agency (Central)	02-08-2019 00:00:00	05-08-2019 00:00:00	4	0	1	1	No	---	---	No		No
9	Entrepreneurship Development Program	Entrepreneurship/Startup	Training	MLR Institute of Technology, Hyderabad	Govt. Agency (Central)	06-02-2020 00:00:00	07-02-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
10	Pre-Incubation and Incubation Management	Innovation	Training	MLR Institute of Technology, Hyderabad	Govt. Agency (Central)	06-02-2020 00:00:00	07-02-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
11	IPR and Technology Transfer	IPR	Training	MLR Institute of Technology, Hyderabad	Govt. Agency (Central)	06-02-2020 00:00:00	07-02-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
12	Design Thinking	Innovation	Training	MLR Institute of Technology, Hyderabad	Govt. Agency (Central)	06-02-2020 00:00:00	07-02-2020 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	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**

13	Aero Design Challenge 2020 Advanced Class	Innovation	Innovation Contest	SAE International	International Agencies	05-03-2020 00:00:00	07-03-2020 00:00:00	3	6	1	7	Yes	Overall Ranking	IARE Astra	Total Total Expense Amount Incurred by Institute? (In Rupees)	130000	Award / Position / Recognition Secured	Overall Ranking
																	Title of Innovation / Start-up Secured the Award / Recognition	IARE Astra
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
14	SAE Aero Design Challenge 2019-Regular Class Aircraft	Innovation	Innovation Contest	SRM Institute of Technology Chennai	Educational Institute	19-07-2019 00:00:00	21-07-2019 00:00:00	3	6	2	8	Yes	Best Innovation	IARE Abhyas	Total Total Expense Amount Incurred by Institute? (In Rupees)	35000	Award / Position / Recognition Secured	Best Innovation
																	Title of Innovation / Start-up Secured the Award / Recognition	IARE Abhyas
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
15	SAE Aero Design Challenge 2019-Micro Class Aircraft	Innovation	Innovation Contest	SRM institute of Technology Chennai	Educational Institute	19-07-2019 00:00:00	21-07-2019 00:00:00	3	6	2	8	Yes	Best Design Report	IARE Lakshya	Total Total Expense Amount Incurred by Institute? (In Rupees)	60500	Award / Position / Recognition Secured	Best Design Report
																	Title of Innovation / Start-up Secured the Award / Recognition	IARE Lakshya
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work



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

16	SAE Aero Design Challenge 2019-Micro Class Aircraft	Innovation	Innovation Contest	SRM Institute of Technology Chennai	Educational Institute	19-07-2019 00:00:00	21-07-2019 00:00:00	3	6	2	8	Yes	Best Technical Presentation	IARE Lakshya	Total Total Expense Amount Incurred by Institute? (In Rupees)	30000	Award / Position / Recognition Secured	Best Technical Presentation		
																	Title of Innovation / Start-up Secured the Award / Recognition	IARE Lakshya		
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work		

**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	Research and Content Development Laboratory	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	All Engineering Disciplines	22-07-2019	16-11-2019	118	Offline	1080	45
2	Ideation and Product Development	IPR, Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	All Engineering Disciplines	22-07-2019	16-11-2019	118	Offline	1080	48
3	Intellectual Property Rights	IPR, Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	All Engineering Disciplines	22-07-2019	12-11-2019	114	Offline	120	45
4	Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Entrepreneurship	22-07-2019	16-11-2019	118	Offline	400	45
5	Experiential Engineering Education - Academic Success	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	Technology Innovation and Incubation Centre	19-12-2019	18-04-2020	122	Offline	1081	54
6	Experiential Engineering Education- Fabrication and Model Development	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	Technology Innovation and Incubation Centre	22-07-2019	16-11-2019	118	Offline	1080	45
7	Rapid Prototyping	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	Mechanical Engineering	19-12-2019	18-04-2020	122	Offline	245	45
8	Virtual Reality	Innovation	Elective/Core Credit Course	Credit Course (Elective)	Information Tehcnology	22-07-2019	16-12-2019	148	Offline	125	45

**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)
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1	Start and Improve Your Business	Entrepreneurship/Startup	EDP in I&E / IPR	Science and Technology Start-up Park	02-01-2020	01-02-2020	31	Offline	36	150
2	Technology Entrepreneurship development program	Entrepreneurship/Startup	EDP in I&E / IPR	Science and Technology Start-up Park	03-02-2020	17-02-2020	15	Offline	22	132
3	Rapid Prototyping with Advanced Tools	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Technology Innovation and Incubation Centre	16-09-2019	21-09-2019	6	Offline	45	35
4	Industrial Internet of Things	Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	Electronics and Communication Engineering	09-12-2019	14-12-2019	6	Offline	80	35
5	Designing Solar Energy PV Systems	Innovation	Employment Generation Training Programs	Electrical and Electronics Engineering	10-02-2020	15-02-2020	6	Offline	45	36
6	Innovation by Design	Innovation	FDP in I&E / IPR	Technology Innovation and Incubation Centre	09-03-2020	13-03-2020	5	Offline	65	30
7	IPR Laws and Filing System	IPR	FDP in I&E / IPR	IP Facilitation Centre	09-12-2019	14-12-2019	6	Offline	65	36
8	Strategic Business Management	Entrepreneurship/Startup	MDP in I&E / IPR	Science and Technology Startup Park	16-09-2019	21-09-2019	6	Offline	75	36
9	Hands on Session on Autocad	Innovation	Employment Generation Training Programs	Makers Space	05-08-2019	10-08-2019	6	Offline	45	36
10	Management of Incubation Centres and Startups	Entrepreneurship/Startup	MDP in I&E / IPR	Science and Technology Startup Park	22-07-2019	27-07-2019	6	Offline	40	30
11	Design Develop and Deployment of Drones	Innovation	EDP in I&E / IPR	Aerospace Research Development Centre	02-03-2020	06-03-2020	5	Offline	40	30
12	PLC Based Industrial Automation	Innovation	Employment Generation Training Programs	Electrical and Electronics Engineering	04-11-2019	09-11-2019	6	Offline	30	30
13	Coding for Entrepreneurs	Entrepreneurship/Startup, Innovation	EDP in I&E / IPR	Computer Science and Engineering	02-09-2019	06-09-2019	5	Offline	65	30
14	Embedded Systems and IoT	Innovation	Employment Generation Training Programs	Electronics and Communication Engineering	24-02-2020	29-02-2020	6	Offline	65	36

**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
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1	MV Aditya Nag	IP Facilitation Centre	Assistant Professor	Yes	Highest degree name in I&E and IPR	Patent Law			
					Degree Type	Diploma			
					Year of Highest degree in I&E and IPR	2011			
Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery

**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	IARE Idea Club	Idea Club	2019	Work Stations	Innovation Park/Research Park	2	Sadanala Sai Rahul	rahulproject876@gmail.com	9154645928
2	IARE innovation and Start up Club	Startup Club	2019	3D Printing	Innovation Park/Research Park	1	R. Mohit Rao	rokkammohitrao@gmail.com	7032046126
3	Idea 2 Innovation Club	Innovation Club	2019	Co-working Space	Innovation Park/Research Park	1	Srikanth Konne	Konnesrikanth2001@gmail.com	9780592230
4	e- Designing and Marketing Club	Startup Club	2019	Work Stations	Incubation Unit	2	Nagaraja Abhishek	nagarajaabhishek204@gmail.com	7995738881
5	EV and Automation Club	Innovation Club	2019	Co-working Space,3D Printing	Innovation Labs	2	N Abhishek	nalliabhishek1501@gmail.com	9121263024
6	Aero Design Club	Innovation Club	2018	Co-working Space	Innovation Labs, Centre of Excellence with Advance Tools	3	Jayendra Rajanala	jayendrarajanala@gmail.com	9618325187
7	Microelectronics Club	Innovation Club	2018	Co-working Space	Centre of Excellence with Advance Tools	2	M Sai Ram	sairammojjada82@gmail.com	9553462716
8	Embedded Systems and IOT Club	Innovation Club	2019	Co-working Space	Incubation Unit, Innovation Labs	3	Ch. Aditya Sameer	adityasameersharma@gmail.com	9182326583
9	Clean and Sustainable Energy Club	Innovation Club	2018	Co-working Space	Innovation Labs	1	S Sai Rahul	rahulproject876@gmail.com	9154645928
10	IARE Boot Camp Club	Idea Club	2019	Co-working Space	Pre-Incubation Unit	2	R Mohit Rao	rokkammohitrao@gmail.com	7032046126
11	UAV Club	Idea Club	2020	Co-working Space	Pre-Incubation Unit	0	Jayendra Rajanala	jayendrarajanala@gmail.com	9618325187
12	Artificial Intelligence and Robotics Club	Innovation Club	2019	3D Printing	Incubation Unit	1	K Sai Sravan	mrsravan549@gmail.com	9000685265
13	Tinkering Club	Idea Club	2019	Co-working Space	Pre-Incubation Unit	2	V Mahidhar Reddy	v.mahidharreddy@iare.ac.in	8639313083

14	IPR Club	Startup Club	2020	Co-working Space	IPR Cell/Technology Transfer Centre	0	A Krishna Mohan	km9502744601@gmail.com	7680970148
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**Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

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?						
1	Makers Space for Smart Manufacturing	Maker's Space	2016	3D Printing & Prototype Equipment	Innovation Labs, Centre of Excellence with Advance Tools	Innovation Labs, Centre of Excellence with Advance Tools	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof V V S H Prasad</td> </tr> <tr> <td>Facility Incharge Email</td> <td>vvshprasad@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7093086402</td> </tr> </table>	Facility Incharge Name	Prof V V S H Prasad	Facility Incharge Email	vvshprasad@iare.ac.in	Facility Incharge Phone	7093086402	8	Yes	No	Yes
Facility Incharge Name	Prof V V S H Prasad																
Facility Incharge Email	vvshprasad@iare.ac.in																
Facility Incharge Phone	7093086402																
Source of Grant / Fund			Agency Name			Agency Type			Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)								
Institute's Own Fund / Resource			Institute of Aeronautical Engineering			Educational Institute			200000								

**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	Centre for Alternative Energy Resources	2019	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. K Hari Prasad</td> </tr> <tr> <td>Facility Incharge Email</td> <td>k.hariprasad@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7995725437</td> </tr> </table>	Facility Incharge Name	Dr. K Hari Prasad	Facility Incharge Email	k.hariprasad@iare.ac.in	Facility Incharge Phone	7995725437	2	Yes	No	Yes
Facility Incharge Name	Dr. K Hari Prasad														
Facility Incharge Email	k.hariprasad@iare.ac.in														
Facility Incharge Phone	7995725437														
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			Institute of Aeronautical Engineering			Educational Institute			20000						

**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	Centre for Automation and Robotics	2016	Innovation Labs		Facility Incharge Name	A Anuddep Kumar	4	Yes	No	Yes
					Facility Incharge Email	a.anuddep@iare.ac.in				
					Facility Incharge Phone	9347619084				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
3	Aerospace Research and Development Centre	2018	Incubation Unit, Innovation Labs		Facility Incharge Name	Dr. D Govardhan	3	Yes	No	Yes
					Facility Incharge Email	d.govardhan@iare.ac.in				
					Facility Incharge Phone	9948503909				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
4	Centre for Research in Sensor, Instrumentation & Cyber Physical Systems Engineering	2019	Innovation Labs		Facility Incharge Name	Dr.S Chinna Venkateswarlu	2	Yes	No	Yes
					Facility Incharge Email	c.venkateswarlu@iare.ac.in				
					Facility Incharge Phone	9502019135				
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		Institute of Aeronautical Engineering			Educational Institute		20000			

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

5	Centre for Research in Assistive Technologies	2019	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs		Facility Incharge Name	Dr. P Munaswamy	3	Yes	No	Yes
					Facility Incharge Email	p.munswamy@iare.ac.in				
					Facility Incharge Phone	9493042585				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
6	Centre for Advanced Material Testing	2018	Incubation Unit, IPR Cell/Technology Transfer Centre		Facility Incharge Name	Dr. J S R Prasad	2	Yes	No	Yes
					Facility Incharge Email	jsr.prasad@iare.ac.in				
					Facility Incharge Phone	9502684335				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
7	Centre for Soil Tetsing	2018	Incubation Unit, Student Clubs		Facility Incharge Name	R. Suresh Kumar	2	Yes	No	Yes
					Facility Incharge Email	sureshkumar@iare.ac.in				
					Facility Incharge Phone	9951024577				
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			

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

8	Centre for AI and Robotic Research	2020	Incubation Unit, Innovation Park/Research Park		Facility Incharge Name	Dr. M Madhu Bala	2	Yes	No	Yes
					Facility Incharge Email	m.madhubala@iare.ac.in				
					Facility Incharge Phone	98855 43778				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
9	Centre for Prototyping and Smart Manufacturing	2017	Pre-Incubation, Incubation Unit, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre		Facility Incharge Name	M Prashanth Reddy	2	Yes	No	Yes
					Facility Incharge Email	m.prashanthreddy@iare.ac.in				
					Facility Incharge Phone	94913 61147				
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		Institute of Aeronautical Engineering			Educational Institute		20000			
10	Centre for IoT and Embedded Systems Design	2019	Incubation Unit, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre		Facility Incharge Name	Dr. R Obulakonda Reddy	3	Yes	No	Yes
					Facility Incharge Email	r.obulakondareddy@iare.ac.in				
					Facility Incharge Phone	99665 52679				
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		Institute of Aeronautical Engineering			Educational Institute		20000			

**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	IARE - ASPIRE Technology Business Incubation Centre	2019	Pre-Incubation, Innovation Labs	MSME ASPIRE	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. J Sirisha Devi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>j.sirishadevi@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7093086402</td> </tr> </table>	Facility Incharge Name	Dr. J Sirisha Devi	Facility Incharge Email	j.sirishadevi@iare.ac.in	Facility Incharge Phone	7093086402	7	Yes	No	Yes
Facility Incharge Name	Dr. J Sirisha Devi														
Facility Incharge Email	j.sirishadevi@iare.ac.in														
Facility Incharge Phone	7093086402														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Funding Agency		Ministry of Micro Small and Medium Enterprises			Govt. Agency (Central)		2306000								
Institute's Own Fund / Resource		Institute of Aeronautical Engineering			Educational Institute		2306000								
2	IARE Secince and Technology Start-Up Park	2015	Innovation Park/Research Park		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>I. Shiree sha</td> </tr> <tr> <td>Facility Incharge Email</td> <td>i.shiree sha@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8790060284</td> </tr> </table>	Facility Incharge Name	I. Shiree sha	Facility Incharge Email	i.shiree sha@iare.ac.in	Facility Incharge Phone	8790060284	5	Yes	No	Yes
Facility Incharge Name	I. Shiree sha														
Facility Incharge Email	i.shiree sha@iare.ac.in														
Facility Incharge Phone	8790060284														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Institute's Own Fund / Resource		Institute of Aeronautical Engineering			Educational Institute		250000								

**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 HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength 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?
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**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

1	IARE - Technology Innovation and Incubation Centre	2016	Incubation Unit, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. M Pala Prasad reddy</td> </tr> <tr> <td>Facility Incharge Email</td> <td>p.prasadreddy@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94916 02701</td> </tr> </table>	Facility Incharge Name	Dr. M Pala Prasad reddy	Facility Incharge Email	p.prasadreddy@iare.ac.in	Facility Incharge Phone	94916 02701	23	Yes	No	Yes
Facility Incharge Name	Dr. M Pala Prasad reddy														
Facility Incharge Email	p.prasadreddy@iare.ac.in														
Facility Incharge Phone	94916 02701														
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)									
Institute's Own Fund / Resource		-		Educational Institute		1250500									

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	IARE IP Facilitation Centre	2016	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>M v Aditya Nag</td> </tr> <tr> <td>Facility Incharge Email</td> <td>mvaditya@iare.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>84648 43058</td> </tr> </table>	Facility Incharge Name	M v Aditya Nag	Facility Incharge Email	mvaditya@iare.ac.in	Facility Incharge Phone	84648 43058	2	Yes	No	Yes
Facility Incharge Name	M v Aditya Nag														
Facility Incharge Email	mvaditya@iare.ac.in														
Facility Incharge Phone	84648 43058														
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)									
Institute's Own Fund / Resource		Institute of Aeroanautical Engineering		Educational Institute		200000									

**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	KL Revathi	Assistant Professor	Entrepreneurship/Startup Development	3
Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI		CIN (in case it is Startup)
Eco Brick		Within		
2	Dr P Sridhar	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)
	Blinds Apron	Within	
3	MV Aditya Nag	Assistant Professor	IPR Protection & Commercialization
	8		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	AIREAL Automation Private Limited	Within	U32109TG2020PTC140350
	Greenphi Technologies Pvt. Ltd	Within	U52609CT2019PTC009735
	Stringfly Aerospace Pvt. Ltd.	Within	U32100TG2019PTC129148
4	Dr. M Madhubala	Professor	Idea/Innovation Development
	8		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Laser Stimulus Security System	Within	
5	Dr. Sudhir Sastry Y B	Professor	Idea/Innovation Development
	10		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Wind Powered Plane	Within	
	Electrolytic Fuel Cell Vehicle	Within	
6	Dr. Yagya Dutta Dwivedi	Professor	Idea/Innovation Development
	9		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Articulated Flapping Wing UAV	Within	
	Bio inspired micro air vehicle	Within	
7	Mrs. G Mary Swarna Latha	Assistant Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Safe Watch	Within	
8	Dr. M Pala Prasad Reddy	Dean	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	High speed reconnaissance UAV	Within	
9	Mr. M Prashanth Reddy	Assistant Professor	Idea/Innovation Development
	6		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	CNC engraving machine with multiple operations	Within	

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

10	Dr. S China Venkateswarlu	Associate Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Making of tableware products using agricultural residue		Within	
Making of tableware products using agricultural residue		Within		
11	S. Srikrishnan	Assistant Professor	Idea/Innovation Development	6
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	CNC engraving machine with multiple operations		Within	
12	V V S H Prasad	Professor	Idea/Innovation Development	14
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Multi purpose Hexacopter		Within	
Multi purpose Hexacopter		Within		
13	C Labesh Kumar	Assistant Professor	Idea/Innovation Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Multi purpose Hexacopter		Within	
14	Dr Vijay Vallabhuni	Associate Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Design and fabrication of chemical sensor using nano transistor array to detect war fare nerve agents and its stimulants		Within	
15	Dr. J Sirisha Devi	Associate Professor	Entrepreneurship/Startup Development	6
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Greenphi Technologies Pvt. Ltd.		Within	U52609CT2019PTC009735

**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	Neha Goel	IPR Protection & Commercialization					Structured Mentorship	
	Structured Mentorship Program Name		Start Date	End Date	Total No of Days of Mentorship Program	No of Mentors Involved	Mentorship Cohort Size (No. of Mentee)	Type of Mentee
	IPR filing and protetcion		21-10-2019	25-10-2019	5	7	22	Innovation/Prototype
2	Manoj Kumar Bada Ghar Wala	Idea/Innovation Development					Structured Mentorship	

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

Structured Mentorship Program Name	Start Date	End Date	Total No of Days of Mentorship Program	No of Mentors Involved	Mentorship Cohort Size (No. of Mentee)	Type of Mentee
Innovative Idea Development	10-02-2020	15-02-2020	6	8	24	Idea

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

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Convert ed 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	Articulated Flapping Wing UAV	Product Innovation	Technological		Student-Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	<table border="1"> <tr> <td>Grant Amount in Rs</td> <td>75000</td> </tr> </table>	Grant Amount in Rs	75000	No	No
Grant Amount in Rs	75000														
				Name		Type		Gender		Email		Contact			
				K Madhulalasa		Student		Female		janukurma00@gmail.com		9393576480			
				Name		Type		Gender		Email		Contact			
				Dr. Yagya Dutta Dwivedi		Faculty		Male		yagyadutta.dwivedi@iare.ac.in		9705598279			

2	Blind's Apron	Product Innovation	Technological		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 Adopted and Implemented at Ground	No	No	Grant Amount in Rs 30000	No	No
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Name	Type	Gender	Email	Contact
k. Sai Sravan	Student	Male	mrsravan549@gmail.com	9000685265

Name	Type	Gender	Email	Contact
M Sri Lalith	Student	Male	lalith.eee1999@gmail.com	8074494804
Dr.P Sridhar	Faculty	Male	sridhar@iare.ac.in	8886023000

3	ECO- Brick	Process Innovation	Non-Technological / Social / Community Innovation		Student-Faculty	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	Grant Amount in Rs 120000	No	No
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Name	Type	Gender	Email	Contact
J Sravana Teja	Student	Male	sravanteja61@gmail.com	9866590887

Name	Type	Gender	Email	Contact
K Lakshmi Revathi	Faculty	Female	k.lakshmirovathi@iare.ac.in	9550041819

4	CISNE ROV remotely operated underwater aerial vehicle	Product Innovation	Technological		Student-Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 46500	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Chowtakuri Manish Kumar		Student			Male		ch.maneesh3@gmail.com			8328560977			
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Dr. K China Apparao		Faculty			Male		k.chinnaapparao@iare.ac.in			9329135185			
5	Bio inspired micro air vehicle	Product Innovation	Technological		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	No	Grant Amount in Rs 85000	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Blessington T		Student			Male		blessington1207@gmail.com			8179124038			
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Abhishek Mohapatra		Student			Male		abhishekmohapatra@yahoo.com			9014453492			
Dr. Yagya Dutta Dwivedi		Faculty			Male		yagyadutta.dwivedi@iare.ac.in			9705598279			

6	Design and fabrication of chemical sensor using nano transistor array to detect warfare nerve agents and its stimulants	Product Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 75000	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Dr. Vijay Vallabhuni		Faculty			Male		v.vijay@iare.ac.in			8885888572			
7	Plastic Recycling Unit	Process Innovation	Non-Technological / Social / Community Innovation		Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	No	No	Grant Amount in Rs 135000	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Etta Mohan Reddy		Student			Male		mohanreddy1227@gmail.com			8639239454			
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Chinthala Ramyasree		Student			Female		ramyasree.chintala894@gmail.com			8639239454			
8	AI Smart Home Technology using voice and hand signs technology	Product Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	Yes	Grant Amount in Rs 46000	No	No

Name		Type							Gender		Email		Contact	
Dr. S Chinna Venkateswarlu		Faculty							Male		c.venkateswarlu@iare.ac.in		9502019135	
9	High speed reconnaissance UAV	Product Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Adopted and Implemented at Ground	No	No	Grant Amount in Rs	66500	No	No
	Name		Type							Gender		Email		Contact
	Arjun Nambiyar		Student							Male		arjun.nambiar55@gmail.com		9946985271
	Name		Type							Gender		Email		Contact
Dr.M Pala Prasad Reddy		Faculty							Male		p.prasadreddy@iare.ac.in		9491602701	
Dr. Yagya Dutta Dwivedi		Faculty							Male		yagyadutta.dwivedi@iare.ac.in		9705598279	
10	Electrolytic Fuel Cell Vehicle	Product Innovation	Technological		Student	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	87750	No	No
	Name		Type							Gender		Email		Contact
	Nalukala Omkar		Student							Male		nalukulaomkar@gmail.com		8886290913
	Name		Type							Gender		Email		Contact
Dr. Sudhir Sastry .Y.B		Faculty							Male		sudhirsastry.yb@iare.ac.in		9440005968	



11	CNC engraving machine with multiple operations	Product Innovation	Technological		Student-Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype").	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Adopted and Implemented at Ground	No	No	Grant Amount in Rs 45400	No	Amount Received in Rs. 75000
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Name	Type	Gender	Email	Contact
G Vikram Singh	Student	Male	g.vikarmgodara@gmail.com	8328067030

Name	Type	Gender	Email	Contact
Tarun Sai Krishna	Student	Male	tarunsai@iare.ac.in	9573444849
S Srikrishnan	Faculty	Male	ssrikrishnan@iare.ac.in	9003138376
M Prashanth Reddy	Faculty	Male	m.prashanthreddy@iare.ac.in	9491361147

12	Large Capacity Solar Powered Automatic Pesticide sprayer	Product Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 125000	No	No
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Name	Type	Gender	Email	Contact
Dr. M Pala prasad Reddy	Faculty	Male	p.prasadreddy@iare.ac.in	9491602701

Name	Type	Gender	Email	Contact
Tarun Sai Krishna	Student	Male	tarunsai@iare.ac.in	9573444849

13	Making of tableware products using agricultural residue	Product Innovation	Non-Technological / Social / Community Innovation		Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	Grant Amount in Rs 35740	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>		<b>Contact</b>	
Kote Rahul Sree					Student			Male		rahulsree786@gmail.com		9966298869	
14	Wind Powered Plane	Product Innovation	Technological		Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Dropped	No	No	Grant Amount in Rs 256000	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>		<b>Contact</b>	
Prayuktha B					Student			Female		prayukthabendadi@gmail.com		9550763731	
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>		<b>Contact</b>	
M Sree Charan					Student			Male		sricharan710@gmail.com		85009004464	
Dr. Sudhir Sastry .Y.B					Faculty			Male		sudhirsastri.yb@iare.ac.in		9440005968	

15	Multi purpose Hexacopter	Product Innovation	Technological		Student	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	No	Grant Amount in Rs 133600	No	No
Name		Type			Gender		Email		Contact				
R Mohit Rao		Student			Male		rokkammohitrao@gmail.com		7032046126				
16	Laser Stimulus Home Security System	Product Innovation	Technological		Student-Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Dropped	No	No	Grant Amount in Rs 8000	No	No
Name		Type			Gender		Email		Contact				
Prasanth Kumar Tiwari		Student			Male		stiwary@iare.ac.in		8074747898				
Name		Type			Gender		Email		Contact				
Dr. M Madhu Bala		Faculty			Female		m.madhubala@iare.ac.in		9885543778				
17	Modeling, Fabrication and experimental analysis of Morphed Wing for UAV	Product Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	Grant Amount in Rs 34500	No	No

Name		Type				Gender		Email		Contact		
Dr. Sudhir Sastry .Y.B		Faculty				Male		sudhirsastri.yb@iare.ac.in		9440005968		
18	Design, Fabrication of Multi-Purpose Multi-Rotor Drone	Product Innovation	Technological		Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 65000	No
Name		Type				Gender		Email		Contact		
Dr. Yagya Dutta Dwivedi		Faculty				Male		yagyadutta.dwivedi@iare.ac.in		9705598279		
19	GREEN MACHINE FOR SOLID WASTE CONSERVATION	Product Innovation	Technological		Student-Faculty	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 Ongoing	No	No	Grant Amount in Rs 15000	No
Name		Type				Gender		Email		Contact		
k Vasu		Faculty				Male		k.vasu6364@gmail.com		9963758959		
Name		Type				Gender		Email		Contact		
C Labesh Kumar		Faculty				Male		c.labeshkumar@iare.ac.in		9885155514		

20	BLADELESS TURBINE FOR MICRO POWER GENERATION	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 27500	No	No
Name		Type			Gender		Email		Contact				
S Srikrishnan		Faculty			Male		ssrikrishnan@iare.ac.in		9003138376				
21	INVESTIGATION ON SCC BY PARTIAL REPLACEMENT OF NCA WITH RCA AND CEMENT WITH FLY ASH	Process Innovation	Technological		Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	Grant Amount in Rs 14000	No	No
Name		Type			Gender		Email		Contact				
GNV Sai Teja		Faculty			Male		sai.teja@iare.ac.in		9494397323				
22	CONCRETE WITH SUGARCANE BAGASSE ASH	Process Innovation	Technological		Faculty	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 Ongoing	No	No	Grant Amount in Rs 12000	No	No

		Name			Type				Gender		Email		Contact	
		Dr. J S R Prasad			Faculty				Male		jsr.prasad@iare.ac.in		9502684335	
23	CreditCard Fraud Detection	Service Innovation,Market-place 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	35600	No	No
			Name			Type				Gender		Email		Contact
		N V Krishna Rao			Faculty				Male		n.vkrishnarao@iare.ac.in		9985821437	
24	Automatic Stress Prediction System using Smart Phone Sensors	Product Innovation	Technological		Faculty	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 Ongoing	No	No	Grant Amount in Rs	35000	No	No
			Name			Type				Gender		Email		Contact
		B Padmaja			Faculty				Female		b.padmaja@iare.ac.in		9618150625	

25	ELECTRONIC SNIFFER ROBOT	Product Innovation	Technological		Faculty	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	Grant Amount in Rs 35000	No	No
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Name	Type	Gender	Email	Contact
S Lakshmanachari	Faculty	Male	s.lakshmanachari@iare.ac.in	9290115727

26	RAILWAY ACCIDENT IDENTIFICATION AND ALERT SYSTEM	Product Innovation	Technological		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 Completed	No	No	Grant Amount in Rs 17800	No	No
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Name	Type	Gender	Email	Contact
Nenavath Mohan Naik	Faculty	Male	16951A0485@iare.ac.in	9550735640

Name	Type	Gender	Email	Contact
M Saritha	Faculty	Female	m.saritha@iare.ac.in	9985898031
Are Nikhil	Student	Male	16951A0496@iare.ac.in	8688641425
L Nikhil Reddy	Student	Male	17955A0414@iare.ac.in	9502024086

27	Tree mounted wind turbine	Product Innovation	Technological		Student-Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	Grant Amount in Rs 35600	No	No
Name		Type			Gender		Email		Contact				
V. Durga Tejaswini		Student			Female		tejaswi1075@gmail.com		8367251604				
Name		Type			Gender		Email		Contact				
Dr V Chandra Jagan Mohan		Faculty			Male		vcjaganmohan@iare.ac.in		9618541353				

**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
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1	AIREAL Automation Private Limited	Product Innovation	Technological	6110	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	U32109TG 2020PTC14 0350	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	145000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
B Anil Kumar		5115322		Innovator/Entrepreneur External to Institute		Male		anil@arealautomation.com		9849966080					
2	Greenphi Technologies Pvt. Ltd	Product Innovation, Process Innovation	Technological	6110	Student	Venture with Corporate Identification Number (CIN) Registration	U52609CT2 019PTC009 735	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	95000	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Mohit Rao Rokkam		8621386		Innovator/Entrepreneur External to Institute		Male		contact@greenphi.tech		8520819876					
3	Stringfly Aerospace Pvt. Ltd.	Product Innovation	Technological	6110	Student	Venture with Corporate Identification Number (CIN) Registration	U32100TG 2019PTC12 9148	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs	83230	No	No	No
Name		DIN number		Type		Gender		Email		Contact					
Venkata Naga CharanNath Mitta		8308334		Student		Male		charanmitta2345@gmail.com		9502675035					

### 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	University of Alabama USA	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	2	03-09-2019
2	University of Malaya Malaysia	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	3	02-10-2019
3	NetElixir	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation, Mentoring, Networking	6	03-07-2019
4	UAP Service Agreement	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring, Networking	7	09-11-2019
5	MTE Industries Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Mentoring	4	12-02-2020
6	Sri Rama nonferrous foundry	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Incubation	3	11-12-2019
7	G Pullaiah College of Engineering and Technology, Kurnool	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring, Networking	2	12-11-2019

8	Lingaraj Appa Engineering College, Bidar Karnataka	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	4	20-08-2019
9	SVR Engineering College, Nandyal.	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	1	11-02-2020
10	Shetty Institute of Technology, Gulbarga, Karnataka	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	1	18-12-2019
11	Santhiram Engineering College, Nandyal.	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	2	14-11-2019
12	Badagharwala Technologies Pvt Ltd, Hyderabad	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring,Networking	3	10-03-2020

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

Srno	Title/Name of IP(Copyright & Designs Only)	Type of IP(Copyright & Designs Only)	IP(Copyright & Designs Only) Registration Number of Copyright/Design	Application Level	Date of Copyright / Design IP Filed/ Published (Year, Month)	Copy of receipt / application screenshot [PDF or Image]	Current Status of IP(Copyright & Designs Only) as on 31st March 2020	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Automatic Blackboard Cleaner Device	IPRFiledPublished	299810	National	2019 - 07	Uploaded	Granted	No
	Department/Centre Name Mechanical Engineering							
2	CNC MACHINE OPERATOR STAND	IPRFiledPublished	299811	National	2019 - 08	Uploaded	Granted	No
	Department/Centre Name Mechanical Engineering							
3	SWITCH PLATE COLUMN FOR CNC MACHINE	IPRFiledPublished	299814	National	2019 - 07	Uploaded	Granted	No
	Department/Centre Name Mechanical Engineering							
4	TRAIN TOILET COMMODE	IPRFiledPublished	299903	National	2019 - 06	Uploaded	Granted	No
	Department/Centre Name ECE							
5	TRAIN TOILET COMMODE	IPRFiledPublished	299904	National	2019 - 06	Uploaded	Granted	No
	Department/Centre Name ECE							
6	TRAIN SEWERAGE TANK	IPRFiledPublished	299905	National	2019 - 09	Uploaded	Granted	No

	Department/Centre Name							
	ECE							
7	TRAIN SEWERAGE SEGREGATING TANK	IPRFiledPublished	299907	National	2019 - 08	Uploaded	Granted	No
	Department/Centre Name							
	ECE							
8	BIRD STRIKE PROTECTOR BLADE FOR AIRCRAFT ENGINE	IPRFiledPublished	311085	National	2019 - 11	Uploaded	Granted	No
	Department/Centre Name							
	Aeronautical Engineering							
9	BIRD STRIKE PROTECTOR BLADE COVER FOR AIRCRAFT ENGINE	IPRFiledPublished	311086	National	2019 - 09	Uploaded	Granted	No
	Department/Centre Name							
	Aeronautical Engineering							
10	BIRD STRIKE PROTECTOR FOR AIRCRAFT ENGINE	IPRFiledPublished	311087	National	2019 - 12	Uploaded	Granted	No
	Department/Centre Name							
	Aeronautical Engineering							
11	WALL SLOT CUTTER	IPRFiledPublished	313984-001	National	2019 - 11	Uploaded	Granted	No
	Department/Centre Name							
	Aeronautical Engineering							
	Mechanical Engineering							

**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	System and method for tracking humans using realtime biosignals	201941042171	National	2019 - 10	Uploaded
2	System for minimizing crosstalk effects of shells and designing multiwalled Carbon nanotube models	201941042460	National	2019 - 10	Uploaded
3	System for reducing crosstalk delays in electronic devices using a CMOS inverter	201941042515	National	2019 - 10	Uploaded
4	System and method to improve performance of amplifiers using BIAS Current	201941042648	National	2019 - 10	Uploaded

5	System to obtain finite gain and noise of an electrocardiogram amplifier	201941042674	National	2019 - 10	Uploaded
6	System and method for generating efficient energy to propel a vehicle	201941024539	National	2019 - 06	Uploaded
7	Streetlight system and method for generating efficient energy using renewable energy sources	201941024532	National	2019 - 06	Uploaded

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

Smo	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
1	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313986-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
2	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313987-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
3	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313990-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
4	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313992-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
5	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313993-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
6	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313995-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
7	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313996-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya
8	CARD FOR PLAYING GAME	PatentsHoldByInnovations	313997-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya

	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
9	CARD FOR PLAYING GAME	PatentsHoldByInnovations		313998-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
10	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314005-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
11	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314006-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
12	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314007-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
13	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314009-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
14	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314010-001	Granted	NA
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	
15	CARD FOR PLAYING GAME	PatentsHoldByInnovations		314012-001	Granted	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name	
	Mannepalli Venkata Aditya Nag		Incubatee Innovator		Mannepalli Venkata Aditya	

### Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

Srno	Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder	Centre / Department of Origin of Licence	Licence Transferred to	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)
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**Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner**

1	Expert Feedback System And Method to Enhance Services of Indian Railways	IP/Patented Technology	Licensing with Royalty Sharing	201741019214	<table border="1"> <tr> <td>Patent/Licence Holder name (Institute Co-ownership is Must)</td> <td>INSTITUTE OF AERONAUTICAL ENGINEERING</td> </tr> <tr> <td>Contact number of license holder</td> <td>8464843058</td> </tr> <tr> <td>Email of Licence holder</td> <td>ipr@iare.ac.in</td> </tr> <tr> <td>Gender</td> <td>Institute</td> </tr> </table>	Patent/Licence Holder name (Institute Co-ownership is Must)	INSTITUTE OF AERONAUTICAL ENGINEERING	Contact number of license holder	8464843058	Email of Licence holder	ipr@iare.ac.in	Gender	Institute	Computer Science and Engineering	<table border="1"> <tr> <td>Licence Transferred to</td> <td>Industry</td> </tr> <tr> <td>Name of Industry/Start-up/Agency Received License/Technology</td> <td>MLR INFRASTRUCTURE PRIVATE LIMITED</td> </tr> <tr> <td>Address of Agency</td> <td>PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN</td> </tr> <tr> <td>Contact Number of Agency</td> <td>9866520842</td> </tr> <tr> <td>Email of Agency</td> <td>mlrinfra@gmail.com</td> </tr> </table>	Licence Transferred to	Industry	Name of Industry/Start-up/Agency Received License/Technology	MLR INFRASTRUCTURE PRIVATE LIMITED	Address of Agency	PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN	Contact Number of Agency	9866520842	Email of Agency	mlrinfra@gmail.com	Yes	20000
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Contact Number of Agency	9866520842																										
Email of Agency	mlrinfra@gmail.com																										
2	DNA Based Encryption System and Method Thereof to Provide High Secure and Reliable Data Transmission	IP/Patented Technology	Licensing with Royalty Sharing	201741018429	<table border="1"> <tr> <td>Patent/Licence Holder name (Institute Co-ownership is Must)</td> <td>INSTITUTE OF AERONAUTICAL ENGINEERING</td> </tr> <tr> <td>Contact number of license holder</td> <td>8464843058</td> </tr> <tr> <td>Email of Licence holder</td> <td>ipr@iare.ac.in</td> </tr> <tr> <td>Gender</td> <td>Institute</td> </tr> </table>	Patent/Licence Holder name (Institute Co-ownership is Must)	INSTITUTE OF AERONAUTICAL ENGINEERING	Contact number of license holder	8464843058	Email of Licence holder	ipr@iare.ac.in	Gender	Institute	Computer Science and Engineering	<table border="1"> <tr> <td>Licence Transferred to</td> <td>Industry</td> </tr> <tr> <td>Name of Industry/Start-up/Agency Received License/Technology</td> <td>MARRI INFRASTRUCTURE PRIVATE LIMITED</td> </tr> <tr> <td>Address of Agency</td> <td>PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN</td> </tr> <tr> <td>Contact Number of Agency</td> <td>9866520842</td> </tr> <tr> <td>Email of Agency</td> <td>marriinfra@gmail.com</td> </tr> </table>	Licence Transferred to	Industry	Name of Industry/Start-up/Agency Received License/Technology	MARRI INFRASTRUCTURE PRIVATE LIMITED	Address of Agency	PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN	Contact Number of Agency	9866520842	Email of Agency	marriinfra@gmail.com	Yes	20000
Patent/Licence Holder name (Institute Co-ownership is Must)	INSTITUTE OF AERONAUTICAL ENGINEERING																										
Contact number of license holder	8464843058																										
Email of Licence holder	ipr@iare.ac.in																										
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Contact Number of Agency	9866520842																										
Email of Agency	marriinfra@gmail.com																										
3	Di-Coptor and Arms Mechanism Thereof	IP/Patented Technology	One-time transfer/Licensing	201741040612	<table border="1"> <tr> <td>Patent/Licence Holder name (Institute Co-ownership is Must)</td> <td>INSTITUTE OF AERONAUTICAL ENGINEERING</td> </tr> <tr> <td>Contact number of license holder</td> <td>8464843058</td> </tr> <tr> <td>Email of Licence holder</td> <td>ipr@iare.ac.in</td> </tr> <tr> <td>Gender</td> <td>Institute</td> </tr> </table>	Patent/Licence Holder name (Institute Co-ownership is Must)	INSTITUTE OF AERONAUTICAL ENGINEERING	Contact number of license holder	8464843058	Email of Licence holder	ipr@iare.ac.in	Gender	Institute	Aeronautical Engineering	<table border="1"> <tr> <td>Licence Transferred to</td> <td>Institute</td> </tr> <tr> <td>Name of Industry/Start-up/Agency Received License/Technology</td> <td>MARRI INFRASTRUCTURE PRIVATE LIMITED</td> </tr> <tr> <td>Address of Agency</td> <td>PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN</td> </tr> <tr> <td>Contact Number of Agency</td> <td>9866520842</td> </tr> <tr> <td>Email of Agency</td> <td>marriinfra@gmail.com</td> </tr> </table>	Licence Transferred to	Institute	Name of Industry/Start-up/Agency Received License/Technology	MARRI INFRASTRUCTURE PRIVATE LIMITED	Address of Agency	PLOT NO.40, SANJIVIAH NAGAR, SOWJANYA COLONY, BOWENPALLY, SECUNDERABAD Hyderabad TG 500011 IN	Contact Number of Agency	9866520842	Email of Agency	marriinfra@gmail.com	Yes	20000
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**List the patent Published & Granted to HEI**

Srno	Title / Name of Patent	Type of IP	Publication / Granted Number	Publication / Granted Year	Status	Remarks
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**List the patent Published & Granted to HEI**

1	SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY TO PROPEL A VEHICLE	Published	201941024539	2019	Approved	
2	I-AUTOMOBILE: INTELLIGENT AUTOMOBILE WITH COMBINATION OF CAMERA, RADAR , ADVANCED SENCER-Q7 AND RADIO FREQUENCY COMMUNICATION WORK TOGETHER WITH SENSOR FUSION	Published	201941050888	2019	Approved	
3	SYSTEM TO OBTAIN FINITE GAIN AND NOISE OF AN ELECTROCARDIOGRAM AMPLIFIER	Published	201941042674	2019	Approved	
4	SYSTEM AND METHOD TO IMPROVE PERFORMANCE OF AMPLIFIERS USING BIAS CURRENT	Published	201941042648	2019	Approved	
5	SYSTEM FOR REDUCING CROSSTALK DELAYS IN ELECTRONIC DEVICES USING A CMOS INVERTER	Published	201941042515	2019	Approved	
6	SYSTEM FOR MINIMIZING CROSSTALK EFFECTS OF SHELLS AND DESIGNING MULTI-WALLED CARBON NANOTUBE MODELS	Published	201941042460	2019	Approved	
7	STREETLIGHT SYSTEM AND METHOD FOR GENERATING EFFICIENT ENERGY USING RENEWABLE ENERGY SOURCES	Published	201941024532	2019	Approved	

## Declaration

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

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

Dear Sir,

Herewith, myself Dr. L V Narasimha Prasad (Head of Institute) and Dr. J Sirisha Devi (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

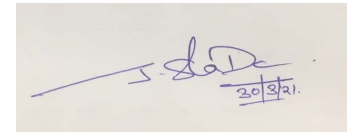
The Head of Institute



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Dr. L V Narasimha Prasad  
Head of the Institution,  
HYDERABAD, Telangana

Nodal officer



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Dr. J Sirisha Devi  
Nodal Officer,  
HYDERABAD, Telangana